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

District II

UL - Lot

Date:

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

Section

10

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 327195

		APPLICA	ATION	FOR PERMIT TO	O DRILL, RE	-ENTER, DEEPE	N, PLUGBACI	K, OR ADD	A ZO	NE		
1. Operator Name									2. OGF	RID Number		
Redwo	Redwood Operating LLC											
PO Bo	x 1370								3. API	Number		
Artesia, NM 88210 30-015-50079											9	
4. Property Code			5. Prop	erty Name					6. Well	No.		
33344	.8			Cedar Fee					004H			
					7. Sur	face Location						
UL - Lot	Section	Township		Range	Lot Idn	Feet From	N/S Line	Feet From		E/W Line	County	
Р	P 9 18S 26E 220 S 42											Eddy
					8 Proposed I	Bottom Hole Locatio	n .					

Feet From

330

N/S Line

S

Test Pressure

3000

Conditions of Approval Attached

Feet From

E/W Line

County

Manufacturer

Eddy

Lot Idn

3. FOOI III OTHIALION	
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	3350
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	8602	Yeso		12/1/2022
Depth to Ground water		Distance from nearest fresh wate	r well	Distance to nearest surface water

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

Туре

Double Ram

10/14/2022

Township

18S

Range

26E

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	3475	270	0
Prod	8.75	5.5	17	8602	1480	0

Casing/Cement Program: Additional Comments

Drill 12 1/4" hole run 9 5/8" 36# J-55 to 1230, cmt w/ 450sx Class C to surface. Drill 8 3/4" hole run 7" 26# L-80 0-2375', run 7" 26 L-80 2375-3475', 5 1/2" 17# L-80 3475-8602, cmt 1750sx 35/65 & PVL to surface

22. Proposed Blowout Prevention Program

Working Pressure

3000

Phone: 575-748-1288

knowledge and	l have complied with 19.15.14.9 (A) NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION
Printed Name:	Electronically filed by Jerry Sherrell	Approved By:	Katherine Pickford	
Title:	Regulatory Supervisor	Title:	Geoscientist	
Email Address:	jerrys@mec.com	Approved Date:	10/19/2022	Expiration Date: 10/19/2024

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

12 Dedicated Acres

200

13 Joint or Infill

¹⁴ Consolidation Code

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

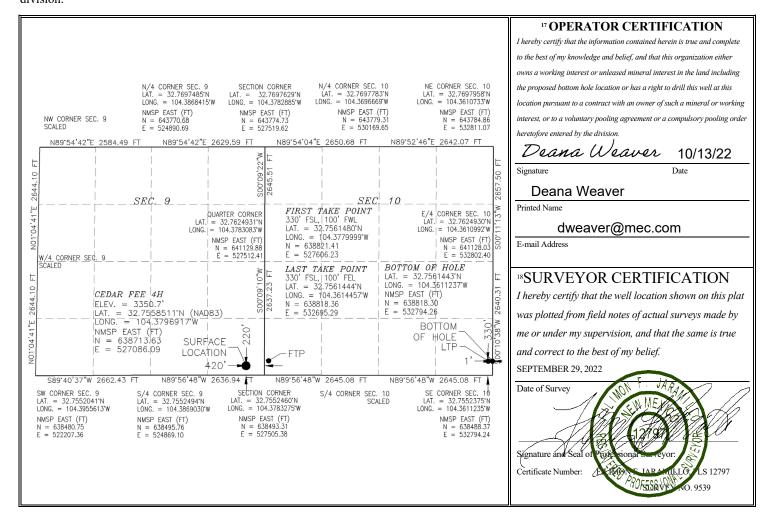
¹ API Numbe		² Pool Code	³ Pool Name	
30-015-5007	79	51120		
⁴ Property Code		⁵ P ₁	⁶ Well Number	
333448		CE	DAR FEE	4H
⁷ OGRID No.		8 O _l	perator Name	⁹ Elevation
330211		REDWOOD	OPERATING, LLC	3350.7

¹⁰ Surface Location

15 Order No.

UL or lot no.	Section	Township	Range	ge Lot Idn Feet from the North/South line		North/South line	Feet from the	East/West line	County	
P	9	18 S	26 E		220 SOUTH 4		420	EAST	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	
P	10	18 S	26 E		330	330 SOUTH		EAST	EDDY	

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.



Intent	XX	As Dril	led											
API#														
-	rator Nar DWOOD	ne: OPERA	ATING, I	LC		Proper CEDA			;					Well Number 4H
Kick C	Off Point ((KOP)												
UL	Section	Township	Range	Lot	Feet	Fr	om N	I/S	Feet		From	ı E/W	County	
Latitu	de				Longitu	ıde			I				NAD	
Firct T	ake Poin	+ /FTD)												
UL M	Section 10	Township 18S	Range 26E	Lot	Feet 330		om N		Feet 100		From WES	i E/W	County	
Latitu			20L		Longitu				100		VV L	<u> </u>	NAD 83	
UL	Section	Township	Range	Lot	Feet	From N		Feet		From E		Count		
P Latitu	10 de 756144	18S 4	26E		104 :	SOUT SOUT SOUT SOUT SOUT SOUT SOUT SOUT		100		EAST		NAD 83	Y	
		defining v	vell for th	e Hori]				
ls this	well an i	nfill well?												
	l is yes pl ng Unit.	ease provi	ide API if	availal	ole, Ope	rator Na	me a	and v	vell n	umber	for [Definir	ng well fo	or Horizontal
API#														
Ope	rator Nar	ne:				Proper	ty N	ame:	;					Well Number
														K7 06/29/201

KZ 06/29/2018

Form APD Conditions

Permit 327195

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

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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**

PERMIT CONDITIONS OF APPROVAL

Operator N	ame and Address:	API Number:
	Redwood Operating LLC [330211]	30-015-50079
	PO Box 1370	Well:
	Artesia, NM 88210	Cedar Fee #004H
OCD	Condition	
Reviewer		
kpickford	Notify OCD 24 hours prior to casing & cement	
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud	

kpickford 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

kpickford 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,

water zone or zones and shall immediately set in cement the water protection string kpickford Cement is required to circulate on both surface and intermediate1 strings of casing

drilling fluids and solids must be contained in a steel closed loop system

Operator Redwood Operating LLC Units feet, °/100ft 15:09 Thursday, October 13, 2022 Page 1 of 4 Field Red Lake County Eddy Vertical Section Azimuth 90.03 Survey Calculation Method Minimum Curvature Well Name Cedar Fee 4H State New Mexico Plan 1 **Country** USA **Database** Access

Location SI: 220 FSL & 420 FEL Section 9-T18S-R26E BHL:

330 FSL & 1 FEL Section 10-T18S-R26E

Site

Project

Slot Name Well Number 4 UWI API MD/TVD Ref KB Ground Level 3350.7

Surface X 1831211.9 **Surface Y** 11890374.2 **Surface Z** 3368.8

Map Zone UTM

Surface Long Surface Lat Global Z Ref KB Local North Ref Grid

Lat Long Ref

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	sysTVD*
*** TIE (at MD	0 = 2373.00	doa	**	**	**	°/1∩∩ft	**	**	**	**
2373.00	0.00	0.0	2373.00	0.00	0.00		0.00	1831211.90	11890374.20	995.80
2400.00	0.00	0.0	2400.00	0.00	0.00	0.00	0.00	1831211.90	11890374.20	968.80
2450.00	0.00	0.0	2450.00	0.00	0.00	0.00	0.00	1831211.90	11890374.20	918.80
*** KOP 8 DEC	GREES (at I	MD = 2473	.00)							
2473.00	0.00	0.0	2473.00	0.00	0.00	0.00	0.00	1831211.90	11890374.20	895.80
2500.00	2.16	80.5	2499.99	0.08	0.50	8.00	0.50	1831212.40	11890374.28	868.81
2550.00	6.16	80.5	2549.85	0.69	4.08	8.00	4.08	1831215.98	11890374.89	818.95
2600.00	10.16	80.5	2599.34	1.86	11.08	8.00	11.07	1831222.98	11890376.06	769.46
2650.00	14.16	80.5	2648.20	3.61	21.46	8.00	21.46	1831233.36	11890377.81	720.60
2700.00	18.16	80.5	2696.22	5.92	35.18	8.00	35.18	1831247.08	11890380.12	672.58
2750.00	22.16	80.5	2743.15	8.78	52.17	8.00	52.16	1831264.07	11890382.98	625.65
2800.00	26.16	80.5	2788.76	12.17	72.35	8.00	72.34	1831284.25	11890386.37	580.04
2850.00	30.16	80.5	2832.83	16.09	95.61	8.00	95.60	1831307.51	11890390.29	535.97
2900.00	34.16	80.5	2875.15	20.50	121.85	8.00	121.84	1831333.75	11890394.70	493.65
2950.00	38.16	80.5	2915.51	25.39	150.94	8.00	150.93	1831362.84	11890399.59	453.29
3000.00	42.16	80.5	2953.71	30.74	182.73	8.00	182.72	1831394.63	11890404.94	415.09
3050.00	46.16	80.5	2989.58	36.52	217.07	8.00	217.06	1831428.97	11890410.72	379.22
3100.00	50.16	80.5	3022.92	42.70	253.80	8.00	253.78	1831465.70	11890416.90	345.88
3150.00	54.16	80.5	3053.59	49.25	292.73	8.00	292.71	1831504.63	11890423.45	315.21
*** 55 DEGRE	E TANGEN	Γ (at MD =								
3160.50	55.00	80.5	3059.67	50.67	301.17	8.00	301.14	1831513.07	11890424.87	309.13
3200.00	55.00	80.5	3082.33	56.04	333.08	0.00	333.05	1831544.98	11890430.24	286.47
3250.00	55.00	80.5	3111.01	62.83	373.47	0.00	373.44	1831585.37	11890437.03	257.79
3300.00	55.00	80.5	3139.69	69.63	413.86	0.00	413.82	1831625.76	11890443.83	229.11
3350.00	55.00	80.5	3168.37	76.42	454.25	0.00	454.21	1831666.15	11890450.62	200.43
3400.00	55.00	80.5	3197.05	83.22	494.64	0.00	494.60	1831706.54	11890457.42	171.75
*** 10 DEGRE	E BUILD (a	t MD = 341	10.50)							
3410.50	55.00	80.5	3203.07	84.65	503.12	0.00	503.08	1831715.02	11890458.85	165.73
3450.00	58.79	81.8	3224.64	89.75	535.81	10.00	535.76	1831747.71	11890463.95	144.16
3500.00	63.61	83.3	3248.72	95.44	579.24	10.00	579.19	1831791.14	11890469.64	120.08
3550.00	68.45	84.7	3269.02	100.22	624.66	10.00	624.61	1831836.56	11890474.42	99.78
3600.00	73.29	86.0	3285.41	104.05	671.73	10.00	671.67	1831883.63	11890478.25	83.39
3650.00	78.15	87.2	3297.74	106.91	720.08	10.00	720.03	1831931.98	11890481.11	71.06
3700.00	83.00	88.4	3305.92	108.77	769.36	10.00	769.30	1831981.26	11890482.97	62.88
3750.00	87.87	89.6	3309.90	109.63	819.17	10.00	819.12	1832031.07	11890483.83	58.90
*** LANDING F	POINT (at N	MD = 3768.								
3768.35	89.65	90.0	3310.30	109.69	837.52	10.00	837.46	1832049.42	11890483.89	58.50
3800.00	89.65	90.0	3310.49	109.67	869.17	0.00	869.11	1832081.07	11890483.87	58.31
Page 1 of 4										nakinhole.com

OperatorRedwood Operating LLCUnitsfeet, °/100ft15:09 Thursday, October 13, 2022 Page 2 of 4FieldRed LakeCountyEddyVertical Section Azimuth90.03Well NameCedar Fee 4HStateNew MexicoSurvey Calculation MethodMinimum CurvaturePlan1CountryUSADatabaseAccess

Location SI: 220 FSL & 420 FEL Section 9-T18S-R26E BHL:

330 FSL & 1 FEL Section 10-T18S-R26E

Site

Slot Name UWI Well Number 4 API

Project MD/TVD Ref KB

Map Zone UTM

Surface X 1831211.9 **Surface Y** 11890374.2

Surface Z 3368.8

Ground Level 3350.7

Lat Long Ref

Surface Long
Surface Lat
Global Z Ref KB

Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	SysTVD*
3850.00	89.65	90.0	3310.80	109.64	919.17	0.00	919.11	1832131.07	11890483.84	58.00
3900.00	89.65	90.0	3311.10	109.62	969.17	0.00	969.11	1832181.07	11890483.82	57.70
3950.00	89.65	90.0	3311.41	109.59	1019.17	0.00	1019.11	1832231.07	11890483.79	57.39
4000.00	89.65	90.0	3311.71	109.57	1069.17	0.00	1069.11	1832281.07	11890483.77	57.09
4050.00	89.65	90.0	3312.02	109.54	1119.16	0.00	1119.11	1832331.06	11890483.74	56.78
4100.00	89.65	90.0	3312.32	109.51	1169.16	0.00	1169.11	1832381.06	11890483.71	56.48
4150.00	89.65	90.0	3312.63	109.49	1219.16	0.00	1219.10	1832431.06	11890483.69	56.17
4200.00	89.65	90.0	3312.93	109.46	1269.16	0.00	1269.10	1832481.06	11890483.66	55.87
4250.00	89.65	90.0	3313.24	109.44	1319.16	0.00	1319.10	1832531.06	11890483.64	55.56
4300.00	89.65	90.0	3313.54	109.41	1369.16	0.00	1369.10	1832581.06	11890483.61	55.26
4350.00	89.65	90.0	3313.85	109.38	1419.16	0.00	1419.10	1832631.06	11890483.58	54.95
4400.00	89.65	90.0	3314.16	109.36	1469.16	0.00	1469.10	1832681.06	11890483.56	54.64
4450.00	89.65	90.0	3314.46	109.33	1519.16	0.00	1519.10	1832731.06	11890483.53	54.34
4500.00	89.65	90.0	3314.77	109.30	1569.16	0.00	1569.10	1832781.06	11890483.50	54.03
4550.00	89.65	90.0	3315.07	109.28	1619.15	0.00	1619.10	1832831.05	11890483.48	53.73
4600.00	89.65	90.0	3315.38	109.25	1669.15	0.00	1669.10	1832881.05	11890483.45	53.42
4650.00	89.65	90.0	3315.68	109.23	1719.15	0.00	1719.10	1832931.05	11890483.43	53.12
4700.00	89.65	90.0	3315.99	109.20	1769.15	0.00	1769.09	1832981.05	11890483.40	52.81
4750.00	89.65	90.0	3316.29	109.17	1819.15	0.00	1819.09	1833031.05	11890483.37	52.51
4800.00	89.65	90.0	3316.60	109.15	1869.15	0.00	1869.09	1833081.05	11890483.35	52.20
4850.00	89.65	90.0	3316.90	109.12	1919.15	0.00	1919.09	1833131.05	11890483.32	51.90
4900.00	89.65	90.0	3317.21	109.09	1969.15	0.00	1969.09	1833181.05	11890483.29	51.59
4950.00	89.65	90.0	3317.52	109.07	2019.15	0.00	2019.09	1833231.05	11890483.27	51.28
5000.00	89.65	90.0	3317.82	109.04	2069.15	0.00	2069.09	1833281.05	11890483.24	50.98
5050.00	89.65	90.0	3318.13	109.02	2119.15	0.00	2119.09	1833331.05	11890483.22	50.67
5100.00	89.65	90.0	3318.43	108.99	2169.14	0.00	2169.09	1833381.04	11890483.19	50.37
5150.00	89.65	90.0	3318.74	108.96	2219.14	0.00	2219.09	1833431.04	11890483.16	50.06
5200.00	89.65	90.0	3319.04	108.94	2269.14	0.00	2269.09	1833481.04	11890483.14	49.76
5250.00	89.65	90.0	3319.35	108.91	2319.14	0.00	2319.08	1833531.04	11890483.11	49.45
5300.00	89.65	90.0	3319.65	108.89	2369.14	0.00	2369.08	1833581.04	11890483.09	49.15
5350.00	89.65	90.0	3319.96	108.86	2419.14	0.00	2419.08	1833631.04	11890483.06	48.84
5400.00	89.65	90.0	3320.26	108.83	2469.14	0.00	2469.08	1833681.04	11890483.03	48.54
5450.00	89.65	90.0	3320.57	108.81	2519.14	0.00	2519.08	1833731.04	11890483.01	48.23
5500.00	89.65	90.0	3320.88	108.78	2569.14	0.00	2569.08	1833781.04	11890482.98	47.92
5523.35	89.65	90.0	3321.02	108.77	2592.49	0.00	2592.43	1833804.39	11890482.97	47.78
5530.10	89.11	90.0	3321.09	108.76	2599.24	8.00	2599.18	1833811.14	11890482.96	47.71
5550.00 Page 2 of 4	89.11	90.0	3321.40	108.75	2619.13 SES v5	0.00	2619.08	1833831.03	11890482.95	47.40

Operator Redwood Operating LLC Units feet, °/100ft 15:09 Thursday, October 13, 2022 Page 3 of 4 Field Red Lake County Eddy Vertical Section Azimuth 90.03 Well Name Cedar Fee 4H State New Mexico Survey Calculation Method Minimum Curvature Plan 1 **Country** USA **Database** Access Lat Long Ref

Location SI: 220 FSL & 420 FEL Section 9-T18S-R26E BHL:

330 FSL & 1 FEL Section 10-T18S-R26E

Site

Slot Name Well Number 4 **Project**

UWI **API**

MD/TVD Ref KB

Map Zone UTM

Ground Level 3350.7

Surface X 1831211.9 **Surface Y** 11890374.2 **Surface Z** 3368.8

Surface Lat Global Z Ref KB Local North Ref Grid

Surface Long

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	-	SysTVD*
5600.00	89.11	90.0	3322.18	108.73	2669.13	0.00	2669.07	1833881.03	11890482.93	46.62
5650.00	89.11	90.0	3322.95	108.70	2719.12	0.00	2719.06	1833931.02	11890482.90	45.85
5700.00	89.11	90.0	3323.73	108.68	2769.12	0.00	2769.06	1833981.02	11890482.88	45.07
5750.00	89.11	90.0	3324.51	108.65	2819.11	0.00	2819.05	1834031.01	11890482.85	44.29
5800.00	89.11	90.0	3325.28	108.62	2869.10	0.00	2869.05	1834081.00	11890482.82	43.52
5850.00	89.11	90.0	3326.06	108.60	2919.10	0.00	2919.04	1834131.00	11890482.80	42.74
5900.00	89.11	90.0	3326.84	108.57	2969.09	0.00	2969.03	1834180.99	11890482.77	41.96
5950.00	89.11	90.0	3327.61	108.55	3019.09	0.00	3019.03	1834230.99	11890482.75	41.19
6000.00	89.11	90.0	3328.39	108.52	3069.08	0.00	3069.02	1834280.98	11890482.72	40.41
0000.00	03.11	30.0	0020.00	100.52	3003.00	0.00	3003.02	1004200.90	11030402.72	
6050.00	89.11	90.0	3329.17	108.49	3119.07	0.00	3119.02	1834330.97	11890482.69	39.63
6100.00	89.11	90.0	3329.94	108.47	3169.07	0.00	3169.01	1834380.97	11890482.67	38.86
6150.00	89.11	90.0	3330.72	108.44	3219.06	0.00	3219.00	1834430.96	11890482.64	38.08
6200.00	89.11	90.0	3331.50	108.41	3269.06	0.00	3269.00	1834480.96	11890482.61	37.30
6250.00	89.11	90.0	3332.27	108.39	3319.05	0.00	3318.99	1834530.95	11890482.59	36.53
6300.00	89.11	90.0	3333.05	108.36	3369.04	0.00	3368.99	1834580.94	11890482.56	35.75
6350.00	89.11	90.0	3333.83	108.34	3419.04	0.00	3418.98	1834630.94	11890482.54	34.97
6400.00	89.11	90.0	3334.60	108.31	3469.03	0.00	3468.97	1834680.93	11890482.51	34.20
6450.00	89.11	90.0	3335.38	108.28	3519.03	0.00	3518.97	1834730.93	11890482.48	33.42
6500.00	89.11	90.0	3336.16	108.26	3569.02	0.00	3568.96	1834780.92	11890482.46	32.64
6550.00	89.11	90.0	3336.93	108.23	3619.01	0.00	3618.96	1834830.91	11890482.43	31.87
6600.00	89.11	90.0	3337.71	108.23	3669.01	0.00	3668.95	1834880.91	11890482.40	31.09
6650.00	89.11	90.0	3338.49	108.20	3719.00	0.00	3718.94	1834930.90	11890482.38	30.31
6700.00	89.11	90.0	3339.26	108.16	3719.00	0.00	37 16.9 4 3768.94	1834980.89	11890482.35	29.54
6750.00	89.11	90.0	3340.04	108.13	3818.99	0.00	3766.9 4 3818.93	1835030.89	11890482.33	29.54
0730.00	09.11	90.0	3340.04	100.13	3010.99	0.00	3010.93	1633030.69	11090402.33	20.70
6800.00	89.11	90.0	3340.82	108.10	3868.98	0.00	3868.93	1835080.88	11890482.30	27.98
6850.00	89.11	90.0	3341.59	108.07	3918.98	0.00	3918.92	1835130.88	11890482.27	27.21
6900.00	89.11	90.0	3342.37	108.05	3968.97	0.00	3968.91	1835180.87	11890482.25	26.43
6950.00	89.11	90.0	3343.15	108.02	4018.96	0.00	4018.91	1835230.86	11890482.22	25.65
7000.00	89.11	90.0	3343.92	108.00	4068.96	0.00	4068.90	1835280.86	11890482.20	24.88
7050.00	89.11	90.0	3344.70	107.97	4118.95	0.00	4118.90	1835330.85	11890482.17	24.10
7100.00	89.11	90.0	3345.48	107.94	4168.95	0.00	4168.89	1835380.85	11890482.14	23.32
7150.00	89.11	90.0	3346.25	107.92	4218.94	0.00	4218.88	1835430.84	11890482.12	22.55
7200.00	89.11	90.0	3347.03	107.89	4268.93	0.00	4268.88	1835480.83	11890482.09	21.77
7250.00	89.11	90.0	3347.81	107.86	4318.93	0.00	4318.87	1835530.83	11890482.06	20.99
7300.00	89.11	90.0	3348.58	107.84	4368.92	0.00	4368.87	1835580.82	11890482.04	20.22
7350.00	89.11	90.0	3349.36	107.81	4418.92	0.00	4418.86	1835630.82	11890482.01	19.44
7400.00	89.11	90.0	3350.14	107.79	4468.91	0.00	4468.85	1835680.81	11890481.99	18.66
7 130.00	00.11	50.0	0000.14	101.10	1 100.01	0.00	1 100.00	1000000.01	. 1000-01.00	10.00

OperatorRedwood Operating LLCUnitsfeet, °/100ft15:09 Thursday, October 13, 2022 Page 4 of 4FieldRed LakeCountyEddyVertical Section Azimuth90.03Well NameCedar Fee 4HStateNew MexicoSurvey Calculation MethodMinimum CurvaturePlan1CountryUSADatabaseAccess

Location SI: 220 FSL & 420 FEL Section 9-T18S-R26E BHL:

330 FSL & 1 FEL Section 10-T18S-R26E

Site

Slot Name UWI Well Number 4 API

Project MD/TVD Ref KB

Map Zone UTM

Surface X 1831211.9 **Surface Y** 11890374.2

Surface Z 3368.8 Ground Level 3350.7 Lat Long Ref

Surface Long
Surface Lat
Global Z Ref KB

Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	•
7450.00	89.11	90.0	3350.91	107.76	4518.90	0.00	4518.85	1835730.80	11890481.96	17.89
7500.00	89.11	90.0	3351.69	107.73	4568.90	0.00	4568.84	1835780.80	11890481.93	17.11
7550.00	89.11	90.0	3352.47	107.71	4618.89	0.00	4618.84	1835830.79	11890481.91	16.33
7600.00	89.11	90.0	3353.24	107.68	4668.89	0.00	4668.83	1835880.79	11890481.88	15.56
7650.00	89.11	90.0	3354.02	107.66	4718.88	0.00	4718.82	1835930.78	11890481.86	14.78
7700.00	89.11	90.0	3354.80	107.63	4768.87	0.00	4768.82	1835980.77	11890481.83	14.00
7750.00	89.11	90.0	3355.57	107.60	4818.87	0.00	4818.81	1836030.77	11890481.80	13.23
7800.00	89.11	90.0	3356.35	107.58	4868.86	0.00	4868.81	1836080.76	11890481.78	12.45
7850.00	89.11	90.0	3357.13	107.55	4918.86	0.00	4918.80	1836130.76	11890481.75	11.67
7900.00	89.11	90.0	3357.90	107.52	4968.85	0.00	4968.79	1836180.75	11890481.72	10.90
7950.00	89.11	90.0	3358.68	107.50	5018.84	0.00	5018.79	1836230.74	11890481.70	10.12
8000.00	89.11	90.0	3359.46	107.47	5068.84	0.00	5068.78	1836280.74	11890481.67	9.34
8050.00	89.11	90.0	3360.23	107.45	5118.83	0.00	5118.77	1836330.73	11890481.65	8.57
8100.00	89.11	90.0	3361.01	107.42	5168.83	0.00	5168.77	1836380.73	11890481.62	7.79
8150.00	89.11	90.0	3361.79	107.39	5218.82	0.00	5218.76	1836430.72	11890481.59	7.01
8200.00	89.11	90.0	3362.56	107.37	5268.81	0.00	5268.76	1836480.71	11890481.57	6.24
8250.00	89.11	90.0	3363.34	107.34	5318.81	0.00	5318.75	1836530.71	11890481.54	5.46
0200.00		00.0				0.00	00.00			00
8300.00	89.11	90.0	3364.12	107.31	5368.80	0.00	5368.74	1836580.70	11890481.51	4.68
8350.00	89.11	90.0	3364.89	107.29	5418.80	0.00	5418.74	1836630.70	11890481.49	3.91
8400.00	89.11	90.0	3365.67	107.26	5468.79	0.00	5468.73	1836680.69	11890481.46	3.13
8450.00	89.11	90.0	3366.45	107.24	5518.78	0.00	5518.73	1836730.68	11890481.44	2.35
8500.00	89.11	90.0	3367.22	107.21	5568.78	0.00	5568.72	1836780.68	11890481.41	1.58
8550.00	89.11	90.0	3368.00	107.18	5618.77	0.00	5618.71	1836830.67	11890481.38	0.80
8600.00	89.11	90.0	3368.78	107.16	5668.77	0.00	5668.71	1836880.67	11890481.36	0.03
*** TD (at MD	,									
8601.10	89.11	90.0	3368.79	107.16	5669.87	0.00	5669.81	1836881.77	11890481.36	0.01

Page 4 of 4 SES v5.79 www.makinhole.c

Intent	t XX	As Dril	led											
API#														
Operator Name: REDWOOD OPERATING, LLC					Prope								Well Number 4H	
														<u> </u>
	Off Point	T		1	Ī	,							T	
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		From	n E/W	County	
Latitu	ide				Longitu	ude				- 1			NAD	
	Take Poin			ī										
UL M	Section 10	Township 18S	Range 26E	Lot	Feet 330		From N		Feet 100		From WES	n E/W ST	County EDDY	
132.7	r _{ide} 756148	0			Longitu 104.3	ude 37799	999						NAD 83	
UL	Section	Township	Range	Lot	Feet	From		Feet		From I		Count		
P Latitu	10 ^{Ide} 756144	18S 4	26E		Longitu	SOUTH 100 EAST EDDY tude NAD 83					Y			
Is this	well the	defining v	vell for th	e Hori:	zontal S _l	pacing	Unit?]				
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	l is yes pl ng Unit.	lease provi	de API if	availak	ole, Ope	rator N	ame a	and v	vell n	umber	for [Definir	ng well fo	r Horizontal
API#														
Ope	rator Nar	ne:				Prope	erty N	ame:						Well Number
														V7.00/20/2019

KZ 06/29/2018

I. Operator: Redwood Operating LLC

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 10 / 13 / 2022

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

OGRID:

330211

l Amendmen	t due to □ 19.15.27.	9.D(6)(a) NMA	□ 19.15.27.9.D((6)(b) NMAC	□ Other.	
:						
				wells propose	ed to be dri	lled or proposed to
API	ULSTR	Footages	Anticipated Oil BBL/D			Anticipated roduced Water BBL/D
	Unit P Sec. 9 T18S R26E	220 FSL 420 FEL	100	100	1,0	000
		TD Reached	al delivery point. Completion	Init	tial Flow	First Production
		Date	Commencement	Date Ba	ick Date	Date
	12/1/2022	12/20/2022	1/20/2023	1/20	0/2023	1/20/2023
ices: ⋈ Atta of 19.15.27.8 t Practices:	ch a complete descr S NMAC.	iption of the act	ions Operator wil	l take to con	nply with t	he requirements of
	following ir ngle well pad API Sint Name: _ e: Provide the ted from a sin API ent: XAttaclices: X Attaclices: X	following information for each ringle well pad or connected to a complex well pad or connected to a complex well pad or constituted from a single	following information for each new or recomple ngle well pad or connected to a central delivery p API ULSTR Footages Unit P Sec. 9 T18S R26E 220 FSL 420 FEL Sint Name: DCP Midstream Linam Ranch Processing e: Provide the following information for each new ted from a single well pad or connected to a central delivery p API Spud Date TD Reached Date 12/1/2022 12/20/2022 ent: XAttach a complete description of how Openices: Attach a complete description of the act of 19.15.27.8 NMAC.	following information for each new or recompleted well or set of ringle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Unit P Sec. 9 T18S R26E 220 FSL 420 FEL 100 wint Name: DCP Midstream Linam Ranch Processing Plant/ Durango Midstream ted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Date Commencement 12/1/2022 12/20/2022 1/20/2023 ent: XAttach a complete description of how Operator will size septices: X Attach a complete description of the actions Operator will of 19.15.27.8 NMAC. t Practices: X Attach a complete description of Operator's best in	following information for each new or recompleted well or set of wells propose ngle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Gas MCF. Unit P Sec. 9 T18S R26E 220 FSL 420 FEL 100 100 Sint Name: DCP Midstream Linam Ranch Processing Plant/ Durango Midstream [Sec. Provide the following information for each new or recompleted well or set of steed from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Ini Date Commencement Date Bate 12/1/2022 12/20/2022 1/20/2023 1/20 ent: ★Attach a complete description of how Operator will size separation equipations: ★Attach a complete description of the actions Operator will take to conformations: ★Attach a complete description of Operator's best management of the Practices: ★Attach a complete description of Operator's best management of the Practices: ★Attach a complete description of Operator's best management of the Practices: ★Attach a complete description of Operator's best management of the Practices: ★Attach a complete description of Operator's best management of the Practices: ★Attach a complete description of Operator's best management of the Practices in the Practices is ★Attach a complete description of Operator's best management of the Practices is ★Attach a complete description of Operator's best management in the Practices is ★Attach a complete description of Operator's best management in the Practices is ★Attach a complete description of Operator's best management in the Practices is ★Attach a complete description of Operator's best management in the Practices is ★Attach a complete description of Operator's best management in the Practices is ★Attach a complete description of Operator's best management in the Practices is ★Attach a complete description of Operator's best management in the Practices is ★Attach a complete description of Operator's best management in the Practices is ★Attach a complete description of Operator's best management in the Practices is ★Att	following information for each new or recompleted well or set of wells proposed to be dringle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Gas MCF/D P Unit P Sec. 9 T18S R26E 220 FSL 420 FEL 100 100 1,0 Sint Name: DCP Midstream Linam Ranch Processing Plant/ Durango Midstream [See 19.15.2] E: Provide the following information for each new or recompleted well or set of wells proposed from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement Date Back Date 12/1/2022 12/20/2022 1/20/2023 1/20/2023 ent: Attach a complete description of how Operator will size separation equipment to opices: Attach a complete description of the actions Operator will take to comply with tof 19.15.27.8 NMAC. t 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 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 \square wi	ll □ will not have	capacity to gather	100% of the anticipated	l natural gas
production volume from the well	prior to the date of first prod	luction.			

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

	Attach (Inerator'	's nlan	to manage	production	in resnonse	to the incre-	ased line pressi	ıre
- 1	- A Hach C	merator	s man	то шапаче	production	i in response	no the incre	ased tine bressi	$\Gamma \subset$

XIV. C	onfidentiality: \square Operator ass	erts confidentiality purs	uant to Section	n 71-2-8 NMSA	1978 for the	information	provided in
Section	2 as provided in Paragraph (2) o	f Subsection D of 19.15.2	27.9 NMAC, a	nd attaches a full	description of	the specific	information
for which	ch confidentiality is asserted and	the basis for such asserti	ion.				

(i)

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: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

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

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

Signature: Deana Weaver
Printed Name: Deana Weaver
Title: Regulatory Technician II
E-mail Address: regulatory@redwoodoperating.com
Date: 10/13/2022
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:

- 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 o 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
 - O 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.