

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

NMOCD Rec'd: 10/09/2020

Form C-103

Revised July 18, 2013

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

WELL API NO. 30-015-46744
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Kaiser 18
8. Well Number 2H
9. OGRID Number 330211
10. Pool name or Wildcat Red Lake; Gloriet-Yeso
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3290.8' 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 P.O. Box 1370 Artesia, NM 88210
4. Well Location Unit Letter F : 1990 feet from the North line and 2008 feet from the West line Section 18 Township 18S Range 27E NMPM County Eddy, NM

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: Change to APD ☒	

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. request the following changes to the Kaiser 18 #2H

BHL- Unit E, Sec. 13 T18S R26E 2310 FNL 1 FWL Eddy County

Surface- Drill 12 1/4" hole to 1230', Run 9 5/8", 36#, J-55, ST&C csg to 1230', cmt with 450sx Class C to surface
Production- Drill 8 3/4" hole to 10,399', Run 7", 26#, L-80, LT&C csg 3300-10,399',
7", 26#, L-80, BT&C csg 2450-3300', 5 1/2", 17#, L-80, BT&C csg 0-2450', cmt with 200sx 35/65 Perlite,
1696sx PVL 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 Production Clerk DATE 10/8/2020

Type or print name Deana Weaver E-mail address: dweaver@mec.com PHONE: 575-748-1288

For State Use Only

APPROVED BY: John Garcia TITLE Petroleum Engineer DATE 11/3/2020

Conditions of Approval (if any):

KP 10/26/2020 GEO Review

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 30-015-46744	² Pool Code 51120	³ Pool Name Red Lake; Gloriet Yeso
⁴ Property Code 323060	⁵ Property Name KAISER 18	⁶ Well Number 2H
⁷ OGRID No. 330211	⁸ Operator Name REDWOOD OPERATING LLC	⁹ Elevation 3290.8

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
F	18	18 S	27 E		1990	NORTH	2008	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	13	18 S	26 E		2310	NORTH	1	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
200			

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.

Deana Weaver 10/9/2020

Signature Date

Deana Weaver

Printed Name
dweaver@mec.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

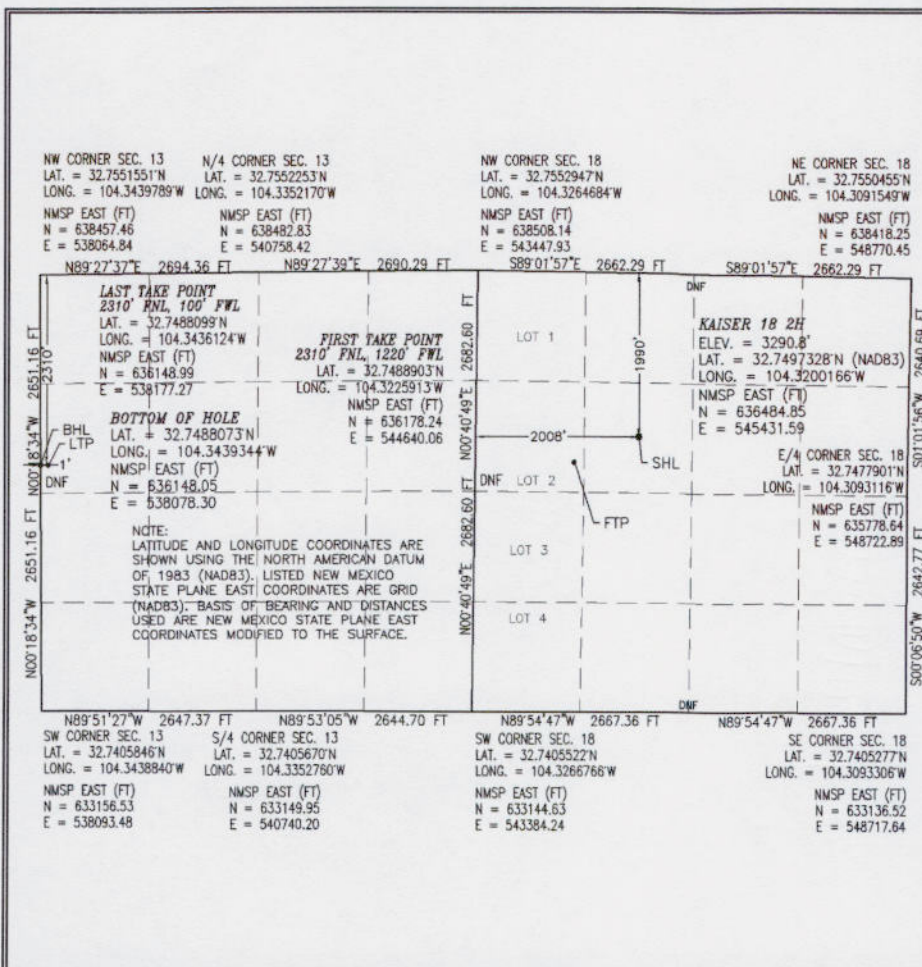
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 22, 2020

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number: 12797
Professional Surveyor No 7814A



Intent ☐ XXXX As Drilled ☐

API #

Operator Name:	Property Name:	Well Number
REDWOOD OPERATING LLC	KAISER 18	2H

Kick Off Point (KOP)

UL F	Section 18	Township 18S	Range 27E	Lot	Feet 1990	From N/S NORTH	Feet 2008	From E/W WEST	County EDDY
Latitude 32.7497328					Longitude 104.3200166			NAD 83	

First Take Point (FTP)

UL F	Section 18	Township 18S	Range 27E	Lot 2	Feet 2310	From N/S NORTH	Feet 1220	From E/W WEST	County EDDY
Latitude 32.7488903					Longitude 104.3225913			NAD 83	

Last Take Point (LTP)

UL E	Section 13	Township 18S	Range 26E	Lot	Feet 2310	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.7488099					Longitude 104.3436124			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.

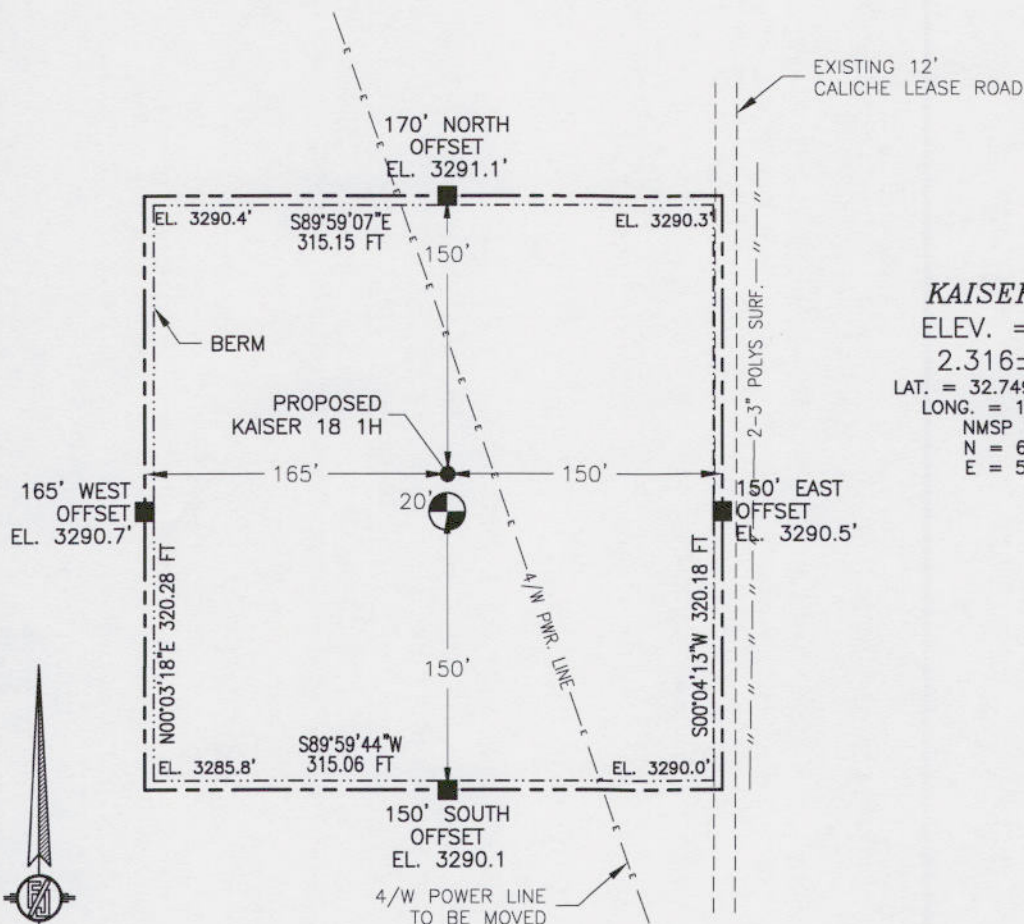
API #

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

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



KAISER 18 2H
ELEV. = 3290.8'
2.316± ACRES
LAT. = 32.7497328°N (NAD83)
LONG. = 104.3200166°W
NMSP EAST (FT)
N = 636484.85
E = 545431.59



010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR 39 (FOUR DINKUS) AND CR 44 (FANNING) GO EAST ON CALICHE ROAD 1.0 MILE, TURN RIGHT AND GO SOUTH 0.35 OF A MILE, TURN LEFT AND GO EAST 0.3 OF A MILE, BEND LEFT GO NORTHEAST 0.27 OF A MILE, TURN RIGHT GO SOUTH 523', TURN LEFT GO EAST 673', TURN RIGHT GO SOUTH 263' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I HAVE PERSONALLY AND INDEPENDENTLY CONDUCTED THIS SURVEY, THAT THIS SURVEY IS ACCURATE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF IT COMES WITHIN THE STANDARDS FOR THIS TYPE OF SURVEY.

MADISON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

REDWOOD OPERATING LLC
KAISER 18 2H

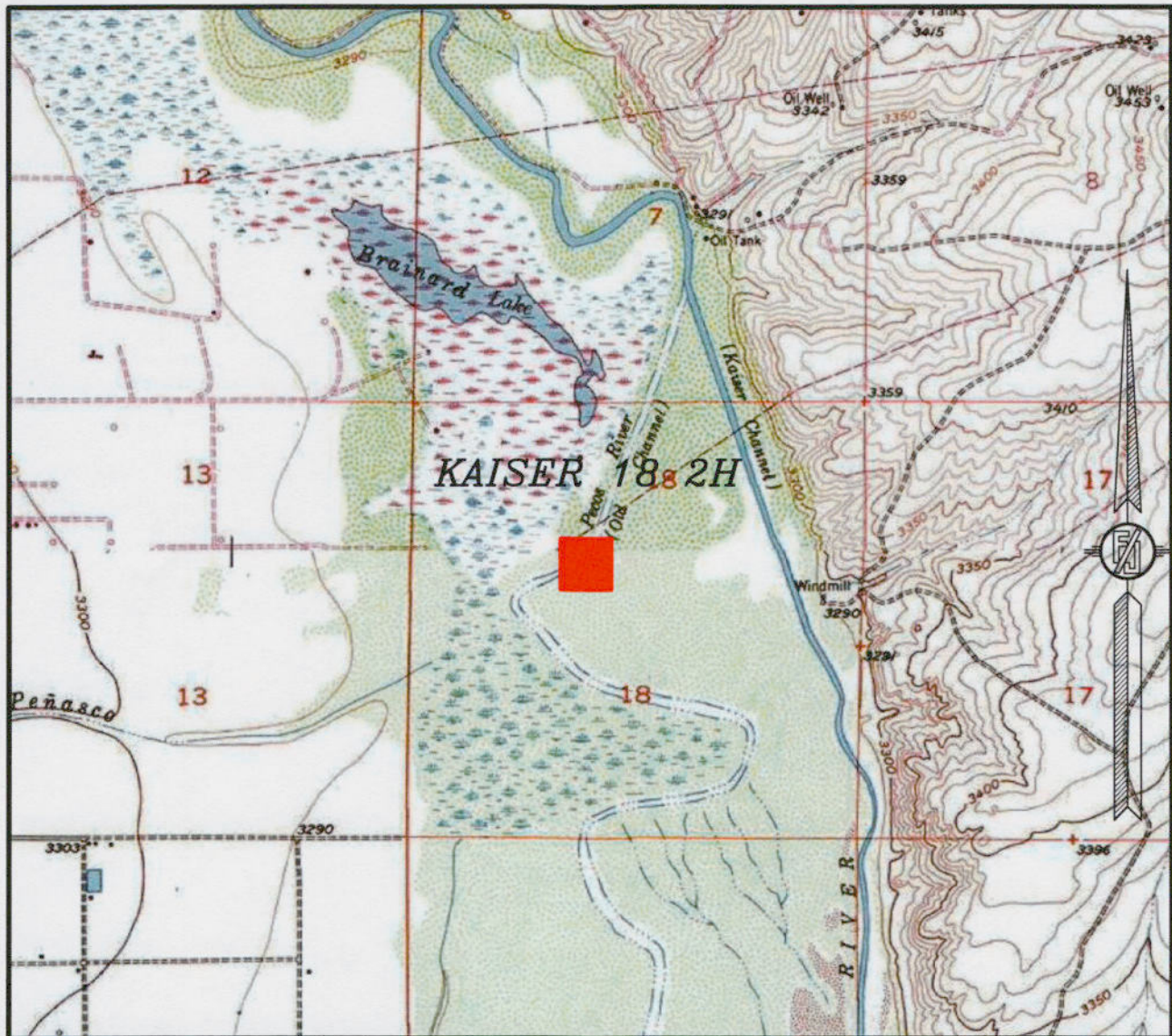
LOCATED 1990 FT. FROM THE NORTH LINE
AND 2008 FT. FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 22, 2020

SURVEY NO. 7814A

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:
 SPRING LAKE

NOT TO SCALE

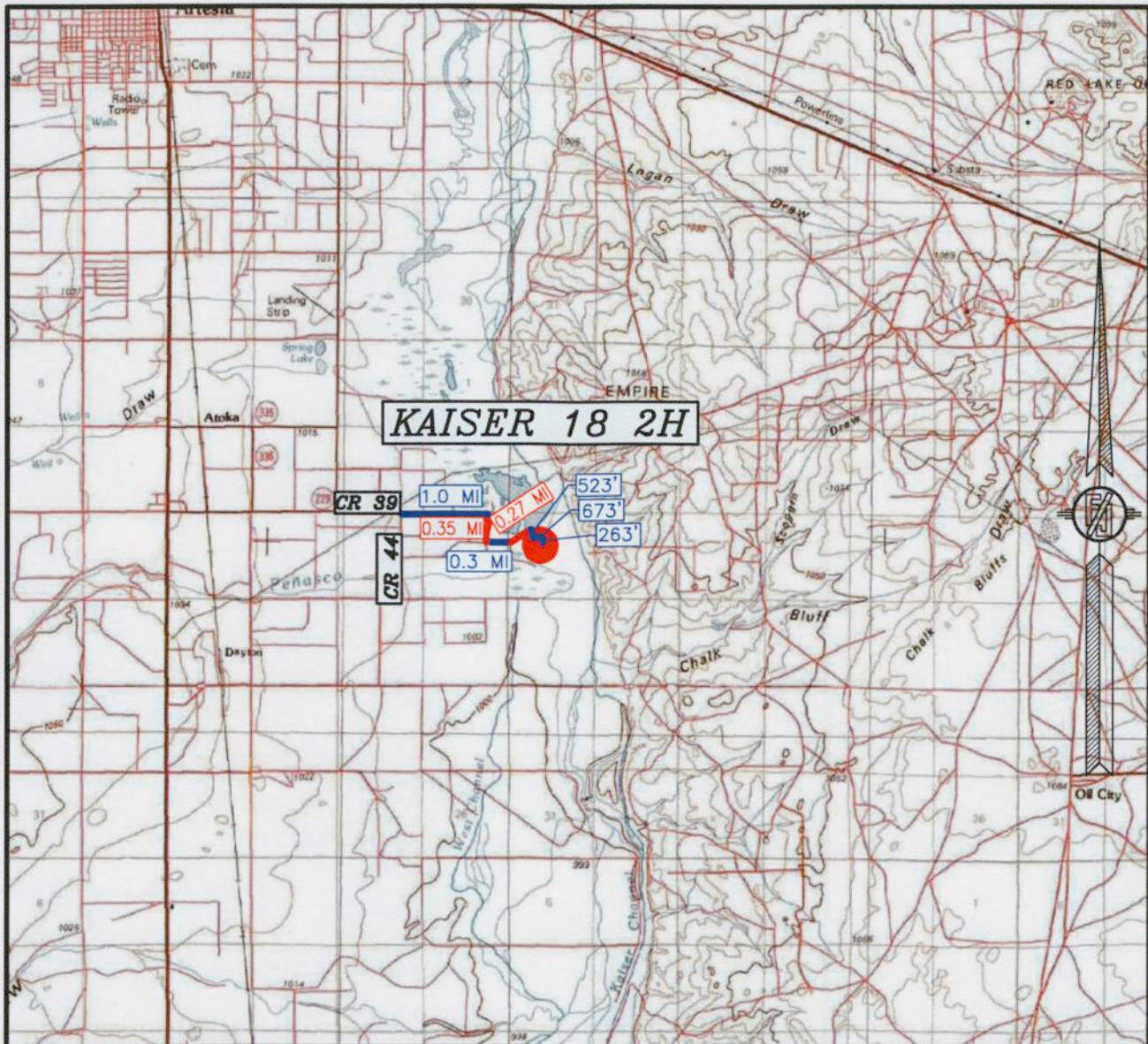
REDWOOD OPERATING LLC
KAISER 18 2H
 LOCATED 1990 FT. FROM THE NORTH LINE
 AND 2008 FT. FROM THE WEST LINE OF
 SECTION 18, TOWNSHIP 18 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 22, 2020

SURVEY NO. 7814A

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

REDWOOD OPERATING LLC
KAISER 18 2H

LOCATED 1990 FT. FROM THE NORTH LINE
AND 2008 FT. FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 22, 2020

DIRECTIONS TO LOCATION

FROM CR 39 (FOUR DINKUS) AND CR 44 (FANNING) GO EAST ON CALICHE ROAD 1.0 MILE, TURN RIGHT AND GO SOUTH 0.35 OF A MILE, TURN LEFT AND GO EAST 0.3 OF A MILE, BEND LEFT GO NORTHEAST 0.27 OF A MILE, TURN RIGHT GO SOUTH 523', TURN LEFT GO EAST 673', TURN RIGHT GO SOUTH 263' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

SURVEY NO. 7814A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 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
DECEMBER 2019

REDWOOD OPERATING LLC
KAISER 18 2H
LOCATED 1990 FT. FROM THE NORTH LINE
AND 2008 FT. FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 22, 2020

SURVEY NO. 7814A

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

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



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DECEMBER 2019

REDWOOD OPERATING LLC
KAISER 18 2H

LOCATED 1990 FT. FROM THE NORTH LINE
AND 2008 FT. FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 18 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 22, 2020

SURVEY NO. 7814A

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

Kaiser 18-2H, Plan 1

Operator	Units feet, °/100ft	16:11 Friday, October 02, 2020 Page 1 of
Field	County Eddy	Vertical Section Azimuth 269.74
Well Name Kaiser 18-2H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access
Location SL: 1990 FNL & 2008 FWL Section 18-T18S-R27E BHL: 2310 FNL & 1 FWL Section 13-T18S-27E	Map Zone UTM	Lat Long Ref
Site	Surface X 1849488.2	Surface Long
Slot Name	Surface Y 11888142.3	Surface Lat
Well Number	Surface Z 3308.8	Global Z Ref KB
Project	Ground Level 3290.8	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 = 2422.00)										
2422.00	0.00	0.0	2422.00	0.00	0.00		0.00	1849488.20	11888142.30	886.80
2450.00	0.00	0.0	2450.00	0.00	0.00	0.00	0.00	1849488.20	11888142.30	858.80
2500.00	0.00	0.0	2500.00	0.00	0.00	0.00	0.00	1849488.20	11888142.30	808.80
*** KOP 9 DEGREES (at MD = 2522.00)										
2522.00	0.00	0.0	2522.00	0.00	0.00	0.00	0.00	1849488.20	11888142.30	786.80
2550.00	2.24	241.7	2549.99	-0.26	-0.48	8.00	0.48	1849487.72	11888142.04	758.81
2600.00	6.24	241.7	2599.85	-2.01	-3.74	8.00	3.74	1849484.46	11888140.29	708.95
2650.00	10.24	241.7	2649.32	-5.41	-10.04	8.00	10.07	1849478.16	11888136.89	659.48
2700.00	14.24	241.7	2698.17	-10.44	-19.37	8.00	19.42	1849468.83	11888131.86	610.63
2750.00	18.24	241.7	2746.17	-17.07	-31.68	8.00	31.76	1849456.52	11888125.23	562.63
2800.00	22.24	241.7	2793.07	-25.27	-46.91	8.00	47.02	1849441.29	11888117.03	515.73
2850.00	26.24	241.7	2838.65	-35.00	-64.98	8.00	65.14	1849423.22	11888107.30	470.15
2900.00	30.24	241.7	2882.69	-46.22	-85.80	8.00	86.01	1849402.40	11888096.08	426.11
2950.00	34.24	241.7	2924.98	-58.87	-109.28	8.00	109.55	1849378.92	11888083.43	383.82
3000.00	38.24	241.7	2965.30	-72.88	-135.30	8.00	135.63	1849352.90	11888069.42	343.50
3050.00	42.24	241.7	3003.45	-88.20	-163.73	8.00	164.13	1849324.47	11888054.10	305.35
3100.00	46.24	241.7	3039.27	-104.74	-194.43	8.00	194.91	1849293.77	11888037.57	269.53
3150.00	50.24	241.7	3072.56	-122.42	-227.26	8.00	227.82	1849260.94	11888019.88	236.24
3200.00	54.24	241.7	3103.17	-141.16	-262.06	8.00	262.69	1849226.14	11888001.14	205.63
*** 55 DEGREE TANGENT (at MD = 3209.50)										
3209.50	55.00	241.7	3108.67	-144.84	-268.88	8.00	269.53	1849219.32	11887997.46	200.13
3250.00	55.00	241.7	3131.90	-160.57	-298.08	0.00	298.81	1849190.12	11887981.73	176.90
3300.00	55.00	241.7	3160.58	-179.99	-334.14	0.00	334.96	1849154.06	11887962.31	148.22
3350.00	55.00	241.7	3189.26	-199.42	-370.20	0.00	371.10	1849118.00	11887942.88	119.54
3400.00	55.00	241.7	3217.94	-218.84	-406.26	0.00	407.25	1849081.94	11887923.46	90.86
3450.00	55.00	241.7	3246.62	-238.26	-442.32	0.00	443.40	1849045.88	11887904.04	62.18
*** 12 DEGREE BUILD (at MD = 3459.50)										
3459.50	55.00	241.7	3252.07	-241.95	-449.17	0.00	450.26	1849039.03	11887900.35	56.73
3500.00	58.70	245.5	3274.22	-257.02	-479.53	12.00	480.69	1849008.67	11887885.28	34.58
3550.00	63.40	249.7	3298.43	-273.65	-519.97	12.00	521.20	1848968.23	11887868.65	10.37
3600.00	68.21	253.6	3318.92	-287.94	-563.25	12.00	564.55	1848924.95	11887854.36	-10.12
3650.00	73.12	257.3	3335.47	-299.74	-608.91	12.00	610.26	1848879.29	11887842.56	-26.67
3700.00	78.09	260.8	3347.90	-308.92	-656.43	12.00	657.83	1848831.77	11887833.38	-39.10
3750.00	83.09	264.1	3356.08	-315.38	-705.31	12.00	706.74	1848782.89	11887826.92	-47.28
3800.00	88.12	267.4	3359.91	-319.04	-755.01	12.00	756.45	1848733.19	11887823.26	-51.11
*** LANDING POINT (at MD = 3835.52)										
3835.52	91.70	269.7	3359.96	-319.92	-790.51	12.00	791.95	1848697.69	11887822.38	-51.16
3850.00	91.70	269.7	3359.53	-319.98	-804.98	0.00	806.43	1848683.22	11887822.32	-50.73

Kaiser 18-2H, Plan 1

Operator	Units feet, °/100ft	16:11 Friday, October 02, 2020 Page 2 of
Field	County Eddy	Vertical Section Azimuth 269.74
Well Name Kaiser 18-2H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location SL: 1990 FNL & 2008 FWL Section 18-T18S-R27E BHL: 2310 FNL & 1 FWL Section 13-T18S-27E	Map Zone UTM	Lat Long Ref
Site	Surface X 1849488.2	Surface Long
Slot Name	Surface Y 11888142.3	Surface Lat
Well Number	Surface Z 3308.8	Global Z Ref KB
Project	Ground Level 3290.8	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
3900.00	91.70	269.7	3358.05	-320.21	-854.96	0.00	856.41	1848633.24	11887822.09	-49.25
3950.00	91.70	269.7	3356.57	-320.43	-904.94	0.00	906.38	1848583.26	11887821.87	-47.77
4000.00	91.70	269.7	3355.08	-320.66	-954.92	0.00	956.36	1848533.28	11887821.64	-46.28
4050.00	91.70	269.7	3353.60	-320.89	-1004.89	0.00	1006.34	1848483.31	11887821.41	-44.80
4100.00	91.70	269.7	3352.12	-321.12	-1054.87	0.00	1056.32	1848433.33	11887821.19	-43.32
4150.00	91.70	269.7	3350.63	-321.34	-1104.85	0.00	1106.30	1848383.35	11887820.96	-41.83
4200.00	91.70	269.7	3349.15	-321.57	-1154.83	0.00	1156.27	1848333.37	11887820.73	-40.35
4250.00	91.70	269.7	3347.67	-321.80	-1204.80	0.00	1206.25	1848283.40	11887820.50	-38.87
4300.00	91.70	269.7	3346.18	-322.02	-1254.78	0.00	1256.23	1848233.42	11887820.28	-37.38
4350.00	91.70	269.7	3344.70	-322.25	-1304.76	0.00	1306.21	1848183.44	11887820.05	-35.90
4400.00	91.70	269.7	3343.22	-322.48	-1354.74	0.00	1356.19	1848133.46	11887819.82	-34.42
4450.00	91.70	269.7	3341.73	-322.70	-1404.71	0.00	1406.16	1848083.49	11887819.60	-32.93
4500.00	91.70	269.7	3340.25	-322.93	-1454.69	0.00	1456.14	1848033.51	11887819.37	-31.45
4550.00	91.70	269.7	3338.77	-323.16	-1504.67	0.00	1506.12	1847983.53	11887819.14	-29.97
4600.00	91.70	269.7	3337.28	-323.38	-1554.65	0.00	1556.10	1847933.55	11887818.92	-28.48
4650.00	91.70	269.7	3335.80	-323.61	-1604.62	0.00	1606.08	1847883.58	11887818.69	-27.00
4700.00	91.70	269.7	3334.32	-323.84	-1654.60	0.00	1656.05	1847833.60	11887818.46	-25.52
4750.00	91.70	269.7	3332.83	-324.06	-1704.58	0.00	1706.03	1847783.62	11887818.24	-24.03
4800.00	91.70	269.7	3331.35	-324.29	-1754.56	0.00	1756.01	1847733.64	11887818.01	-22.55
4850.00	91.70	269.7	3329.87	-324.52	-1804.53	0.00	1805.99	1847683.67	11887817.78	-21.07
4900.00	91.70	269.7	3328.38	-324.74	-1854.51	0.00	1855.97	1847633.69	11887817.56	-19.58
4950.00	91.70	269.7	3326.90	-324.97	-1904.49	0.00	1905.94	1847583.71	11887817.33	-18.10
5000.00	91.70	269.7	3325.42	-325.20	-1954.47	0.00	1955.92	1847533.73	11887817.10	-16.62
5050.00	91.70	269.7	3323.93	-325.42	-2004.44	0.00	2005.90	1847483.76	11887816.88	-15.13
5100.00	91.70	269.7	3322.45	-325.65	-2054.42	0.00	2055.88	1847433.78	11887816.65	-13.65
5150.00	91.70	269.7	3320.97	-325.88	-2104.40	0.00	2105.86	1847383.80	11887816.42	-12.17
5200.00	91.70	269.7	3319.48	-326.10	-2154.38	0.00	2155.83	1847333.82	11887816.20	-10.68
5250.00	91.70	269.7	3318.00	-326.33	-2204.35	0.00	2205.81	1847283.85	11887815.97	-9.20
5300.00	91.70	269.7	3316.52	-326.56	-2254.33	0.00	2255.79	1847233.87	11887815.74	-7.72
5350.00	91.70	269.7	3315.03	-326.78	-2304.31	0.00	2305.77	1847183.89	11887815.52	-6.23
5400.00	91.70	269.7	3313.55	-327.01	-2354.29	0.00	2355.75	1847133.91	11887815.29	-4.75
5450.00	91.70	269.7	3312.07	-327.24	-2404.26	0.00	2405.72	1847083.94	11887815.06	-3.27
5500.00	91.70	269.7	3310.58	-327.47	-2454.24	0.00	2455.70	1847033.96	11887814.83	-1.78
5550.00	91.70	269.7	3309.10	-327.69	-2504.22	0.00	2505.68	1846983.98	11887814.61	-0.30
5600.00	91.70	269.7	3307.62	-327.92	-2554.20	0.00	2555.66	1846934.00	11887814.38	1.18
5650.00	91.70	269.7	3306.13	-328.15	-2604.17	0.00	2605.64	1846884.03	11887814.15	2.67
5700.00	91.70	269.7	3304.65	-328.37	-2654.15	0.00	2655.61	1846834.05	11887813.93	4.15

Kaiser 18-2H, Plan 1

Operator	Units feet, °/100ft	16:11 Friday, October 02, 2020 Page 3 of
Field	County Eddy	Vertical Section Azimuth 269.74
Well Name Kaiser 18-2H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access
Location SL: 1990 FNL & 2008 FWL Section 18-T18S-R27E BHL: 2310 FNL & 1 FWL Section 13-T18S-27E	Map Zone UTM	Lat Long Ref
Site	Surface X 1849488.2	Surface Long
Slot Name	Surface Y 11888142.3	Surface Lat
Well Number	Surface Z 3308.8	Global Z Ref KB
Project	Ground Level 3290.8	Local North Ref Grid
UWI		
API		
MD/TVD Ref KB		

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
5750.00	91.70	269.7	3303.17	-328.60	-2704.13	0.00	2705.59	1846784.07	11887813.70	5.63
5800.00	91.70	269.7	3301.68	-328.83	-2754.11	0.00	2755.57	1846734.09	11887813.47	7.12
5850.00	91.70	269.7	3300.20	-329.05	-2804.08	0.00	2805.55	1846684.12	11887813.25	8.60
5900.00	91.70	269.7	3298.72	-329.28	-2854.06	0.00	2855.53	1846634.14	11887813.02	10.08
5950.00	91.70	269.7	3297.23	-329.51	-2904.04	0.00	2905.50	1846584.16	11887812.79	11.57
6000.00	91.70	269.7	3295.75	-329.73	-2954.02	0.00	2955.48	1846534.18	11887812.57	13.05
6050.00	91.70	269.7	3294.27	-329.96	-3003.99	0.00	3005.46	1846484.21	11887812.34	14.53
6100.00	91.70	269.7	3292.78	-330.19	-3053.97	0.00	3055.44	1846434.23	11887812.11	16.02
6150.00	91.70	269.7	3291.30	-330.41	-3103.95	0.00	3105.42	1846384.25	11887811.89	17.50
6200.00	91.70	269.7	3289.82	-330.64	-3153.93	0.00	3155.39	1846334.27	11887811.66	18.98
6250.00	91.70	269.7	3288.33	-330.87	-3203.90	0.00	3205.37	1846284.30	11887811.43	20.47
6300.00	91.70	269.7	3286.85	-331.09	-3253.88	0.00	3255.35	1846234.32	11887811.21	21.95
6350.00	91.70	269.7	3285.37	-331.32	-3303.86	0.00	3305.33	1846184.34	11887810.98	23.43
6400.00	91.70	269.7	3283.88	-331.55	-3353.84	0.00	3355.31	1846134.36	11887810.75	24.92
6450.00	91.70	269.7	3282.40	-331.77	-3403.81	0.00	3405.28	1846084.39	11887810.53	26.40
6500.00	91.70	269.7	3280.92	-332.00	-3453.79	0.00	3455.26	1846034.41	11887810.30	27.88
6550.00	91.70	269.7	3279.43	-332.23	-3503.77	0.00	3505.24	1845984.43	11887810.07	29.37
6600.00	91.70	269.7	3277.95	-332.45	-3553.75	0.00	3555.22	1845934.45	11887809.85	30.85
6650.00	91.70	269.7	3276.47	-332.68	-3603.72	0.00	3605.20	1845884.48	11887809.62	32.33
6700.00	91.70	269.7	3274.98	-332.91	-3653.70	0.00	3655.17	1845834.50	11887809.39	33.82
6750.00	91.70	269.7	3273.50	-333.14	-3703.68	0.00	3705.15	1845784.52	11887809.17	35.30
6800.00	91.70	269.7	3272.02	-333.36	-3753.66	0.00	3755.13	1845734.54	11887808.94	36.78
6850.00	91.70	269.7	3270.53	-333.59	-3803.63	0.00	3805.11	1845684.57	11887808.71	38.27
6900.00	91.70	269.7	3269.05	-333.82	-3853.61	0.00	3855.09	1845634.59	11887808.48	39.75
6950.00	91.70	269.7	3267.57	-334.04	-3903.59	0.00	3905.06	1845584.61	11887808.26	41.23
7000.00	91.70	269.7	3266.09	-334.27	-3953.57	0.00	3955.04	1845534.63	11887808.03	42.72
7050.00	91.70	269.7	3264.60	-334.50	-4003.54	0.00	4005.02	1845484.66	11887807.80	44.20
7100.00	91.70	269.7	3263.12	-334.72	-4053.52	0.00	4055.00	1845434.68	11887807.58	45.68
7150.00	91.70	269.7	3261.64	-334.95	-4103.50	0.00	4104.98	1845384.70	11887807.35	47.17
7200.00	91.70	269.7	3260.15	-335.18	-4153.48	0.00	4154.95	1845334.72	11887807.12	48.65
7250.00	91.70	269.7	3258.67	-335.40	-4203.45	0.00	4204.93	1845284.75	11887806.90	50.13
7300.00	91.70	269.7	3257.19	-335.63	-4253.43	0.00	4254.91	1845234.77	11887806.67	51.61
7350.00	91.70	269.7	3255.70	-335.86	-4303.41	0.00	4304.89	1845184.79	11887806.44	53.10
7400.00	91.70	269.7	3254.22	-336.08	-4353.39	0.00	4354.87	1845134.82	11887806.22	54.58
7450.00	91.70	269.7	3252.74	-336.31	-4403.36	0.00	4404.84	1845084.84	11887805.99	56.06
7500.00	91.70	269.7	3251.25	-336.54	-4453.34	0.00	4454.82	1845034.86	11887805.76	57.55
7550.00	91.70	269.7	3249.77	-336.76	-4503.32	0.00	4504.80	1844984.88	11887805.54	59.03
7600.00	91.70	269.7	3248.29	-336.99	-4553.29	0.00	4554.78	1844934.91	11887805.31	60.51

Kaiser 18-2H, Plan 1

Operator	Units feet, °/100ft	16:11 Friday, October 02, 2020 Page 4 of
Field	County Eddy	Vertical Section Azimuth 269.74
Well Name Kaiser 18-2H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location SL: 1990 FNL & 2008 FWL Section 18-T18S-R27E BHL: 2310 FNL & 1 FWL Section 13-T18S-27E	Map Zone UTM	Lat Long Ref
Site	Surface X 1849488.2	Surface Long
Slot Name	Surface Y 11888142.3	Surface Lat
Well Number	Surface Z 3308.8	Global Z Ref KB
Project	Ground Level 3290.8	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
7650.00	91.70	269.7	3246.80	-337.22	-4603.27	0.00	4604.76	1844884.93	11887805.08	62.00
7700.00	91.70	269.7	3245.32	-337.44	-4653.25	0.00	4654.73	1844834.95	11887804.86	63.48
7750.00	91.70	269.7	3243.84	-337.67	-4703.23	0.00	4704.71	1844784.97	11887804.63	64.96
7800.00	91.70	269.7	3242.35	-337.90	-4753.20	0.00	4754.69	1844735.00	11887804.40	66.45
7850.00	91.70	269.7	3240.87	-338.12	-4803.18	0.00	4804.67	1844685.02	11887804.18	67.93
7900.00	91.70	269.7	3239.39	-338.35	-4853.16	0.00	4854.65	1844635.04	11887803.95	69.41
7950.00	91.70	269.7	3237.90	-338.58	-4903.14	0.00	4904.62	1844585.06	11887803.72	70.90
8000.00	91.70	269.7	3236.42	-338.80	-4953.11	0.00	4954.60	1844535.09	11887803.50	72.38
8050.00	91.70	269.7	3234.94	-339.03	-5003.09	0.00	5004.58	1844485.11	11887803.27	73.86
8100.00	91.70	269.7	3233.45	-339.26	-5053.07	0.00	5054.56	1844435.13	11887803.04	75.35
8150.00	91.70	269.7	3231.97	-339.49	-5103.05	0.00	5104.54	1844385.15	11887802.81	76.83
8200.00	91.70	269.7	3230.49	-339.71	-5153.02	0.00	5154.51	1844335.18	11887802.59	78.31
8250.00	91.70	269.7	3229.00	-339.94	-5203.00	0.00	5204.49	1844285.20	11887802.36	79.80
8300.00	91.70	269.7	3227.52	-340.17	-5252.98	0.00	5254.47	1844235.22	11887802.13	81.28
8350.00	91.70	269.7	3226.04	-340.39	-5302.96	0.00	5304.45	1844185.24	11887801.91	82.76
8400.00	91.70	269.7	3224.55	-340.62	-5352.93	0.00	5354.43	1844135.27	11887801.68	84.25
8450.00	91.70	269.7	3223.07	-340.85	-5402.91	0.00	5404.40	1844085.29	11887801.45	85.73
8500.00	91.70	269.7	3221.59	-341.07	-5452.89	0.00	5454.38	1844035.31	11887801.23	87.21
8550.00	91.70	269.7	3220.10	-341.30	-5502.87	0.00	5504.36	1843985.33	11887801.00	88.70
8600.00	91.70	269.7	3218.62	-341.53	-5552.84	0.00	5554.34	1843935.36	11887800.77	90.18
8650.00	91.70	269.7	3217.14	-341.75	-5602.82	0.00	5604.32	1843885.38	11887800.55	91.66
8700.00	91.70	269.7	3215.65	-341.98	-5652.80	0.00	5654.29	1843835.40	11887800.32	93.15
8750.00	91.70	269.7	3214.17	-342.21	-5702.78	0.00	5704.27	1843785.42	11887800.09	94.63
8800.00	91.70	269.7	3212.69	-342.43	-5752.75	0.00	5754.25	1843735.45	11887799.87	96.11
8850.00	91.70	269.7	3211.20	-342.66	-5802.73	0.00	5804.23	1843685.47	11887799.64	97.60
8900.00	91.70	269.7	3209.72	-342.89	-5852.71	0.00	5854.21	1843635.49	11887799.41	99.08
8950.00	91.70	269.7	3208.24	-343.11	-5902.69	0.00	5904.18	1843585.51	11887799.19	100.56
9000.00	91.70	269.7	3206.75	-343.34	-5952.66	0.00	5954.16	1843535.54	11887798.96	102.05
9050.00	91.70	269.7	3205.27	-343.57	-6002.64	0.00	6004.14	1843485.56	11887798.73	103.53
9100.00	91.70	269.7	3203.79	-343.79	-6052.62	0.00	6054.12	1843435.58	11887798.51	105.01
9150.00	91.70	269.7	3202.30	-344.02	-6102.60	0.00	6104.10	1843385.60	11887798.28	106.50
9200.00	91.70	269.7	3200.82	-344.25	-6152.57	0.00	6154.07	1843335.63	11887798.05	107.98
9250.00	91.70	269.7	3199.34	-344.47	-6202.55	0.00	6204.05	1843285.65	11887797.83	109.46
9300.00	91.70	269.7	3197.85	-344.70	-6252.53	0.00	6254.03	1843235.67	11887797.60	110.95
9350.00	91.70	269.7	3196.37	-344.93	-6302.51	0.00	6304.01	1843185.69	11887797.37	112.43
9400.00	91.70	269.7	3194.89	-345.16	-6352.48	0.00	6353.99	1843135.72	11887797.15	113.91
9450.00	91.70	269.7	3193.40	-345.38	-6402.46	0.00	6403.96	1843085.74	11887796.92	115.40

Kaiser 18-2H, Plan 1

Operator	Units feet, °/100ft	16:11 Friday, October 02, 2020 Page 5 of
Field	County Eddy	Vertical Section Azimuth 269.74
Well Name Kaiser 18-2H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location SL: 1990 FNL & 2008 FWL Section 18-T18S-R27E BHL: 2310 FNL & 1 FWL Section 13-T18S-27E	Map Zone UTM	Lat Long Ref
Site	Surface X 1849488.2	Surface Long
Slot Name	Surface Y 11888142.3	Surface Lat
Well Number	Surface Z 3308.8	Global Z Ref KB
Project	Ground Level 3290.8	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
9500.00	91.70	269.7	3191.92	-345.61	-6452.44	0.00	6453.94	1843035.76	11887796.69	116.88
9550.00	91.70	269.7	3190.44	-345.84	-6502.42	0.00	6503.92	1842985.78	11887796.46	118.36
9600.00	91.70	269.7	3188.95	-346.06	-6552.39	0.00	6553.90	1842935.81	11887796.24	119.85
9650.00	91.70	269.7	3187.47	-346.29	-6602.37	0.00	6603.88	1842885.83	11887796.01	121.33
9700.00	91.70	269.7	3185.99	-346.52	-6652.35	0.00	6653.85	1842835.85	11887795.78	122.81
9750.00	91.70	269.7	3184.50	-346.74	-6702.33	0.00	6703.83	1842785.87	11887795.56	124.30
9800.00	91.70	269.7	3183.02	-346.97	-6752.30	0.00	6753.81	1842735.90	11887795.33	125.78
9850.00	91.70	269.7	3181.54	-347.20	-6802.28	0.00	6803.79	1842685.92	11887795.10	127.26
9900.00	91.70	269.7	3180.05	-347.42	-6852.26	0.00	6853.76	1842635.94	11887794.88	128.75
9950.00	91.70	269.7	3178.57	-347.65	-6902.24	0.00	6903.74	1842585.96	11887794.65	130.23
10000.00	91.70	269.7	3177.09	-347.88	-6952.21	0.00	6953.72	1842535.99	11887794.42	131.71
10050.00	91.70	269.7	3175.60	-348.10	-7002.19	0.00	7003.70	1842486.01	11887794.20	133.20
10100.00	91.70	269.7	3174.12	-348.33	-7052.17	0.00	7053.68	1842436.03	11887793.97	134.68
10150.00	91.70	269.7	3172.64	-348.56	-7102.15	0.00	7103.65	1842386.05	11887793.74	136.16
10200.00	91.70	269.7	3171.15	-348.78	-7152.12	0.00	7153.63	1842336.08	11887793.52	137.65
10250.00	91.70	269.7	3169.67	-349.01	-7202.10	0.00	7203.61	1842286.10	11887793.29	139.13
10300.00	91.70	269.7	3168.19	-349.24	-7252.08	0.00	7253.59	1842236.12	11887793.06	140.61
10350.00	91.70	269.7	3166.70	-349.46	-7302.06	0.00	7303.57	1842186.14	11887792.84	142.10
*** TD (at MD = 10398.52)										
10398.52	91.70	269.7	3165.26	-349.68	-7350.55	0.00	7352.06	1842137.65	11887792.62	143.54