

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural ResourcesForm C-104
Revised August 1, 2011Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

¹ Operator name and Address Marathon Oil Permian LLC 990 Town & Country Blvd. Houston, TX 77024		² OGRID Number 372098
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-46147	⁵ Pool Name Purple Sage; Wolfcamp (Gas)	⁶ Pool Code 98220
⁷ Property Code 325772	⁸ Property Name Mazer Rackham 20 WA Federal Com	⁹ Well Number 6H

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	20	26S	29E		965	NORTH	630	EAST	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	26S	29E		350	SOUTH	1001	EAST	EDDY
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

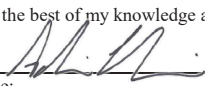
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
373554	SALT CREEK MIDSTREAM, LLC 5825 N SAM HOUSTON PKWY W, SUITE 150, HOUSTON, TX 77086	O/G
371643	SOLARIS WATER MIDSTREAM, LLC 907 TRADEWINDS BLVD, SUITE B, MIDLAND, TX 79706	W

IV. Well Completion Data

²¹ Spud Date 12/25/2019	²² Ready Date 7/18/2022	²³ TD 14513'	²⁴ PBTB 14500'	²⁵ Perforations 9925' - 14456'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5"	13.375", 54.5#, J55, STC	437'	455		
12.25"	9.625", 40#, J55, LTC	2824'	990		
8.75"	7", 29#, P110, Roughneck	9225'	970		
6.125"	4.5", 13.5#, P110, Roughneck Tubing: 2-7/8"	8763' - 14513' Tubing: 8690'	540		

V. Well Test Data

³¹ Date New Oil 7/19/2022	³² Gas Delivery Date 7/19/2022	³³ Test Date 8/18/2022	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 734
³⁷ Choke Size 64/64	³⁸ Oil 1136	³⁹ Water 3322	⁴⁰ Gas 3895		⁴¹ Test Method Flowing
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Adrian Covarrubias			Approved by: PATRICIA MARTINEZ		
Title: Regulatory Compliance Representative			Title: PETROLEUM SPECIALIST		
E-mail Address: acovarrubias@marathonoil.com			Approval Date: 10/20/2022		
Date: 9/16/2022		Phone: 713-296-3368			

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

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-46147	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 325772	Property Name MAZER RACKHAM 20 WA FEDERAL COM	⁶ Well Number 6H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC.	⁹ Elevation 2872'

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
A	20	26S	29E		965	NORTH	630	EAST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	26S	29E		350	SOUTH	1001	EAST	EDDY
¹² Dedicated Acres 320.0	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.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 642562.49' / Y: 374173.92' B - X: 642535.61' / Y: 376817.53' C - X: 645175.01' / Y: 376837.52' D - X: 645193.17' / Y: 374202.36' E - X: 645293.57' / Y: 371608.28' F - X: 642590.08' / Y: 371460.95'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 601376.95' / Y: 374116.43' B - X: 601350.13' / Y: 376759.99' C - X: 603989.47' / Y: 376779.95' D - X: 604007.56' / Y: 374144.84' E - X: 604107.90' / Y: 371550.82' F - X: 601404.47' / Y: 371403.51'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Adrian Covarrubias</i> Date: 9/7/2022 Printed Name: Adrian Covarrubias E-mail Address:
	SURFACE HOLE LOCATION 965' FNL 630' FEL, SECTION 20 NAD 83, SPCS NM EAST X: 644551.21' / Y: 375867.75' LAT: 32.03290300N / LON: 104.00025489W NAD 27, SPCS NM EAST X: 603365.66' / Y: 375810.20' LAT: 32.03277800N / LON: 103.99977212W		
	KICK OFF POINT 88' FNL 1014' FEL, SECTION 20 9240' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 644161.64' / Y: 376741.91' LAT: 32.03530931N / LON: 104.00150339W NAD 27, SPCS NM EAST X: 602976.11' / Y: 376684.34' LAT: 32.03518435N / LON: 104.00102048W		
	FIRST TAKE POINT 361' FNL 978' FEL, SECTION 20 9925' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 644199.48' / Y: 376468.81' LAT: 32.03455824N / LON: 104.00138397W NAD 27, SPCS NM EAST X: 603013.95' / Y: 376411.24' LAT: 32.03443328N / LON: 104.00090110W		
LAST TAKE POINT 407' FSL 999' FEL, SECTION 20 14456' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 644280.11' / Y: 371960.35' LAT: 32.02216407N / LON: 104.00116852W NAD 27, SPCS NM EAST X: 603094.46' / Y: 371902.88' LAT: 32.02203895N / LON: 104.00068607W		18 SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. AUGUST 16, 2022 Date of Survey Signature and Seal of Professional Surveyor: <i>Lloyd P. Short</i> Certificate Number: 21653	
BOTTOM HOLE LOCATION 350' FSL 1001' FEL, SECTION 20 14513' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 644280.42' / Y: 371903.46' LAT: 32.02200767N / LON: 104.00116807W NAD 27, SPCS NM EAST X: 603094.78' / Y: 371845.99' LAT: 32.02188255N / LON: 104.00068563W			
NEAREST TO LEASE MD = 14,513'			
FURTHEST FROM LEASE MD = 14,513'			

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99978647 Convergence Angle: 00°10'35.39608"

LLOYD P. SHORT 21653

☐ Horizontal Spacing Unit



MARATHON OIL COMPANY

Eddy County, NM (NAD27)

Mazer Rackham Pad (Grid)

Mazer Rackham 20 WA Fed Com 6H

Wellbore #1

Design: Final Surveys

Standard Survey Report

25 March, 2022





SB Directional Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Mazer Rackham 20 WA Fed Com 6H
Project:	Eddy County, NM (NAD27)	TVD Reference:	PD101 @ 2898.50usft (Precision 101)
Site:	Mazer Rackham Pad (Grid)	MD Reference:	PD101 @ 2898.50usft (Precision 101)
Well:	Mazer Rackham 20 WA Fed Com 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	Database:	1 - EDM Production

Project	Eddy County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Mazer Rackham Pad (Grid)		
Site Position:		Northing:	375,810.09 usft
From:	Map	Easting:	603,425.73 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.03277720
		Longitude:	-103.99957827

Well	Mazer Rackham 20 WA Fed Com 6H		
Well Position	+N/-S	0.00 usft	Northing: 375,810.20 usft
	+E/-W	0.00 usft	Easting: 603,365.66 usft
Position Uncertainty	0.50 usft	Wellhead Elevation:	usft
Grid Convergence:	0.18 °	Ground Level:	2,872.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/1/2022	6.64	59.64	47,266.41423266

Design	Final Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.07	

Survey Program	Date	3/25/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
92.00	407.00	Unknown (Wellbore #1)	UNKNOWN	OWSG UNKNOWN	
522.00	9,160.00	MWD (Intermediate) (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM	
9,257.00	14,513.00	MWD (Production) (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
92.00	1.10	233.80	91.99	-0.52	-0.71	0.51	1.20	1.20	0.00	
122.00	1.30	247.10	121.99	-0.82	-1.26	0.80	1.14	0.67	44.33	
162.00	1.40	249.90	161.98	-1.17	-2.14	1.13	0.30	0.25	7.00	
190.00	1.50	257.20	189.97	-1.37	-2.81	1.32	0.75	0.36	26.07	
257.00	1.40	257.12	256.95	-1.74	-4.47	1.67	0.15	-0.15	-0.12	
304.00	0.79	258.43	303.94	-1.94	-5.34	1.85	1.30	-1.30	2.79	
407.00	0.79	259.31	406.93	-2.21	-6.74	2.10	0.01	0.00	0.85	



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Site:	Mazer Rackham Pad (Grid)	MD Reference:	PD101 @ 2898.50usft (Precision 101)
Well:	Mazer Rackham 20 WA Fed Com 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	Database:	1 - EDM Production

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
522.00	0.31	237.50	521.92	-2.53	-7.78	2.40	0.45	-0.42	-18.97	
616.00	0.22	215.88	615.92	-2.81	-8.10	2.68	0.14	-0.10	-23.00	
710.00	0.22	153.39	709.92	-3.12	-8.12	2.98	0.24	0.00	-66.48	
804.00	0.53	147.85	803.92	-3.65	-7.81	3.52	0.33	0.33	-5.89	
898.00	0.57	150.66	897.91	-4.42	-7.35	4.30	0.05	0.04	2.99	
991.00	0.57	149.26	990.91	-5.22	-6.89	5.11	0.01	0.00	-1.51	
1,085.00	0.26	163.23	1,084.91	-5.83	-6.59	5.72	0.34	-0.33	14.86	
1,179.00	0.13	172.64	1,178.91	-6.14	-6.51	6.03	0.14	-0.14	10.01	
1,273.00	0.22	158.13	1,272.91	-6.41	-6.43	6.31	0.11	0.10	-15.44	
1,367.00	0.35	169.82	1,366.90	-6.86	-6.31	6.76	0.15	0.14	12.44	
1,461.00	1.36	358.26	1,460.90	-6.03	-6.30	5.93	1.82	1.07	-182.51	
1,554.00	3.65	348.59	1,553.80	-2.02	-6.92	1.91	2.50	2.46	-10.40	
1,644.00	5.27	351.67	1,643.53	4.88	-8.08	-5.01	1.82	1.80	3.42	
1,734.00	6.55	356.85	1,733.05	14.09	-8.96	-14.23	1.54	1.42	5.76	
1,824.00	8.48	352.11	1,822.27	25.79	-10.16	-25.95	2.25	2.14	-5.27	
1,913.00	9.89	343.23	1,910.13	39.61	-13.26	-39.82	2.24	1.58	-9.98	
2,003.00	9.23	342.26	1,998.88	53.88	-17.69	-54.17	0.75	-0.73	-1.08	
2,092.00	8.66	338.49	2,086.80	66.92	-22.32	-67.27	0.92	-0.64	-4.24	
2,182.00	8.13	340.68	2,175.84	79.23	-26.91	-79.65	0.69	-0.59	2.43	
2,271.00	8.31	341.65	2,263.92	91.27	-31.02	-91.76	0.26	0.20	1.09	
2,361.00	9.27	332.16	2,352.87	103.85	-36.45	-104.43	1.93	1.07	-10.54	
2,450.00	9.36	334.35	2,440.69	116.72	-42.93	-117.40	0.41	0.10	2.46	
2,540.00	8.26	339.19	2,529.63	129.36	-48.40	-130.13	1.47	-1.22	5.38	
2,630.00	7.74	341.65	2,618.76	141.15	-52.60	-141.99	0.69	-0.58	2.73	
2,720.00	8.00	338.49	2,707.91	152.73	-56.81	-153.63	0.56	0.29	-3.51	
2,775.00	8.53	338.49	2,762.34	160.09	-59.71	-161.04	0.96	0.96	0.00	
2,891.00	7.60	333.56	2,877.19	174.96	-66.28	-176.01	1.00	-0.80	-4.25	
2,981.00	7.65	332.07	2,966.40	185.58	-71.73	-186.72	0.23	0.06	-1.66	
3,071.00	7.74	331.37	3,055.58	196.20	-77.44	-197.43	0.14	0.10	-0.78	
3,160.00	7.74	331.01	3,143.77	206.70	-83.22	-208.02	0.05	0.00	-0.40	
3,250.00	7.69	329.43	3,232.96	217.18	-89.22	-218.60	0.24	-0.06	-1.76	
3,339.00	7.82	328.11	3,321.15	227.45	-95.45	-228.97	0.25	0.15	-1.48	
3,429.00	7.65	327.59	3,410.33	237.71	-101.89	-239.33	0.20	-0.19	-0.58	
3,518.00	7.74	327.15	3,498.53	247.74	-108.32	-249.47	0.12	0.10	-0.49	
3,607.00	8.79	328.55	3,586.60	258.58	-115.12	-260.41	1.20	1.18	1.57	
3,697.00	9.27	329.08	3,675.48	270.66	-122.43	-272.62	0.54	0.53	0.59	
3,787.00	9.14	329.87	3,764.33	283.07	-129.74	-285.13	0.20	-0.14	0.88	
3,877.00	8.92	329.26	3,853.21	295.25	-136.90	-297.43	0.27	-0.24	-0.68	
3,966.00	8.97	328.82	3,941.13	307.11	-144.02	-309.41	0.10	0.06	-0.49	
4,056.00	8.66	332.95	4,030.06	319.15	-150.73	-321.55	0.78	-0.34	4.59	
4,146.00	8.66	337.96	4,119.04	331.46	-156.35	-333.96	0.84	0.00	5.57	
4,235.00	8.26	337.43	4,207.07	343.58	-161.32	-346.15	0.46	-0.45	-0.60	
4,325.00	8.04	335.50	4,296.16	355.28	-166.41	-357.93	0.39	-0.24	-2.14	



SB Directional Survey Report



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Well:	Mazer Rackham 20 WA Fed Com 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	Database:	1 - EDM Production

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,415.00	8.04	332.60	4,385.28	366.59	-171.92	-369.33	0.45	0.00	-3.22	
4,504.00	8.53	333.74	4,473.35	378.04	-177.70	-380.87	0.58	0.55	1.28	
4,594.00	9.49	341.21	4,562.24	391.05	-183.05	-393.97	1.68	1.07	8.30	
4,684.00	9.67	340.95	4,650.99	405.22	-187.90	-408.21	0.21	0.20	-0.29	
4,774.00	9.71	339.98	4,739.70	419.49	-192.97	-422.57	0.19	0.04	-1.08	
4,863.00	9.41	337.52	4,827.47	433.27	-198.32	-436.43	0.57	-0.34	-2.76	
4,953.00	8.88	336.11	4,916.32	446.42	-203.95	-449.67	0.64	-0.59	-1.57	
5,043.00	8.57	333.30	5,005.28	458.76	-209.77	-462.10	0.59	-0.34	-3.12	
5,132.00	8.97	339.72	5,093.24	471.19	-215.16	-474.62	1.19	0.45	7.21	
5,222.00	9.36	341.21	5,182.09	484.70	-219.95	-488.21	0.51	0.43	1.66	
5,312.00	8.92	340.77	5,270.95	498.22	-224.60	-501.80	0.50	-0.49	-0.49	
5,401.00	8.18	338.75	5,358.96	510.63	-229.17	-514.29	0.90	-0.83	-2.27	
5,491.00	8.18	337.25	5,448.05	522.51	-233.97	-526.23	0.24	0.00	-1.67	
5,580.00	8.35	336.11	5,536.12	534.25	-239.03	-538.06	0.27	0.19	-1.28	
5,670.00	8.48	334.62	5,625.15	546.22	-244.52	-550.12	0.28	0.14	-1.66	
5,760.00	9.63	340.59	5,714.03	559.32	-249.87	-563.30	1.65	1.28	6.63	
5,849.00	9.41	341.30	5,801.81	573.23	-254.68	-577.29	0.28	-0.25	0.80	
5,939.00	9.45	341.82	5,890.59	587.22	-259.34	-591.35	0.10	0.04	0.58	
6,029.00	9.01	341.39	5,979.42	600.92	-263.90	-605.12	0.49	-0.49	-0.48	
6,118.00	8.66	341.47	6,067.37	613.88	-268.25	-618.15	0.39	-0.39	0.09	
6,208.00	7.91	338.92	6,156.43	626.08	-272.63	-630.42	0.93	-0.83	-2.83	
6,297.00	9.01	339.01	6,244.46	638.30	-277.33	-642.72	1.24	1.24	0.10	
6,387.00	8.97	338.22	6,333.35	651.40	-282.46	-655.90	0.14	-0.04	-0.88	
6,476.00	8.22	338.66	6,421.35	663.77	-287.35	-668.34	0.85	-0.84	0.49	
6,566.00	7.25	337.34	6,510.53	675.00	-291.88	-679.65	1.10	-1.08	-1.47	
6,655.00	8.22	343.58	6,598.72	686.29	-295.84	-691.00	1.44	1.09	7.01	
6,745.00	7.65	344.29	6,687.86	698.22	-299.28	-702.99	0.64	-0.63	0.79	
6,835.00	8.53	335.67	6,776.97	710.07	-303.65	-714.91	1.66	0.98	-9.58	
6,924.00	8.84	333.74	6,864.95	722.22	-309.40	-727.15	0.48	0.35	-2.17	
7,013.00	7.91	329.61	6,953.00	733.64	-315.52	-738.66	1.24	-1.04	-4.64	
7,102.00	8.04	332.51	7,041.14	744.44	-321.49	-749.56	0.48	0.15	3.26	
7,192.00	8.31	336.55	7,130.22	755.99	-326.98	-761.20	0.71	0.30	4.49	
7,281.00	7.52	336.90	7,218.38	767.25	-331.83	-772.53	0.89	-0.89	0.39	
7,371.00	7.87	337.96	7,307.56	778.38	-336.45	-783.73	0.42	0.39	1.18	
7,460.00	9.14	335.41	7,395.58	790.45	-341.68	-795.89	1.49	1.43	-2.87	
7,550.00	8.53	334.71	7,484.52	802.99	-347.51	-808.52	0.69	-0.68	-0.78	
7,639.00	7.74	332.60	7,572.62	814.28	-353.08	-819.90	0.95	-0.89	-2.37	
7,729.00	7.25	331.01	7,661.85	824.62	-358.62	-830.34	0.59	-0.54	-1.77	
7,818.00	6.37	328.47	7,750.22	833.74	-363.93	-839.54	1.04	-0.99	-2.85	
7,907.00	5.98	332.86	7,838.71	842.08	-368.63	-847.95	0.69	-0.44	4.93	
7,997.00	6.07	336.20	7,928.21	850.60	-372.68	-856.54	0.40	0.10	3.71	
8,086.00	3.08	338.31	8,016.92	857.13	-375.47	-863.11	3.36	-3.36	2.37	
8,176.00	2.42	326.00	8,106.81	860.96	-377.42	-866.97	0.98	-0.73	-13.68	
8,266.00	2.20	341.03	8,196.74	864.16	-379.05	-870.20	0.71	-0.24	16.70	


SB Directional
 Survey Report


Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Mazer Rackham 20 WA Fed Com 6H
Project:	Eddy County, NM (NAD27)	TVD Reference:	PD101 @ 2898.50usft (Precision 101)
Site:	Mazer Rackham Pad (Grid)	MD Reference:	PD101 @ 2898.50usft (Precision 101)
Well:	Mazer Rackham 20 WA Fed Com 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	Database:	1 - EDM Production

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,355.00	1.23	7.93	8,285.70	866.73	-379.47	-872.77	1.39	-1.09	30.22
8,445.00	0.40	350.61	8,375.69	867.99	-379.39	-874.04	0.95	-0.92	-19.24
8,534.00	0.70	318.18	8,464.69	868.70	-379.80	-874.75	0.47	0.34	-36.44
8,624.00	0.84	303.42	8,554.68	869.48	-380.72	-875.54	0.27	0.16	-16.40
8,713.00	1.19	308.95	8,643.66	870.42	-381.98	-876.50	0.41	0.39	6.21
8,803.00	1.05	297.18	8,733.65	871.38	-383.44	-877.49	0.30	-0.16	-13.08
8,892.00	1.05	294.36	8,822.63	872.09	-384.91	-878.22	0.06	0.00	-3.17
8,982.00	0.97	287.86	8,912.62	872.66	-386.39	-878.82	0.16	-0.09	-7.22
9,071.00	0.84	293.13	9,001.61	873.15	-387.70	-879.33	0.17	-0.15	5.92
9,160.00	0.70	301.13	9,090.60	873.69	-388.77	-879.88	0.20	-0.16	8.99
9,340.00	1.61	198.00	9,270.57	871.85	-390.49	-878.08	1.05	0.51	-57.29
9,387.00	5.40	174.24	9,317.48	869.02	-390.47	-875.25	8.47	8.06	-50.55
9,436.00	7.82	170.84	9,366.15	863.44	-389.71	-869.65	5.00	4.94	-6.94
9,531.00	15.56	170.44	9,459.11	844.46	-386.56	-850.63	8.15	8.15	-0.42
9,627.00	28.32	166.39	9,547.98	809.49	-379.03	-815.53	13.38	13.29	-4.22
9,723.00	42.35	169.68	9,626.10	755.27	-367.83	-761.14	14.74	14.61	3.43
9,819.00	49.90	175.57	9,692.62	686.72	-359.18	-692.46	9.02	7.86	6.14
9,915.00	59.60	174.95	9,747.96	608.68	-352.69	-614.33	10.12	10.10	-0.65
10,010.00	67.39	173.42	9,790.33	524.18	-344.04	-529.69	8.33	8.20	-1.61
10,106.00	73.72	171.28	9,822.27	434.52	-331.96	-439.85	6.92	6.59	-2.23
10,201.00	85.94	170.81	9,839.02	342.33	-317.43	-347.43	12.87	12.86	-0.49
10,297.00	96.25	179.72	9,837.18	246.90	-309.51	-251.89	14.19	10.74	9.28
10,393.00	90.70	180.36	9,831.36	151.11	-309.58	-156.12	5.82	-5.78	0.67
10,488.00	85.63	181.83	9,834.40	56.21	-311.39	-61.26	5.56	-5.34	1.55
10,584.00	83.66	180.52	9,843.36	-39.34	-313.35	34.25	2.46	-2.05	-1.36
10,680.00	86.84	177.20	9,851.31	-134.97	-311.44	129.90	4.78	3.31	-3.46
10,776.00	88.77	177.94	9,854.99	-230.81	-307.38	225.79	2.15	2.01	0.77
10,871.00	88.29	180.79	9,857.43	-325.76	-306.33	320.74	3.04	-0.51	3.00
10,967.00	91.93	182.10	9,857.24	-421.71	-308.75	416.64	4.03	3.79	1.36
11,062.00	91.32	181.43	9,854.55	-516.63	-311.67	511.50	0.95	-0.64	-0.71
11,158.00	91.48	181.67	9,852.21	-612.56	-314.27	607.38	0.30	0.17	0.25
11,253.00	91.26	181.56	9,849.93	-707.50	-316.94	702.26	0.26	-0.23	-0.12
11,349.00	92.27	181.74	9,846.98	-803.41	-319.71	798.12	1.07	1.05	0.19
11,444.00	89.55	179.02	9,845.47	-898.38	-320.34	893.06	4.05	-2.86	-2.86
11,540.00	91.12	180.07	9,844.91	-994.37	-319.57	989.05	1.97	1.64	1.09
11,636.00	91.37	180.30	9,842.82	-1,090.35	-319.88	1,085.01	0.35	0.26	0.24
11,731.00	88.77	178.72	9,842.70	-1,185.33	-319.07	1,180.00	3.20	-2.74	-1.66
11,827.00	87.31	177.99	9,845.99	-1,281.23	-316.32	1,275.93	1.70	-1.52	-0.76
11,922.00	89.64	179.68	9,848.52	-1,376.17	-314.39	1,370.88	3.03	2.45	1.78
12,018.00	90.00	179.31	9,848.82	-1,472.16	-313.54	1,466.88	0.54	0.38	-0.39
12,114.00	91.71	180.15	9,847.39	-1,568.15	-313.09	1,562.86	1.98	1.78	0.88
12,209.00	91.65	178.83	9,844.60	-1,663.10	-312.24	1,657.81	1.39	-0.06	-1.39
12,305.00	91.34	178.97	9,842.10	-1,759.05	-310.40	1,753.78	0.35	-0.32	0.15


SB Directional
 Survey Report


Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Mazer Rackham 20 WA Fed Com 6H
Project:	Eddy County, NM (NAD27)	TVD Reference:	PD101 @ 2898.50usft (Precision 101)
Site:	Mazer Rackham Pad (Grid)	MD Reference:	PD101 @ 2898.50usft (Precision 101)
Well:	Mazer Rackham 20 WA Fed Com 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	Database:	1 - EDM Production

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,401.00	90.95	178.71	9,840.18	-1,855.01	-308.46	1,849.76	0.49	-0.41	-0.27	
12,497.00	90.53	178.34	9,838.94	-1,950.97	-305.99	1,945.75	0.58	-0.44	-0.39	
12,593.00	91.60	178.33	9,837.15	-2,046.91	-303.20	2,041.72	1.11	1.11	-0.01	
12,688.00	91.51	178.26	9,834.58	-2,141.84	-300.37	2,136.68	0.12	-0.09	-0.07	
12,784.00	91.29	178.13	9,832.23	-2,237.76	-297.35	2,232.64	0.27	-0.23	-0.14	
12,879.00	91.20	178.17	9,830.17	-2,332.69	-294.28	2,327.60	0.10	-0.09	0.04	
12,975.00	91.57	178.16	9,827.85	-2,428.61	-291.21	2,423.56	0.39	0.39	-0.01	
13,071.00	87.03	180.06	9,829.02	-2,524.56	-289.72	2,519.53	5.13	-4.73	1.98	
13,166.00	86.47	179.88	9,834.40	-2,619.41	-289.67	2,614.36	0.62	-0.59	-0.19	
13,262.00	87.48	180.64	9,839.47	-2,715.27	-290.10	2,710.21	1.32	1.05	0.79	
13,357.00	89.69	180.76	9,841.82	-2,810.23	-291.26	2,805.13	2.33	2.33	0.13	
13,453.00	88.94	179.49	9,842.96	-2,906.22	-291.47	2,901.11	1.54	-0.78	-1.32	
13,548.00	90.64	179.88	9,843.31	-3,001.21	-290.95	2,996.10	1.84	1.79	0.41	
13,644.00	90.50	179.92	9,842.36	-3,097.21	-290.78	3,092.08	0.15	-0.15	0.04	
13,740.00	91.79	178.51	9,840.44	-3,193.18	-289.47	3,188.06	1.99	1.34	-1.47	
13,836.00	91.23	178.59	9,837.91	-3,289.11	-287.04	3,284.02	0.59	-0.58	0.08	
13,931.00	90.45	177.86	9,836.52	-3,384.06	-284.10	3,379.00	1.12	-0.82	-0.77	
14,027.00	89.52	177.45	9,836.54	-3,479.97	-280.17	3,474.97	1.06	-0.97	-0.43	
14,122.00	89.05	178.32	9,837.73	-3,574.90	-276.67	3,569.94	1.04	-0.49	0.92	
14,218.00	91.99	179.55	9,836.86	-3,670.87	-274.88	3,665.92	3.32	3.06	1.28	
14,314.00	92.72	179.04	9,832.91	-3,766.78	-273.70	3,761.84	0.93	0.76	-0.53	
14,410.00	92.83	178.78	9,828.26	-3,862.65	-271.88	3,857.73	0.29	0.11	-0.27	
14,457.00	93.45	179.69	9,825.69	-3,909.57	-271.25	3,904.66	2.34	1.32	1.94	
LS: 14457.00' MD 9825.70' TVD										
14,513.00	93.45	179.69	9,822.32	-3,965.47	-270.95	3,960.55	0.00	0.00	0.00	
PTB: 14513.00' MD 9822.33' TVD; 1018' FEL/348' FSL										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
14,457.00	9,825.69	-3,909.57	-271.25	LS: 14457.00' MD 9825.70' TVD	
14,513.00	9,822.32	-3,965.47	-270.95	PTB: 14513.00' MD 9822.33' TVD; 1018' FEL/348' FSL	

Checked By: _____ Approved By: _____ Date: _____

Well Name: MAZER RACKHAM 20 WA FED COM	Well Location: T26S / R29E / SEC 20 / NENE / 32.0329027 / -104.0001579	County or Parish/State: EDDY / NM
Well Number: 6H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM138836	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546147	Well Status: Drilling Well	Operator: MARATHON OIL PERMIAN LLC

Subsequent Report

Sundry ID: 2691067

Type of Submission: Subsequent Report

Date Sundry Submitted: 09/07/2022

Date Operation Actually Began: 06/20/2022

Type of Action: Hydraulic Fracturing

Time Sundry Submitted: 10:05

Actual Procedure: 6/20/2022 - Start frac prep operations. 6/22/2022 - MIRU. 6/29/2022 - Pressure test casing to 9738 psi for 30 min, drop to 9361 psi, good test. Start frac stages 1 - 19 with 2 shots per foot for a total of 456 shots, 0.39-in in size using 11,318,694 lbs of 100 Mesh sand. Total interval from 9,925' to 14,456'. 7/8/2022 - Finish frac operations and begin RD frac equipment. 7/9/2022 - MIRU FB equipmnet. 7/18/2022 - Well Ready to Produce. 7/19/2022 - Commence flowback operations and turn well over to production. 8/26/2022 - Artificial Lift install. Install 2-7/8", 6.50#, L80, Tubing set at 8690'. 8/30/2022 - Hand over to production.

Received by OCD: 9/16/2022 3:23:02 PM

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Well Name: MAZER RACKHAM 20 WA FED COM	Well Location: T26S / R29E / SEC 20 / NENE / 32.0329027 / -104.0001579	County or Parish/State: EDDY / NM
Well Number: 6H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM138836	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546147	Well Status: Drilling Well	Operator: MARATHON OIL PERMIAN LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: ADRIAN COVARRUBIAS	Signed on: SEP 07, 2022 10:06 AM
Name: MARATHON OIL PERMIAN LLC	
Title: regulatory Compliance Representative	
Street Address: 990 TOWN & COUNTRY BLVD	
City: HOUSTON	State: TX
Phone: (713) 296-3368	
Email address: acovarrubias@marathonoil.com	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: Jonathon W Shepard	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345972	BLM POC Email Address: jshepard@blm.gov
Disposition: Accepted	Disposition Date: 09/15/2022
Signature: Jonathon Shepard	

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name Mazer Rackham 20 WA Federal Com		
								6. Well Number: 6H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Marathon Oil Permian LLC							9. OGRID 372098			
10. Address of Operator 990 Town & Country Blvd. Houston, TX 77024							11. Pool name or Wildcat Purple Sage; Wolfcamp (Gas)			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	A	20	26S	29E		965	N	630	E	EDDY
BH:	P	20	26S	29E		350	S	1001	E	EDDY
13. Date Spudded 12/25/2019	14. Date T.D. Reached 3/21/2022		15. Date Rig Released 3/23/2022		16. Date Completed (Ready to Produce) 7/18/2022			17. Elevations (DF and RKB, RT, GR, etc.) 2872' GL		
18. Total Measured Depth of Well 14513'			19. Plug Back Measured Depth 14500'		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run MUD GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 9925' - 14456'; Wolfcamp										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8"		54.5#, J55, STC		437'		17-1/2"		455		
9-5/8"		40#, J55, LTC		2824'		12-1/4"		990		
8-3/4"		29#, P110, Roughneck		9225'		8-3/4"		1970		
4-1/2"		13.5#, P110, Roughneck		8763' - 14513'		6-1/8"		540		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM		SACKS CEMENT	SCREEN	SIZE	DEPTH SET		PACKER SET	
4-1/2"	8763'	14513'		540		2-7/8"	8690'			
26. Perforation record (interval, size, and number) 9925' - 14456'; 039", 456 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						9925' - 14456'		11,318,694 lbs Proppant		
						9925' - 14456'		232,608 bbls - Brackish Water		
28. PRODUCTION										
Date First Production 7/19/2022		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Flowing				Well Status (<i>Prod. or Shut-in</i>) Producing				
Date of Test 8/18/2022	Hours Tested 24 hrs	Choke Size 64/64	Prod'n For Test Period	Oil - Bbl 1136	Gas - MCF 3895	Water - Bbl. 3322	Gas - Oil Ratio			
Flow Tubing Press. 0	Casing Pressure 734	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) Sold							30. Test Witnessed By			
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude			Longitude			NAD83				
<i>I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief</i>										
Signature 		Printed Name Adrian Covarrubias			Title Regulatory Compliance Rep.			Date 9/16/2022		
E-mail Address acovarrubias@marathonoil.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs 7503'	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp 9767'	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

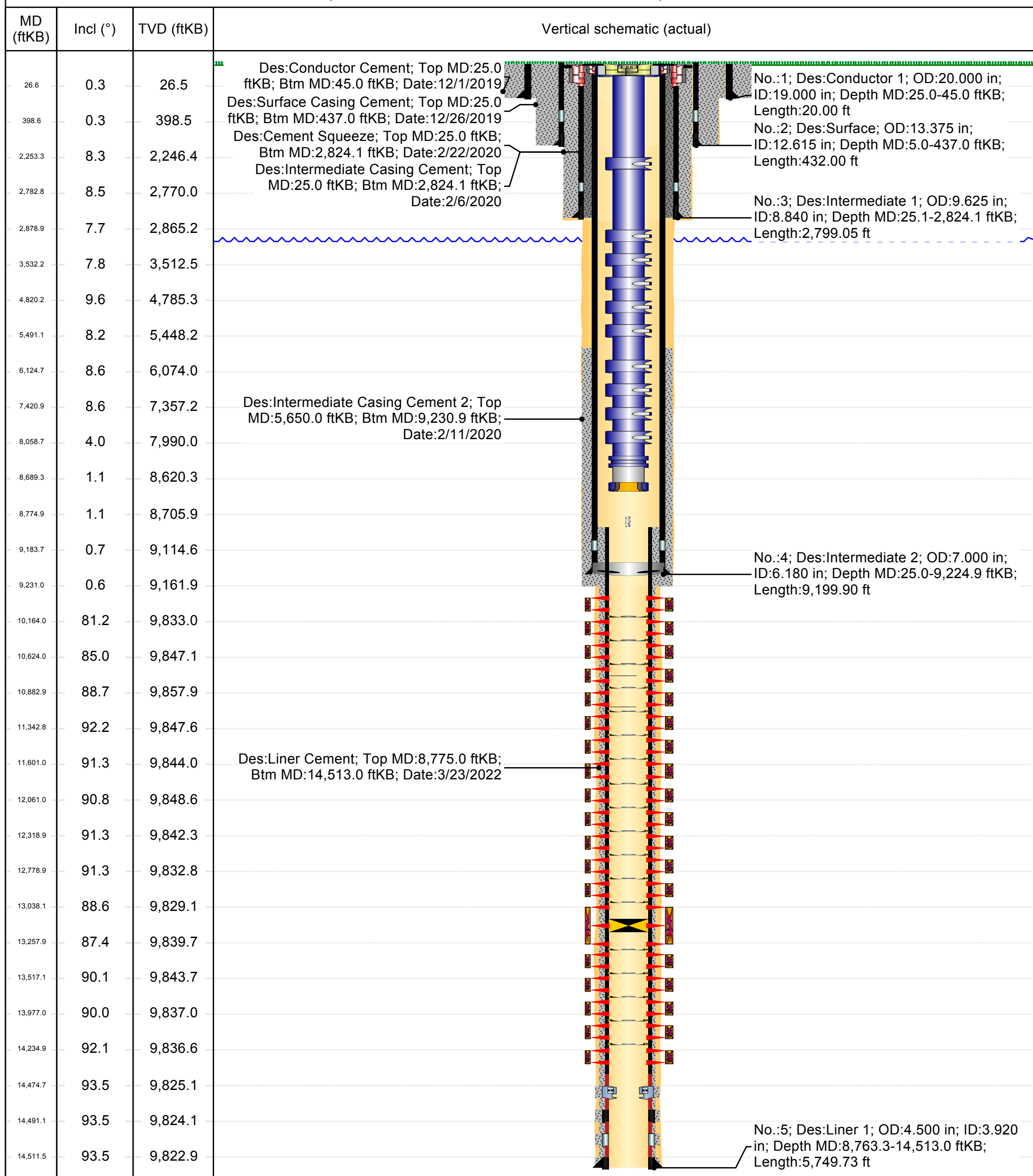


Wellbore Schematic

Well Name: MAZER RACKHAM 20 WA FEDERAL COM 006H

State/Province NEW MEXICO	Country UNITED STATES	Field Name MALAGA	Latitude (°) 32.03279420	Longitude (°) -103.99973420	North/South Distance (ft) 965.0	North/South Reference FNL
API/ IPO UWI 3001546147	KB-Ground Distance (ft) 25.00	KB-Mud Line Distance (ft)	Ground Elevation (ft) 2,872.00	Drilling Rig Spud Date 2/3/2020	Well Original Completion Date 7/15/2022	Well First Production Date 7/19/2022

HORIZONTAL, MAZER RACKHAM 20 WA FEDERAL COM 006H, 9/7/2022 12:18:45 PM



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

ACKNOWLEDGMENTS

Action 144202

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 144202
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 144202

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 144202
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	10/20/2022