

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

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.)		WELL API NO. 30-015-49486
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Redwood Operating LLC		6. State Oil & Gas Lease No.
3. Address of Operator PO Box 1370 Artesia, NM 88211-1370		7. Lease Name or Unit Agreement Name Leavitt 13
4. Well Location Unit Letter <u>P</u> : <u>635</u> feet from the <u>South</u> line and <u>330</u> feet from the <u>East</u> line Section <u>14</u> Township <u>18S</u> Range <u>26E</u> NMPM County <u>Eddy</u>		8. Well Number <u>5H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3309' GR		9. OGRID Number 330211
10. Pool name or Wildcat Red Lake; Glorieta-Yeso		

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 Unit P, 635 FSL 330 FEL Sec. 14 T18S R26E.

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 7/29/2022

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

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

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 30-015-49486	² Pool Code 51120	³ Pool Name Red Lake; Glorieta-Yeso
⁴ Property Code 329504	⁵ Property Name LEAVITT 13	⁶ Well Number 5H
⁷ OGRID No. 330211	⁸ Operator Name REDWOOD OPERATING, LLC	⁹ Elevation 3309.1

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
P	14	18 S	26 E		635	SOUTH	330	EAST	EDDY

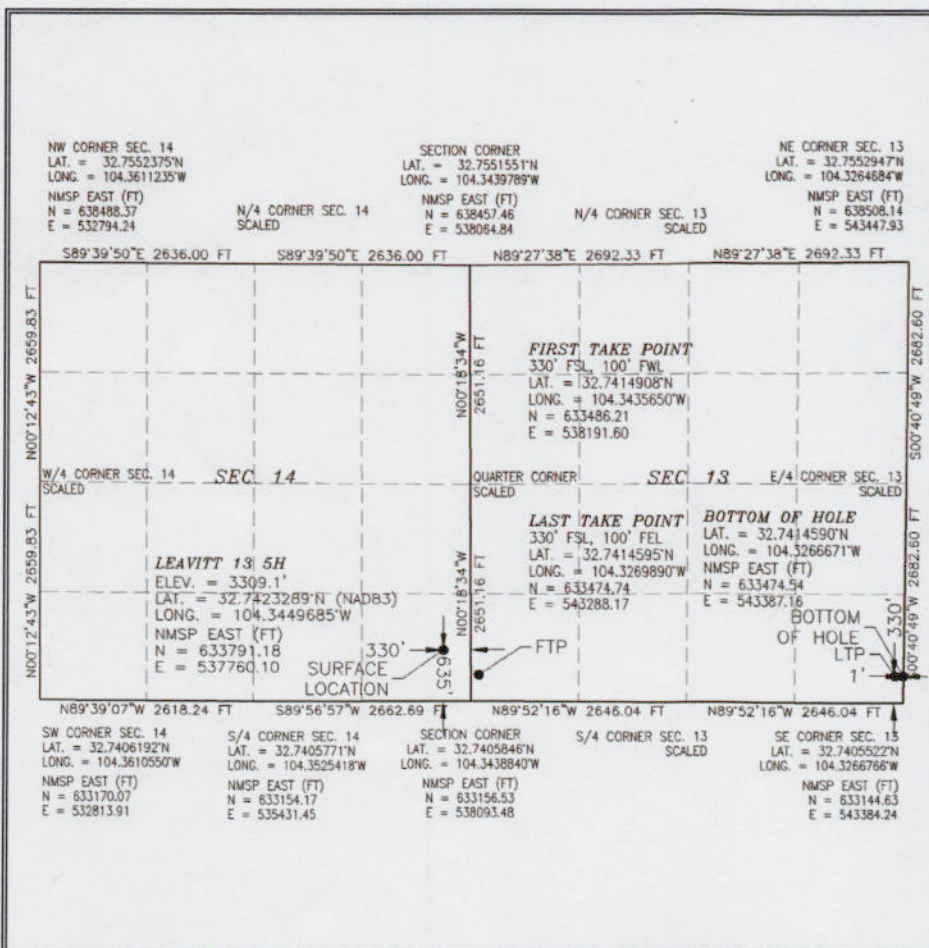
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	13	18 S	26 E		330	SOUTH	1	EAST	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. Delilah Flores 7/22/2022 Signature Date Delilah Flores Printed Name delilah@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. JULY 15, 2022 Date of Survey William F. Jaramillo Signature and Seal of Professional Surveyor Certificate Number: 12797 Professional Surveyor No. 3153B
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Leavitt 13 #5H

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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-8,105' 7"-26#-L-80
LT&C and BTC (2,950') XO 5 ½"
17# L-80 BTC (5,101')

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	1475	35	1,750'
Comments	20bbls Gel Spacer. 50 sacks of 11# Scavenger cement.	Cu/Ft per lin/Ft 2034					

Casing Design Well: Leavitt 13-05H

String Size & Function: 9 5/8 in surface x intermediate

Total Depth: 1230 ft

Pressure Gradient for Calculations		(While drilling)	
Mud weight, <u>collapse</u> :	<u>9.6</u> #/gal	Safety Factor Collapse:	<u>1.125</u>
Mud weight, <u>burst</u> :	<u>9.6</u> #/gal	Safety Factor Burst:	<u>1.25</u>
Mud weight for joint strength:	<u>9.6</u> #/gal	Safety Factor Joint Strength	<u>1.8</u>
BHP @ TD for: collapse: <u>614.016</u> psi Burst: <u>614.016</u> psi, joint strength: <u>614.016</u> 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.
<u>9.625</u> inches	<u>36</u> #/ft	<u>J-55</u>	<u>ST&C</u>	<u>3,940</u>	<u>2,960</u>	<u>4,930</u>
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
<u>2,020</u> psi	<u>3,520</u> psi	<u>394,000</u> #	<u>564,000</u> #	<u>8.765</u>		

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 Design

Well:

Leavitt 13-95H

String Size & Function:

5.1/2"x7" in

Production

x

Total Depth:

8105 ft

TVD:

2977 ft

Pressure Gradient for Calculations

(While drilling)

Mud weight, collapse:

10.3 #/gal

Safety Factor Collapse:

1.125

Mud weight, burst:

10.3 #/gal

Safety Factor Burst:

1.25

Mud weight for joint strength:

10.3 #/gal

Safety Factor Joint Strength

1.8

BHP @ TD for:

collapse:

1594.481 psi

Burst:

1594.481 psi,

joint strength:

1594.481 psi

Partially evacuated hole?

Pressure gradient remaining:

10 #/gal

Max. Shut in surface pressure:

3000 psi

1st segment	8051 ft	to	2950 ft	Make up Torque ft-lbs	Total ft =	5101
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	1850 ft	to	2950 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	1850 ft	to	0 ft	Make up Torque ft-lbs	Total ft =	1850
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	8051	S.F.	Actual	Desire
			collapse	3.944857	>= 1.125
	8105 ft to 2950 ft		burst-b	2.693521	>= 1.25
	5.5 26 L-80 BTC		burst-t	2.620194	
	Top of segment 1 (ft)	2950	S.F.	Actual	Desire
Select	2nd segment from bottom		collapse	3.291266	>= 1.125
			burst-b	2.450931	>= 1.25
	2950 ft to 1850 ft		burst-t	2.438775	
	7 26 L-80 BTC		jnt strngth	4.57842	>= 1.8

Redwood Operating LLC

Eddy County, NM

Sec 14-T18S-R26E

Leavitt 13 #5H

Wellbore #1

Plan: Plan #1

Standard Planning Report

27 July, 2022

Microsoft Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Leavitt 13 #5H
Company:	Redwood Operating LLC	TVD Reference:	3309.1+18 @ 3327.1usft
Project:	Eddy County, NM	MD Reference:	3309.1+18 @ 3327.1usft
Site:	Sec 14-T18S-R26E	North Reference:	Grid
Well:	Leavitt 13 #5H	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 14-T18S-R26E											
Site Position:			Northing:			633,791.18 usft			Latitude:			32° 44' 32.384 N					
From:			Map			Easting:			537,760.10 usft			Longitude:			104° 20' 41.887 W		
Position Uncertainty:			0.0 usft			Slot Radius:			13-3/16 "			Grid Convergence:			-0.01 °		

Well		Leavitt 13 #5H				
Well Position	+N/-S	0.0 usft	Northing:	633,791.18 usft	Latitude:	32° 44' 32.384 N
	+E/-W	0.0 usft	Easting:	537,760.10 usft	Longitude:	104° 20' 41.887 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,309.1 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	07/27/22	6.80	60.35	47,636.37783492

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 (°)
	2,966.0	0.0	0.0	93.22

Plan Survey Tool Program	Date	07/27/22		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	8,105.7 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	
1,954.5	0.00	0.00	1,954.5	0.0	0.0	0.00	0.00	0.00	0.00	
2,642.0	55.00	116.90	2,541.2	-138.2	272.4	8.00	8.00	0.00	116.90	
2,892.0	55.00	116.90	2,684.6	-230.8	455.0	0.00	0.00	0.00	0.00	
3,307.4	88.21	90.06	2,816.0	-311.6	830.9	10.00	7.99	-6.46	-42.88	
8,105.9	88.21	90.06	2,966.0	-316.6	5,627.1	0.00	0.00	0.00	0.00	BHL Leavitt 13 #5H

Microsoft Planning Report

Database: EDM 5000.15 Single User Db
 Company: Redwood Operating LLC
 Project: Eddy County, NM
 Site: Sec 14-T18S-R26E
 Well: Leavitt 13 #5H
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference:
 TVD Reference: 3309 1+18 @ 3327.1ustft
 MD Reference: 3309 1+18 @ 3327.1ustft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Measured		Inclination		Azimuth		Vertical		+N/S		+E/W		Vertical		Dogleg		Build		Turn	
Depth	(ustft)	(°)	(°)	Depth	(ustft)	(ustft)	(ustft)	(ustft)	(ustft)	Section	(ustft)	Rate	(°/100ustft)	Rate	(°/100ustft)	Rate	(°/100ustft)	Rate	(°/100ustft)
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.0	0.00	0.00	0.00	200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.0	0.00	0.00	0.00	400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.0	0.00	0.00	0.00	500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.0	0.00	0.00	0.00	600.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.0	0.00	0.00	0.00	700.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.0	0.00	0.00	0.00	800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.0	0.00	0.00	0.00	900.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.0	0.00	0.00	0.00	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.0	0.00	0.00	0.00	1,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.0	0.00	0.00	0.00	1,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.0	0.00	0.00	0.00	1,300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.0	0.00	0.00	0.00	1,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.0	0.00	0.00	0.00	1,500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.0	0.00	0.00	0.00	1,600.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.0	0.00	0.00	0.00	1,700.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.0	0.00	0.00	0.00	1,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.0	0.00	0.00	0.00	1,900.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,954.5	0.00	0.00	0.00	1,954.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP BLD 8°/100°																			
2,000.0	3.64	116.90	116.90	2,000.0	-0.7	1.3	1.3	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,050.0	7.64	116.90	116.90	2,049.7	-2.9	5.7	5.8	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.0	11.64	116.90	116.90	2,099.0	-6.7	13.1	13.5	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,150.0	15.64	116.90	116.90	2,147.6	-12.0	23.6	24.3	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.0	19.64	116.90	116.90	2,195.2	-18.9	37.2	38.2	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,250.0	23.64	116.90	116.90	2,241.7	-27.2	53.6	55.0	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.0	27.64	116.90	116.90	2,286.8	-37.0	72.9	74.9	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,350.0	31.64	116.90	116.90	2,330.2	-48.2	94.9	97.5	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.0	35.64	116.90	116.90	2,371.8	-60.7	119.6	122.9	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,450.0	39.64	116.90	116.90	2,411.4	-74.5	146.9	150.8	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.0	43.64	116.90	116.90	2,448.8	-89.5	176.5	181.2	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,550.0	47.64	116.90	116.90	2,483.7	-105.7	208.4	214.0	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.0	51.64	116.90	116.90	2,516.1	-122.9	242.3	248.8	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,642.0	55.00	116.90	116.90	2,541.2	-138.2	272.4	279.7	8.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EOB HLD 55° Inc. 250°																			
2,700.0	55.00	116.90	116.90	2,574.4	-159.7	314.7	323.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.0	55.00	116.90	116.90	2,631.8	-196.7	387.8	398.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,892.0	55.00	116.90	116.90	2,684.6	-230.8	455.0	467.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CONT BLD 10°/100°																			
2,900.0	55.59	116.24	116.24	2,689.1	-233.8	460.9	473.3	10.00	10.00	7.35	-8.25	10.00	10.00	7.35	-8.25	10.00	10.00	7.35	-8.25
2,950.0	59.34	112.31	112.31	2,716.0	-251.1	499.3	512.6	10.00	10.00	7.50	-7.85	10.00	10.00	7.50	-7.85	10.00	10.00	7.50	-7.85
3,000.0	63.20	108.69	108.69	2,740.1	-266.4	540.3	554.5	10.00	10.00	7.72	-7.26	10.00	10.00	7.72	-7.26	10.00	10.00	7.72	-7.26
3,050.0	67.14	105.30	105.30	2,761.1	-279.6	563.7	598.5	10.00	10.00	7.89	-6.77	10.00	10.00	7.89	-6.77	10.00	10.00	7.89	-6.77
3,100.0	71.15	102.11	102.11	2,778.9	-290.7	629.1	644.4	10.00	10.00	8.02	-6.39	10.00	10.00	8.02	-6.39	10.00	10.00	8.02	-6.39
3,150.0	75.22	99.06	99.06	2,793.3	-299.4	676.1	691.9	10.00	10.00	8.13	-6.09	10.00	10.00	8.13	-6.09	10.00	10.00	8.13	-6.09
3,200.0	79.32	96.13	96.13	2,804.3	-305.9	724.5	740.5	10.00	10.00	8.21	-5.86	10.00	10.00	8.21	-5.86	10.00	10.00	8.21	-5.86
3,250.0	83.45	93.28	93.28	2,811.8	-309.9	773.7	789.9	10.00	10.00	8.26	-5.70	10.00	10.00	8.26	-5.70	10.00	10.00	8.26	-5.70
3,300.0	87.59	90.47	90.47	2,815.7	-311.6	823.5	839.7	10.00	10.00	8.29	-5.61	10.00	10.00	8.29	-5.61	10.00	10.00	8.29	-5.61
3,307.4	88.21	90.06	90.06	2,816.0	-311.6	830.9	847.1	10.00	10.00	8.30	-5.58	10.00	10.00	8.30	-5.58	10.00	10.00	8.30	-5.58
EOB HLD 88.21° Inc.																			
3,400.0	88.21	90.06	90.06	2,818.9	-311.7	923.5	939.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Microsoft Planning Report

Database: EDM 5000.15 Single User Db
Company: Redwood Operating LLC
Project: Eddy County, NM
Site: Sec 14-T18S-R26E
Well: Leavitt 13 #5H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well Leavitt 13 #5H
TVD Reference: 3309.1+18 @ 3327.1usft
MD Reference: 3309.1+18 @ 3327.1usft
North Reference: Grid
Survey Calculation Method: 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)
3,500.0	88.21	90.06	2,822.0	-311.8	1,023.4	1,039.3	0.00	0.00	0.00
3,600.0	88.21	90.06	2,825.2	-311.9	1,123.4	1,139.1	0.00	0.00	0.00
3,700.0	88.21	90.06	2,828.3	-312.0	1,223.3	1,238.9	0.00	0.00	0.00
3,800.0	88.21	90.06	2,831.4	-312.1	1,323.3	1,338.7	0.00	0.00	0.00
3,900.0	88.21	90.06	2,834.5	-312.2	1,423.2	1,438.5	0.00	0.00	0.00
4,000.0	88.21	90.06	2,837.7	-312.3	1,523.2	1,538.3	0.00	0.00	0.00
4,100.0	88.21	90.06	2,840.8	-312.4	1,623.1	1,638.1	0.00	0.00	0.00
4,200.0	88.21	90.06	2,843.9	-312.5	1,723.1	1,737.9	0.00	0.00	0.00
4,300.0	88.21	90.06	2,847.0	-312.6	1,823.0	1,837.7	0.00	0.00	0.00
4,400.0	88.21	90.06	2,850.2	-312.7	1,923.0	1,937.5	0.00	0.00	0.00
4,500.0	88.21	90.06	2,853.3	-312.8	2,022.9	2,037.3	0.00	0.00	0.00
4,600.0	88.21	90.06	2,856.4	-313.0	2,122.9	2,137.1	0.00	0.00	0.00
4,700.0	88.21	90.06	2,859.5	-313.1	2,222.8	2,236.9	0.00	0.00	0.00
4,800.0	88.21	90.06	2,862.7	-313.2	2,322.8	2,336.7	0.00	0.00	0.00
4,900.0	88.21	90.06	2,865.8	-313.3	2,422.7	2,436.5	0.00	0.00	0.00
5,000.0	88.21	90.06	2,868.9	-313.4	2,522.7	2,536.3	0.00	0.00	0.00
5,100.0	88.21	90.06	2,872.0	-313.5	2,622.7	2,636.1	0.00	0.00	0.00
5,200.0	88.21	90.06	2,875.2	-313.6	2,722.6	2,735.9	0.00	0.00	0.00
5,300.0	88.21	90.06	2,878.3	-313.7	2,822.6	2,835.7	0.00	0.00	0.00
5,400.0	88.21	90.06	2,881.4	-313.8	2,922.5	2,935.5	0.00	0.00	0.00
5,500.0	88.21	90.06	2,884.5	-313.9	3,022.5	3,035.3	0.00	0.00	0.00
5,600.0	88.21	90.06	2,887.7	-314.0	3,122.4	3,135.1	0.00	0.00	0.00
5,700.0	88.21	90.06	2,890.8	-314.1	3,222.4	3,234.9	0.00	0.00	0.00
5,800.0	88.21	90.06	2,893.9	-314.2	3,322.3	3,334.7	0.00	0.00	0.00
5,900.0	88.21	90.06	2,897.0	-314.3	3,422.3	3,434.5	0.00	0.00	0.00
6,000.0	88.21	90.06	2,900.2	-314.4	3,522.2	3,534.3	0.00	0.00	0.00
6,100.0	88.21	90.06	2,903.3	-314.5	3,622.2	3,634.1	0.00	0.00	0.00
6,200.0	88.21	90.06	2,906.4	-314.6	3,722.1	3,733.9	0.00	0.00	0.00
6,300.0	88.21	90.06	2,909.6	-314.7	3,822.1	3,833.7	0.00	0.00	0.00
6,400.0	88.21	90.06	2,912.7	-314.8	3,922.0	3,933.5	0.00	0.00	0.00
6,500.0	88.21	90.06	2,915.8	-315.0	4,022.0	4,033.3	0.00	0.00	0.00
6,600.0	88.21	90.06	2,918.9	-315.1	4,121.9	4,133.1	0.00	0.00	0.00
6,700.0	88.21	90.06	2,922.1	-315.2	4,221.9	4,232.9	0.00	0.00	0.00
6,800.0	88.21	90.06	2,925.2	-315.3	4,321.8	4,332.7	0.00	0.00	0.00
6,900.0	88.21	90.06	2,928.3	-315.4	4,421.8	4,432.5	0.00	0.00	0.00
7,000.0	88.21	90.06	2,931.4	-315.5	4,521.7	4,532.3	0.00	0.00	0.00
7,100.0	88.21	90.06	2,934.6	-315.6	4,621.7	4,632.1	0.00	0.00	0.00
7,200.0	88.21	90.06	2,937.7	-315.7	4,721.6	4,731.9	0.00	0.00	0.00
7,300.0	88.21	90.06	2,940.8	-315.8	4,821.6	4,831.7	0.00	0.00	0.00
7,400.0	88.21	90.06	2,943.9	-315.9	4,921.5	4,931.5	0.00	0.00	0.00
7,500.0	88.21	90.06	2,947.1	-316.0	5,021.5	5,031.3	0.00	0.00	0.00
7,600.0	88.21	90.06	2,950.2	-316.1	5,121.4	5,131.1	0.00	0.00	0.00
7,700.0	88.21	90.06	2,953.3	-316.2	5,221.4	5,230.9	0.00	0.00	0.00
7,800.0	88.21	90.06	2,956.4	-316.3	5,321.3	5,330.7	0.00	0.00	0.00
7,900.0	88.21	90.06	2,959.6	-316.4	5,421.3	5,430.5	0.00	0.00	0.00
8,000.0	88.21	90.06	2,962.7	-316.5	5,521.2	5,530.3	0.00	0.00	0.00
8,105.9	88.21	90.06	2,966.0	-316.6	5,627.1	5,636.0	0.00	0.00	0.00
TD at 8105.9									

Microsoft
Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Leavitt 13 #5H
Company:	Redwood Operating LLC	TVD Reference:	3309.1+18 @ 3327.1usft
Project:	Eddy County, NM	MD Reference:	3309.1+18 @ 3327.1usft
Site:	Sec 14-T18S-R26E	North Reference:	Grid
Well:	Leavitt 13 #5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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
FTP Leavitt 13 #5H - plan misses target center by 79.9usft at 2891.7usft MD (2684.4 TVD, -230.7 N, 454.8 E) - Point	0.00	360.00	2,666.1	-305.0	431.5	633,486.21	538,191.60	32° 44' 29.367 N	104° 20' 36.834 W
LTP Leavitt 13 #5H - plan misses target center by 6.8usft at 8000.0usft MD (2962.7 TVD, -316.5 N, 5521.2 E) - Point	0.00	0.00	2,962.9	-316.4	5,528.1	633,474.74	543,288.17	32° 44' 29.254 N	104° 19' 37.160 W
BHL Leavitt 13 #5H - plan hits target center - Point	0.00	0.00	2,966.0	-316.6	5,627.1	633,474.54	543,387.16	32° 44' 29.252 N	104° 19' 36.001 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,954.5	1,954.5	0.0	0.0	KOP BLD 8°/100'
2,642.0	2,541.2	-138.2	272.4	EOB HLD 55° Inc. 250'
2,892.0	2,684.6	-230.8	455.0	CONT BLD 10°/100'
3,307.4	2,816.0	-311.6	830.9	EOB HLD 88.21° Inc.
8,105.9	2,966.0	-316.6	5,627.1	TD at 8105.9

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 129771

CONDITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 129771
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	8/1/2022