

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

Form C-103
 Revised July 18, 2013

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

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 P.O. Box 1370 Artesia, NM 88211-1370 4. Well Location Unit Letter <u>3</u> : <u>2528</u> feet from the <u>South</u> line and <u>717</u> feet from the <u>West</u> line Section <u>18</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u> 11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>3292' GR</u>		WELL API NO. 30-015-49218 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 <u>6H</u> 9. OGRID Number 330211 10. Pool name or Wildcat Red Lake; Glorieta-Yeso
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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: ☐
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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 request a change to the Leavitt 13 #6H APD to the Following-

FTP- Unit I Sec. 13 T18S R26E 1650 FSL 100 FEL Eddy, NM

LTP- Unit L Sec. 13 T18S R26E 1650 FSL 100 FWL Eddy, NM

BHL- Unit L Sec. 13 T18S R26E 1650 FSL 1 FWL Eddy, NM

Production Csg/Cmt-

Drill 8 3/4" hole to 9487'

Run 7" 26# L-80 LT&C csg @ 0-2350', 7" 26# L-80 BT&C csg @ 2350-3450', 5 1/2" 17# L-80 BT&C @ 3450-9487'

CMT w/ 275sx 50/50 POZ, Tail w/ 1875sx 50/50 POZ, circ to surface

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 Deana Weaver TITLE Regulatory Tech II DATE 3/15/2023

Type or print name Deana Weaver E-mail address: dweaver@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 30-015-49218	² Pool Code 51120	³ Pool Name Red Lake; Glorieta-Yeso
⁴ Property Code 329504	⁵ Property Name LEAVITT 13	⁶ Well Number 6H
⁷ OGRID No. 330211	⁸ Operator Name REDWOOD OPERATING, LLC	⁹ Elevation 3292.0

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	717	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		1650	SOUTH	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.

NW CORNER SEC. 13 LAT. = 32.7551551°N LONG. = 104.3439789°W NMSP EAST (FT) N = 638457.46 E = 538064.84 N/4 CORNER SEC. 13 LAT. = 32.7552253°N LONG. = 104.3352170°W NMSP EAST (FT) N = 638482.83 E = 540758.42 SECTION CORNER LAT. = 32.7552947°N LONG. = 104.3264684°W NMSP EAST (FT) N = 638508.14 E = 543447.93 NE CORNER SEC. 18 LAT. = 32.7550455°N LONG. = 104.3091549°W NMSP EAST (FT) N = 638418.25 E = 548770.45 N/4 CORNER SEC. 18 SCALED		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. <i>Deana Weaver</i> 3/15/23 Signature Date Deana Weaver Printed Name dweaver@mec.com E-mail Address	
N89°27'37"E 2694.36 FT N89°27'39"E 2690.29 FT S89°01'57"E 2662.29 FT S89°01'57"E 2662.29 FT SEC. 13 W/4 CORNER SEC. 13 SCALED BOTTOM OF HOLE LTP BOTTOM OF HOLE LAT. = 32.7451189°N LONG. = 104.3439103°W NMSP EAST (FT) N = 634806.15 E = 538085.57 LAST TAKE POINT 1650' FSL, 100' FWL LAT. = 32.7451182°N LONG. = 104.3435883°W NMSP EAST (FT) N = 634805.90 E = 538184.55 QUARTER CORNER SCALED 717' 2528' SURFACE LOCATION LEAVITT 13 6H ELEV. = 3292.0' LAT. = 32.7474959°N (NAD83) LONG. = 104.3242467°W NMSP EAST (FT) N = 635670.90 E = 544131.15 SEC. 18 E/4 CORNER SEC. 18 LAT. = 32.7477901°N LONG. = 104.3093116°W NMSP EAST (FT) N = 635778.64 E = 548722.89 N89°51'28"W 2647.37 FT N89°53'05"W 2644.70 FT N89°54'47"W 2667.36 FT N89°54'47"W 2667.36 FT		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. MARCH 13, 2023 Date of Survey <i>ALIMON F. JARAMILLO</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 SURV. NO. 9190C	

Intent ☒ As Drilled ☐

API #		
Operator Name: REDWOOD OPERATING, LLC	Property Name: LEAVITT 13	Well Number 6H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	18	18S	27E	3	2528	SOUTH	717	WEST	EDDY
Latitude 32.7474959					Longitude 104.3242467				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	13	18S	26E		1650	SOUTH	100	EAST	EDDY
Latitude 32.7450868					Longitude 104.3269378				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	13	18S	26E		1650	SOUTH	100	WEST	EDDY
Latitude 32.7451182					Longitude 104.3435883				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

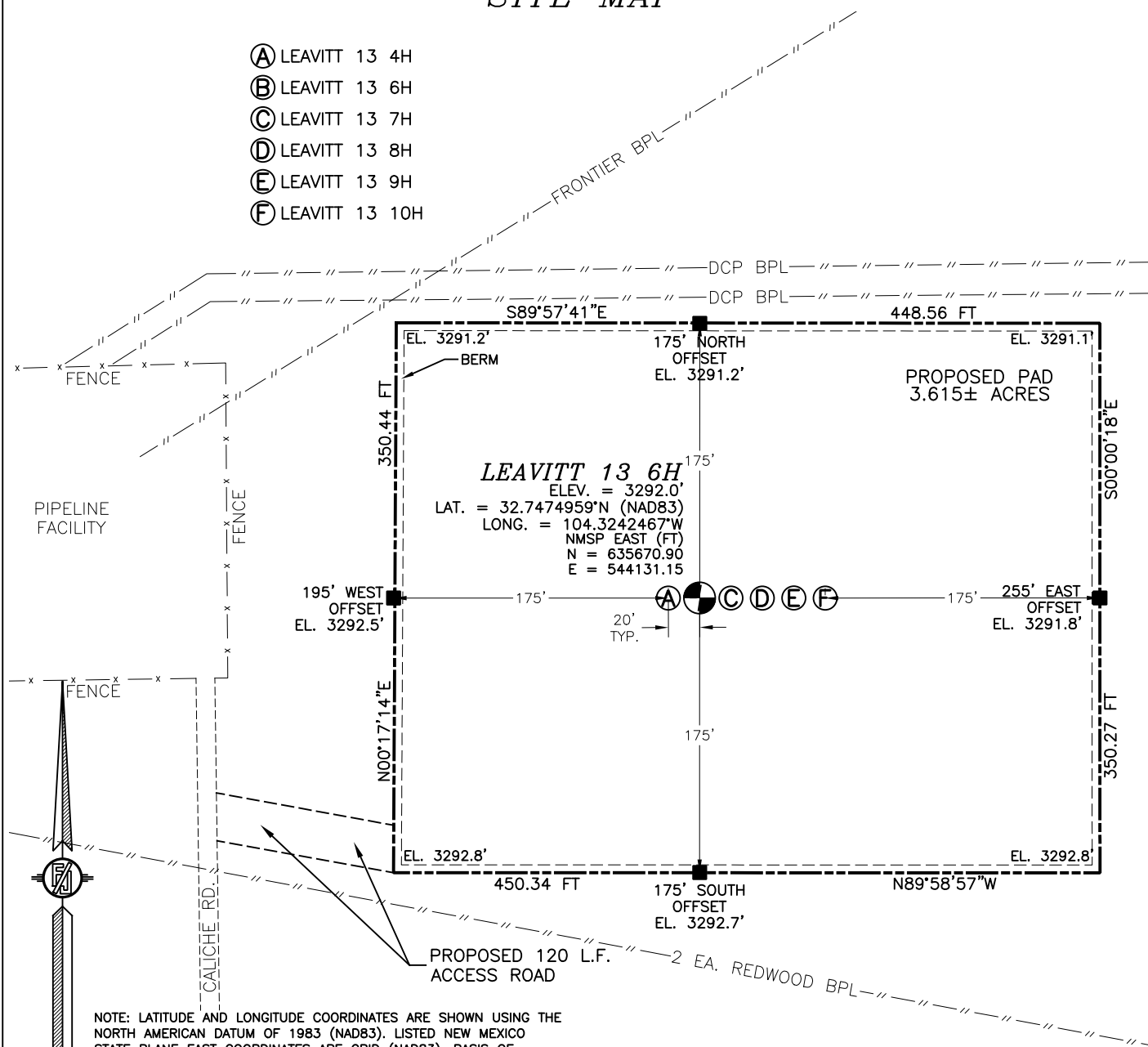
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SITE MAP

- Ⓐ LEAVITT 13 4H
- Ⓑ LEAVITT 13 6H
- Ⓒ LEAVITT 13 7H
- Ⓓ LEAVITT 13 8H
- Ⓔ LEAVITT 13 9H
- Ⓕ LEAVITT 13 10H



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. ELEVATION VALUES ARE NAVD88.

010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. 39 (FOUR DINKUS) & CO. RD. 44 (FANNING), GO EAST ON 25' CALICHE ROAD APPROX. 1 MILE, TURN RIGHT (SOUTH) ON 15' CALICHE ROAD AND GO SOUTH APPROX. 0.3 MILES, TURN LEFT (EAST) AND GO APPROX. 0.3 MILES, TURN RIGHT (SOUTH) ON 12' CALICHE ROAD AND GO APPROX. 0.25 MILES TO A PAD, AT THE SOUTHEAST PAD CORNER, FOLLOW ROAD SURVEY (SOUTHEAST) APPROX. 120' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, A NEW MEXICO LICENSED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT I HAVE COMPLIED WITH THE MINIMUM STANDARDS FOR SURVEYING IN THE STATE OF NEW MEXICO.

FILIMON F. JARAMILLO, P.S.

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

REDWOOD OPERATING, LLC
LEAVITT 13 6H

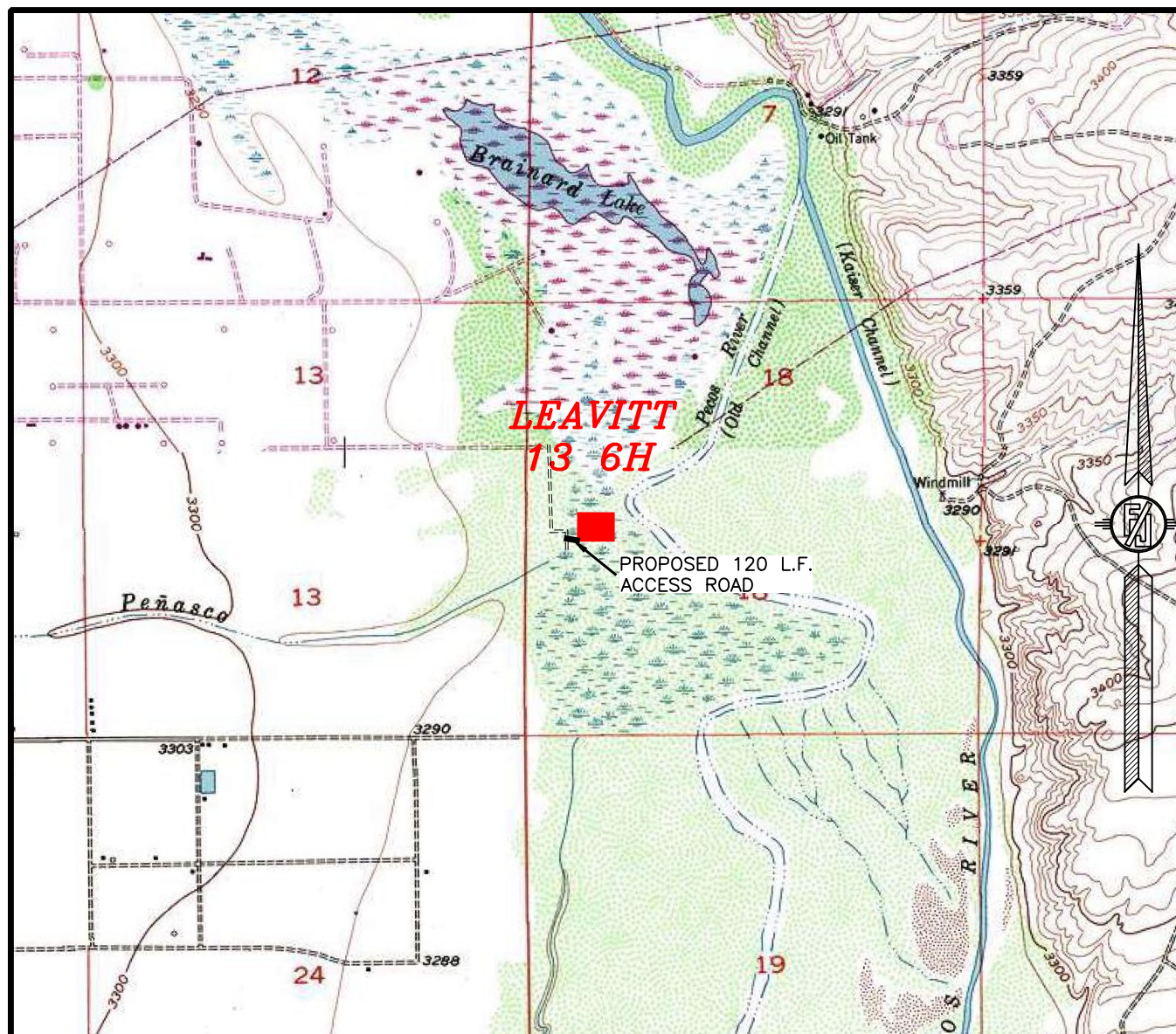
LOCATED 2528 FT. FROM THE 697 LINE
AND 717 FT. FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 13, 2023

SURVEY NO. 9190C

CARLSBAD, NEW MEXICO

SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 LAKE McMILLAN NORTH

NOT TO SCALE

REDWOOD OPERATING, LLC
LEAVITT 13 6H
 LOCATED 2528 FT. FROM THE 697 LINE
 AND 717 FT. FROM THE WEST LINE OF
 SECTION 18, TOWNSHIP 18 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

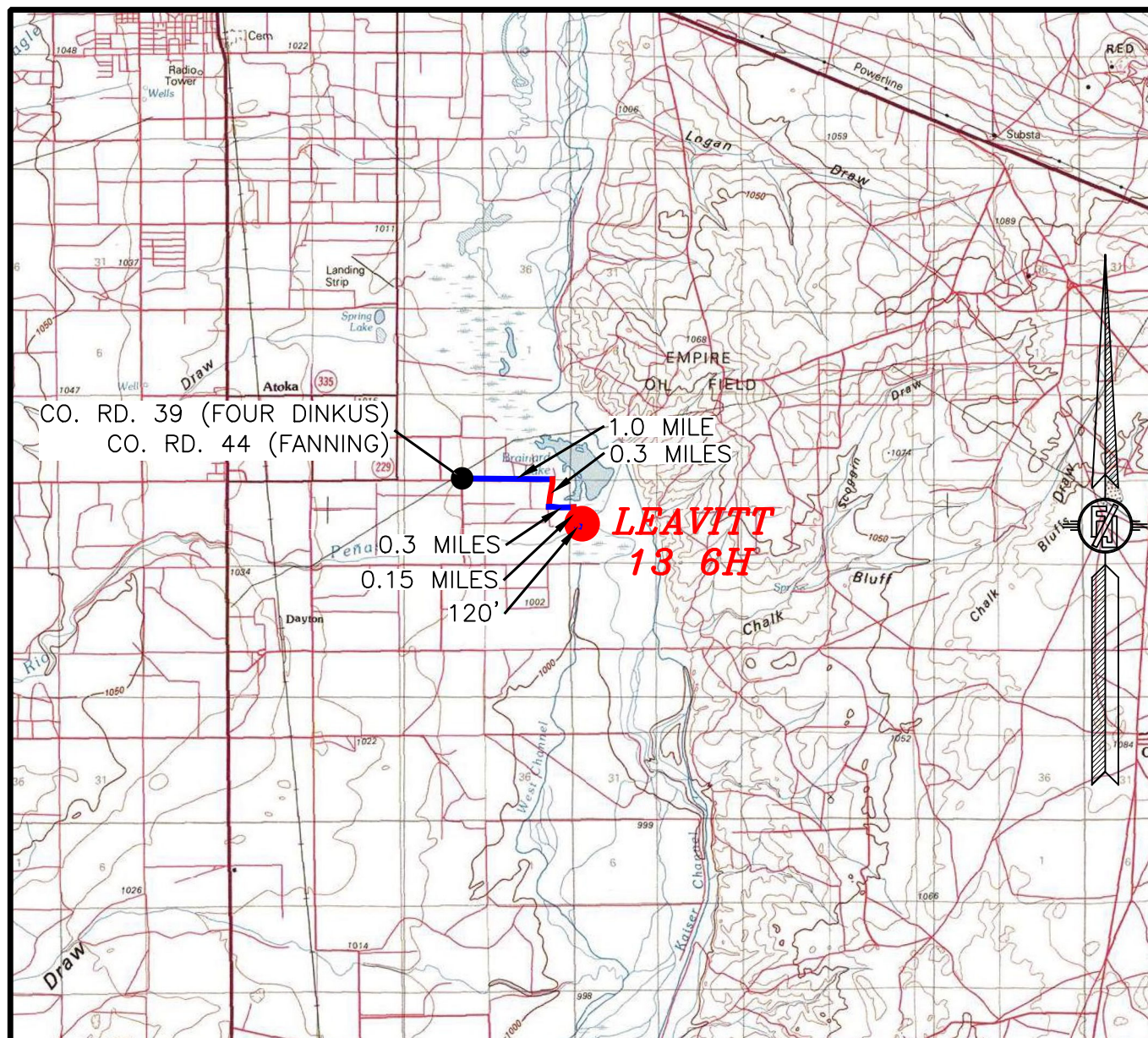
MARCH 13, 2023

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 9190C
 CARLSBAD, NEW MEXICO

SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. 39 (FOUR DINKUS) & CO. RD. 44 (FANNING), GO EAST ON 25' CALICHE ROAD APPROX. 1 MILE, TURN RIGHT (SOUTH) ON 15' CALICHE ROAD AND GO SOUTH APPROX. 0.3 MILES, TURN LEFT (EAST) AND GO APPROX. 0.3 MILES, TURN RIGHT (SOUTH) ON 12' CALICHE ROAD AND GO APPROX. 0.15 MILES TO A PAD, AT THE SOUTHEAST PAD CORNER, FOLLOW ROAD SURVEY SOUTHEAST APPROX. 120' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

REDWOOD OPERATING, LLC

LEAVITT 13 6H

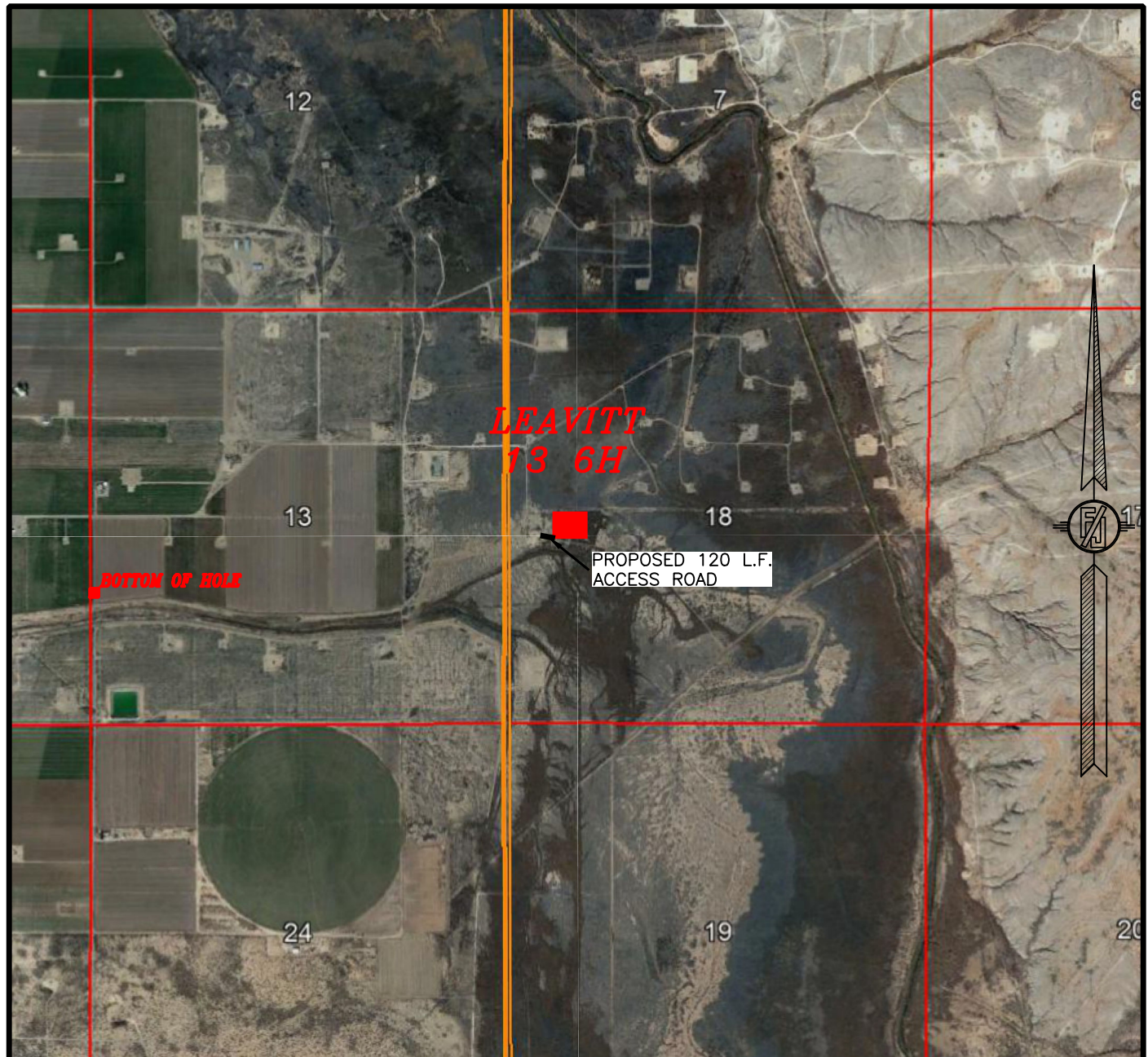
LOCATED 2528 FT. FROM THE 697 LINE
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 SECTION 18, TOWNSHIP 18 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 13, 2023

MADRON SURVEYING, INC. 301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 9190C
 CARLSBAD, NEW MEXICO

SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL PHOTO



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC 2019

REDWOOD OPERATING, LLC
 LEAVITT 13 6H
 LOCATED 2528 FT. FROM THE 697 LINE
 AND 717 FT. FROM THE WEST LINE OF
 SECTION 18, TOWNSHIP 18 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

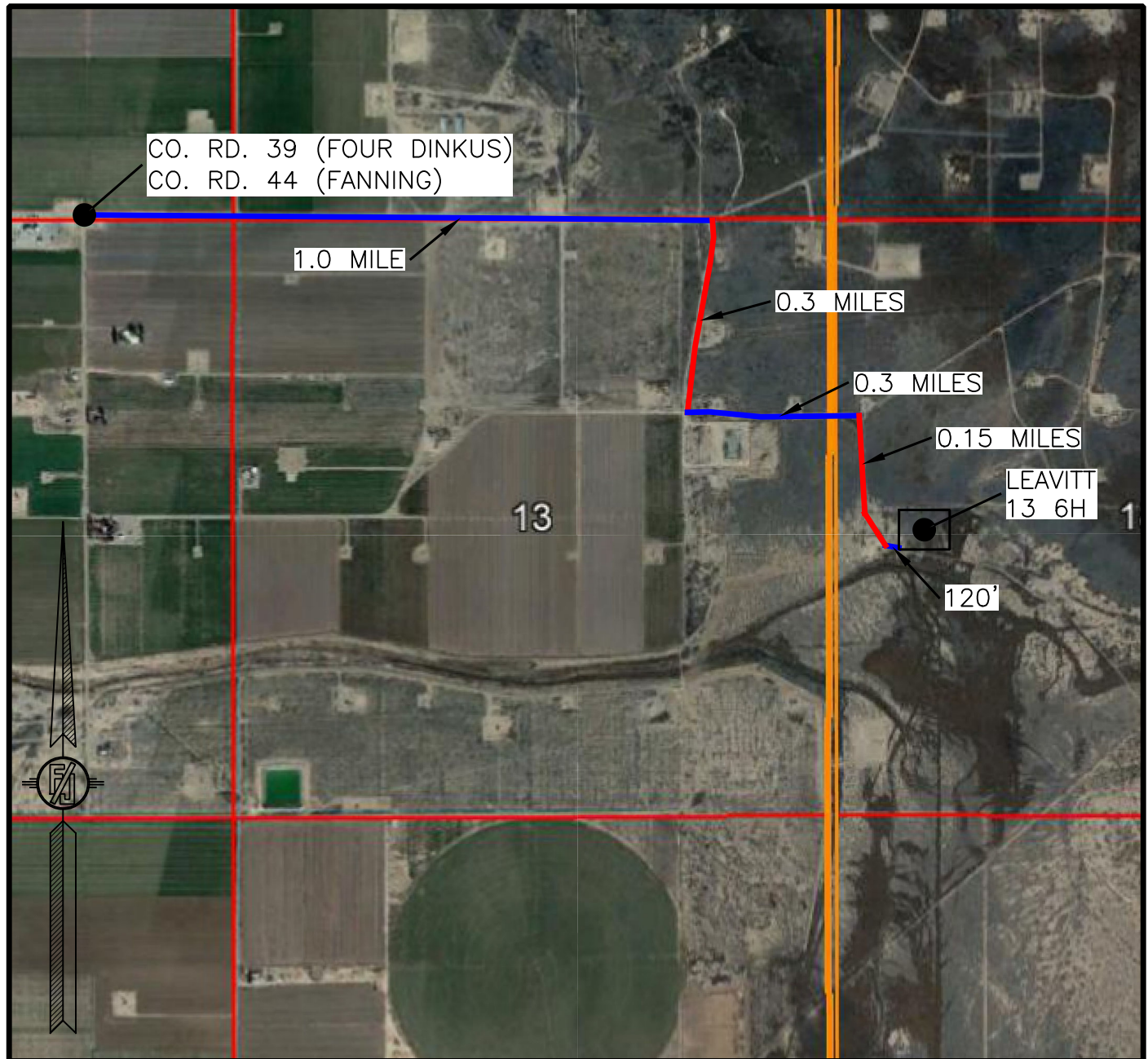
MARCH 13, 2023

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 9190C
 CARLSBAD, NEW MEXICO

SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL ACCESS ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC 2019

REDWOOD OPERATING, LLC
LEAVITT 13 6H
 LOCATED 2528 FT. FROM THE 697 LINE
 AND 717 FT. FROM THE WEST LINE OF
 SECTION 18, TOWNSHIP 18 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 13, 2023

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3341

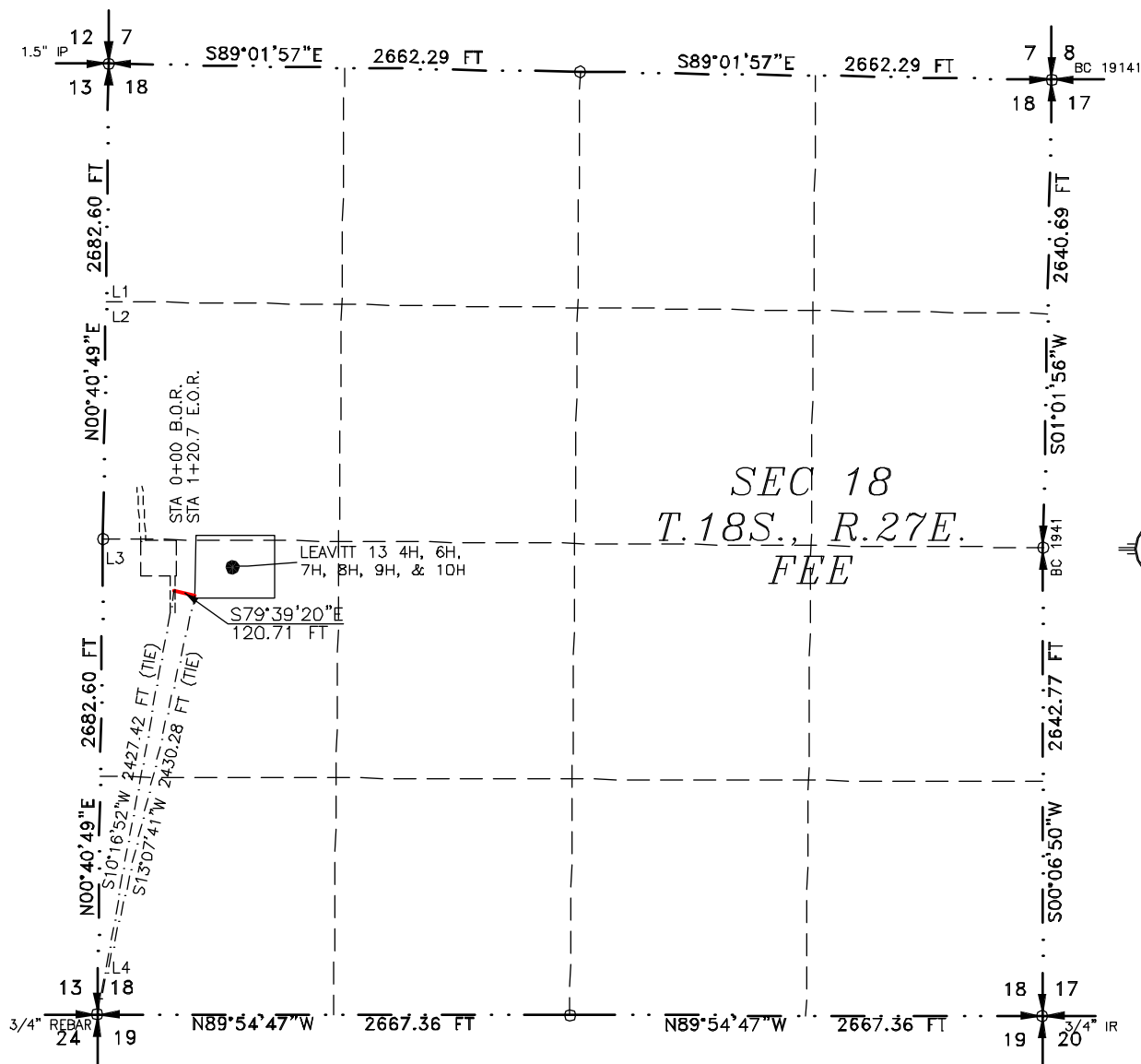
SURVEY NO. 9190C
 CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

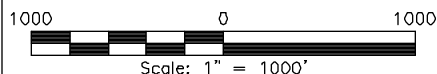
ACCESS ROAD FOR LEAVITT 13 4H, 6H, 7H, 8H, 9H, & 10H

REDWOOD OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 13, 2023



SEE NEXT SHEET (2-2) FOR DESCRIPTION

**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341
SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 13TH DAY OF MARCH 2023.

FILIMON F. JARAMILLO
 12797
 NEW MEXICO PROFESSIONAL SURVEYOR

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

SURVEY NO. 9190C

CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR LEAVITT 13 4H, 6H, 7H, 8H, 9H, & 10H

REDWOOD OPERATING, LLC

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 13, 2023**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN LOT 3 OF SAID SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S10°16'52"W, A DISTANCE OF 2427.42 FEET;
THENCE S79°39'20"E A DISTANCE OF 120.71 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 18, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S13°07'41"W, A DISTANCE OF 2430.28 FEET;

SAID STRIP OF LAND BEING 120.71 FEET OR 7.32 RODS IN LENGTH, CONTAINING 0.083 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

LOT 3 120.71 L.F. 7.32 RODS 0.083 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14th DAY OF MARCH 2023

FILIMON F. JARAMILLO, PLS
12797
301 SOUTH CANAL
(575) 234-3341
CARLSBAD, NEW MEXICO

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 9190C

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

Leavitt 13 6H, Plan 1

Operator	Redwood Operating LLC			Units	feet, °/100ft		10:27 Wednesday, March 15, 2023 Page 1 of 5				
Field	Red Lake			County	Chaves		Vertical Section Azimuth		269.87		
Well Name	Leavitt 13 6H			State	New Mexico		Survey Calculation Method		Minimum Curvature		
Plan	1			Country	USA		Database		Access		
Location	SL: 2528 FSL & 717 FWL Section 18-T18S-R27E BHL: 1650 FSL & 1 FWL Section 13-T18S-R26E					Map Zone	UTM		Lat Long Ref		
Site						Surface X	1848192.1		Surface Long		
Slot Name						Surface Y	11887443		Surface Lat		
Well Number	6H			API	30-015-49218		Surface Z	3310.5		Global Z Ref	KB
Project				MD/TVD Ref	KB		Ground Level	3292		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 = 2358.00)											
2358.00	0.00	0.0	2358.00	0.00	0.00		0.00	1848192.10	11887443.00	952.50	
2400.00	0.00	0.0	2400.00	0.00	0.00	0.00	0.00	1848192.10	11887443.00	910.50	
2450.00	0.00	0.0	2450.00	0.00	0.00	0.00	0.00	1848192.10	11887443.00	860.50	
*** KOP 8 DEGREES (at MD = 2458.00)											
2458.00	0.00	0.0	2458.00	0.00	0.00	0.00	0.00	1848192.10	11887443.00	852.50	
2500.00	3.36	193.6	2499.98	-1.20	-0.29	8.00	0.29	1848191.81	11887441.80	810.52	
2550.00	7.36	193.6	2549.75	-5.74	-1.39	8.00	1.40	1848190.71	11887437.26	760.75	
2600.00	11.36	193.6	2599.07	-13.64	-3.30	8.00	3.33	1848188.80	11887429.36	711.43	
2650.00	15.36	193.6	2647.71	-24.86	-6.02	8.00	6.07	1848186.08	11887418.14	662.79	
2700.00	19.36	193.6	2695.42	-39.36	-9.52	8.00	9.61	1848182.58	11887403.64	615.08	
2750.00	23.36	193.6	2741.98	-57.06	-13.80	8.00	13.93	1848178.30	11887385.94	568.52	
2800.00	27.36	193.6	2787.15	-77.87	-18.84	8.00	19.02	1848173.26	11887365.13	523.35	
2850.00	31.36	193.6	2830.72	-101.69	-24.60	8.00	24.83	1848167.50	11887341.31	479.78	
2900.00	35.36	193.6	2872.47	-128.41	-31.07	8.00	31.36	1848161.03	11887314.59	438.03	
2950.00	39.36	193.6	2912.21	-157.90	-38.20	8.00	38.56	1848153.90	11887285.10	398.29	
3000.00	43.36	193.6	2949.73	-190.00	-45.97	8.00	46.40	1848146.13	11887253.00	360.77	
3050.00	47.36	193.6	2984.85	-224.57	-54.33	8.00	54.84	1848137.77	11887218.43	325.65	
3100.00	51.36	193.6	3017.41	-261.44	-63.25	8.00	63.84	1848128.85	11887181.56	293.09	
*** 55 DEGREE TANGENT (at MD = 3145.50)											
3145.50	55.00	193.6	3044.67	-296.84	-71.81	8.00	72.49	1848120.29	11887146.16	265.83	
3150.00	55.00	193.6	3047.26	-300.42	-72.68	0.00	73.36	1848119.42	11887142.58	263.24	
3200.00	55.00	193.6	3075.93	-340.23	-82.31	0.00	83.08	1848109.79	11887102.77	234.57	
3250.00	55.00	193.6	3104.61	-380.04	-91.94	0.00	92.80	1848100.16	11887062.96	205.89	
3300.00	55.00	193.6	3133.29	-419.85	-101.57	0.00	102.52	1848090.53	11887023.15	177.21	
3350.00	55.00	193.6	3161.97	-459.66	-111.20	0.00	112.25	1848080.90	11886983.34	148.53	
*** 10 DEGREE BUILD (at MD = 3395.50)											
3395.50	55.00	193.6	3188.07	-495.89	-119.97	0.00	121.09	1848072.13	11886947.11	122.43	
3400.00	55.07	194.1	3190.65	-499.47	-120.85	10.00	121.98	1848071.25	11886943.53	119.85	
3450.00	56.06	200.1	3218.93	-538.85	-132.99	10.00	134.21	1848059.11	11886904.15	91.57	
3500.00	57.33	205.9	3246.40	-577.29	-149.31	10.00	150.62	1848042.79	11886865.71	64.10	
3550.00	58.86	211.5	3272.84	-614.50	-169.68	10.00	171.07	1848022.42	11886828.50	37.66	
3600.00	60.62	216.9	3298.05	-650.19	-193.95	10.00	195.42	1847998.15	11886792.81	12.45	
3650.00	62.59	222.1	3321.84	-684.09	-221.93	10.00	223.48	1847970.17	11886758.91	-11.34	
3700.00	64.75	227.2	3344.03	-715.94	-253.42	10.00	255.04	1847938.68	11886727.06	-33.53	
3750.00	67.07	232.0	3364.45	-745.51	-288.16	10.00	289.86	1847903.94	11886697.49	-53.95	
3800.00	69.54	236.7	3382.94	-772.56	-325.91	10.00	327.66	1847866.19	11886670.44	-72.44	
3850.00	72.13	241.2	3399.36	-796.90	-366.36	10.00	368.17	1847825.74	11886646.10	-88.86	

Leavitt 13 6H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	10:27 Wednesday, March 15, 2023	Page 2 of 5
Field	Red Lake	County	Chaves	Vertical Section Azimuth	269.87
Well Name	Leavitt 13 6H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SL: 2528 FSL & 717 FWL Section 18-T18S-R27E BHL: 1650 FSL & 1 FWL Section 13-T18S-R26E			Map Zone	UTM	Lat Long Ref	
Site				Surface X	1848192.1	Surface Long	
Slot Name		UWI		Surface Y	11887443	Surface Lat	
Well Number	6H	API	30-015-49218	Surface Z	3310.5	Global Z Ref	KB
Project		MD/TVD Ref	KB	Ground Level	3292	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
3900.00	74.81	245.6	3413.59	-818.33	-409.22	10.00	411.08	1847782.88	11886624.67	-103.09
3950.00	77.59	249.9	3425.52	-836.69	-454.15	10.00	456.05	1847737.95	11886606.31	-115.02
4000.00	80.42	254.1	3435.06	-851.84	-500.82	10.00	502.75	1847691.28	11886591.16	-124.56
4050.00	83.31	258.2	3442.13	-863.67	-548.87	10.00	550.83	1847643.23	11886579.33	-131.63
4100.00	86.23	262.3	3446.69	-872.09	-597.93	10.00	599.90	1847594.17	11886570.91	-136.19
4150.00	89.17	266.3	3448.70	-877.02	-647.63	10.00	649.61	1847544.47	11886565.98	-138.20
*** LANDING POINT (at MD = 4193.60)										
4193.60	91.74	269.9	3448.35	-878.46	-691.19	10.00	693.18	1847500.91	11886564.54	-137.85
4200.00	91.74	269.9	3448.15	-878.48	-697.59	0.00	699.58	1847494.51	11886564.52	-137.65
4250.00	91.74	269.9	3446.64	-878.59	-747.56	0.00	749.56	1847444.54	11886564.41	-136.14
4300.00	91.74	269.9	3445.12	-878.71	-797.54	0.00	799.53	1847394.56	11886564.29	-134.62
4350.00	91.74	269.9	3443.60	-878.82	-847.52	0.00	849.51	1847344.58	11886564.18	-133.10
4400.00	91.74	269.9	3442.08	-878.93	-897.49	0.00	899.49	1847294.61	11886564.07	-131.58
4450.00	91.74	269.9	3440.56	-879.05	-947.47	0.00	949.46	1847244.63	11886563.95	-130.06
4500.00	91.74	269.9	3439.05	-879.16	-997.45	0.00	999.44	1847194.65	11886563.84	-128.55
4550.00	91.74	269.9	3437.53	-879.27	-1047.43	0.00	1049.42	1847144.68	11886563.73	-127.03
4600.00	91.74	269.9	3436.01	-879.39	-1097.40	0.00	1099.39	1847094.70	11886563.61	-125.51
4650.00	91.74	269.9	3434.49	-879.50	-1147.38	0.00	1149.37	1847044.72	11886563.50	-123.99
4700.00	91.74	269.9	3432.97	-879.61	-1197.36	0.00	1199.35	1846994.74	11886563.39	-122.47
4750.00	91.74	269.9	3431.45	-879.73	-1247.33	0.00	1249.33	1846944.77	11886563.27	-120.95
4800.00	91.74	269.9	3429.94	-879.84	-1297.31	0.00	1299.30	1846894.79	11886563.16	-119.44
4850.00	91.74	269.9	3428.42	-879.95	-1347.29	0.00	1349.28	1846844.81	11886563.05	-117.92
4900.00	91.74	269.9	3426.90	-880.07	-1397.26	0.00	1399.26	1846794.84	11886562.93	-116.40
4950.00	91.74	269.9	3425.38	-880.18	-1447.24	0.00	1449.23	1846744.86	11886562.82	-114.88
5000.00	91.74	269.9	3423.86	-880.29	-1497.22	0.00	1499.21	1846694.88	11886562.71	-113.36
5050.00	91.74	269.9	3422.34	-880.41	-1547.19	0.00	1549.19	1846644.91	11886562.59	-111.84
5100.00	91.74	269.9	3420.83	-880.52	-1597.17	0.00	1599.16	1846594.93	11886562.48	-110.33
5150.00	91.74	269.9	3419.31	-880.63	-1647.15	0.00	1649.14	1846544.95	11886562.37	-108.81
5200.00	91.74	269.9	3417.79	-880.75	-1697.12	0.00	1699.12	1846494.98	11886562.25	-107.29
5250.00	91.74	269.9	3416.27	-880.86	-1747.10	0.00	1749.09	1846445.00	11886562.14	-105.77
5300.00	91.74	269.9	3414.75	-880.97	-1797.08	0.00	1799.07	1846395.02	11886562.03	-104.25
5350.00	91.74	269.9	3413.24	-881.09	-1847.05	0.00	1849.05	1846345.05	11886561.91	-102.74
5400.00	91.74	269.9	3411.72	-881.20	-1897.03	0.00	1899.03	1846295.07	11886561.80	-101.22
5450.00	91.74	269.9	3410.20	-881.31	-1947.01	0.00	1949.00	1846245.09	11886561.69	-99.70
5500.00	91.74	269.9	3408.68	-881.43	-1996.98	0.00	1998.98	1846195.12	11886561.57	-98.18
5550.00	91.74	269.9	3407.16	-881.54	-2046.96	0.00	2048.96	1846145.14	11886561.46	-96.66
5600.00	91.74	269.9	3405.64	-881.65	-2096.94	0.00	2098.93	1846095.16	11886561.35	-95.14

Leavitt 13 6H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	10:27 Wednesday, March 15, 2023	Page 3 of 5
Field	Red Lake	County	Chaves	Vertical Section Azimuth	269.87
Well Name	Leavitt 13 6H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 2528 FSL & 717 FWL Section 18-T18S-R27E BHL: 1650 FSL & 1 FWL Section 13-T18S-R26E			Map Zone	UTM
Site		Surface X	1848192.1	Surface Long	
Slot Name		Surface Y	11887443	Surface Lat	
Well Number	6H	Surface Z	3310.5	Global Z Ref	KB
Project		MD/TVD Ref	KB	Ground Level	3292
				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
5650.00	91.74	269.9	3404.13	-881.77	-2146.91	0.00	2148.91	1846045.19	11886561.23	-93.63
5700.00	91.74	269.9	3402.61	-881.88	-2196.89	0.00	2198.89	1845995.21	11886561.12	-92.11
5750.00	91.74	269.9	3401.09	-881.99	-2246.87	0.00	2248.86	1845945.23	11886561.01	-90.59
5800.00	91.74	269.9	3399.57	-882.11	-2296.85	0.00	2298.84	1845895.25	11886560.89	-89.07
5850.00	91.74	269.9	3398.05	-882.22	-2346.82	0.00	2348.82	1845845.28	11886560.78	-87.55
5900.00	91.74	269.9	3396.54	-882.33	-2396.80	0.00	2398.79	1845795.30	11886560.67	-86.04
5950.00	91.74	269.9	3395.02	-882.45	-2446.78	0.00	2448.77	1845745.32	11886560.55	-84.52
6000.00	91.74	269.9	3393.50	-882.56	-2496.75	0.00	2498.75	1845695.35	11886560.44	-83.00
6050.00	91.74	269.9	3391.98	-882.67	-2546.73	0.00	2548.73	1845645.37	11886560.33	-81.48
6100.00	91.74	269.9	3390.46	-882.79	-2596.71	0.00	2598.70	1845595.39	11886560.21	-79.96
6150.00	91.74	269.9	3388.94	-882.90	-2646.68	0.00	2648.68	1845545.42	11886560.10	-78.44
6200.00	91.74	269.9	3387.43	-883.01	-2696.66	0.00	2698.66	1845495.44	11886559.99	-76.93
6250.00	91.74	269.9	3385.91	-883.13	-2746.64	0.00	2748.63	1845445.46	11886559.87	-75.41
6300.00	91.74	269.9	3384.39	-883.24	-2796.61	0.00	2798.61	1845395.49	11886559.76	-73.89
6350.00	91.74	269.9	3382.87	-883.35	-2846.59	0.00	2848.59	1845345.51	11886559.65	-72.37
6400.00	91.74	269.9	3381.35	-883.47	-2896.57	0.00	2898.56	1845295.53	11886559.53	-70.85
6450.00	91.74	269.9	3379.84	-883.58	-2946.54	0.00	2948.54	1845245.56	11886559.42	-69.34
6500.00	91.74	269.9	3378.32	-883.69	-2996.52	0.00	2998.52	1845195.58	11886559.31	-67.82
6550.00	91.74	269.9	3376.80	-883.81	-3046.50	0.00	3048.50	1845145.60	11886559.19	-66.30
6600.00	91.74	269.9	3375.28	-883.92	-3096.47	0.00	3098.47	1845095.63	11886559.08	-64.78
6650.00	91.74	269.9	3373.76	-884.04	-3146.45	0.00	3148.45	1845045.65	11886558.97	-63.26
6700.00	91.74	269.9	3372.24	-884.15	-3196.43	0.00	3198.43	1844995.67	11886558.85	-61.74
6750.00	91.74	269.9	3370.73	-884.26	-3246.40	0.00	3248.40	1844945.70	11886558.74	-60.23
6800.00	91.74	269.9	3369.21	-884.38	-3296.38	0.00	3298.38	1844895.72	11886558.62	-58.71
6850.00	91.74	269.9	3367.69	-884.49	-3346.36	0.00	3348.36	1844845.74	11886558.51	-57.19
6900.00	91.74	269.9	3366.17	-884.60	-3396.34	0.00	3398.33	1844795.76	11886558.40	-55.67
6950.00	91.74	269.9	3364.65	-884.72	-3446.31	0.00	3448.31	1844745.79	11886558.28	-54.15
7000.00	91.74	269.9	3363.13	-884.83	-3496.29	0.00	3498.29	1844695.81	11886558.17	-52.63
7050.00	91.74	269.9	3361.62	-884.94	-3546.27	0.00	3548.26	1844645.83	11886558.06	-51.12
7100.00	91.74	269.9	3360.10	-885.06	-3596.24	0.00	3598.24	1844595.86	11886557.94	-49.60
7150.00	91.74	269.9	3358.58	-885.17	-3646.22	0.00	3648.22	1844545.88	11886557.83	-48.08
7200.00	91.74	269.9	3357.06	-885.28	-3696.20	0.00	3698.20	1844495.90	11886557.72	-46.56
7250.00	91.74	269.9	3355.54	-885.40	-3746.17	0.00	3748.17	1844445.93	11886557.60	-45.04
7300.00	91.74	269.9	3354.03	-885.51	-3796.15	0.00	3798.15	1844395.95	11886557.49	-43.53
7350.00	91.74	269.9	3352.51	-885.62	-3846.13	0.00	3848.13	1844345.97	11886557.38	-42.01
7400.00	91.74	269.9	3350.99	-885.74	-3896.10	0.00	3898.10	1844296.00	11886557.26	-40.49
7450.00	91.74	269.9	3349.47	-885.85	-3946.08	0.00	3948.08	1844246.02	11886557.15	-38.97

Leavitt 13 6H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	10:27 Wednesday, March 15, 2023	Page 4 of 5
Field	Red Lake	County	Chaves	Vertical Section Azimuth	269.87
Well Name	Leavitt 13 6H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SL: 2528 FSL & 717 FWL Section 18-T18S-R27E BHL: 1650 FSL & 1 FWL Section 13-T18S-R26E	Map Zone	UTM	Lat Long Ref	
Site		Surface X	1848192.1	Surface Long	
Slot Name		Surface Y	11887443	Surface Lat	
Well Number	6H	Surface Z	3310.5	Global Z Ref	KB
Project		Ground Level	3292	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
7500.00	91.74	269.9	3347.95	-885.96	-3996.06	0.00	3998.06	1844196.04	11886557.04	-37.45
7550.00	91.74	269.9	3346.43	-886.08	-4046.03	0.00	4048.03	1844146.07	11886556.92	-35.93
7600.00	91.74	269.9	3344.92	-886.19	-4096.01	0.00	4098.01	1844096.09	11886556.81	-34.42
7650.00	91.74	269.9	3343.40	-886.30	-4145.99	0.00	4147.99	1844046.11	11886556.70	-32.90
7700.00	91.74	269.9	3341.88	-886.42	-4195.96	0.00	4197.96	1843996.14	11886556.58	-31.38
7750.00	91.74	269.9	3340.36	-886.53	-4245.94	0.00	4247.94	1843946.16	11886556.47	-29.86
7800.00	91.74	269.9	3338.84	-886.64	-4295.92	0.00	4297.92	1843896.18	11886556.36	-28.34
7850.00	91.74	269.9	3337.33	-886.76	-4345.89	0.00	4347.90	1843846.21	11886556.24	-26.83
7900.00	91.74	269.9	3335.81	-886.87	-4395.87	0.00	4397.87	1843796.23	11886556.13	-25.31
7950.00	91.74	269.9	3334.29	-886.98	-4445.85	0.00	4447.85	1843746.25	11886556.02	-23.79
8000.00	91.74	269.9	3332.77	-887.10	-4495.83	0.00	4497.83	1843696.27	11886555.90	-22.27
8050.00	91.74	269.9	3331.25	-887.21	-4545.80	0.00	4547.80	1843646.30	11886555.79	-20.75
8100.00	91.74	269.9	3329.73	-887.32	-4595.78	0.00	4597.78	1843596.32	11886555.68	-19.23
8150.00	91.74	269.9	3328.22	-887.44	-4645.76	0.00	4647.76	1843546.34	11886555.56	-17.72
8200.00	91.74	269.9	3326.70	-887.55	-4695.73	0.00	4697.73	1843496.37	11886555.45	-16.20
8250.00	91.74	269.9	3325.18	-887.66	-4745.71	0.00	4747.71	1843446.39	11886555.34	-14.68
8300.00	91.74	269.9	3323.66	-887.78	-4795.69	0.00	4797.69	1843396.41	11886555.22	-13.16
8350.00	91.74	269.9	3322.14	-887.89	-4845.66	0.00	4847.67	1843346.44	11886555.11	-11.64
8400.00	91.74	269.9	3320.63	-888.00	-4895.64	0.00	4897.64	1843296.46	11886555.00	-10.13
8450.00	91.74	269.9	3319.11	-888.12	-4945.62	0.00	4947.62	1843246.48	11886554.88	-8.61
8500.00	91.74	269.9	3317.59	-888.23	-4995.59	0.00	4997.60	1843196.51	11886554.77	-7.09
8550.00	91.74	269.9	3316.07	-888.34	-5045.57	0.00	5047.57	1843146.53	11886554.66	-5.57
8600.00	91.74	269.9	3314.55	-888.46	-5095.55	0.00	5097.55	1843096.55	11886554.54	-4.05
8650.00	91.74	269.9	3313.03	-888.57	-5145.52	0.00	5147.53	1843046.58	11886554.43	-2.53
8700.00	91.74	269.9	3311.52	-888.68	-5195.50	0.00	5197.50	1842996.60	11886554.32	-1.02
8750.00	91.74	269.9	3310.00	-888.80	-5245.48	0.00	5247.48	1842946.62	11886554.20	0.50
8800.00	91.74	269.9	3308.48	-888.91	-5295.45	0.00	5297.46	1842896.65	11886554.09	2.02
8850.00	91.74	269.9	3306.96	-889.02	-5345.43	0.00	5347.43	1842846.67	11886553.98	3.54
8900.00	91.74	269.9	3305.44	-889.14	-5395.41	0.00	5397.41	1842796.69	11886553.86	5.06
8950.00	91.74	269.9	3303.93	-889.25	-5445.38	0.00	5447.39	1842746.72	11886553.75	6.57
9000.00	91.74	269.9	3302.41	-889.36	-5495.36	0.00	5497.37	1842696.74	11886553.64	8.09
9050.00	91.74	269.9	3300.89	-889.48	-5545.34	0.00	5547.34	1842646.76	11886553.52	9.61
9100.00	91.74	269.9	3299.37	-889.59	-5595.32	0.00	5597.32	1842596.78	11886553.41	11.13
9150.00	91.74	269.9	3297.85	-889.70	-5645.29	0.00	5647.30	1842546.81	11886553.30	12.65
9200.00	91.74	269.9	3296.33	-889.82	-5695.27	0.00	5697.27	1842496.83	11886553.18	14.17
9250.00	91.74	269.9	3294.82	-889.93	-5745.25	0.00	5747.25	1842446.85	11886553.07	15.68
9300.00	91.74	269.9	3293.30	-890.04	-5795.22	0.00	5797.23	1842396.88	11886552.96	17.20

Leavitt 13 6H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	10:27 Wednesday, March 15, 2023 Page 5 of 5	
Field	Red Lake	County	Chaves	Vertical Section Azimuth	269.87
Well Name	Leavitt 13 6H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 2528 FSL & 717 FWL Section 18-T18S-R27E BHL: 1650 FSL & 1 FWL Section 13-T18S-R26E		Map Zone	UTM	Lat Long Ref
Site		Surface X	1848192.1	Surface Long	
Slot Name		Surface Y	11887443	Surface Lat	
Well Number	6H	Surface Z	3310.5	Global Z Ref KB	
Project		Ground Level	3292	Local North Ref Grid	
	UWI				
	API	30-015-49218			
	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
9350.00	91.74	269.9	3291.78	-890.16	-5845.20	0.00	5847.20	1842346.90	11886552.84	18.72
9400.00	91.74	269.9	3290.26	-890.27	-5895.18	0.00	5897.18	1842296.92	11886552.73	20.24
9450.00	91.74	269.9	3288.74	-890.39	-5945.15	0.00	5947.16	1842246.95	11886552.61	21.76
*** TD (at MD = 9486.60)										
9486.60	91.74	269.9	3287.63	-890.47	-5981.73	0.00	5983.74	1842210.37	11886552.53	22.87

District I
1625 N. French Dr., Hobbs, NM 88240
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 197458

CONDITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 197458
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	3/17/2023