

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

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 291575

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

1. Operator Name and Address Redwood Operating LLC PO Box 1370 Artesia, NM 882111370		2. OGRID Number 330211
		3. API Number 30-015-47987
4. Property Code 329543	5. Property Name TERRY 14	6. Well No. 004H

7. Surface Location

UL - Lot E	Section 13	Township 18S	Range 26E	Lot Idn E	Feet From 1670	N/S Line N	Feet From 688	E/W Line W	County Eddy
---------------	---------------	-----------------	--------------	--------------	-------------------	---------------	------------------	---------------	----------------

8. Proposed Bottom Hole Location

UL - Lot E	Section 14	Township 18S	Range 26E	Lot Idn E	Feet From 1650	N/S Line N	Feet From 1	E/W Line W	County Eddy
---------------	---------------	-----------------	--------------	--------------	-------------------	---------------	----------------	---------------	----------------

9. Pool Information

RED LAKE;GLORIETA-YESO	51120
------------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3300
16. Multiple N	17. Proposed Depth 8256	18. Formation Blinbry	19. Contractor	20. Spud Date 3/6/2021
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	3200	375	0
Prod	8.75	5.5	17	8631	1530	0

Casing/Cement Program: Additional Comments

--

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: Kurt Simmons	
Title: Production Clerk	Title: Petroleum Specialist - A	
Email Address: jerrys@mec.com	Approved Date: 2/3/2021	Expiration Date: 2/3/2023
Date: 1/25/2021	Phone: 575-748-1288	Conditions of Approval 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
District III
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

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 51120	³ Pool Name Red Lake, Glorieta-Yeso
⁴ Property Code	⁵ Property Name TERRY 14	⁶ Well Number 4H
⁷ OGRID No. 330211	⁸ Operator Name REDWOOD OPERATING LLC	⁹ Elevation 3300.6

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
E	13	18 S	26 E		1670	NORTH	688	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
E	14	18 S	26 E		1650	NORTH	1	WEST	EDDY

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

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.

FIRST TAKE POINT 1866' FNL, 100' FEL LAT. = 32.7500287°N LONG. = 104.3442706°W NMSP EAST (FT) N = 636592.41 E = 537974.96		NW CORNER SEC. 13 LAT. = 32.7551551°N LONG. = 104.3439789°W NMSP EAST (FT) N = 638457.46 E = 538064.84		NE CORNER SEC. 13 LAT. = 32.7552947°N LONG. = 104.3264684°W NMSP EAST (FT) N = 638508.14 E = 543447.93	
NW CORNER SEC. 14 LAT. = 32.7552375°N LONG. = 104.3611235°W NMSP EAST (FT) N = 638488.37 E = 532794.24		NW CORNER SEC. 13 LAT. = 32.7551551°N LONG. = 104.3439789°W NMSP EAST (FT) N = 638457.46 E = 538064.84		NE CORNER SEC. 13 LAT. = 32.7552947°N LONG. = 104.3264684°W NMSP EAST (FT) N = 638508.14 E = 543447.93	
SW CORNER SEC. 14 LAT. = 32.7406192°N LONG. = 104.3610550°W NMSP EAST (FT) N = 633170.07 E = 532813.91		S/4 CORNER SEC. 14 LAT. = 32.7405771°N LONG. = 104.3525418°W NMSP EAST (FT) N = 633154.17 E = 535431.45		SW CORNER SEC. 13 LAT. = 32.7405846°N LONG. = 104.3438840°W NMSP EAST (FT) N = 633156.53 E = 538093.48	
SW CORNER SEC. 13 LAT. = 32.7405846°N LONG. = 104.3438840°W NMSP EAST (FT) N = 633156.53 E = 538093.48		S/4 CORNER SEC. 13 LAT. = 32.7405670°N LONG. = 104.3352760°W NMSP EAST (FT) N = 633149.95 E = 540740.20		SE CORNER SEC. 13 LAT. = 32.7405522°N LONG. = 104.3266766°W NMSP EAST (FT) N = 633144.63 E = 543384.24	

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE VERTICAL DATUM NAVD83.

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.

Signature: *Jerry W Sherrell* Date: 1/25/2021
Printed Name: Jerry W Sherrell
E-mail Address: jerry@emec.com

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 7, 2021

Date of Survey

Signature and Seal of Professional Surveyor: *William F. Jaramila*
Certificate Number: FID 10030 JAR 0000 PLS 12797
SURVEY NO. 8765

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

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

GAS CAPTURE PLAN

Date: 2/3/2021

☒ Original

Operator & OGRID No.: [330211] Redwood Operating LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
TERRY 14 #004H	30-015-47987	E-13-18S-26E	1670N 0688W	50	None	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to DCP OPERATING COMPANY, LP and will be connected to DCP OPERATING COMPANY, LP Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. Redwood Operating LLC provides (periodically) to DCP OPERATING COMPANY, LP a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Redwood Operating LLC and DCP OPERATING COMPANY, LP have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at DCP OPERATING COMPANY, LP Processing Plant located in Sec. 06 Twn. 19S Rng. 37E Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on DCP OPERATING COMPANY, LP system at that time. Based on current information, it is Redwood Operating LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

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 APD Comments

Permit 291575

PERMIT COMMENTS

Operator Name and Address: Redwood Operating LLC [330211] PO Box 1370 Artesia, NM 882111370		API Number: 30-015-47987
		Well: TERRY 14 #004H
Created By	Comment	Comment Date
ksimmons	01/26/2021 - Operator has 9 inactive wells as of this date.	1/26/2021

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

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 APD Conditions

Permit 291575

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Redwood Operating LLC [330211] PO Box 1370 Artesia, NM 882111370	API Number: 30-015-47987
	Well: TERRY 14 #004H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Will require a pit permit since closed loop will not be used
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite or salt in order to seal off protectable water
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 water zone or zones and shall immediately set in cement the water protection string
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, drilling fluids and solids must be contained in a steel closed loop system.
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104

Terry 14 4H, Plan 1

Operator Redwood Operating LLC	Units feet, °/100ft	10:46 Friday, January 22, 2021 Page 1 of 4
Field Red Lake	County Eddy	Vertical Section Azimuth 272.73
Well Name Terry 14 4H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location SL: 1670 FNL & 688 FWL Section 13-T18S-R26E BHL: 1650 FNL & 1 FWL Section 14-T18S-26E	Map Zone UTM	Lat Long Ref
Site	Surface X 1842888.3	Surface Long
Slot Name	Surface Y 11888455.4	Surface Lat
Well Number	Surface Z 3318.6	Global Z Ref KB
Project	Ground Level 3300.6	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
*** TIE (at MD = 2075.00)										
2075.00	0.00	0.0	2075.00	0.00	0.00		0.00	1842888.30	11888455.40	1243.60
2100.00	0.00	0.0	2100.00	0.00	0.00	0.00	0.00	1842888.30	11888455.40	1218.60
2150.00	0.00	0.0	2150.00	0.00	0.00	0.00	0.00	1842888.30	11888455.40	1168.60
*** KOP 9 DEGREES (at MD = 2175.00)										
2175.00	0.00	0.0	2175.00	0.00	0.00	0.00	0.00	1842888.30	11888455.40	1143.60
2200.00	2.00	251.9	2199.99	-0.14	-0.41	8.00	0.41	1842887.89	11888455.26	1118.61
2250.00	6.00	251.9	2249.86	-1.22	-3.73	8.00	3.67	1842884.57	11888454.18	1068.74
2300.00	10.00	251.9	2299.37	-3.38	-10.34	8.00	10.17	1842877.96	11888452.02	1019.23
2350.00	14.00	251.9	2348.26	-6.61	-20.22	8.00	19.88	1842868.08	11888448.79	970.34
2400.00	18.00	251.9	2396.32	-10.89	-33.32	8.00	32.76	1842854.98	11888444.51	922.28
2450.00	22.00	251.9	2443.29	-16.20	-49.57	8.00	48.74	1842838.73	11888439.20	875.31
2500.00	26.00	251.9	2488.96	-22.52	-68.90	8.00	67.75	1842819.40	11888432.88	829.64
2550.00	30.00	251.9	2533.10	-29.81	-91.20	8.00	89.68	1842797.10	11888425.59	785.50
2600.00	34.00	251.9	2575.49	-38.04	-116.38	8.00	114.44	1842771.92	11888417.36	743.11
2650.00	38.00	251.9	2615.94	-47.17	-144.31	8.00	141.90	1842743.99	11888408.23	702.66
2700.00	42.00	251.9	2654.23	-57.15	-174.86	8.00	171.94	1842713.44	11888398.25	664.37
2750.00	46.00	251.9	2690.19	-67.94	-207.86	8.00	204.39	1842680.44	11888387.46	628.41
2800.00	50.00	251.9	2723.64	-79.48	-243.17	8.00	239.11	1842645.13	11888375.92	594.96
2850.00	54.00	251.9	2754.42	-91.72	-280.62	8.00	275.93	1842607.68	11888363.68	564.18
*** 55 DEGREE TANGENT (at MD = 2862.50)										
2862.50	55.00	251.9	2761.67	-94.88	-290.29	8.00	285.44	1842598.01	11888360.52	556.93
2900.00	55.00	251.9	2783.18	-104.43	-319.49	0.00	314.15	1842568.81	11888350.97	535.42
2950.00	55.00	251.9	2811.86	-117.15	-358.42	0.00	352.43	1842529.88	11888338.25	506.74
3000.00	55.00	251.9	2840.54	-129.87	-397.35	0.00	390.71	1842490.95	11888325.53	478.06
3050.00	55.00	251.9	2869.22	-142.60	-436.28	0.00	428.99	1842452.02	11888312.80	449.38
3100.00	55.00	251.9	2897.90	-155.32	-475.21	0.00	467.27	1842413.09	11888300.08	420.70
*** 12 DEGREE BUILD (at MD = 3112.50)										
3112.50	55.00	251.9	2905.07	-158.50	-484.94	0.00	476.85	1842403.36	11888296.90	413.53
3150.00	58.82	254.7	2925.54	-167.51	-515.04	12.00	506.47	1842373.26	11888287.89	393.06
3200.00	64.01	258.2	2949.46	-177.75	-557.70	12.00	548.60	1842330.60	11888277.65	369.14
3250.00	69.27	261.3	2969.28	-185.90	-602.85	12.00	593.31	1842285.45	11888269.50	349.32
3300.00	74.58	264.2	2984.79	-191.85	-649.99	12.00	640.11	1842238.31	11888263.55	333.81
3350.00	79.93	267.0	2995.81	-195.54	-698.59	12.00	688.49	1842189.71	11888259.86	322.79
3400.00	85.31	269.7	3002.23	-196.94	-748.14	12.00	737.91	1842140.16	11888258.46	316.37
3450.00	90.69	272.4	3003.98	-196.02	-798.08	12.00	787.83	1842090.22	11888259.38	314.62
*** LANDING POINT (at MD = 3456.59)										
3456.59	91.40	272.7	3003.86	-195.72	-804.66	12.00	794.42	1842083.64	11888259.68	314.74
3500.00	91.40	272.7	3002.80	-193.65	-848.01	0.00	837.82	1842040.29	11888261.75	315.80

Terry 14 4H, Plan 1

Operator Redwood Operating LLC	Units feet, °/100ft	10:46 Friday, January 22, 2021 Page 2 of 4
Field Red Lake	County Eddy	Vertical Section Azimuth 272.73
Well Name Terry 14 4H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location SL: 1670 FNL & 688 FWL Section 13-T18S-R26E BHL: 1650 FNL & 1 FWL Section 14-T18S-26E	Map Zone UTM	Lat Long Ref
Site	Surface X 1842888.3	Surface Long
Slot Name	Surface Y 11888455.4	Surface Lat
Well Number	Surface Z 3318.6	Global Z Ref KB
Project	Ground Level 3300.6	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
3550.00	91.40	272.7	3001.58	-191.27	-897.93	0.00	887.81	1841990.37	11888264.13	317.02
3600.00	91.40	272.7	3000.36	-188.89	-947.86	0.00	937.79	1841940.44	11888266.51	318.24
3650.00	91.40	272.7	2999.13	-186.51	-997.79	0.00	987.78	1841890.51	11888268.89	319.47
3700.00	91.40	272.7	2997.91	-184.13	-1047.72	0.00	1037.76	1841840.58	11888271.27	320.69
3750.00	91.40	272.7	2996.69	-181.75	-1097.65	0.00	1087.75	1841790.65	11888273.65	321.91
3800.00	91.40	272.7	2995.47	-179.37	-1147.58	0.00	1137.73	1841740.72	11888276.03	323.13
3850.00	91.40	272.7	2994.25	-176.99	-1197.51	0.00	1187.72	1841690.80	11888278.41	324.35
3900.00	91.40	272.7	2993.03	-174.61	-1247.43	0.00	1237.70	1841640.87	11888280.79	325.57
3950.00	91.40	272.7	2991.80	-172.23	-1297.36	0.00	1287.69	1841590.94	11888283.17	326.80
4000.00	91.40	272.7	2990.58	-169.85	-1347.29	0.00	1337.67	1841541.01	11888285.55	328.02
4050.00	91.40	272.7	2989.36	-167.47	-1397.22	0.00	1387.66	1841491.08	11888287.93	329.24
4100.00	91.40	272.7	2988.14	-165.09	-1447.15	0.00	1437.64	1841441.15	11888290.31	330.46
4150.00	91.40	272.7	2986.92	-162.70	-1497.08	0.00	1487.63	1841391.22	11888292.70	331.68
4200.00	91.40	272.7	2985.70	-160.32	-1547.00	0.00	1537.61	1841341.30	11888295.08	332.90
4250.00	91.40	272.7	2984.47	-157.94	-1596.93	0.00	1587.60	1841291.37	11888297.46	334.13
4300.00	91.40	272.7	2983.25	-155.56	-1646.86	0.00	1637.58	1841241.44	11888299.84	335.35
4350.00	91.40	272.7	2982.03	-153.18	-1696.79	0.00	1687.57	1841191.51	11888302.22	336.57
4400.00	91.40	272.7	2980.81	-150.80	-1746.72	0.00	1737.55	1841141.58	11888304.60	337.79
4450.00	91.40	272.7	2979.59	-148.42	-1796.65	0.00	1787.54	1841091.65	11888306.98	339.01
4500.00	91.40	272.7	2978.37	-146.04	-1846.57	0.00	1837.52	1841041.73	11888309.36	340.23
4550.00	91.40	272.7	2977.14	-143.66	-1896.50	0.00	1887.51	1840991.80	11888311.74	341.46
4600.00	91.40	272.7	2975.92	-141.28	-1946.43	0.00	1937.49	1840941.87	11888314.12	342.68
4650.00	91.40	272.7	2974.70	-138.90	-1996.36	0.00	1987.48	1840891.94	11888316.50	343.90
4700.00	91.40	272.7	2973.48	-136.52	-2046.29	0.00	2037.46	1840842.01	11888318.88	345.12
4750.00	91.40	272.7	2972.26	-134.14	-2096.22	0.00	2087.45	1840792.08	11888321.26	346.34
4800.00	91.40	272.7	2971.04	-131.75	-2146.14	0.00	2137.43	1840742.16	11888323.65	347.56
4850.00	91.40	272.7	2969.82	-129.37	-2196.07	0.00	2187.42	1840692.23	11888326.03	348.78
4900.00	91.40	272.7	2968.59	-126.99	-2246.00	0.00	2237.40	1840642.30	11888328.41	350.01
4950.00	91.40	272.7	2967.37	-124.61	-2295.93	0.00	2287.39	1840592.37	11888330.79	351.23
5000.00	91.40	272.7	2966.15	-122.23	-2345.86	0.00	2337.37	1840542.44	11888333.17	352.45
5050.00	91.40	272.7	2964.93	-119.85	-2395.79	0.00	2387.36	1840492.51	11888335.55	353.67
5100.00	91.40	272.7	2963.71	-117.47	-2445.71	0.00	2437.34	1840442.59	11888337.93	354.89
5150.00	91.40	272.7	2962.49	-115.09	-2495.64	0.00	2487.33	1840392.66	11888340.31	356.11
5200.00	91.40	272.7	2961.26	-112.71	-2545.57	0.00	2537.31	1840342.73	11888342.69	357.34
5250.00	91.40	272.7	2960.04	-110.33	-2595.50	0.00	2587.30	1840292.80	11888345.07	358.56
5300.00	91.40	272.7	2958.82	-107.95	-2645.43	0.00	2637.28	1840242.87	11888347.45	359.78
5350.00	91.40	272.7	2957.60	-105.57	-2695.36	0.00	2687.27	1840192.94	11888349.83	361.00

Terry 14 4H, Plan 1

Operator Redwood Operating LLC	Units feet, °/100ft	10:46 Friday, January 22, 2021 Page 3 of 4
Field Red Lake	County Eddy	Vertical Section Azimuth 272.73
Well Name Terry 14 4H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access
Location SL: 1670 FNL & 688 FWL Section 13-T18S-R26E BHL: 1650 FNL & 1 FWL Section 14-T18S-26E	Map Zone UTM	Lat Long Ref
Site	Surface X 1842888.3	Surface Long
Slot Name	Surface Y 11888455.4	Surface Lat
Well Number	Surface Z 3318.6	Global Z Ref KB
Project	Ground Level 3300.6	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
5400.00	91.40	272.7	2956.38	-103.19	-2745.28	0.00	2737.25	1840143.02	11888352.21	362.22
5450.00	91.40	272.7	2955.16	-100.80	-2795.21	0.00	2787.24	1840093.09	11888354.60	363.44
5500.00	91.40	272.7	2953.93	-98.42	-2845.14	0.00	2837.22	1840043.16	11888356.98	364.67
5550.00	91.40	272.7	2952.71	-96.04	-2895.07	0.00	2887.21	1839993.23	11888359.36	365.89
5600.00	91.40	272.7	2951.49	-93.66	-2945.00	0.00	2937.19	1839943.30	11888361.74	367.11
5650.00	91.40	272.7	2950.27	-91.28	-2994.93	0.00	2987.18	1839893.37	11888364.12	368.33
5700.00	91.40	272.7	2949.05	-88.90	-3044.85	0.00	3037.16	1839843.45	11888366.50	369.55
5750.00	91.40	272.7	2947.83	-86.52	-3094.78	0.00	3087.15	1839793.52	11888368.88	370.77
5800.00	91.40	272.7	2946.60	-84.14	-3144.71	0.00	3137.13	1839743.59	11888371.26	372.00
5850.00	91.40	272.7	2945.38	-81.76	-3194.64	0.00	3187.12	1839693.66	11888373.64	373.22
5900.00	91.40	272.7	2944.16	-79.38	-3244.57	0.00	3237.10	1839643.73	11888376.02	374.44
5950.00	91.40	272.7	2942.94	-77.00	-3294.50	0.00	3287.09	1839593.80	11888378.40	375.66
6000.00	91.40	272.7	2941.72	-74.62	-3344.42	0.00	3337.07	1839543.88	11888380.78	376.88
6050.00	91.40	272.7	2940.50	-72.24	-3394.35	0.00	3387.06	1839493.95	11888383.16	378.10
6100.00	91.40	272.7	2939.28	-69.85	-3444.28	0.00	3437.04	1839444.02	11888385.55	379.33
6150.00	91.40	272.7	2938.05	-67.47	-3494.21	0.00	3487.03	1839394.09	11888387.93	380.55
6200.00	91.40	272.7	2936.83	-65.09	-3544.14	0.00	3537.01	1839344.16	11888390.31	381.77
6250.00	91.40	272.7	2935.61	-62.71	-3594.07	0.00	3587.00	1839294.23	11888392.69	382.99
6300.00	91.40	272.7	2934.39	-60.33	-3643.99	0.00	3636.98	1839244.31	11888395.07	384.21
6350.00	91.40	272.7	2933.17	-57.95	-3693.92	0.00	3686.97	1839194.38	11888397.45	385.43
6400.00	91.40	272.7	2931.95	-55.57	-3743.85	0.00	3736.95	1839144.45	11888399.83	386.65
6450.00	91.40	272.7	2930.72	-53.19	-3793.78	0.00	3786.94	1839094.52	11888402.21	387.88
6500.00	91.40	272.7	2929.50	-50.81	-3843.71	0.00	3836.93	1839044.59	11888404.59	389.10
6550.00	91.40	272.7	2928.28	-48.43	-3893.64	0.00	3886.91	1838994.66	11888406.97	390.32
6600.00	91.40	272.7	2927.06	-46.05	-3943.56	0.00	3936.90	1838944.74	11888409.35	391.54
6650.00	91.40	272.7	2925.84	-43.67	-3993.49	0.00	3986.88	1838894.81	11888411.73	392.76
6700.00	91.40	272.7	2924.62	-41.29	-4043.42	0.00	4036.87	1838844.88	11888414.11	393.98
6750.00	91.40	272.7	2923.39	-38.90	-4093.35	0.00	4086.85	1838794.95	11888416.50	395.21
6800.00	91.40	272.7	2922.17	-36.52	-4143.28	0.00	4136.84	1838745.02	11888418.88	396.43
6850.00	91.40	272.7	2920.95	-34.14	-4193.21	0.00	4186.82	1838695.09	11888421.26	397.65
6900.00	91.40	272.7	2919.73	-31.76	-4243.13	0.00	4236.81	1838645.17	11888423.64	398.87
6950.00	91.40	272.7	2918.51	-29.38	-4293.06	0.00	4286.79	1838595.24	11888426.02	400.09
7000.00	91.40	272.7	2917.29	-27.00	-4342.99	0.00	4336.78	1838545.31	11888428.40	401.31
7050.00	91.40	272.7	2916.06	-24.62	-4392.92	0.00	4386.76	1838495.38	11888430.78	402.54
7100.00	91.40	272.7	2914.84	-22.24	-4442.85	0.00	4436.75	1838445.45	11888433.16	403.76
7150.00	91.40	272.7	2913.62	-19.86	-4492.78	0.00	4486.73	1838395.52	11888435.54	404.98
7200.00	91.40	272.7	2912.40	-17.48	-4542.70	0.00	4536.72	1838345.60	11888437.92	406.20
7250.00	91.40	272.7	2911.18	-15.10	-4592.63	0.00	4586.70	1838295.67	11888440.30	407.42

Terry 14 4H, Plan 1

Operator Redwood Operating LLC	Units feet, °/100ft	10:46 Friday, January 22, 2021 Page 4 of 4
Field Red Lake	County Eddy	Vertical Section Azimuth 272.73
Well Name Terry 14 4H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access
Location SL: 1670 FNL & 688 FWL Section 13-T18S-R26E BHL: 1650 FNL & 1 FWL Section 14-T18S-26E	Map Zone UTM	Lat Long Ref
Site	Surface X 1842888.3	Surface Long
Slot Name	Surface Y 11888455.4	Surface Lat
Well Number	Surface Z 3318.6	Global Z Ref KB
Project	Ground Level 3300.6	Local North Ref Grid
UWI		
API		
MD/TVD Ref KB		

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
7300.00	91.40	272.7	2909.96	-12.72	-4642.56	0.00	4636.69	1838245.74	11888442.68	408.64
7350.00	91.40	272.7	2908.73	-10.34	-4692.49	0.00	4686.67	1838195.81	11888445.06	409.87
7400.00	91.40	272.7	2907.51	-7.95	-4742.42	0.00	4736.66	1838145.88	11888447.45	411.09
7450.00	91.40	272.7	2906.29	-5.57	-4792.35	0.00	4786.64	1838095.95	11888449.83	412.31
7500.00	91.40	272.7	2905.07	-3.19	-4842.27	0.00	4836.63	1838046.03	11888452.21	413.53
7550.00	91.40	272.7	2903.85	-0.81	-4892.20	0.00	4886.61	1837996.10	11888454.59	414.75
7600.00	91.40	272.7	2902.63	1.57	-4942.13	0.00	4936.60	1837946.17	11888456.97	415.97
7650.00	91.40	272.7	2901.41	3.95	-4992.06	0.00	4986.58	1837896.24	11888459.35	417.19
7700.00	91.40	272.7	2900.18	6.33	-5041.99	0.00	5036.57	1837846.31	11888461.73	418.42
7750.00	91.40	272.7	2898.96	8.71	-5091.92	0.00	5086.55	1837796.38	11888464.11	419.64
7800.00	91.40	272.7	2897.74	11.09	-5141.84	0.00	5136.54	1837746.46	11888466.49	420.86
7850.00	91.40	272.7	2896.52	13.47	-5191.77	0.00	5186.52	1837696.53	11888468.87	422.08
7900.00	91.40	272.7	2895.30	15.85	-5241.70	0.00	5236.51	1837646.60	11888471.25	423.30
7950.00	91.40	272.7	2894.08	18.23	-5291.63	0.00	5286.49	1837596.67	11888473.63	424.52
8000.00	91.40	272.7	2892.85	20.61	-5341.56	0.00	5336.48	1837546.74	11888476.01	425.75
8050.00	91.40	272.7	2891.63	23.00	-5391.49	0.00	5386.46	1837496.81	11888478.40	426.97
8100.00	91.40	272.7	2890.41	25.38	-5441.41	0.00	5436.45	1837446.89	11888480.78	428.19
8150.00	91.40	272.7	2889.19	27.76	-5491.34	0.00	5486.43	1837396.96	11888483.16	429.41
8200.00	91.40	272.7	2887.97	30.14	-5541.27	0.00	5536.42	1837347.03	11888485.54	430.63
8250.00	91.40	272.7	2886.75	32.52	-5591.20	0.00	5586.40	1837297.10	11888487.92	431.85
8300.00	91.40	272.7	2885.52	34.90	-5641.13	0.00	5636.39	1837247.17	11888490.30	433.08
8350.00	91.40	272.7	2884.30	37.28	-5691.06	0.00	5686.37	1837197.24	11888492.68	434.30
8400.00	91.40	272.7	2883.08	39.66	-5740.98	0.00	5736.36	1837147.32	11888495.06	435.52
8450.00	91.40	272.7	2881.86	42.04	-5790.91	0.00	5786.34	1837097.39	11888497.44	436.74
8500.00	91.40	272.7	2880.64	44.42	-5840.84	0.00	5836.33	1837047.46	11888499.82	437.96
8550.00	91.40	272.7	2879.42	46.80	-5890.77	0.00	5886.31	1836997.53	11888502.20	439.18
8600.00	91.40	272.7	2878.19	49.18	-5940.70	0.00	5936.30	1836947.60	11888504.58	440.41
*** TD (at MD = 8630.59)										
8630.59	91.40	272.7	2877.45	50.64	-5971.24	0.00	5966.88	1836917.06	11888506.04	441.15