

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-103
 Revised July 18, 2013

WELL API NO.	30-015-49211
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Leavitt 13	
8. Well Number	4H
9. OGRID Number	330211
10. Pool name or Wildcat	Red Lake; Glorieta-Yeso
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	3291' GR

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐
2. Name of Operator Redwood Operating LLC
3. Address of Operator PO Box 1370 Artesia, NM 88211-1370
4. Well Location Unit Letter Lot 3 : 2528 feet from the South line and 697 feet from the West line Section 18 Township 18S Range 27E NMPM County Eddy

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Redwood Operating LLC would like to move this surface location from the original footages per the C-101. New footages will be Lot 3, 2528 FSL 697 FWL Sec. 18 T18S R27E. This location was moved +or- 560' to the northeast. Location is still in Lot 3.

Attachments: Revised C-102, Revised Directional Plan and Revised Casing and Cement Detail.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Jerry W Sherrell TITLE Regulatory Supervisor DATE 7/9/2022

Type or print name Jerry W Sherrell E-mail address: jerrys@mec.com PHONE: 575-748-1288

For State Use Only

APPROVED BY: Petroleum Specialist TITLE Petroleum Specialist DATE 7/18/2022

Conditions of Approval (if any):

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 30-015-49211		² Pool Code 51120	³ Pool Name Red Lake; Glorieta-Yeso
⁴ Property Code 329504	⁵ Property Name LEAVITT 13		⁶ Well Number 4H
⁷ OGRID No. 330211	⁸ Operator Name REDWOOD OPERATING, LLC		⁹ Elevation 3291.9

¹⁰ Surface Location

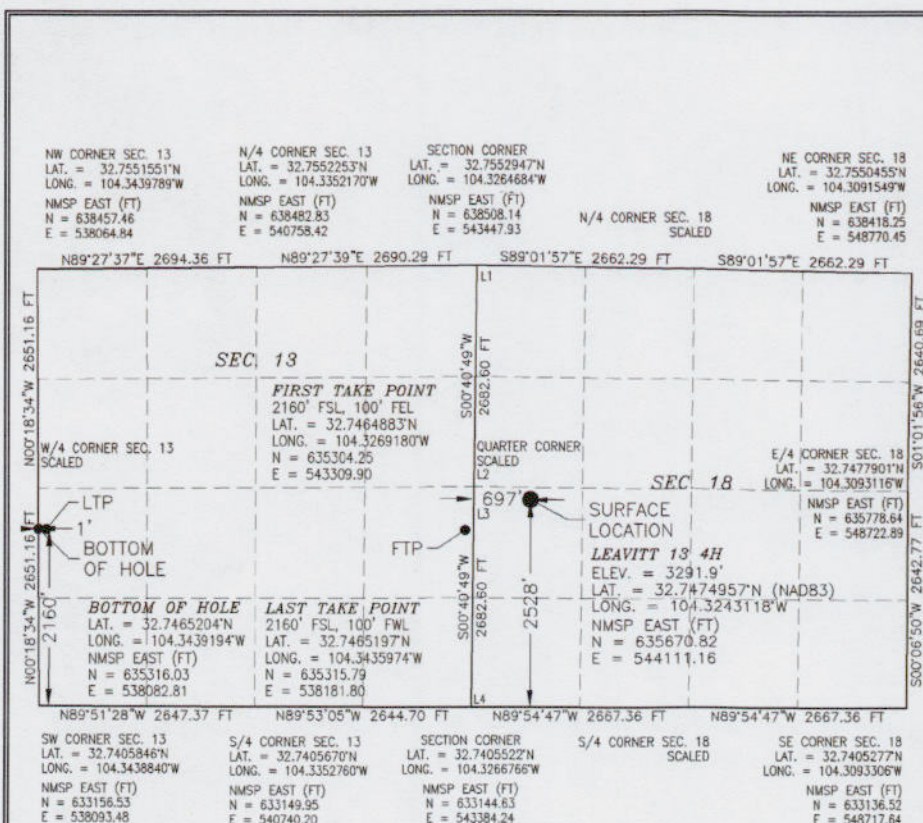
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	18	18 S	27 E		2528	SOUTH	697	WEST	EDDY

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		2160	SOUTH	1	WEST	EDDY

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

Signature Jerry W. Shull Date 7/8/2022

Jerry W Sherrell
Printed Name

jerrys@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.

JUNE 29, 2022

Date of Survey _____

Signature and Seal of Professional Surveyor:

Certificate Number: **EX-10105 IARMIALG FLS 12797**
SURVEY NO. 6787B

Leavitt 13 #4H Revised

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Surface- 12 ¼" hole 1,230'
9 5/8"-36#-J-55

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead	Class C +4%PF20+1% PF1+0.125#/skPF29+.4%PF 45	13.5	1.72	9.102	250	100	Surface
Tail	Class C+.1%PF1	14.8	1.34	6.307	200	100	1,800'

Comments	20bbls Gel Spacer. 50 sacks of 11# Scavenger cement.	Cu/Ft per lin/Ft 385.23
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Production-8,582' 7"-26#-L-80
LT&C and BTC (3,000') XO 5 ½"
17# L-80 BTC (5,582')

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead	35/65 Perlite/C 5% PF44+6%PF20+.2%PF13+3ppsPF 42+.4ppsPF45+.125ppsPF29	12.9	1.82	9.21	350	35	Surface
Tail	PVL+1.3%PF44(BWOW)+5%PF1 74+.5%PF506+0.1%PF153+.4#PF 45	13	1.48	7.57	1575	35	1,800'
Comments	20bbls Gel Spacer. 50 sacks of 11# Scavenger cement.	Cu/Ft per lin/Ft 2167.81					

Casing Design Well: Leavitt 13 #4H Revised

String Size & Function: 9.5/8 in surface x intermediate

Total Depth: 1230 ft

Pressure Gradient for Calculations (While drilling)

Mud weight, collapse: 9.6 #/gal Safety Factor Collapse: 1.125

Mud weight, burst: 9.6 #/gal Safety Factor Burst: 1.25

Mud weight for joint strength: 9.6 #/gal Safety Factor Joint Strength 1.8

BHP @ TD for: collapse: 614.016 psi Burst: 614.016 psi, joint strength: 614.016 psi

Partially evacuated hole? Pressure gradient remaining: 10 #/gal

Max. Shut in surface pressure: 500 psi

1st segment	1230 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	1230
O.D.	Weight	Grade	Threads	opt.	min.	mx.
9.625 inches	36 #/ft	J-55	ST&C	3,940	2,960	4,930
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
2,020 psi	3,520 psi	394,000 #	564,000 #	8.765		

2nd segment	0 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.
inches	#/ft					
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
psi	psi	,000 #	,000 #			

3rd segment	0 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.
inches	#/ft					
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
psi	psi	,000 #	,000 #			

4th segment	0 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.
inches	#/ft					
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
psi	psi	,000 #	,000 #			

5th segment	0 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.
inches	#/ft					
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
psi	psi	,000 #	,000 #			

6th segment	0 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.
inches	#/ft					
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
psi	psi	,000 #	,000 #			

Select	1st segment bottom	1230	S.F.	Actual	Desire
			collapse	3.289817	>= 1.125
	1230 ft to 0 ft		burst-b	6.697312	>= 1.25
	9.625 36 J-55 ST&C		burst-t	7.04	
	Top of segment 1 (ft)	0	S.F.	Actual	Desire
Select	2nd segment from bottom		collapse	#DIV/0!	>= 1.125
			burst-b	0	>= 1.25
	0 ft to 0 ft		burst-t	0	
	0 0 0 0		jnt strngth	10.42986	>= 1.8

Casing DesignWell:Leavitt 13-4H Revised

String Size & Function:5.5 1/2" x 7" inProductionX

Total Depth:8582 ftTVD:2675 ft

Pressure Gradient for Calculations(While drilling)

Mud weight, collapse:10.3 #/galSafety Factor Collapse:1.125

Mud weight, burst:10.3 #/galSafety Factor Burst:1.25

Mud weight for joint strength:10.3 #/galSafety Factor Joint Strength1.8

BHP @ TD for:collapse:1432.73 psiBurst:1432.73 psiJoint strength:1432.73 psi

Partially evacuated hole?Pressure gradient remaining:10 #/gal

Max. Shut in surface pressure:3000 psi

1st segment	8582 ft	to	3000 ft	Make up Torque ft-lbs	Total ft =	5582
O.D.	Weight	Grade	Threads	opt.	min.	mx.
5.5 inches	17 #/ft	L-80	BTC	3410	2560	4260
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
6,290	7,740 psi	338,000 #	397,000 #	4,767		

2nd segment	1900 ft	to	3000 ft	Make up Torque ft-lbs	Total ft =	1100
O.D.	Weight	Grade	Threads	opt.	min.	mx.
7 inches	26 #/ft	L-80	BTC	5110	3830	6390
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
5,410 psi	7,240 psi	511,000 #	604,000 #	6,151		

3rd segment	1900 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	1900
O.D.	Weight	Grade	Threads	opt.	min.	mx.
7 inches	26 #/ft	L-80	LT&C	5110	3830	6390
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
5,410 psi	7,240 psi	511,000 #	604,000 #	6,151		

4th segment	0 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.
inches	#/ft					
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
psi	psi	,000 #	,000 #			

5th segment	0 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.
inches	#/ft					
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
psi	psi	,000 #	,000 #			

6th segment	0 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.
inches	#/ft					
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
psi	psi	,000 #	,000 #			

Select	1st segment bottom	8257	S.F.	Actual	Desire
			collapse	4.39022	>= 1.125
	8582 ft to 3000 ft		burst-b	2.700514	>= 1.25
	5.5 26 L-80 BTC		burst-t	2.620886	
	Top of segment 1 (ft)	3000	S.F.	Actual	Desire
Select	2nd segment from bottom		collapse	3.223472	>= 1.125
			burst-b	2.451578	>= 1.25
	3000 ft to 1900 ft		burst-t	2.437415	
	7 26 L-80 BTC		jnt strngth	4.228189	>= 1.8

Redwood Operating LLC

Eddy County, NM

Sec 18-T18S-R27E

Leavitt 13 #4H

Wellbore #1

Plan: Plan #1

Standard Planning Report

06 July, 2022

Microsoft Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Leavitt 13 #4H
Company:	Redwood Operating LLC	TVD Reference:	3291.9+18 @ 3309.9usft
Project:	Eddy County, NM	MD Reference:	3291.9+18 @ 3309.9usft
Site:	Sec 18-T18S-R27E	North Reference:	Grid
Well:	Leavitt 13 #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Eddy County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec 18-T18S-R27E			
Site Position:		Northing:	637,839.86 usft	Latitude:	32° 45' 12.448 N
From:	Map	Easting:	543,939.96 usft	Longitude:	104° 19' 29.525 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	Leavitt 13 #4H					
Well Position	+N/-S	-2,169.0 usft	Northing:	635,670.82 usft	Latitude:	32° 44' 50.984 N
	+E/-W	171.2 usft	Easting:	544,111.16 usft	Longitude:	104° 19' 27.522 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,291.9 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	07/06/22	6.80	60.36	47,647.63257302

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	2,674.7	0.0	0.0	266.63

Plan Survey Tool Program	Date	07/06/22		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	8,581.2 Plan #1 (Wellbore #1)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,003.0	0.00	0.00	2,003.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,690.5	55.00	239.00	2,589.7	-157.3	-261.8	8.00	8.00	0.00	239.00	
2,940.5	55.00	239.00	2,733.1	-262.8	-437.3	0.00	0.00	0.00	0.00	
3,412.7	92.14	270.14	2,867.4	-367.8	-863.4	10.00	7.86	6.60	44.76	
8,581.2	92.14	270.14	2,674.7	-354.8	-6,028.3	0.00	0.00	0.00	0.00	BHL Leavitt 13 #4H

Microsoft Planning Report

Database: EDM 5000.15 Single User Db
Company: Redwood Operating LLC
Project: Eddy County, NM
Site: Sec 18-T18S-R27E
Well: Leavitt 13 #4H
Wellbore: Wellbore #1
Design: Plan #1

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

Well Leavitt 13 #4H
3291.9+18 @ 3309.9usft
3291.9+18 @ 3309.9usft
Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,003.0	0.00	0.00	2,003.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP BLD 8°/100'									
2,050.0	3.76	239.00	2,050.0	-0.8	-1.3	1.4	8.00	8.00	0.00
2,100.0	7.76	239.00	2,099.7	-3.4	-5.6	5.8	8.00	8.00	0.00
2,150.0	11.76	239.00	2,149.0	-7.7	-12.9	13.3	8.00	8.00	0.00
2,200.0	15.76	239.00	2,197.5	-13.9	-23.1	23.9	8.00	8.00	0.00
2,250.0	19.76	239.00	2,245.1	-21.7	-36.1	37.4	8.00	8.00	0.00
2,300.0	23.76	239.00	2,291.6	-31.3	-52.0	53.8	8.00	8.00	0.00
2,350.0	27.76	239.00	2,336.6	-42.5	-70.7	73.0	8.00	8.00	0.00
2,400.0	31.76	239.00	2,380.0	-55.2	-91.9	95.0	8.00	8.00	0.00
2,450.0	35.76	239.00	2,421.5	-69.5	-115.7	119.6	8.00	8.00	0.00
2,500.0	39.76	239.00	2,461.1	-85.3	-142.0	146.7	8.00	8.00	0.00
2,550.0	43.76	239.00	2,498.3	-102.5	-170.5	176.2	8.00	8.00	0.00
2,600.0	47.76	239.00	2,533.2	-120.9	-201.2	208.0	8.00	8.00	0.00
2,650.0	51.76	239.00	2,565.5	-140.6	-233.9	241.8	8.00	8.00	0.00
2,690.5	55.00	239.00	2,589.7	-157.3	-261.8	270.6	8.00	8.00	0.00
EOB HLD 56° 250'									
2,700.0	55.00	239.00	2,595.1	-161.3	-268.5	277.5	0.00	0.00	0.00
2,800.0	55.00	239.00	2,652.5	-203.5	-338.7	350.0	0.00	0.00	0.00
2,900.0	55.00	239.00	2,709.8	-245.7	-408.9	422.6	0.00	0.00	0.00
2,940.5	55.00	239.00	2,733.1	-262.8	-437.3	452.0	0.00	0.00	0.00
CONT BLD & TRN 10°/100'									
2,950.0	55.68	239.81	2,738.5	-266.7	-444.0	459.0	10.00	7.13	8.53
3,000.0	59.32	243.87	2,765.3	-286.6	-481.2	497.2	10.00	7.29	8.12
3,050.0	63.09	247.63	2,789.4	-304.6	-521.2	538.2	10.00	7.53	7.52
3,100.0	66.94	251.14	2,810.5	-320.5	-563.6	581.4	10.00	7.71	7.03
3,150.0	70.87	254.46	2,828.5	-334.3	-608.1	626.7	10.00	7.86	6.63
3,200.0	74.86	257.62	2,843.3	-345.8	-654.5	673.7	10.00	7.97	6.32
3,250.0	78.88	260.66	2,854.6	-355.0	-702.3	721.9	10.00	8.06	6.09
3,300.0	82.94	263.62	2,862.5	-361.7	-751.2	771.1	10.00	8.12	5.92
3,350.0	87.02	266.53	2,866.9	-366.0	-800.8	820.9	10.00	8.15	5.82
3,400.0	91.10	269.41	2,867.7	-367.7	-850.7	870.9	10.00	8.17	5.77
3,412.7	92.14	270.14	2,867.4	-367.8	-863.4	883.5	10.00	8.17	5.77

Microsoft Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Leavitt 13 #4H
Company:	Redwood Operating LLC	TVD Reference:	3291.9+18 @ 3309.9usft
Project:	Eddy County, NM	MD Reference:	3291.9+18 @ 3309.9usft
Site:	Sec 18-T18S-R27E	North Reference:	Grid
Well:	Leavitt 13 #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
EOB&T HLD 92.14° Inc.									
3,500.0	92.14	270.14	2,864.1	-367.6	-950.7	970.6	0.00	0.00	0.00
3,600.0	92.14	270.14	2,860.4	-367.3	-1,050.6	1,070.4	0.00	0.00	0.00
3,700.0	92.14	270.14	2,856.7	-367.1	-1,150.5	1,170.1	0.00	0.00	0.00
3,800.0	92.14	270.14	2,852.9	-366.8	-1,250.5	1,269.8	0.00	0.00	0.00
3,900.0	92.14	270.14	2,849.2	-366.6	-1,350.4	1,369.6	0.00	0.00	0.00
4,000.0	92.14	270.14	2,845.5	-366.3	-1,450.3	1,469.3	0.00	0.00	0.00
4,100.0	92.14	270.14	2,841.7	-366.1	-1,550.2	1,569.1	0.00	0.00	0.00
4,200.0	92.14	270.14	2,838.0	-365.8	-1,650.2	1,668.8	0.00	0.00	0.00
4,300.0	92.14	270.14	2,834.3	-365.6	-1,750.1	1,768.6	0.00	0.00	0.00
4,400.0	92.14	270.14	2,830.6	-365.3	-1,850.0	1,868.3	0.00	0.00	0.00
4,500.0	92.14	270.14	2,826.8	-365.1	-1,950.0	1,968.0	0.00	0.00	0.00
4,600.0	92.14	270.14	2,823.1	-364.8	-2,049.9	2,067.8	0.00	0.00	0.00
4,700.0	92.14	270.14	2,819.4	-364.6	-2,149.8	2,167.5	0.00	0.00	0.00
4,800.0	92.14	270.14	2,815.6	-364.3	-2,249.8	2,267.3	0.00	0.00	0.00
4,900.0	92.14	270.14	2,811.9	-364.0	-2,349.7	2,367.0	0.00	0.00	0.00
5,000.0	92.14	270.14	2,808.2	-363.8	-2,449.6	2,466.8	0.00	0.00	0.00
5,100.0	92.14	270.14	2,804.5	-363.5	-2,549.5	2,566.5	0.00	0.00	0.00
5,200.0	92.14	270.14	2,800.7	-363.3	-2,649.5	2,666.2	0.00	0.00	0.00
5,300.0	92.14	270.14	2,797.0	-363.0	-2,749.4	2,766.0	0.00	0.00	0.00
5,400.0	92.14	270.14	2,793.3	-362.8	-2,849.3	2,865.7	0.00	0.00	0.00
5,500.0	92.14	270.14	2,789.5	-362.5	-2,949.3	2,965.5	0.00	0.00	0.00
5,600.0	92.14	270.14	2,785.8	-362.3	-3,049.2	3,065.2	0.00	0.00	0.00
5,700.0	92.14	270.14	2,782.1	-362.0	-3,149.1	3,165.0	0.00	0.00	0.00
5,800.0	92.14	270.14	2,778.4	-361.8	-3,249.1	3,264.7	0.00	0.00	0.00
5,900.0	92.14	270.14	2,774.6	-361.5	-3,349.0	3,364.4	0.00	0.00	0.00
6,000.0	92.14	270.14	2,770.9	-361.3	-3,448.9	3,464.2	0.00	0.00	0.00
6,100.0	92.14	270.14	2,767.2	-361.0	-3,548.9	3,563.9	0.00	0.00	0.00
6,200.0	92.14	270.14	2,763.4	-360.8	-3,648.8	3,663.7	0.00	0.00	0.00
6,300.0	92.14	270.14	2,759.7	-360.5	-3,748.7	3,763.4	0.00	0.00	0.00
6,400.0	92.14	270.14	2,756.0	-360.3	-3,848.6	3,863.2	0.00	0.00	0.00
6,500.0	92.14	270.14	2,752.3	-360.0	-3,948.6	3,962.9	0.00	0.00	0.00
6,600.0	92.14	270.14	2,748.5	-359.8	-4,048.5	4,062.6	0.00	0.00	0.00
6,700.0	92.14	270.14	2,744.8	-359.5	-4,148.4	4,162.4	0.00	0.00	0.00
6,800.0	92.14	270.14	2,741.1	-359.3	-4,248.4	4,262.1	0.00	0.00	0.00
6,900.0	92.14	270.14	2,737.3	-359.0	-4,348.3	4,361.9	0.00	0.00	0.00
7,000.0	92.14	270.14	2,733.6	-358.8	-4,448.2	4,461.6	0.00	0.00	0.00
7,100.0	92.14	270.14	2,729.9	-358.5	-4,548.2	4,561.4	0.00	0.00	0.00
7,200.0	92.14	270.14	2,726.2	-358.3	-4,648.1	4,661.1	0.00	0.00	0.00
7,300.0	92.14	270.14	2,722.4	-358.0	-4,748.0	4,760.8	0.00	0.00	0.00
7,400.0	92.14	270.14	2,718.7	-357.8	-4,847.9	4,860.6	0.00	0.00	0.00
7,500.0	92.14	270.14	2,715.0	-357.5	-4,947.9	4,960.3	0.00	0.00	0.00
7,600.0	92.14	270.14	2,711.2	-357.3	-5,047.8	5,060.1	0.00	0.00	0.00
7,700.0	92.14	270.14	2,707.5	-357.0	-5,147.7	5,159.8	0.00	0.00	0.00
7,800.0	92.14	270.14	2,703.8	-356.8	-5,247.7	5,259.6	0.00	0.00	0.00
7,900.0	92.14	270.14	2,700.1	-356.5	-5,347.6	5,359.3	0.00	0.00	0.00
8,000.0	92.14	270.14	2,696.3	-356.3	-5,447.5	5,459.0	0.00	0.00	0.00
8,100.0	92.14	270.14	2,692.6	-356.0	-5,547.5	5,558.8	0.00	0.00	0.00
8,200.0	92.14	270.14	2,688.9	-355.7	-5,647.4	5,658.5	0.00	0.00	0.00
8,300.0	92.14	270.14	2,685.1	-355.5	-5,747.3	5,758.3	0.00	0.00	0.00
8,400.0	92.14	270.14	2,681.4	-355.2	-5,847.2	5,858.0	0.00	0.00	0.00
8,500.0	92.14	270.14	2,677.7	-355.0	-5,947.2	5,957.8	0.00	0.00	0.00
8,581.2	92.14	270.14	2,674.7	-354.8	-6,028.3	6,038.8	0.00	0.00	0.00

Microsoft
Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Leavitt 13 #4H
Company:	Redwood Operating LLC	TVD Reference:	3291.9+18 @ 3309.9usft
Project:	Eddy County, NM	MD Reference:	3291.9+18 @ 3309.9usft
Site:	Sec 18-T18S-R27E	North Reference:	Grid
Well:	Leavitt 13 #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
TD at 8581.2									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL Leavitt 13 #4H - plan hits target center - Point	0.00	0.00	2,674.7	-354.8	-6,028.3	635,316.03	538,082.81	32° 44' 47.473 N	104° 20' 38.110 W
LTP Leavitt 13 #4H - plan hits target center - Point	0.00	0.00	2,678.4	-355.0	-5,929.4	635,315.79	538,181.80	32° 44' 47.471 N	104° 20' 36.951 W
FTP Leavitt 13 #4H - plan misses target center by 0.6usft at 3350.5usft MD (2866.9 TVD, -366.0 N, -801.3 E) - Point	0.00	0.00	2,866.9	-366.6	-801.3	635,304.25	543,309.90	32° 44' 47.358 N	104° 19' 36.905 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,003.0	2,003.0	0.0	0.0	KOP BLD 8°/100'
2,690.5	2,589.7	-157.3	-261.8	EOB HLD 55° 250'
2,940.5	2,733.1	-262.8	-437.3	CONT BLD & TRN 10°/100'
3,412.7	2,867.4	-367.8	-863.4	EOB&T HLD 92.14° Inc.
8,581.2	2,674.7	-354.8	-6,028.3	TD at 8581.2

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

CONDITIONS

Action 123633

CONDITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 123633
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	7/18/2022