District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 306899

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

1. Operator Name and Address	2. OGRID Number
Redwood Operating LLC PO Box 1370 Artesia, NM 882111370	330211
	3. API Number 30-015-49220

4. Property Code	5. Property Name	6. Well No.
329504	LEAVITT 13	008H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	18	18S	27E	3	1945	S	530	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
L	13	18S	26E	L	1980	S	1	W	Eddy

9. Pool Information

RED LAKE;GLORIETA-YESO	51120

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		Private	3291
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	9473	Yeso		6/1/2022
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	1230	450	0
Prod	8.75	7	26	4250	1500	0
Prod	8.75	5.5	17	9473	575	0

Casing/Cement Program: Additional Comments

Redwood Operating LLC proposed to drill 12 1/4" hole to 1230', run 9 5/8" csg/cmt. Drill 8 3/4 hole to 9473', run 7" & 5 1/2" csg/cmt, put well on production.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	

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 DIVISION

Printed Name:	Electronically filed by Jerry Sherrell	Approved By:	Dean McClure	
Title:	Regulatory Supervisor	Title:	Petroleum Specialist - A	
Email Address:	jerrys@mec.com	Approved Date:	1/28/2022	Expiration Date: 1/28/2024
Date:	1/19/2022 Phone: 575-748-1288	Conditions of Approval Attached		

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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	[2] Pool Code	[3] Pool Name
30-015-49220	51120	Red Lake; Glorieta-Yeso

[4] Property Code	[5] Property Name	[6] Well Number
329504	LEAVITT 13	8H

[7] OGRID No.	[8] Operator Name	[9] Elevation
330211	REDWOOD OPERATING LLC	3291.6

[10] Surface Location

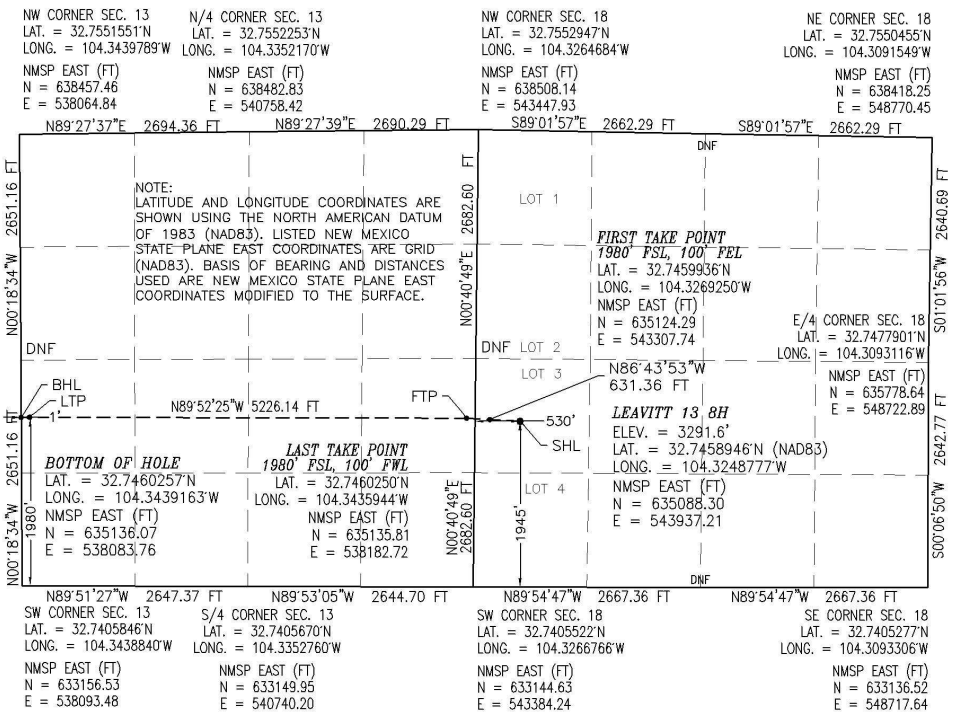
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	18	18 S	27 E		1945	SOUTH	530	WEST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	13	18 S	26 E		1980	SOUTH	1	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
160			

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



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Deana Weaver 1/19/2022
Signature Date

Deana Weaver
Printed Name

dweaver@mec.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JANUARY 5, 2022
Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number: FILIMON F. JARAMILLO, PLS 12797

SURVEY NO. 9192

Intent [XX] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
REDWOOD OPERATING LLC	**LEAVITT 13**	**8H**

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	18	**18S**	**27E**	**3**	**1945**	**SOUTH**	**530**	**WEST**	**EDDY**

Latitude	Longitude	NAD
32.7458946	**104.3248777**	**83**

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	**13**	**18S**	**26E**		**1980**	**SOUTH**	**100**	**EAST**	**EDDY**

Latitude	Longitude	NAD
32.7459936	**104.3269250**	**83**

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	**13**	**18S**	**26E**		**1980**	**SOUTH**	**100**	**WEST**	**EDDY**

Latitude	Longitude	NAD
32.7460250	**104.3435944**	**83**

Is this well the defining well for the Horizontal Spacing Unit? [ ]

Is this well an infill well? [ ]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

Form APD Conditions

Permit 306899

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Redwood Operating LLC [330211] PO Box 1370 Artesia, NM 882111370	30-015-49220
	Well: LEAVITT 13 #008H

OCD Reviewer	Condition
dmcclure	Notify OCD 24 hours prior to casing & cement
dmcclure	Will require a File As Drilled C-102 and a Directional Survey with the C-104
dmcclure	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
dmcclure	Cement is required to circulate on both surface and production strings of casing
dmcclure	Well is within the designated area within 19.15.39.11.A. NMAC and shall be drilled and operated in accordance with 19.15.39.11 NMAC (Special Provisions for a Selected Area of the Roswell Artesian Basin).

Leavitt 13 8H, Plan 1

Operator	Redwood Operating LLC	**Units**	feet, °/100ft	11:02 Wednesday, January 12, 2022	Page 1 of 4
Field	Red Lake	**County**	Eddy	**Vertical Section Azimuth**	270.13
Well Name	Leavitt 13 8H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 1945 FSL & 530 FWL Section 18-T18S-R27E BHL: 1980 FSL & 1 FWL Section 13-T18S-R27E	**Map Zone**	UTM	**Lat Long Ref**	
Site		**Surface X**	1848001	**Surface Long**	
Slot Name	**UWI**	**Surface Y**	11886859.8	**Surface Lat**	
Well Number	8H **API**	**Surface Z**	3309.6	**Global Z Ref**	KB
Project	**MD/TVD Ref** KB	**Ground Level**	3291.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD* ft	INC* deg	AZI* deg	TVD* ft	N* ft	E* ft	DLS* °/100ft	V. S.* ft	MapE* ft	MapN* ft	SysTVD* ft
*** TIE (at MD = 3136.00)										
3136.00	0.00	0.0	3136.00	0.00	0.00		0.00	1848001.00	11886859.80	173.60
3150.00	0.00	0.0	3150.00	0.00	0.00	0.00	0.00	1848001.00	11886859.80	159.60
3200.00	0.00	0.0	3200.00	0.00	0.00	0.00	0.00	1848001.00	11886859.80	109.60
*** KOP 9 DEGREES (at MD = 3236.00)										
3236.00	0.00	0.0	3236.00	0.00	0.00	0.00	0.00	1848001.00	11886859.80	73.60
3250.00	1.12	273.0	3250.00	0.01	-0.14	8.00	0.14	1848000.86	11886859.81	59.60
3300.00	5.12	273.0	3299.91	0.15	-2.85	8.00	2.85	1847998.15	11886859.95	9.69
3350.00	9.12	273.0	3349.52	0.47	-9.04	8.00	9.04	1847991.96	11886860.27	-39.92
3400.00	13.12	273.0	3398.57	0.98	-18.67	8.00	18.67	1847982.33	11886860.78	-88.97
3450.00	17.12	273.0	3446.83	1.66	-31.69	8.00	31.69	1847969.31	11886861.46	-137.23
3500.00	21.12	273.0	3494.06	2.52	-48.04	8.00	48.05	1847952.96	11886862.32	-184.46
3550.00	25.12	273.0	3540.04	3.55	-67.64	8.00	67.65	1847933.36	11886863.35	-230.44
3600.00	29.12	273.0	3584.53	4.74	-90.40	8.00	90.41	1847910.60	11886864.54	-274.93
3650.00	33.12	273.0	3627.33	6.09	-116.20	8.00	116.22	1847884.80	11886865.89	-317.73
3700.00	37.12	273.0	3668.22	7.60	-144.92	8.00	144.94	1847856.08	11886867.40	-358.62
3750.00	41.12	273.0	3707.00	9.25	-176.42	8.00	176.44	1847824.58	11886869.05	-397.40
3800.00	45.12	273.0	3743.49	11.03	-210.54	8.00	210.57	1847790.46	11886870.83	-433.89
3850.00	49.12	273.0	3777.50	12.95	-247.12	8.00	247.15	1847753.88	11886872.75	-467.90
3900.00	53.12	273.0	3808.88	14.99	-285.99	8.00	286.02	1847715.01	11886874.79	-499.28
*** 55 DEGREE TANGENT (at MD = 3923.50)										
3923.50	55.00	273.0	3822.67	15.98	-304.98	8.00	305.02	1847696.02	11886875.78	-513.07
3950.00	55.00	273.0	3837.87	17.12	-326.66	0.00	326.70	1847674.34	11886876.92	-528.27
4000.00	55.00	273.0	3866.55	19.26	-367.56	0.00	367.61	1847633.44	11886879.06	-556.95
4050.00	55.00	273.0	3895.23	21.41	-408.47	0.00	408.51	1847592.53	11886881.21	-585.63
4100.00	55.00	273.0	3923.91	23.55	-449.37	0.00	449.42	1847551.63	11886883.35	-614.31
4150.00	55.00	273.0	3952.59	25.69	-490.27	0.00	490.33	1847510.73	11886885.49	-642.99
*** 10 DEGREE BUILD (at MD = 4173.50)										
4173.50	55.00	273.0	3966.07	26.70	-509.49	0.00	509.55	1847491.51	11886886.50	-656.47
4200.00	57.64	272.7	3980.76	27.80	-531.51	10.00	531.58	1847469.49	11886887.60	-671.16
4250.00	62.63	272.3	4005.65	29.70	-574.82	10.00	574.88	1847426.18	11886889.50	-696.05
4300.00	67.61	271.9	4026.68	31.35	-620.13	10.00	620.20	1847380.87	11886891.15	-717.08
4350.00	72.60	271.5	4043.69	32.73	-667.11	10.00	667.19	1847333.89	11886892.53	-734.09
4400.00	77.59	271.1	4056.55	33.83	-715.40	10.00	715.48	1847285.60	11886893.63	-746.95
4450.00	82.57	270.8	4065.16	34.65	-764.63	10.00	764.71	1847236.37	11886894.45	-755.56
4500.00	87.56	270.4	4069.46	35.18	-814.43	10.00	814.51	1847186.57	11886894.98	-759.86
*** LANDING POINT (at MD = 4545.47)										
4545.47	92.10	270.1	4069.59	35.40	-859.89	10.00	859.97	1847141.11	11886895.20	-759.99
4550.00	92.10	270.1	4069.43	35.41	-864.41	0.00	864.49	1847136.59	11886895.21	-759.83

Leavitt 13 8H, Plan 1

Operator	Redwood Operating LLC	**Units**	feet, °/100ft	11:02 Wednesday, January 12, 2022	Page 2 of 4
Field	Red Lake	**County**	Eddy	**Vertical Section Azimuth**	270.13
Well Name	Leavitt 13 8H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 1945 FSL & 530 FWL Section 18-T18S-R27E BHL: 1980 FSL & 1 FWL Section 13-T18S-R27E	**Map Zone**	UTM	**Lat Long Ref**	
Site		**Surface X**	1848001	**Surface Long**	
Slot Name	**UWI**	**Surface Y**	11886859.8	**Surface Lat**	
Well Number	8H **API**	**Surface Z**	3309.6	**Global Z Ref**	KB
Project	**MD/TVD Ref** KB	**Ground Level**	3291.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
4600.00	92.10	270.1	4067.60	35.53	-914.38	0.00	914.46	1847086.62	11886895.33	-758.00
4650.00	92.10	270.1	4065.76	35.64	-964.35	0.00	964.43	1847036.65	11886895.44	-756.16
4700.00	92.10	270.1	4063.93	35.75	-1014.31	0.00	1014.39	1846986.69	11886895.55	-754.33
4750.00	92.10	270.1	4062.10	35.87	-1064.28	0.00	1064.36	1846936.72	11886895.67	-752.50
4800.00	92.10	270.1	4060.27	35.98	-1114.25	0.00	1114.32	1846886.75	11886895.78	-750.67
4850.00	92.10	270.1	4058.43	36.09	-1164.21	0.00	1164.29	1846836.79	11886895.89	-748.83
4900.00	92.10	270.1	4056.60	36.21	-1214.18	0.00	1214.26	1846786.82	11886896.01	-747.00
4950.00	92.10	270.1	4054.77	36.32	-1264.14	0.00	1264.22	1846736.86	11886896.12	-745.17
5000.00	92.10	270.1	4052.94	36.44	-1314.11	0.00	1314.19	1846686.89	11886896.24	-743.34
5050.00	92.10	270.1	4051.11	36.55	-1364.08	0.00	1364.16	1846636.92	11886896.35	-741.51
5100.00	92.10	270.1	4049.27	36.66	-1414.04	0.00	1414.12	1846586.96	11886896.46	-739.67
5150.00	92.10	270.1	4047.44	36.78	-1464.01	0.00	1464.09	1846536.99	11886896.58	-737.84
5200.00	92.10	270.1	4045.61	36.89	-1513.98	0.00	1514.06	1846487.02	11886896.69	-736.01
5250.00	92.10	270.1	4043.78	37.00	-1563.94	0.00	1564.02	1846437.06	11886896.80	-734.18
5300.00	92.10	270.1	4041.94	37.12	-1613.91	0.00	1613.99	1846387.09	11886896.92	-732.34
5350.00	92.10	270.1	4040.11	37.23	-1663.87	0.00	1663.96	1846337.13	11886897.03	-730.51
5400.00	92.10	270.1	4038.28	37.34	-1713.84	0.00	1713.92	1846287.16	11886897.14	-728.68
5450.00	92.10	270.1	4036.45	37.46	-1763.81	0.00	1763.89	1846237.19	11886897.26	-726.85
5500.00	92.10	270.1	4034.62	37.57	-1813.77	0.00	1813.85	1846187.23	11886897.37	-725.02
5550.00	92.10	270.1	4032.78	37.68	-1863.74	0.00	1863.82	1846137.26	11886897.48	-723.18
5600.00	92.10	270.1	4030.95	37.80	-1913.71	0.00	1913.79	1846087.29	11886897.60	-721.35
5650.00	92.10	270.1	4029.12	37.91	-1963.67	0.00	1963.75	1846037.33	11886897.71	-719.52
5700.00	92.10	270.1	4027.29	38.02	-2013.64	0.00	2013.72	1845987.36	11886897.82	-717.69
5750.00	92.10	270.1	4025.45	38.14	-2063.61	0.00	2063.69	1845937.39	11886897.94	-715.85
5800.00	92.10	270.1	4023.62	38.25	-2113.57	0.00	2113.65	1845887.43	11886898.05	-714.02
5850.00	92.10	270.1	4021.79	38.36	-2163.54	0.00	2163.62	1845837.46	11886898.16	-712.19
5900.00	92.10	270.1	4019.96	38.48	-2213.50	0.00	2213.59	1845787.50	11886898.28	-710.36
5950.00	92.10	270.1	4018.13	38.59	-2263.47	0.00	2263.55	1845737.53	11886898.39	-708.53
6000.00	92.10	270.1	4016.29	38.70	-2313.44	0.00	2313.52	1845687.56	11886898.50	-706.69
6050.00	92.10	270.1	4014.46	38.82	-2363.40	0.00	2363.48	1845637.60	11886898.62	-704.86
6100.00	92.10	270.1	4012.63	38.93	-2413.37	0.00	2413.45	1845587.63	11886898.73	-703.03
6150.00	92.10	270.1	4010.80	39.04	-2463.34	0.00	2463.42	1845537.66	11886898.84	-701.20
6200.00	92.10	270.1	4008.97	39.16	-2513.30	0.00	2513.38	1845487.70	11886898.96	-699.37
6250.00	92.10	270.1	4007.13	39.27	-2563.27	0.00	2563.35	1845437.73	11886899.07	-697.53
6300.00	92.10	270.1	4005.30	39.38	-2613.23	0.00	2613.32	1845387.77	11886899.18	-695.70
6350.00	92.10	270.1	4003.47	39.50	-2663.20	0.00	2663.28	1845337.80	11886899.30	-693.87
6400.00	92.10	270.1	4001.64	39.61	-2713.17	0.00	2713.25	1845287.83	11886899.41	-692.04

Leavitt 13 8H, Plan 1

Operator	Redwood Operating LLC	**Units**	feet, °/100ft	11:02 Wednesday, January 12, 2022	Page 3 of 4
Field	Red Lake	**County**	Eddy	**Vertical Section Azimuth**	270.13
Well Name	Leavitt 13 8H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 1945 FSL & 530 FWL Section 18-T18S-R27E BHL: 1980 FSL & 1 FWL Section 13-T18S-R27E	**Map Zone**	UTM	**Lat Long Ref**	
Site		**Surface X**	1848001	**Surface Long**	
Slot Name	**UWI**	**Surface Y**	11886859.8	**Surface Lat**	
Well Number	8H **API**	**Surface Z**	3309.6	**Global Z Ref**	KB
Project	**MD/TVD Ref** KB	**Ground Level**	3291.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD* ft	INC* deg	AZI* deg	TVD* ft	N* ft	E* ft	DLS* °/100ft	V. S.* ft	MapE* ft	MapN* ft	SysTVD* ft
6450.00	92.10	270.1	3999.80	39.72	-2763.13	0.00	2763.22	1845237.87	11886899.52	-690.20
6500.00	92.10	270.1	3997.97	39.84	-2813.10	0.00	2813.18	1845187.90	11886899.64	-688.37
6550.00	92.10	270.1	3996.14	39.95	-2863.07	0.00	2863.15	1845137.93	11886899.75	-686.54
6600.00	92.10	270.1	3994.31	40.06	-2913.03	0.00	2913.12	1845087.97	11886899.86	-684.71
6650.00	92.10	270.1	3992.48	40.18	-2963.00	0.00	2963.08	1845038.00	11886899.98	-682.88
6700.00	92.10	270.1	3990.64	40.29	-3012.96	0.00	3013.05	1844988.04	11886900.09	-681.04
6750.00	92.10	270.1	3988.81	40.40	-3062.93	0.00	3063.01	1844938.07	11886900.20	-679.21
6800.00	92.10	270.1	3986.98	40.52	-3112.90	0.00	3112.98	1844888.10	11886900.32	-677.38
6850.00	92.10	270.1	3985.15	40.63	-3162.86	0.00	3162.95	1844838.14	11886900.43	-675.55
6900.00	92.10	270.1	3983.31	40.74	-3212.83	0.00	3212.91	1844788.17	11886900.54	-673.71
6950.00	92.10	270.1	3981.48	40.86	-3262.80	0.00	3262.88	1844738.20	11886900.66	-671.88
7000.00	92.10	270.1	3979.65	40.97	-3312.76	0.00	3312.85	1844688.24	11886900.77	-670.05
7050.00	92.10	270.1	3977.82	41.08	-3362.73	0.00	3362.81	1844638.27	11886900.88	-668.22
7100.00	92.10	270.1	3975.99	41.20	-3412.70	0.00	3412.78	1844588.31	11886901.00	-666.39
7150.00	92.10	270.1	3974.15	41.31	-3462.66	0.00	3462.75	1844538.34	11886901.11	-664.55
7200.00	92.10	270.1	3972.32	41.42	-3512.63	0.00	3512.71	1844488.37	11886901.22	-662.72
7250.00	92.10	270.1	3970.49	41.54	-3562.59	0.00	3562.68	1844438.41	11886901.34	-660.89
7300.00	92.10	270.1	3968.66	41.65	-3612.56	0.00	3612.65	1844388.44	11886901.45	-659.06
7350.00	92.10	270.1	3966.82	41.76	-3662.53	0.00	3662.61	1844338.47	11886901.56	-657.22
7400.00	92.10	270.1	3964.99	41.88	-3712.49	0.00	3712.58	1844288.51	11886901.68	-655.39
7450.00	92.10	270.1	3963.16	41.99	-3762.46	0.00	3762.54	1844238.54	11886901.79	-653.56
7500.00	92.10	270.1	3961.33	42.10	-3812.43	0.00	3812.51	1844188.57	11886901.90	-651.73
7550.00	92.10	270.1	3959.50	42.22	-3862.39	0.00	3862.48	1844138.61	11886902.02	-649.90
7600.00	92.10	270.1	3957.66	42.33	-3912.36	0.00	3912.44	1844088.64	11886902.13	-648.06
7650.00	92.10	270.1	3955.83	42.44	-3962.32	0.00	3962.41	1844038.68	11886902.24	-646.23
7700.00	92.10	270.1	3954.00	42.56	-4012.29	0.00	4012.38	1843988.71	11886902.36	-644.40
7750.00	92.10	270.1	3952.17	42.67	-4062.26	0.00	4062.34	1843938.74	11886902.47	-642.57
7800.00	92.10	270.1	3950.34	42.78	-4112.22	0.00	4112.31	1843888.78	11886902.58	-640.74
7850.00	92.10	270.1	3948.50	42.90	-4162.19	0.00	4162.28	1843838.81	11886902.70	-638.90
7900.00	92.10	270.1	3946.67	43.01	-4212.16	0.00	4212.24	1843788.84	11886902.81	-637.07
7950.00	92.10	270.1	3944.84	43.12	-4262.12	0.00	4262.21	1843738.88	11886902.92	-635.24
8000.00	92.10	270.1	3943.01	43.24	-4312.09	0.00	4312.18	1843688.91	11886903.04	-633.41
8050.00	92.10	270.1	3941.17	43.35	-4362.05	0.00	4362.14	1843638.95	11886903.15	-631.57
8100.00	92.10	270.1	3939.34	43.46	-4412.02	0.00	4412.11	1843588.98	11886903.26	-629.74
8150.00	92.10	270.1	3937.51	43.58	-4461.99	0.00	4462.07	1843539.01	11886903.38	-627.91
8200.00	92.10	270.1	3935.68	43.69	-4511.95	0.00	4512.04	1843489.05	11886903.49	-626.08
8250.00	92.10	270.1	3933.85	43.80	-4561.92	0.00	4562.01	1843439.08	11886903.60	-624.25

Leavitt 13 8H, Plan 1

Operator	Redwood Operating LLC	**Units**	feet, °/100ft	11:02 Wednesday, January 12, 2022	Page 4 of 4
Field	Red Lake	**County**	Eddy	**Vertical Section Azimuth**	270.13
Well Name	Leavitt 13 8H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 1945 FSL & 530 FWL Section 18-T18S-R27E BHL: 1980 FSL & 1 FWL Section 13-T18S-R27E	**Map Zone**	UTM	**Lat Long Ref**	
Site		**Surface X**	1848001	**Surface Long**	
Slot Name	**UWI**	**Surface Y**	11886859.8	**Surface Lat**	
Well Number	8H **API**	**Surface Z**	3309.6	**Global Z Ref**	KB
Project	**MD/TVD Ref** KB	**Ground Level**	3291.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD* ft	INC* deg	AZI* deg	TVD* ft	N* ft	E* ft	DLS* °/100ft	V. S.* ft	MapE* ft	MapN* ft	SysTVD* ft
8300.00	92.10	270.1	3932.01	43.92	-4611.89	0.00	4611.97	1843389.11	11886903.72	-622.41
8350.00	92.10	270.1	3930.18	44.03	-4661.85	0.00	4661.94	1843339.15	11886903.83	-620.58
8400.00	92.10	270.1	3928.35	44.14	-4711.82	0.00	4711.91	1843289.18	11886903.94	-618.75
8450.00	92.10	270.1	3926.52	44.26	-4761.78	0.00	4761.87	1843239.22	11886904.06	-616.92
8500.00	92.10	270.1	3924.68	44.37	-4811.75	0.00	4811.84	1843189.25	11886904.17	-615.08
8550.00	92.10	270.1	3922.85	44.48	-4861.72	0.00	4861.81	1843139.28	11886904.28	-613.25
8600.00	92.10	270.1	3921.02	44.60	-4911.68	0.00	4911.77	1843089.32	11886904.40	-611.42
8650.00	92.10	270.1	3919.19	44.71	-4961.65	0.00	4961.74	1843039.35	11886904.51	-609.59
8700.00	92.10	270.1	3917.36	44.82	-5011.62	0.00	5011.71	1842989.38	11886904.62	-607.76
8750.00	92.10	270.1	3915.52	44.94	-5061.58	0.00	5061.67	1842939.42	11886904.74	-605.92
8800.00	92.10	270.1	3913.69	45.05	-5111.55	0.00	5111.64	1842889.45	11886904.85	-604.09
8850.00	92.10	270.1	3911.86	45.16	-5161.52	0.00	5161.60	1842839.48	11886904.96	-602.26
8900.00	92.10	270.1	3910.03	45.28	-5211.48	0.00	5211.57	1842789.52	11886905.08	-600.43
8950.00	92.10	270.1	3908.19	45.39	-5261.45	0.00	5261.54	1842739.55	11886905.19	-598.59
9000.00	92.10	270.1	3906.36	45.50	-5311.41	0.00	5311.50	1842689.59	11886905.30	-596.76
9050.00	92.10	270.1	3904.53	45.62	-5361.38	0.00	5361.47	1842639.62	11886905.42	-594.93
9100.00	92.10	270.1	3902.70	45.73	-5411.35	0.00	5411.44	1842589.65	11886905.53	-593.10
9150.00	92.10	270.1	3900.87	45.84	-5461.31	0.00	5461.40	1842539.69	11886905.64	-591.27
9200.00	92.10	270.1	3899.03	45.96	-5511.28	0.00	5511.37	1842489.72	11886905.76	-589.43
9250.00	92.10	270.1	3897.20	46.07	-5561.25	0.00	5561.34	1842439.75	11886905.87	-587.60
9300.00	92.10	270.1	3895.37	46.18	-5611.21	0.00	5611.30	1842389.79	11886905.98	-585.77
9350.00	92.10	270.1	3893.54	46.30	-5661.18	0.00	5661.27	1842339.82	11886906.10	-583.94
9400.00	92.10	270.1	3891.71	46.41	-5711.14	0.00	5711.24	1842289.86	11886906.21	-582.11
9450.00	92.10	270.1	3889.87	46.52	-5761.11	0.00	5761.20	1842239.89	11886906.32	-580.27
*** TD (at MD = 9472.47)										
9472.47	92.10	270.1	3889.05	46.58	-5783.57	0.00	5783.66	1842217.43	11886906.38	-579.45

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

I. Operator: Redwood Operating LLC **OGRID:** 330211 **Date:** 1 / 18 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Leavitt 13 #8H		Lot 3 Sec. 18 T18S R27E	1945 FSL 530 FWL	100	100	1,000

IV. Central Delivery Point Name: DCP Midstream Linam Ranch Processing Plant/ Durango Midstream [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or 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	Initial Flow Back Date	First Production Date
Leavitt 13 #8H		6/1/2022	6/20/2022	7/20/2022	7/20/2022	7/20/2022

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 Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ 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 ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

☐ Attach Operator's plan to manage production in response to the increased line pressure.

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

Effective May 25, 2021

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:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

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:	Deana Weaver
Printed Name:	Deana Weaver
Title:	Regulatory Technician II
E-mail Address:	regulatory@redwoodoperating.com
Date:	1/18/2022
Phone:	575-748-1288

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

VI. Separation Equipment:

Redwood Operating LLC production facilities include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool of our completion project. Redwood Operating LLC will utilize flowback separation equipment and production separation equipment designed and built to industry specifications after the completion to optimize gas capture and send gas to sales or flare based on analytical composition. Redwood Operating LLC operates facilities that are typically multi-well facilities. Redwood Operating LLC will upgrade production separation equipment, if necessary prior to new wells being completed, if determined to be undersized or inadequate. This equipment is already on-site and tied into our sales gas lines prior to the new drill operations.

VII. Operational Practices:

1. Subsection (A) Venting and Flaring of Natural Gas. Redwood Operating LLC understands the requirements of NMAC 19.15.27.8 which outlines that the venting and flaring of natural gas during drilling, completion or production operations that constitutes waste as defined in 19.15.2 are prohibited.
2. Subsection (B) Venting and Flaring during drilling operations. This gas capture plan is for a well being drilled.
3. Subsection (C) Venting and flaring during completion or recompletion. Flow lines will be routed for flow back fluids into a completion or storage tank and if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
    - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
4. Subsection (D) Venting and flaring during production operations ○ At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
    - Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.
    - Redwood Operating LLC will not vent or flare except during the approved activities listed in NMAC 19.15.27.8 (D) 14.
5. Subsection (E) Performance standards. All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
    - If a flare is utilized during production operations it will have a continuous pilot and is located more than 100 feet from any known well or storage tanks.
    - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D

of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.

6. Subsection (F) Measurement or estimation of vented and flared natural gas
   - Measurement equipment is installed to measure the volume of natural gas flared from process piping.
   - When measurement is not practicable, estimation of vented and flared natural gas will be completed as noted in 19.15.27.8 (F) 5-6.

VIII. Best Management Practices:

1. Redwood Operating LLC has adequate storage and takeaway capacity for wells it chooses to complete as the flow lines at the sites are already in place and tied into a gathering system.
2. Redwood Operating LLC will flare rather than vent vessel blowdown gas when technically feasible during active and/or planned maintenance to equipment on-site.
3. Redwood Operating LLC combusts natural gas that would otherwise be vented or flared, when technically feasible.
4. Redwood Operating LLC will shut in wells in the event of a takeaway disruption, emergency situations, or other operations where venting or flaring may occur due to equipment failures.