

Submit a 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

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.)		WELL API NO. 30-015-49487
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 P.O.Box 1370 Artesia, NM 88211-1370		7. Lease Name or Unit Agreement Name Elm Fee
4. Well Location Unit Letter <u>J</u> : <u>2455</u> feet from the <u>South</u> line and <u>2080</u> feet from the <u>East</u> line Section <u>16</u> Township <u>18S</u> Range <u>26E</u> NMPM County <u>Eddy</u>		8. Well Number <u>1H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3361.8' 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:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: ☐
Change to APD ☒	

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 the following Changes to the Elm Fee 1H APD-

FTP- Unit E, Sec. 15 T18S R26E 1650 FNL 100 FWL Eddy
 LTP- Unit H, Sec. 15 T18S R26E 1650 FNL 100 FEL Eddy
 BHL- Unit H, Sec. 15 T18S R26E 1650 FNL 1 FEL Eddy

Surface- Drill 12 1/4" hole to 1000'. RIH w/ 9 5/8" csg, 36#, J-55, ST&C to 1000'. Cmt w/ 200sx Class C, Tail w/ 300sx Class C to Surface.
 Production- Drill 8 3/4" hole to 9422'. RIH w/ 7" csg, 26#, L-80, LT&C 0-1000'. 7" csg, 26#, L-80, BTC 1000-3575', 5 1/2" csg, 17#, L-80, BTC 3575-9422'. Cmt w/ 110sx 50/50 POZ, Tail w/ 2175sx 50/50 POZ 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 4/19/2023

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 30-015-49487		² Pool Code 51120	³ Pool Name Red Lake; Glorieta-Yeso	
⁴ Property Code 332796	⁵ Property Name ELM FEE			⁶ Well Number 1H
⁷ OGRID No. 330211	⁸ Operator Name REDWOOD OPERATING, LLC			⁹ Elevation 3361.8

¹⁰ Surface Location

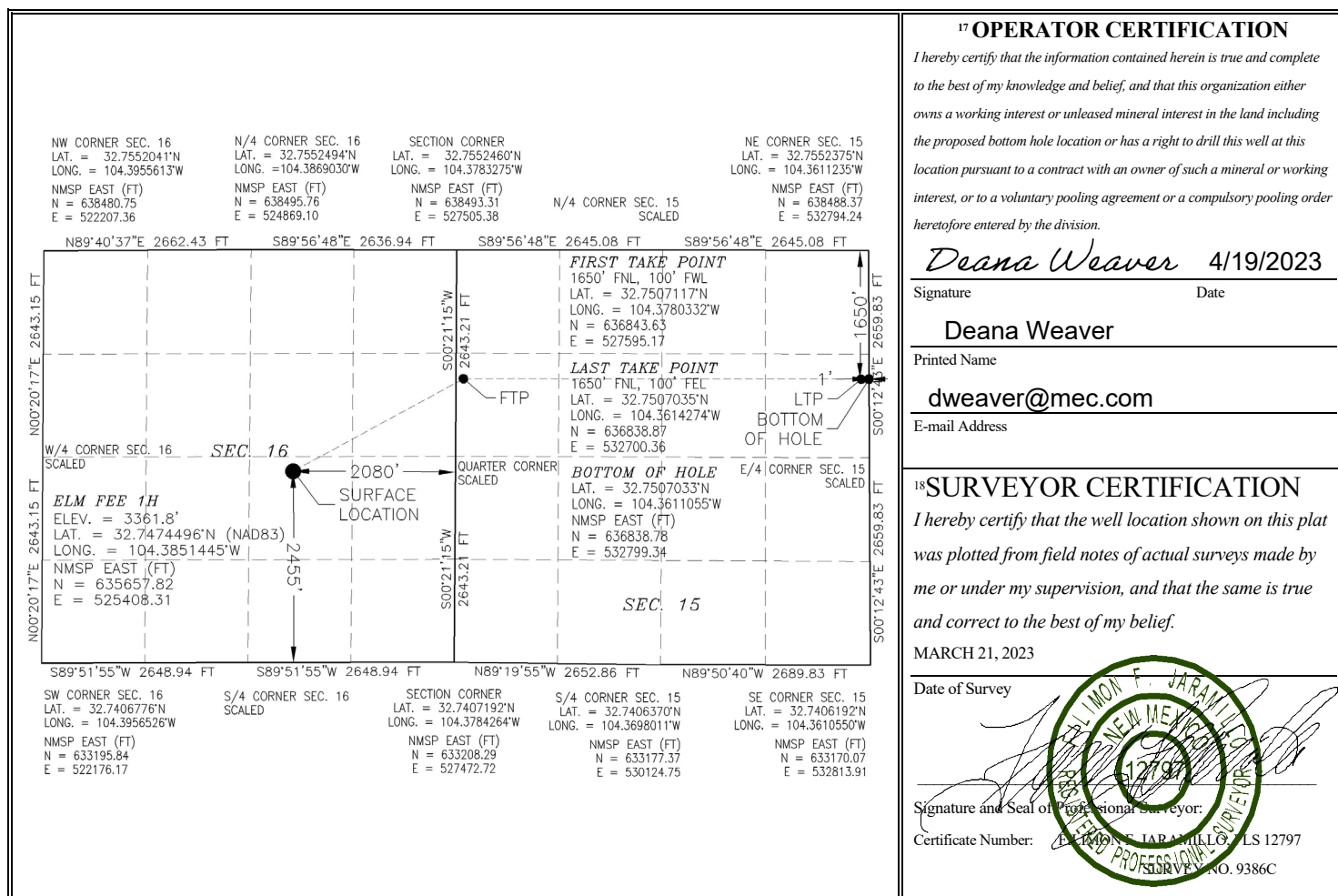
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	16	18 S	26 E		2455	SOUTH	2080	EAST	EDDY

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
H	15	18 S	26 E		1650	NORTH	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.



Intent ☒ ☒ As Drilled ☐

API #		
Operator Name: REDWOOD OPERATING, LLC	Property Name: ELM FEE	Well Number 1H

Kick Off Point (KOP)

UL J	Section 16	Township 18S	Range 26E	Lot	Feet 2455	From N/S SOUTH	Feet 2080	From E/W EAST	County EDDY
Latitude 32.7474496					Longitude 104.3851445			NAD 83	

First Take Point (FTP)

UL E	Section 15	Township 18S	Range 26E	Lot	Feet 1650	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.7507117					Longitude 104.3780332			NAD 83	

Last Take Point (LTP)

UL H	Section 15	Township 18S	Range 26E	Lot	Feet 1650	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.7507035					Longitude 104.3614274			NAD 83	

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

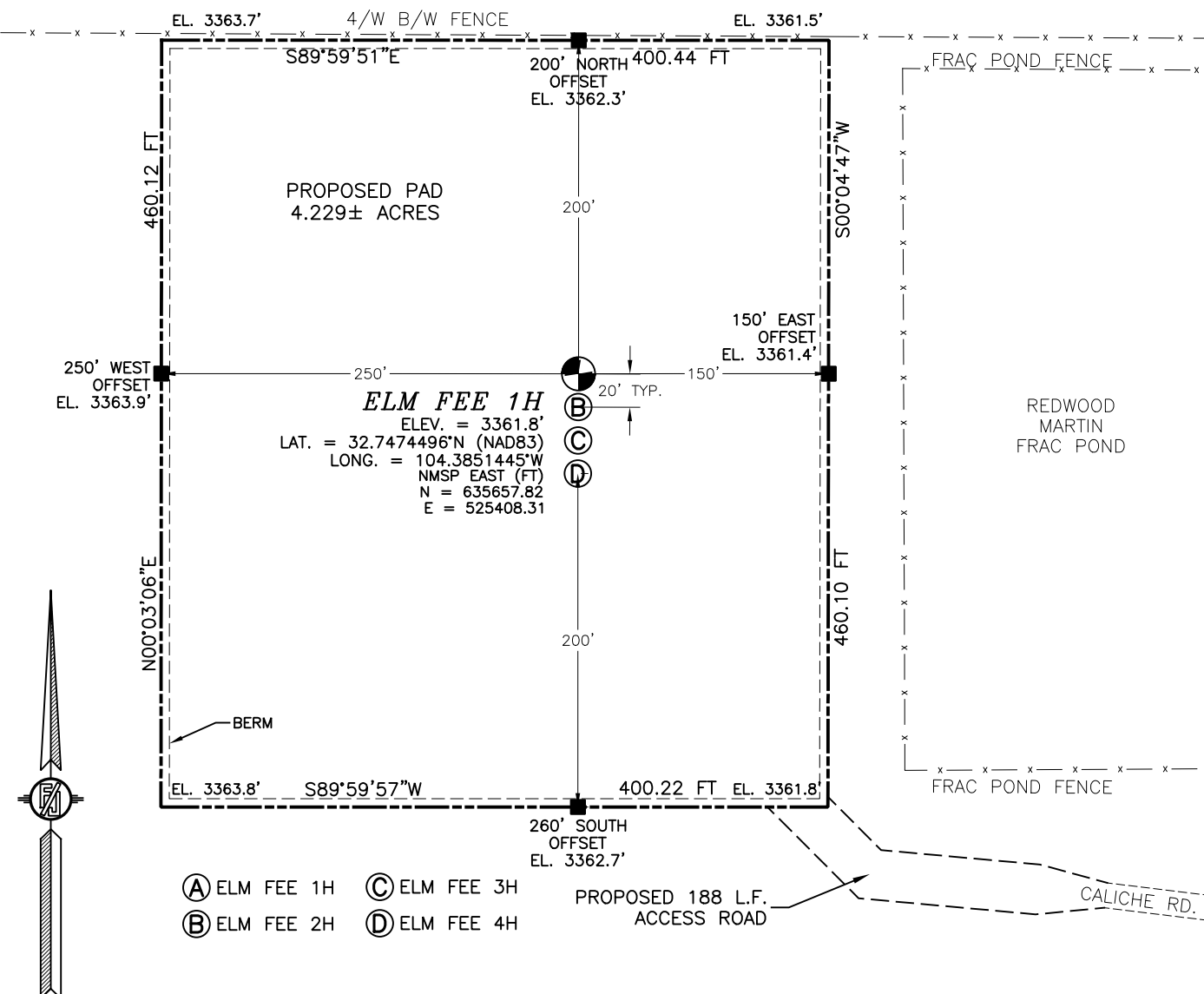
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 16, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP

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.



0 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

DIRECTIONS TO LOCATION
FROM THE INTERSECTION OF CO. RD. 39 (FOUR DINKUS) & CO. RD. 34 (LAKE), GO SOUTH ON CO. RD. 34 APPROX. 0.8 MILES, TURN RIGHT (WEST) ON CALICHE ROAD AND GO APPROX. .500', TURN RIGHT (NORTH) AND GO APPROX. .974', TURN LEFT AND GO WEST APPROX. 200' TO A ROAD SURVEY, FOLLOW ROAD SURVEY WEST 131' THEN NORTHWEST 57' TO THE SOUTHEAST 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 IS COMPLY AND ACCORD WITH THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO, PLS 118797

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3347

REDWOOD OPERATING, LLC
ELM FEE 1H

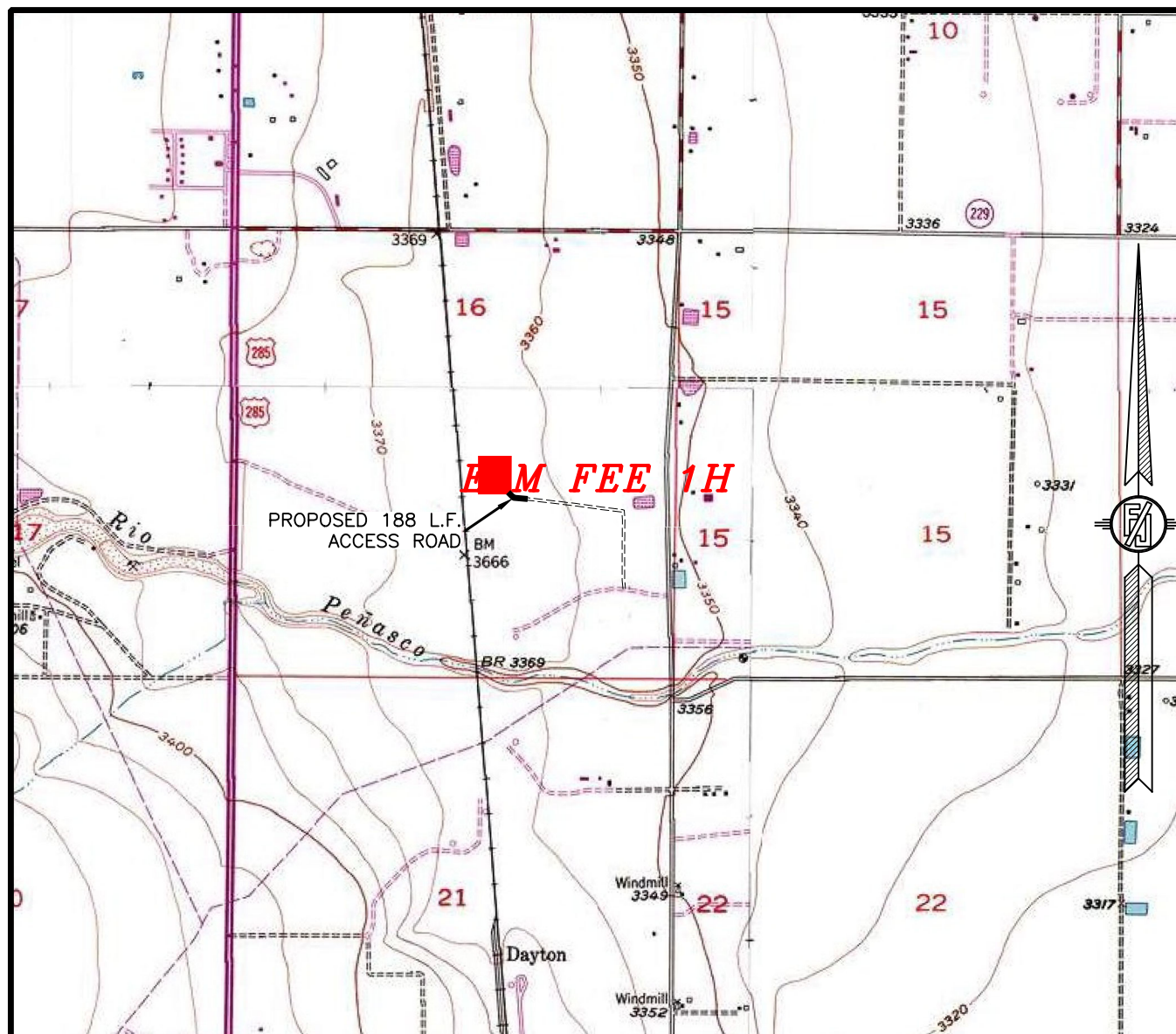
LOCATED 2455 FT. FROM THE SOUTH LINE
AND 2080 FT. FROM THE EAST LINE OF
SECTION 16, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 21, 2023

SURVEY NO. 9386C

CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 DAYTON ARTESIA

NOT TO SCALE

REDWOOD OPERATING, LLC
ELM FEE 1H
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 AND 2080 FT. FROM THE EAST LINE OF
 SECTION 16, TOWNSHIP 18 SOUTH,
 RANGE 26 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

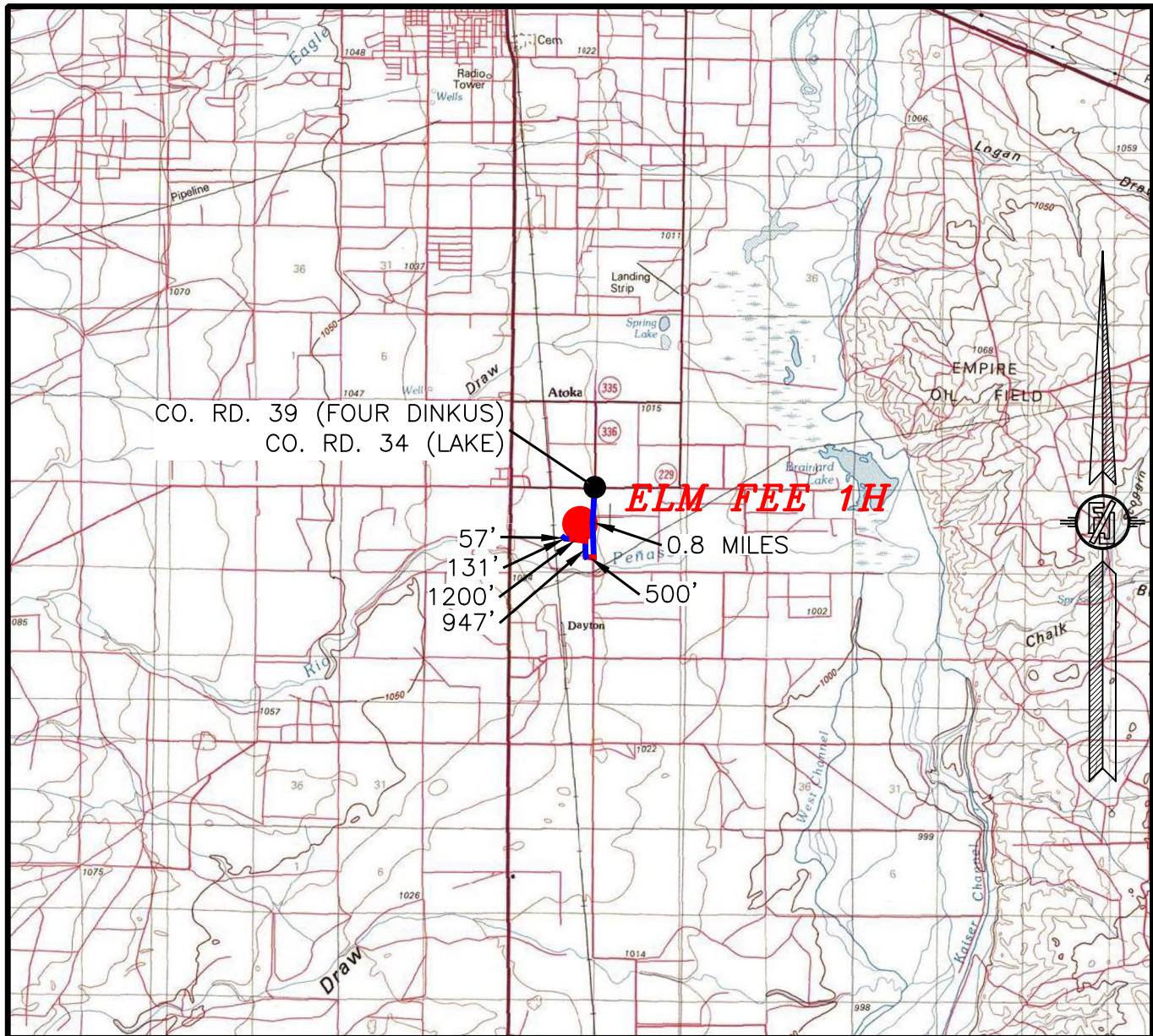
MARCH 21, 2023

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3347

SURVEY NO. 9386C
 CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 18 SOUTH, RANGE 26 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. 34 (LAKE), GO SOUTH ON CO. RD. 34 APPROX. 0.8 MILES, TURN RIGHT (WEST) ON CALICHE ROAD AND GO APPROX. 500', TURN RIGHT (NORTH) AND GO APPROX. 974', TURN LEFT AND GO WEST APPROX 1200' TO A ROAD SURVEY, FOLLOW ROAD SURVEY WEST 131' THEN NORTHWEST 57' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

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 EDDY COUNTY, STATE OF NEW MEXICO

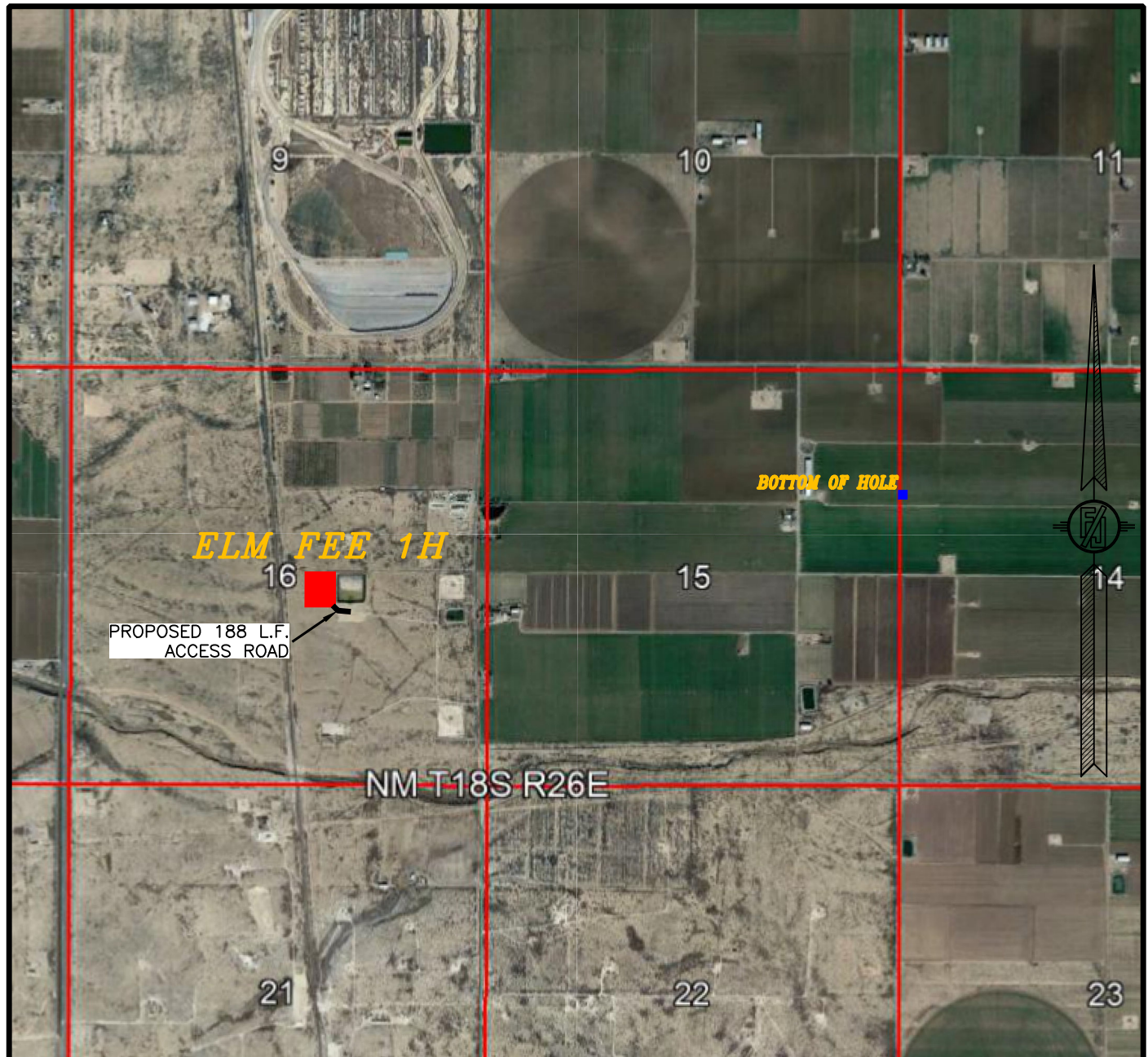
MARCH 21, 2023

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3347

SURVEY NO. 9386C
 CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 18 SOUTH, RANGE 26 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
ELM FEE 1H
 LOCATED 2455 FT. FROM THE SOUTH LINE
 AND 2080 FT. FROM THE EAST LINE OF
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 RANGE 26 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

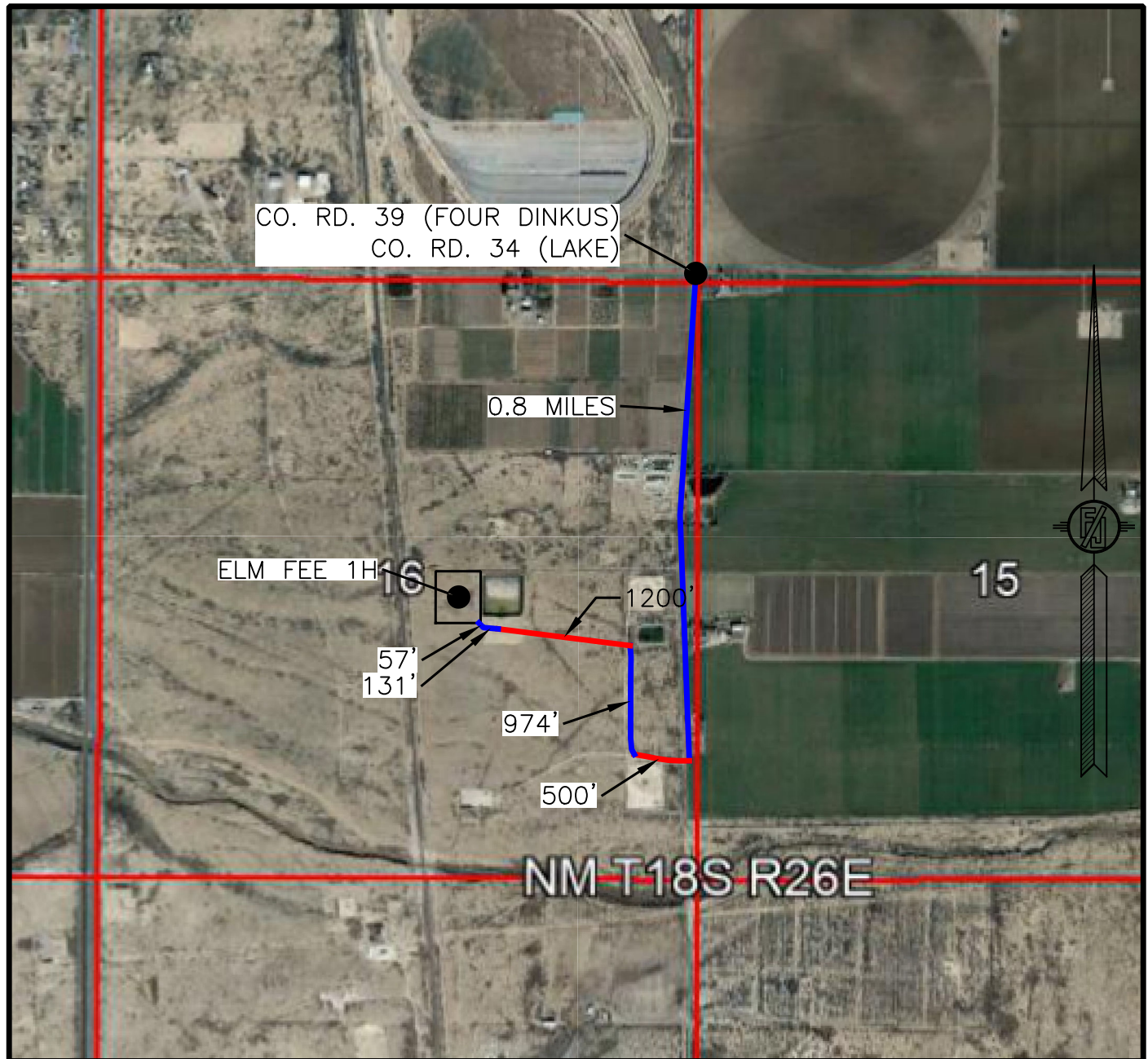
MARCH 21, 2023

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3347

SURVEY NO. 9386C
 CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 18 SOUTH, RANGE 26 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
ELM FEE 1H
 LOCATED 2455 FT. FROM THE SOUTH LINE
 AND 2080 FT. FROM THE EAST LINE OF
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 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 21, 2023

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3347

SURVEY NO. 9386C
 CARLSBAD, NEW MEXICO

Elm Fee #1H, Plan 1

Operator	Redwood Operating LLC			Units	feet, °/100ft		15:45 Tuesday, April 18, 2023 Page 1 of 5				
Field	Red Lake			County	Eddy		Vertical Section Azimuth	90.05			
Well Name	Elm Fee #1H			State	New Mexico		Survey Calculation Method	Minimum Curvature			
Plan	1			Country	USA		Database	Access			
Location	SL: 2455 FSL & 2080 FEL Section 16-T18S-R26E BHL: 1650 FNL & 1 FEL Section 15-T18S-R26E					Map Zone	UTM		Lat Long Ref		
Site						Surface X	1829639.7		Surface Long		
Slot Name						Surface Y	11887254.8		Surface Lat		
Well Number	1H			API			Surface Z	3379.8		Global Z Ref	KB
Project				MD/TVD Ref	KB		Ground Level	3361.8		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 = 1005.00)											
1005.00	0.00	0.0	1005.00	0.00	0.00			0.00	1829639.70	11887254.80	2374.80
1050.00	0.00	0.0	1050.00	0.00	0.00	0.00	0.00	0.00	1829639.70	11887254.80	2329.80
1100.00	0.00	0.0	1100.00	0.00	0.00	0.00	0.00	0.00	1829639.70	11887254.80	2279.80
*** KOP 8 DEGREES (at MD = 1105.00)											
1105.00	0.00	0.0	1105.00	0.00	0.00	0.00	0.00	0.00	1829639.70	11887254.80	2274.80
1150.00	3.60	53.5	1149.97	0.84	1.14	8.00	1.13	1829640.84	11887255.64	2229.83	
1200.00	7.60	53.5	1199.72	3.75	5.05	8.00	5.05	1829644.75	11887258.55	2180.08	
1250.00	11.60	53.5	1249.01	8.71	11.75	8.00	11.74	1829651.45	11887263.51	2130.79	
1300.00	15.60	53.5	1297.60	15.71	21.19	8.00	21.18	1829660.89	11887270.51	2082.20	
1350.00	19.60	53.5	1345.25	24.71	33.34	8.00	33.32	1829673.04	11887279.51	2034.55	
1400.00	23.60	53.5	1391.73	35.67	48.12	8.00	48.09	1829687.82	11887290.47	1988.07	
1450.00	27.60	53.5	1436.81	48.54	65.47	8.00	65.43	1829705.17	11887303.34	1942.99	
1500.00	31.60	53.5	1480.28	63.24	85.31	8.00	85.25	1829725.01	11887318.04	1899.52	
1550.00	35.60	53.5	1521.91	79.71	107.53	8.00	107.46	1829747.23	11887334.51	1857.89	
1600.00	39.60	53.5	1561.52	97.88	132.03	8.00	131.95	1829771.73	11887352.68	1818.28	
1650.00	43.60	53.5	1598.90	117.64	158.70	8.00	158.59	1829798.40	11887372.44	1780.90	
1700.00	47.60	53.5	1633.88	138.91	187.39	8.00	187.27	1829827.09	11887393.71	1745.92	
1750.00	51.60	53.5	1666.28	161.59	217.97	8.00	217.83	1829857.67	11887416.39	1713.52	
1800.00	55.60	53.5	1695.94	185.55	250.30	8.00	250.13	1829890.00	11887440.35	1683.86	
1850.00	59.60	53.5	1722.73	210.68	284.20	8.00	284.02	1829923.90	11887465.48	1657.07	
1900.00	63.60	53.5	1746.51	236.87	319.53	8.00	319.32	1829959.23	11887491.67	1633.29	
*** 65 DEGREE TANGENT (at MD = 1917.50)											
1917.50	65.00	53.5	1754.10	246.26	332.20	8.00	331.98	1829971.90	11887501.06	1625.70	
1950.00	65.00	53.5	1767.83	263.80	355.86	0.00	355.63	1829995.56	11887518.60	1611.97	
2000.00	65.00	53.5	1788.96	290.79	392.26	0.00	392.01	1830031.96	11887545.59	1590.84	
2050.00	65.00	53.5	1810.09	317.77	428.66	0.00	428.39	1830068.36	11887572.57	1569.71	
2100.00	65.00	53.5	1831.22	344.76	465.07	0.00	464.77	1830104.77	11887599.56	1548.58	
2150.00	65.00	53.5	1852.35	371.75	501.47	0.00	501.15	1830141.17	11887626.55	1527.45	
2200.00	65.00	53.5	1873.48	398.73	537.88	0.00	537.53	1830177.58	11887653.53	1506.32	
2250.00	65.00	53.5	1894.62	425.72	574.28	0.00	573.91	1830213.98	11887680.52	1485.18	
2300.00	65.00	53.5	1915.75	452.71	610.68	0.00	610.29	1830250.38	11887707.51	1464.05	
2350.00	65.00	53.5	1936.88	479.69	647.09	0.00	646.67	1830286.79	11887734.49	1442.92	
2400.00	65.00	53.5	1958.01	506.68	683.49	0.00	683.05	1830323.19	11887761.48	1421.79	
2450.00	65.00	53.5	1979.14	533.67	719.89	0.00	719.43	1830359.59	11887788.47	1400.66	
2500.00	65.00	53.5	2000.27	560.65	756.30	0.00	755.81	1830396.00	11887815.45	1379.53	
2550.00	65.00	53.5	2021.40	587.64	792.70	0.00	792.19	1830432.40	11887842.44	1358.40	
2600.00	65.00	53.5	2042.53	614.63	829.10	0.00	828.57	1830468.80	11887869.43	1337.27	

Elm Fee #1H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	15:45 Tuesday, April 18, 2023	Page 2 of 5
Field	Red Lake	County	Eddy	Vertical Section Azimuth	90.05
Well Name	Elm Fee #1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SL: 2455 FSL & 2080 FEL Section 16-T18S-R26E BHL: 1650 FNL & 1 FEL Section 15-T18S-R26E			Map Zone	UTM	Lat Long Ref	
Site				Surface X	1829639.7	Surface Long	
Slot Name		UWI		Surface Y	11887254.8	Surface Lat	
Well Number	1H	API		Surface Z	3379.8	Global Z Ref	KB
Project		MD/TVD Ref	KB	Ground Level	3361.8	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
2650.00	65.00	53.5	2063.66	641.61	865.51	0.00	864.95	1830505.21	11887896.41	1316.14
2700.00	65.00	53.5	2084.79	668.60	901.91	0.00	901.33	1830541.61	11887923.40	1295.01
2750.00	65.00	53.5	2105.92	695.58	938.31	0.00	937.71	1830578.01	11887950.38	1273.88
2800.00	65.00	53.5	2127.06	722.57	974.72	0.00	974.09	1830614.42	11887977.37	1252.74
2850.00	65.00	53.5	2148.19	749.56	1011.12	0.00	1010.47	1830650.82	11888004.36	1231.61
2900.00	65.00	53.5	2169.32	776.54	1047.53	0.00	1046.85	1830687.23	11888031.34	1210.48
2950.00	65.00	53.5	2190.45	803.53	1083.93	0.00	1083.23	1830723.63	11888058.33	1189.35
3000.00	65.00	53.5	2211.58	830.52	1120.33	0.00	1119.61	1830760.03	11888085.32	1168.22
3050.00	65.00	53.5	2232.71	857.50	1156.74	0.00	1155.99	1830796.44	11888112.30	1147.09
3100.00	65.00	53.5	2253.84	884.49	1193.14	0.00	1192.37	1830832.84	11888139.29	1125.96
3150.00	65.00	53.5	2274.97	911.48	1229.54	0.00	1228.75	1830869.24	11888166.28	1104.83
3200.00	65.00	53.5	2296.10	938.46	1265.95	0.00	1265.13	1830905.65	11888193.26	1083.70
3250.00	65.00	53.5	2317.23	965.45	1302.35	0.00	1301.51	1830942.05	11888220.25	1062.57
3300.00	65.00	53.5	2338.36	992.43	1338.75	0.00	1337.89	1830978.45	11888247.23	1041.44
3350.00	65.00	53.5	2359.50	1019.42	1375.16	0.00	1374.27	1831014.86	11888274.22	1020.30
3400.00	65.00	53.5	2380.63	1046.41	1411.56	0.00	1410.65	1831051.26	11888301.21	999.17
3450.00	65.00	53.5	2401.76	1073.39	1447.96	0.00	1447.03	1831087.66	11888328.19	978.04
3500.00	65.00	53.5	2422.89	1100.38	1484.37	0.00	1483.41	1831124.07	11888355.18	956.91
*** BUILD 16 DEGREE (at MD = 3517.50)										
3517.50	65.00	53.5	2430.28	1109.83	1497.11	0.00	1496.14	1831136.81	11888364.63	949.52
3550.00	67.60	58.4	2443.35	1126.49	1521.75	16.00	1520.77	1831161.45	11888381.29	936.45
3600.00	71.86	65.6	2460.69	1148.46	1563.13	16.00	1562.13	1831202.83	11888403.26	919.11
3650.00	76.39	72.5	2474.38	1165.64	1608.00	16.00	1606.99	1831247.70	11888420.44	905.42
3700.00	81.09	79.1	2484.15	1177.67	1655.50	16.00	1654.47	1831295.20	11888432.47	895.65
3750.00	85.91	85.5	2489.82	1184.34	1704.68	16.00	1703.65	1831344.38	11888439.14	889.98
*** LANDING POINT (at MD = 3785.92)										
3785.92	89.40	90.1	2491.29	1185.73	1740.53	16.00	1739.49	1831380.23	11888440.53	888.51
3800.00	89.40	90.1	2491.44	1185.72	1754.61	0.00	1753.58	1831394.31	11888440.52	888.36
3850.00	89.40	90.1	2491.96	1185.68	1804.61	0.00	1803.57	1831444.31	11888440.48	887.84
3900.00	89.40	90.1	2492.49	1185.63	1854.61	0.00	1853.57	1831494.31	11888440.43	887.31
3950.00	89.40	90.1	2493.01	1185.59	1904.60	0.00	1903.57	1831544.30	11888440.39	886.79
4000.00	89.40	90.1	2493.53	1185.55	1954.60	0.00	1953.56	1831594.30	11888440.35	886.27
4050.00	89.40	90.1	2494.06	1185.50	2004.60	0.00	2003.56	1831644.30	11888440.30	885.74
4100.00	89.40	90.1	2494.58	1185.46	2054.59	0.00	2053.56	1831694.29	11888440.26	885.22
4150.00	89.40	90.1	2495.11	1185.41	2104.59	0.00	2103.56	1831744.29	11888440.21	884.69
4200.00	89.40	90.1	2495.63	1185.37	2154.59	0.00	2153.55	1831794.29	11888440.17	884.17
4250.00	89.40	90.1	2496.15	1185.33	2204.59	0.00	2203.55	1831844.29	11888440.13	883.65
4300.00	89.40	90.1	2496.68	1185.28	2254.58	0.00	2253.55	1831894.28	11888440.08	883.12

Elm Fee #1H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	15:45 Tuesday, April 18, 2023	Page 3 of 5
Field	Red Lake	County	Eddy	Vertical Section Azimuth	90.05
Well Name	Elm Fee #1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SL: 2455 FSL & 2080 FEL Section 16-T18S-R26E BHL: 1650 FNL & 1 FEL Section 15-T18S-R26E			Map Zone	UTM	Lat Long Ref	
Site				Surface X	1829639.7	Surface Long	
Slot Name		UWI		Surface Y	11887254.8	Surface Lat	
Well Number	1H	API		Surface Z	3379.8	Global Z Ref	KB
Project		MD/TVD Ref	KB	Ground Level	3361.8	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
4350.00	89.40	90.1	2497.20	1185.24	2304.58	0.00	2303.55	1831944.28	11888440.04	882.60
4400.00	89.40	90.1	2497.72	1185.20	2354.58	0.00	2353.54	1831994.28	11888440.00	882.08
4450.00	89.40	90.1	2498.25	1185.15	2404.58	0.00	2403.54	1832044.28	11888439.95	881.55
4500.00	89.40	90.1	2498.77	1185.11	2454.57	0.00	2453.54	1832094.27	11888439.91	881.03
4550.00	89.40	90.1	2499.29	1185.07	2504.57	0.00	2503.53	1832144.27	11888439.87	880.51
4600.00	89.40	90.1	2499.82	1185.02	2554.57	0.00	2553.53	1832194.27	11888439.82	879.98
4650.00	89.40	90.1	2500.34	1184.98	2604.56	0.00	2603.53	1832244.26	11888439.78	879.46
4700.00	89.40	90.1	2500.86	1184.94	2654.56	0.00	2653.53	1832294.26	11888439.74	878.94
4750.00	89.40	90.1	2501.39	1184.89	2704.56	0.00	2703.52	1832344.26	11888439.69	878.41
4800.00	89.40	90.1	2501.91	1184.85	2754.56	0.00	2753.52	1832394.26	11888439.65	877.89
4850.00	89.40	90.1	2502.44	1184.80	2804.55	0.00	2803.52	1832444.25	11888439.60	877.36
4900.00	89.40	90.1	2502.96	1184.76	2854.55	0.00	2853.52	1832494.25	11888439.56	876.84
4950.00	89.40	90.1	2503.48	1184.72	2904.55	0.00	2903.51	1832544.25	11888439.52	876.32
5000.00	89.40	90.1	2504.01	1184.67	2954.54	0.00	2953.51	1832594.24	11888439.47	875.79
5050.00	89.40	90.1	2504.53	1184.63	3004.54	0.00	3003.51	1832644.24	11888439.43	875.27
5100.00	89.40	90.1	2505.05	1184.59	3054.54	0.00	3053.50	1832694.24	11888439.39	874.75
5150.00	89.40	90.1	2505.58	1184.54	3104.54	0.00	3103.50	1832744.24	11888439.34	874.22
5200.00	89.40	90.1	2506.10	1184.50	3154.53	0.00	3153.50	1832794.23	11888439.30	873.70
5250.00	89.40	90.1	2506.62	1184.46	3204.53	0.00	3203.50	1832844.23	11888439.26	873.18
5300.00	89.40	90.1	2507.15	1184.41	3254.53	0.00	3253.49	1832894.23	11888439.21	872.65
5350.00	89.40	90.1	2507.67	1184.37	3304.53	0.00	3303.49	1832944.23	11888439.17	872.13
5400.00	89.40	90.1	2508.19	1184.32	3354.52	0.00	3353.49	1832994.22	11888439.12	871.61
5450.00	89.40	90.1	2508.72	1184.28	3404.52	0.00	3403.49	1833044.22	11888439.08	871.08
5500.00	89.40	90.1	2509.24	1184.24	3454.52	0.00	3453.48	1833094.22	11888439.04	870.56
5550.00	89.40	90.1	2509.77	1184.19	3504.51	0.00	3503.48	1833144.21	11888438.99	870.03
5600.00	89.40	90.1	2510.29	1184.15	3554.51	0.00	3553.48	1833194.21	11888438.95	869.51
5650.00	89.40	90.1	2510.81	1184.11	3604.51	0.00	3603.47	1833244.21	11888438.91	868.99
5700.00	89.40	90.1	2511.34	1184.06	3654.51	0.00	3653.47	1833294.21	11888438.86	868.46
5750.00	89.40	90.1	2511.86	1184.02	3704.50	0.00	3703.47	1833344.20	11888438.82	867.94
5800.00	89.40	90.1	2512.38	1183.98	3754.50	0.00	3753.47	1833394.20	11888438.78	867.42
5850.00	89.40	90.1	2512.91	1183.93	3804.50	0.00	3803.46	1833444.20	11888438.73	866.89
5900.00	89.40	90.1	2513.43	1183.89	3854.49	0.00	3853.46	1833494.19	11888438.69	866.37
5950.00	89.40	90.1	2513.95	1183.84	3904.49	0.00	3903.46	1833544.19	11888438.64	865.85
6000.00	89.40	90.1	2514.48	1183.80	3954.49	0.00	3953.45	1833594.19	11888438.60	865.32
6050.00	89.40	90.1	2515.00	1183.76	4004.49	0.00	4003.45	1833644.19	11888438.56	864.80
6100.00	89.40	90.1	2515.53	1183.71	4054.48	0.00	4053.45	1833694.18	11888438.51	864.27
6150.00	89.40	90.1	2516.05	1183.67	4104.48	0.00	4103.45	1833744.18	11888438.47	863.75

Elm Fee #1H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	15:45 Tuesday, April 18, 2023	Page 4 of 5
Field	Red Lake	County	Eddy	Vertical Section Azimuth	90.05
Well Name	Elm Fee #1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SL: 2455 FSL & 2080 FEL Section 16-T18S-R26E BHL: 1650 FNL & 1 FEL Section 15-T18S-R26E	Map Zone	UTM	Lat Long Ref	
Site		Surface X	1829639.7	Surface Long	
Slot Name		Surface Y	11887254.8	Surface Lat	
Well Number	1H	Surface Z	3379.8	Global Z Ref	KB
Project		Ground Level	3361.8	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
6200.00	89.40	90.1	2516.57	1183.63	4154.48	0.00	4153.44	1833794.18	11888438.43	863.23
6250.00	89.40	90.1	2517.10	1183.58	4204.48	0.00	4203.44	1833844.18	11888438.38	862.70
6300.00	89.40	90.1	2517.62	1183.54	4254.47	0.00	4253.44	1833894.17	11888438.34	862.18
6350.00	89.40	90.1	2518.14	1183.50	4304.47	0.00	4303.44	1833944.17	11888438.30	861.66
6400.00	89.40	90.1	2518.67	1183.45	4354.47	0.00	4353.43	1833994.17	11888438.25	861.13
6450.00	89.40	90.1	2519.19	1183.41	4404.46	0.00	4403.43	1834044.16	11888438.21	860.61
6500.00	89.40	90.1	2519.71	1183.36	4454.46	0.00	4453.43	1834094.16	11888438.16	860.09
6550.00	89.40	90.1	2520.24	1183.32	4504.46	0.00	4503.42	1834144.16	11888438.12	859.56
6600.00	89.40	90.1	2520.76	1183.28	4554.46	0.00	4553.42	1834194.16	11888438.08	859.04
6650.00	89.40	90.1	2521.28	1183.23	4604.45	0.00	4603.42	1834244.15	11888438.03	858.52
6700.00	89.40	90.1	2521.81	1183.19	4654.45	0.00	4653.42	1834294.15	11888437.99	857.99
6750.00	89.40	90.1	2522.33	1183.15	4704.45	0.00	4703.41	1834344.15	11888437.95	857.47
6800.00	89.40	90.1	2522.86	1183.10	4754.45	0.00	4753.41	1834394.15	11888437.90	856.94
6850.00	89.40	90.1	2523.38	1183.06	4804.44	0.00	4803.41	1834444.14	11888437.86	856.42
6900.00	89.40	90.1	2523.90	1183.02	4854.44	0.00	4853.41	1834494.14	11888437.82	855.90
6950.00	89.40	90.1	2524.43	1182.97	4904.44	0.00	4903.40	1834544.14	11888437.77	855.37
7000.00	89.40	90.1	2524.95	1182.93	4954.43	0.00	4953.40	1834594.13	11888437.73	854.85
7050.00	89.40	90.1	2525.47	1182.88	5004.43	0.00	5003.40	1834644.13	11888437.68	854.33
7100.00	89.40	90.1	2526.00	1182.84	5054.43	0.00	5053.39	1834694.13	11888437.64	853.80
7150.00	89.40	90.1	2526.52	1182.80	5104.43	0.00	5103.39	1834744.13	11888437.60	853.28
7200.00	89.40	90.1	2527.04	1182.75	5154.42	0.00	5153.39	1834794.12	11888437.55	852.76
7250.00	89.40	90.1	2527.57	1182.71	5204.42	0.00	5203.39	1834844.12	11888437.51	852.23
7300.00	89.40	90.1	2528.09	1182.67	5254.42	0.00	5253.38	1834894.12	11888437.47	851.71
7350.00	89.40	90.1	2528.61	1182.62	5304.41	0.00	5303.38	1834944.11	11888437.42	851.19
7400.00	89.40	90.1	2529.14	1182.58	5354.41	0.00	5353.38	1834994.11	11888437.38	850.66
7450.00	89.40	90.1	2529.66	1182.54	5404.41	0.00	5403.38	1835044.11	11888437.34	850.14
7500.00	89.40	90.1	2530.19	1182.49	5454.41	0.00	5453.37	1835094.11	11888437.29	849.61
7550.00	89.40	90.1	2530.71	1182.45	5504.40	0.00	5503.37	1835144.10	11888437.25	849.09
7600.00	89.40	90.1	2531.23	1182.40	5554.40	0.00	5553.37	1835194.10	11888437.20	848.57
7650.00	89.40	90.1	2531.76	1182.36	5604.40	0.00	5603.36	1835244.10	11888437.16	848.04
7700.00	89.40	90.1	2532.28	1182.32	5654.40	0.00	5653.36	1835294.10	11888437.12	847.52
7750.00	89.40	90.1	2532.80	1182.27	5704.39	0.00	5703.36	1835344.09	11888437.07	847.00
7800.00	89.40	90.1	2533.33	1182.23	5754.39	0.00	5753.36	1835394.09	11888437.03	846.47
7850.00	89.40	90.1	2533.85	1182.19	5804.39	0.00	5803.35	1835444.09	11888436.99	845.95
7900.00	89.40	90.1	2534.37	1182.14	5854.38	0.00	5853.35	1835494.08	11888436.94	845.43
7950.00	89.40	90.1	2534.90	1182.10	5904.38	0.00	5903.35	1835544.08	11888436.90	844.90
8000.00	89.40	90.1	2535.42	1182.06	5954.38	0.00	5953.35	1835594.08	11888436.86	844.38

Elm Fee #1H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	15:45 Tuesday, April 18, 2023	Page 5 of 5
Field	Red Lake	County	Eddy	Vertical Section Azimuth	90.05
Well Name	Elm Fee #1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 2455 FSL & 2080 FEL Section 16-T18S-R26E BHL: 1650 FNL & 1 FEL Section 15-T18S-R26E			Map Zone	UTM
Site				Surface X	1829639.7
Slot Name				Surface Y	11887254.8
Well Number	1H	UWI		Surface Z	3379.8
Project		API		Ground Level	3361.8
		MD/TVD Ref	KB	Global Z Ref	KB
				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
8050.00	89.40	90.1	2535.95	1182.01	6004.38	0.00	6003.34	1835644.08	11888436.81	843.85
8100.00	89.40	90.1	2536.47	1181.97	6054.37	0.00	6053.34	1835694.07	11888436.77	843.33
8150.00	89.40	90.1	2536.99	1181.92	6104.37	0.00	6103.34	1835744.07	11888436.72	842.81
8200.00	89.40	90.1	2537.52	1181.88	6154.37	0.00	6153.33	1835794.07	11888436.68	842.28
8250.00	89.40	90.1	2538.04	1181.84	6204.37	0.00	6203.33	1835844.07	11888436.64	841.76
8300.00	89.40	90.1	2538.56	1181.79	6254.36	0.00	6253.33	1835894.06	11888436.59	841.24
8350.00	89.40	90.1	2539.09	1181.75	6304.36	0.00	6303.33	1835944.06	11888436.55	840.71
8400.00	89.40	90.1	2539.61	1181.71	6354.36	0.00	6353.32	1835994.06	11888436.51	840.19
8450.00	89.40	90.1	2540.13	1181.66	6404.35	0.00	6403.32	1836044.05	11888436.46	839.67
8500.00	89.40	90.1	2540.66	1181.62	6454.35	0.00	6453.32	1836094.05	11888436.42	839.14
8550.00	89.40	90.1	2541.18	1181.58	6504.35	0.00	6503.32	1836144.05	11888436.38	838.62
8600.00	89.40	90.1	2541.70	1181.53	6554.35	0.00	6553.31	1836194.05	11888436.33	838.10
8650.00	89.40	90.1	2542.23	1181.49	6604.34	0.00	6603.31	1836244.04	11888436.29	837.57
8700.00	89.40	90.1	2542.75	1181.44	6654.34	0.00	6653.31	1836294.04	11888436.24	837.05
8750.00	89.40	90.1	2543.28	1181.40	6704.34	0.00	6703.30	1836344.04	11888436.20	836.52
8800.00	89.40	90.1	2543.80	1181.36	6754.33	0.00	6753.30	1836394.03	11888436.16	836.00
8850.00	89.40	90.1	2544.32	1181.31	6804.33	0.00	6803.30	1836444.03	11888436.11	835.48
8900.00	89.40	90.1	2544.85	1181.27	6854.33	0.00	6853.30	1836494.03	11888436.07	834.95
8950.00	89.40	90.1	2545.37	1181.23	6904.33	0.00	6903.29	1836544.03	11888436.03	834.43
9000.00	89.40	90.1	2545.89	1181.18	6954.32	0.00	6953.29	1836594.02	11888435.98	833.91
9050.00	89.40	90.1	2546.42	1181.14	7004.32	0.00	7003.29	1836644.02	11888435.94	833.38
9100.00	89.40	90.1	2546.94	1181.10	7054.32	0.00	7053.28	1836694.02	11888435.90	832.86
9150.00	89.40	90.1	2547.46	1181.05	7104.32	0.00	7103.28	1836744.02	11888435.85	832.34
9200.00	89.40	90.1	2547.99	1181.01	7154.31	0.00	7153.28	1836794.01	11888435.81	831.81
9250.00	89.40	90.1	2548.51	1180.96	7204.31	0.00	7203.28	1836844.01	11888435.76	831.29
9300.00	89.40	90.1	2549.03	1180.92	7254.31	0.00	7253.27	1836894.01	11888435.72	830.77
9350.00	89.40	90.1	2549.56	1180.88	7304.30	0.00	7303.27	1836944.00	11888435.68	830.24
9400.00	89.40	90.1	2550.08	1180.83	7354.30	0.00	7353.27	1836994.00	11888435.63	829.72
*** TD (at MD = 9421.92)										
9421.92	89.40	90.1	2550.31	1180.81	7376.22	0.00	7375.19	1837015.92	11888435.61	829.49

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 209006

CONDITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 209006
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	OCD requires that cement be brought to surface on both strings of casing. If cement is not brought to surface during the cementing of the production casing, then a CBL is required to verify where the TOC is located and whether or not remedial cementing will be required.	9/27/2023