

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 - 015-45653	⁵ Pool Name Wildcat G-04 S262908A; Bone Spring	⁶ Pool Code 97801
⁷ Property Code 326255	⁸ Property Name Mazer Rackham 20 SB Federal Com	⁹ Well Number 5H

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		966	NORTH	570	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		160	SOUTH	995	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				

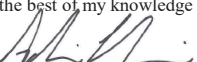
III. Oil and Gas Transporters

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 3/13/2019	²² Ready Date 7/18/2022	²³ TD 13336'	²⁴ PBTB 13307'	²⁵ Perforations 8510' - 13262'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5"	13.375", 54.5#, J55, STC	399'	485		
12.25"	9.625", 36#, J55, LTC	2710'	720		
8.75"	7", 29#, P110, BTC	9228'	595		
6.125"	4.5", 13.5#, P110, Roughneck Tubing: 2-7/8"	7247' - 13320' Tubing: 7141'	500		

V. Well Test Data

³¹ Date New Oil 7/20/2022	³² Gas Delivery Date 7/20/2022	³³ Test Date 8/12/2022	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 4922
³⁷ Choke Size 64/64	³⁸ Oil 1747	³⁹ Water 3082	⁴⁰ Gas 3510		⁴¹ Test Method F
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: 2/27/2023		
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 30-15-45653	² Pool Code 97801	³ Pool Name WILDCAT G-04 S262908A; BONE SPRING
⁴ Property Code 326255	Property Name MAZER RACKHAM 20 SB FED COM	
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC.	⁶ Well Number 5H
		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		966	NORTH	570	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		100	SOUTH	994	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: 645175.01' / Y: 376837.52'
 B - X: 645193.17' / Y: 374202.36'
 C - X: 645293.57' / Y: 371608.28'
 D - X: 642590.08' / Y: 371460.95'
 E - X: 642562.49' / Y: 374173.92'
 F - X: 642535.61' / Y: 376817.53'

CORNER COORDINATES NAD 27, SPCS NM EAST
 A - X: 603989.47' / Y: 376779.95'
 B - X: 604007.56' / Y: 374144.84'
 C - X: 604107.90' / Y: 371550.82'
 D - X: 601404.47' / Y: 371403.51'
 E - X: 601376.95' / Y: 374116.43'
 F - X: 601350.13' / Y: 376759.99'

SURFACE HOLE LOCATION
 966' FNL 570' FEL, SECTION 20
 NAD 83, SPCS NM EAST
 X: 644611.33' / Y: 375867.70'
 LAT: 32.03290236N / LON: 104.00006088W
 NAD 27, SPCS NM EAST
 X: 603425.78' / Y: 375810.15'
 LAT: 32.03277736N / LON: 103.99957812W

KICK OFF POINT
 153' FNL 669' FEL, SECTION 20
 7755' MEASURED DEPTH IN FEET
 NAD 83, SPCS NM EAST
 X: 644507.26' / Y: 376679.71'
 LAT: 32.03513540N / LON: 104.00038863W
 NAD 27, SPCS NM EAST
 X: 603321.73' / Y: 376622.14'
 LAT: 32.03501043N / LON: 103.9990578W

FIRST TAKE POINT
 393' FNL 865' FEL, SECTION 20
 8510' MEASURED DEPTH IN FEET
 NAD 83, SPCS NM EAST
 X: 644313.00' / Y: 376438.45'
 LAT: 32.03447384N / LON: 104.00101793W
 NAD 27, SPCS NM EAST
 X: 603127.47' / Y: 376380.89'
 LAT: 32.03434887N / LON: 104.00053508W

LAST TAKE POINT
 174' FSL 995' FEL, SECTION 20
 13262' MEASURED DEPTH IN FEET
 NAD 83, SPCS NM EAST
 X: 644293.50' / Y: 371727.91'
 LAT: 32.02152499N / LON: 104.00112761W
 NAD 27, SPCS NM EAST
 X: 603107.85' / Y: 371670.44'
 LAT: 32.02139986N / LON: 104.00064519W

BOTTOM HOLE LOCATION
 100' FSL 994' FEL, SECTION 20
 13336' MEASURED DEPTH IN FEET
 NAD 83, SPCS NM EAST
 X: 644297.36' / Y: 371654.06'
 LAT: 32.02132194N / LON: 104.00111588W
 NAD 27, SPCS NM EAST
 X: 603111.71' / Y: 371596.60'
 LAT: 32.02119681N / LON: 104.00063347W

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: Adrian Covarrubias Date: 9/7/2022

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.

Date of Survey: AUGUST 16, 2022

Signature and Seal of Professional Surveyor: LLOYD P. SHORT

Certificate Number: 21653

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 SB Fed Com 5H

Sidetrack #1

Design: ST #1 Final Surveys

Standard Survey Report

15 April, 2022





Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Mazer Rackham 20 SB Fed Com 5H
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 SB Fed Com 5H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1 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 SB Fed Com 5H		
Well Position	+N/-S	0.00 usft	Northing: 375,810.09 usft
	+E/-W	0.00 usft	Easting: 603,425.73 usft
Position Uncertainty	0.50 usft	Wellhead Elevation:	usft
Grid Convergence:	0.18 °	Ground Level:	2,872.00 usft

Wellbore	Sidetrack #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/1/2022	6.64	59.64	47,266.43389024

Design	ST #1 Final Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	7,670.50
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	178.93	

Survey Program	Date	4/15/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
140.50	7,670.50	MWD (Pilot Hole)	MWD+HRGM	OWSG MWD + HRGM	
7,748.00	13,336.00	MWD (Sidetrack #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	
140.50	2.30	56.60	140.46	1.55	2.35	-1.51	1.64	1.64	0.00	
234.50	2.90	53.10	234.37	4.02	5.83	-3.91	0.66	0.64	-3.72	
421.50	3.30	62.90	421.09	9.31	14.40	-9.04	0.35	0.21	5.24	
512.50	2.10	66.50	511.99	11.17	18.27	-10.83	1.33	-1.32	3.96	
603.50	0.80	76.80	602.96	11.98	20.41	-11.60	1.45	-1.43	11.32	
694.50	0.70	107.10	693.95	11.96	21.56	-11.56	0.44	-0.11	33.30	
785.50	0.20	247.80	784.95	11.74	21.95	-11.32	0.95	-0.55	154.62	
875.50	0.80	271.00	874.95	11.69	21.17	-11.29	0.69	0.67	25.78	



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Mazer Rackham 20 SB Fed Com 5H
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 SB Fed Com 5H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1 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)
968.50	0.90	259.10	967.94	11.56	19.81	-11.19	0.22	0.11	-12.80
1,057.50	1.00	253.90	1,056.92	11.21	18.37	-10.87	0.15	0.11	-5.84
1,146.50	1.20	241.60	1,145.91	10.56	16.81	-10.24	0.35	0.22	-13.82
1,236.50	1.40	218.30	1,235.88	9.24	15.30	-8.96	0.62	0.22	-25.89
1,326.50	1.50	204.80	1,325.86	7.31	14.12	-7.05	0.39	0.11	-15.00
1,415.50	1.90	195.50	1,414.82	4.83	13.24	-4.58	0.54	0.45	-10.45
1,504.50	1.30	199.30	1,503.78	2.46	12.51	-2.22	0.68	-0.67	4.27
1,593.50	0.90	216.70	1,592.77	0.94	11.76	-0.73	0.58	-0.45	19.55
1,682.50	0.70	249.00	1,681.76	0.19	10.83	0.01	0.54	-0.22	36.29
1,771.50	0.90	321.50	1,770.75	0.54	9.89	-0.36	1.08	0.22	81.46
1,861.50	1.00	343.70	1,860.74	1.85	9.23	-1.68	0.42	0.11	24.67
1,950.50	1.80	359.80	1,949.71	3.99	9.01	-3.82	0.99	0.90	18.09
2,040.50	3.00	356.00	2,039.63	7.75	8.84	-7.59	1.34	1.33	-4.22
2,129.50	4.60	357.60	2,128.43	13.64	8.53	-13.48	1.80	1.80	1.80
2,219.50	6.40	6.00	2,218.02	22.24	8.90	-22.07	2.19	2.00	9.33
2,308.50	9.50	2.80	2,306.15	34.51	9.78	-34.32	3.52	3.48	-3.60
2,397.50	11.80	4.60	2,393.61	50.92	10.87	-50.71	2.61	2.58	2.02
2,487.50	11.40	15.80	2,481.78	68.65	14.03	-68.38	2.54	-0.44	12.44
2,576.50	9.90	18.60	2,569.25	84.37	18.86	-84.00	1.78	-1.69	3.15
2,640.50	8.90	11.50	2,632.39	94.44	21.61	-94.02	2.39	-1.56	-11.09
2,758.50	7.90	359.70	2,749.13	111.49	23.38	-111.04	1.68	-0.85	-10.00
2,847.50	8.80	342.90	2,837.20	124.12	21.35	-123.70	2.91	1.01	-18.88
2,937.50	10.40	345.90	2,925.94	138.58	17.34	-138.23	1.86	1.78	3.33
3,026.50	11.00	345.60	3,013.39	154.59	13.28	-154.32	0.68	0.67	-0.34
3,115.50	11.00	346.50	3,100.76	171.07	9.18	-170.87	0.19	0.00	1.01
3,205.50	11.10	345.40	3,189.09	187.81	4.99	-187.68	0.26	0.11	-1.22
3,294.50	11.50	346.70	3,276.36	204.73	0.79	-204.68	0.53	0.45	1.46
3,383.50	11.20	345.80	3,363.62	221.74	-3.37	-221.77	0.39	-0.34	-1.01
3,473.50	11.20	344.10	3,451.91	238.62	-7.91	-238.73	0.37	0.00	-1.89
3,562.50	11.40	343.60	3,539.18	255.37	-12.76	-255.57	0.25	0.22	-0.56
3,652.50	10.70	342.50	3,627.51	271.88	-17.78	-272.16	0.81	-0.78	-1.22
3,741.50	10.10	340.90	3,715.05	287.13	-22.82	-287.51	0.75	-0.67	-1.80
3,831.50	11.10	342.30	3,803.51	302.84	-28.04	-303.31	1.15	1.11	1.56
3,915.50	11.10	342.50	3,885.94	318.25	-32.93	-318.81	0.05	0.00	0.24
4,009.50	11.30	341.60	3,978.15	335.62	-38.55	-336.28	0.28	0.21	-0.96
4,098.50	11.50	346.90	4,065.40	352.54	-43.32	-353.29	1.20	0.22	5.96
4,188.50	11.70	352.20	4,153.56	370.32	-46.59	-371.12	1.20	0.22	5.89
4,277.50	11.30	351.20	4,240.78	387.88	-49.15	-388.73	0.50	-0.45	-1.12
4,366.50	11.30	350.20	4,328.05	405.09	-51.97	-405.98	0.22	0.00	-1.12
4,456.50	11.00	349.10	4,416.35	422.21	-55.09	-423.16	0.41	-0.33	-1.22
4,545.50	10.70	347.70	4,503.76	438.62	-58.46	-439.63	0.45	-0.34	-1.57
4,634.50	10.60	354.10	4,591.23	454.83	-61.06	-455.89	1.33	-0.11	7.19
4,723.50	11.20	359.20	4,678.63	471.62	-62.02	-472.69	1.28	0.67	5.73



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Mazer Rackham 20 SB Fed Com 5H
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Well:	Mazer Rackham 20 SB Fed Com 5H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1 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)	
4,813.50	11.10	357.90	4,766.93	489.01	-62.46	-490.10	0.30	-0.11	-1.44	
4,902.50	10.60	356.40	4,854.34	505.75	-63.29	-506.84	0.65	-0.56	-1.69	
4,991.50	9.90	355.20	4,941.92	521.54	-64.44	-522.65	0.82	-0.79	-1.35	
5,080.50	10.10	355.40	5,029.56	536.94	-65.71	-538.08	0.23	0.22	0.22	
5,170.50	9.80	355.10	5,118.21	552.44	-66.99	-553.59	0.34	-0.33	-0.33	
5,259.50	9.50	353.40	5,205.95	567.28	-68.49	-568.46	0.46	-0.34	-1.91	
5,348.50	10.50	351.90	5,293.60	582.61	-70.47	-583.82	1.16	1.12	-1.69	
5,438.50	10.60	350.60	5,382.08	598.89	-72.98	-600.15	0.29	0.11	-1.44	
5,527.50	9.80	349.50	5,469.67	614.42	-75.70	-615.72	0.93	-0.90	-1.24	
5,617.50	9.20	349.90	5,558.44	629.03	-78.35	-630.38	0.67	-0.67	0.44	
5,706.50	9.90	351.40	5,646.20	643.60	-80.75	-645.00	0.83	0.79	1.69	
5,795.50	11.50	354.50	5,733.65	660.00	-82.74	-661.43	1.91	1.80	3.48	
5,884.50	11.30	354.00	5,820.90	677.50	-84.50	-678.96	0.25	-0.22	-0.56	
5,973.50	11.30	355.20	5,908.17	694.86	-86.14	-696.35	0.26	0.00	1.35	
6,062.50	10.90	355.70	5,995.51	711.94	-87.50	-713.45	0.46	-0.45	0.56	
6,152.50	10.20	356.10	6,083.98	728.38	-88.68	-729.91	0.78	-0.78	0.44	
6,241.50	9.10	355.90	6,171.72	743.26	-89.72	-744.81	1.24	-1.24	-0.22	
6,330.50	8.40	355.50	6,259.69	756.76	-90.74	-758.32	0.79	-0.79	-0.45	
6,420.50	6.10	359.00	6,348.96	768.10	-91.34	-769.67	2.60	-2.56	3.89	
6,509.50	4.30	2.80	6,437.59	776.16	-91.26	-777.73	2.06	-2.02	4.27	
6,598.50	3.70	359.90	6,526.37	782.36	-91.10	-783.93	0.71	-0.67	-3.26	
6,688.50	2.60	9.20	6,616.24	787.28	-90.78	-788.84	1.34	-1.22	10.33	
6,777.50	2.10	359.60	6,705.16	790.91	-90.47	-792.46	0.71	-0.56	-10.79	
6,867.50	1.10	10.00	6,795.13	793.41	-90.33	-794.95	1.15	-1.11	11.56	
6,956.50	0.70	7.20	6,884.12	794.79	-90.11	-796.33	0.45	-0.45	-3.15	
7,045.50	1.50	336.50	6,973.10	796.39	-90.51	-797.94	1.09	0.90	-34.49	
7,135.50	1.40	317.50	7,063.07	798.28	-91.72	-799.86	0.54	-0.11	-21.11	
7,224.50	1.10	311.10	7,152.05	799.65	-93.10	-801.25	0.37	-0.34	-7.19	
7,313.50	1.40	314.00	7,241.03	800.96	-94.52	-802.59	0.34	0.34	3.26	
7,402.50	1.80	295.00	7,329.99	802.31	-96.57	-803.97	0.74	0.45	-21.35	
7,492.50	2.20	316.90	7,419.94	804.17	-99.03	-805.88	0.95	0.44	24.33	
7,581.50	2.20	325.00	7,508.88	806.82	-101.18	-808.56	0.35	0.00	9.10	
7,670.50	2.10	339.20	7,597.81	809.74	-102.74	-811.52	0.61	-0.11	15.96	
ST #1 Tie On										
7,748.00	2.01	349.64	7,675.26	812.40	-103.49	-814.19	0.50	-0.12	13.47	
First SB MWD Survey										
7,844.00	11.35	228.03	7,770.68	807.72	-110.84	-809.65	13.04	9.73	-126.68	
7,940.00	9.50	233.64	7,865.09	796.71	-124.25	-798.89	2.20	-1.93	5.84	
8,036.00	11.46	226.21	7,959.49	785.41	-137.51	-787.84	2.48	2.04	-7.74	
8,131.00	21.77	220.01	8,050.40	765.33	-155.70	-768.10	11.00	10.85	-6.53	
8,227.00	30.80	217.83	8,136.39	732.21	-182.28	-735.49	9.46	9.41	-2.27	
8,323.00	38.86	219.08	8,215.13	689.35	-216.40	-693.27	8.43	8.40	1.30	
8,418.00	51.92	216.40	8,281.71	635.89	-257.55	-640.58	13.89	13.75	-2.82	
8,514.00	61.64	208.11	8,334.30	567.97	-300.03	-573.48	12.43	10.13	-8.64	



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Mazer Rackham 20 SB Fed Com 5H
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 SB Fed Com 5H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1 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)
8,610.00	69.64	200.95	8,373.91	488.47	-336.12	-494.67	10.75	8.33	-7.46
8,705.00	73.87	193.77	8,403.68	402.43	-362.95	-409.13	8.44	4.45	-7.56
8,801.00	74.07	190.44	8,430.20	312.22	-382.29	-319.31	3.34	0.21	-3.47
8,897.00	78.38	186.96	8,453.06	220.09	-396.36	-227.46	5.70	4.49	-3.63
8,992.00	81.93	184.03	8,469.30	126.95	-405.31	-134.49	4.82	3.74	-3.08
9,088.00	92.08	182.01	8,474.31	31.34	-410.35	-39.00	10.78	10.57	-2.10
9,184.00	91.74	181.78	8,471.11	-64.55	-413.52	56.82	0.43	-0.35	-0.24
9,279.00	89.47	180.38	8,470.11	-159.52	-415.31	151.74	2.81	-2.39	-1.47
9,375.00	88.88	179.48	8,471.49	-255.51	-415.19	247.71	1.12	-0.61	-0.94
9,471.00	92.02	179.99	8,470.74	-351.50	-414.75	343.69	3.31	3.27	0.53
9,566.00	91.85	179.89	8,467.53	-446.44	-414.65	438.62	0.21	-0.18	-0.11
9,662.00	91.37	180.17	8,464.83	-542.40	-414.70	534.56	0.58	-0.50	0.29
9,758.00	88.74	178.57	8,464.74	-638.39	-413.64	630.55	3.21	-2.74	-1.67
9,853.00	88.21	178.23	8,467.27	-733.31	-410.99	725.51	0.66	-0.56	-0.36
9,949.00	87.84	177.49	8,470.58	-829.19	-407.41	821.44	0.86	-0.39	-0.77
10,045.00	89.36	177.63	8,472.92	-925.07	-403.32	917.38	1.59	1.58	0.15
10,140.00	88.46	176.79	8,474.73	-1,019.94	-398.70	1,012.32	1.30	-0.95	-0.88
10,236.00	91.57	178.67	8,474.70	-1,115.85	-394.90	1,108.28	3.79	3.24	1.96
10,332.00	90.22	177.56	8,473.20	-1,211.78	-391.74	1,204.25	1.82	-1.41	-1.16
10,427.00	90.39	177.84	8,472.70	-1,306.70	-387.93	1,299.23	0.34	0.18	0.29
10,523.00	90.67	178.11	8,471.81	-1,402.64	-384.54	1,395.21	0.41	0.29	0.28
10,619.00	90.22	177.34	8,471.07	-1,498.56	-380.73	1,491.19	0.93	-0.47	-0.80
10,715.00	90.39	177.45	8,470.55	-1,594.46	-376.36	1,587.15	0.21	0.18	0.11
10,810.00	90.45	179.70	8,469.86	-1,689.42	-374.00	1,682.14	2.37	0.06	2.37
10,906.00	90.03	179.60	8,469.46	-1,785.42	-373.41	1,778.13	0.45	-0.44	-0.10
11,001.00	89.64	179.07	8,469.73	-1,880.41	-372.31	1,873.13	0.69	-0.41	-0.56
11,097.00	89.08	178.94	8,470.80	-1,976.39	-370.65	1,969.12	0.60	-0.58	-0.14
11,192.00	90.06	181.62	8,471.51	-2,071.38	-371.11	2,064.08	3.00	1.03	2.82
11,288.00	90.28	182.45	8,471.23	-2,167.31	-374.52	2,159.94	0.89	0.23	0.86
11,383.00	88.66	181.17	8,472.11	-2,262.26	-377.52	2,254.81	2.17	-1.71	-1.35
11,479.00	89.75	179.86	8,473.44	-2,358.24	-378.38	2,350.76	1.78	1.14	-1.36
11,575.00	91.43	178.94	8,472.45	-2,454.23	-377.38	2,446.75	2.00	1.75	-0.96
11,670.00	90.00	177.84	8,471.27	-2,549.18	-374.71	2,541.74	1.90	-1.51	-1.16
11,766.00	88.80	177.10	8,472.27	-2,645.08	-370.47	2,637.70	1.47	-1.25	-0.77
11,861.00	88.35	176.90	8,474.63	-2,739.92	-365.50	2,732.61	0.52	-0.47	-0.21
11,957.00	89.13	177.69	8,476.75	-2,835.78	-360.97	2,828.55	1.16	0.81	0.82
12,053.00	91.76	179.72	8,476.00	-2,931.74	-358.80	2,924.53	3.46	2.74	2.11
12,148.00	91.60	179.28	8,473.21	-3,026.70	-357.97	3,019.49	0.49	-0.17	-0.46
12,244.00	91.37	178.36	8,470.73	-3,122.65	-356.00	3,115.45	0.99	-0.24	-0.96
12,340.00	93.05	178.79	8,467.02	-3,218.54	-353.61	3,211.38	1.81	1.75	0.45
12,436.00	88.74	176.80	8,465.53	-3,314.43	-349.92	3,307.32	4.94	-4.49	-2.07
12,531.00	91.57	178.51	8,465.27	-3,409.34	-346.03	3,402.28	3.48	2.98	1.80
12,627.00	90.00	178.06	8,463.95	-3,505.28	-343.16	3,498.26	1.70	-1.64	-0.47



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Mazer Rackham 20 SB Fed Com 5H
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 SB Fed Com 5H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1 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)	
12,723.00	89.75	177.91	8,464.16	-3,601.22	-339.78	3,594.25	0.30	-0.26	-0.16	
12,819.00	90.62	177.95	8,463.85	-3,697.16	-336.31	3,690.23	0.91	0.91	0.04	
12,914.00	89.41	177.40	8,463.83	-3,792.08	-332.46	3,785.21	1.40	-1.27	-0.58	
13,010.00	90.76	177.53	8,463.69	-3,887.98	-328.22	3,881.17	1.41	1.41	0.14	
13,105.00	88.01	178.02	8,464.71	-3,982.89	-324.53	3,976.14	2.94	-2.89	0.52	
13,201.00	87.73	177.54	8,468.27	-4,078.76	-320.81	4,072.05	0.58	-0.29	-0.50	
13,276.00	87.93	176.95	8,471.11	-4,153.62	-317.21	4,146.97	0.83	0.27	-0.79	
Last SB MWD Survey										
13,336.00	87.93	176.95	8,473.28	-4,213.49	-314.02	4,206.89	0.00	0.00	0.00	
ST #1 PTB: 100' FSL, 994' FEL										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,670.50	7,597.81	809.74	-102.74	ST #1 Tie On	
7,748.00	7,675.26	812.40	-103.49	First SB MWD Survey	
13,276.00	8,471.11	-4,153.62	-317.21	Last SB MWD Survey	
13,336.00	8,473.28	-4,213.49	-314.02	ST #1 PTB: 100' FSL, 994' FEL	

Well Name: MAZER RACKHAM 20 SB FED COM	Well Location: T26S / R29E / SEC 20 / NENE / 32.0329022 / -104.000061	County or Parish/State: EDDY / NM
Well Number: 5H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM138836	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001545653	Well Status: Approved Application for Permit to Drill	Operator: MARATHON OIL PERMIAN LLC

Subsequent Report

Sundry ID: 2691142

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: 01:07

Actual Procedure: 6/20/2022 - Start frac prep operations. 6/22/2022 - MIRU. 6/24/2022 - Pressure test production casing to 13340 psi for 30 min, held, good test. Start frac stages 1 - 19 with 2 shots per foot for a total of 456 shots, 0.39-in in size using 11,884,062 lbs proppant and 236443 bbls of brackish water. Total interval from 8,510' to 13,262'. 7/8/2022 - Finish frac operations and begin RD frac equipment. MIRU FB Equipment. 7/18/2022 - Well Ready to Produce. 7/20/2022 - Commence flowback operations and turn well over to production. 8/30/2022 - Gas Lift installation with 2-7/8", 6.5#, L80 tubing set at 7141'. 8/31/2022 - Handover to Production.

Received by OCD: 9/16/2022 1:48:44 PM

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Well Name: MAZER RACKHAM 20 SB FED COM	Well Location: T26S / R29E / SEC 20 / NENE / 32.0329022 / -104.000061	County or Parish/State: EDDY / NM
Well Number: 5H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM138836	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001545653	Well Status: Approved Application for Permit to Drill	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 01:06 PM
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 SB Federal Com 6. Well Number: 5H												
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 Wildcat G-04 S262908A; Bone Spring												
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		966	North	570	East	Eddy								
BH:	P	20	26S	29E		160	South	995	East	Eddy								
13. Date Spudded 3/13/2019	14. Date T.D. Reached 4/2/2022		15. Date Rig Released 4/5/2022		16. Date Completed (Ready to Produce) 7/18/2022			17. Elevations (DF and RKB, RT, GR, etc.) 2872'										
18. Total Measured Depth of Well 13336'			19. Plug Back Measured Depth 13307		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run GR										
22. Producing Interval(s), of this completion - Top, Bottom, Name 8510' - 13262'; Wolfcamp																		
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
13.375"		54.5#, J55, STC		399'		17.5"		485										
9.625"		36#, J55, LTC		2710'		12.25"		720										
7"		29#, P110, BTC		9228'		8.75"		595										
4.5"		13.5#, P110, Roughne		7247' - 13320'		6.125"		500										
24. LINER RECORD						25. TUBING RECORD												
SIZE	TOP	BOTTOM		SACKS CEMENT	SCREEN	SIZE	DEPTH SET		PACKER SET									
4.5"	7247'	13320'		500		2-7/8"	7141'											
26. Perforation record (interval, size, and number) 8510' - 13262'; 0.39", 456 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>8510' - 13262'</td> <td>11,884,062 lbs - Proppant</td> </tr> <tr> <td>8510' - 13262'</td> <td>236443 bbls - brackish water</td> </tr> <tr> <td></td> <td></td> </tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	8510' - 13262'	11,884,062 lbs - Proppant	8510' - 13262'	236443 bbls - brackish water		
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
8510' - 13262'	11,884,062 lbs - Proppant																	
8510' - 13262'	236443 bbls - brackish water																	
28. PRODUCTION																		
Date First Production 7/20/2022		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Flowing				Well Status (<i>Prod. or Shut-in</i>) Prod.												
Date of Test 8/12/2022	Hours Tested 24	Choke Size 64/64	Prod'n For Test Period	Oil - Bbl 1747	Gas - MCF 3510	Water - Bbl. 3082	Gas - Oil Ratio 567											
Flow Tubing Press. 0	Casing Pressure 4922	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 2774'	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 7519'	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	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 SB FED COM 005H

State/Province NEW MEXICO	Country UNITED STATES	Field Name PURPLE SAGE	Latitude (°) 32.03290220	Longitude (°) -104.00006106	North/South Distance (ft) 966.0	North/South Reference FNL
API/ IPO UWI 3001545653	KB-Ground Distance (ft) 25.00	KB-Mud Line Distance (ft)	Ground Elevation (ft) 2,872.00	Drilling Rig Spud Date 3/13/2019	Well Original Completion Date	Well First Production Date 7/20/2022

HORIZONTAL, MAZER RACKHAM 20 SB FED COM 005H, 9/12/2022 2:13:06 PM

MD (ftKB)	Incl (°)	TVD (ftKB)	Vertical schematic (actual)
-109.9	2.3	-109.7	
-77.1	2.3	-77.0	
-40.7	2.3	-40.6	
-4.6	2.3	-4.5	
0.0	2.3	0.1	Des:Conductor Cement; Top MD:25.0 ftKB; Btm MD:145.0 ftKB; Date:3/1/2019
25.6	2.3	25.6	Des:Surface Casing Cement; Top MD:25.0 ftKB; Btm MD:398.7 ftKB; Date:3/14/2019
26.2	2.3	26.3	Des:Surface Casing Cement (plug); Top MD:354.1 ftKB; Btm MD:398.7 ftKB; Date:3/14/2019
145.0	2.3	145.0	Des:Intermediate Casing Cement; Top MD:25.0 ftKB; Btm MD:2,709.6 ftKB; Date:3/16/2019
355.3	3.2	355.0	Des:Intermediate Casing Cement (plug); Top MD:2,664.4 ftKB; Btm MD:2,709.6 ftKB; Date:3/16/2019
398.6	3.3	398.2	
2,107.3	4.2	2,106.3	
2,666.3	8.7	2,657.9	
2,709.6	8.3	2,700.8	Des:Cement Squeeze; Top MD:25.0 ftKB; Btm MD:9,227.8 ftKB; Date:2/22/2020
3,618.1	11.0	3,593.7	
4,743.8	11.2	4,698.5	
5,505.2	10.0	5,447.7	
6,039.4	11.0	5,972.8	Des:Intermediate Casing Cement; Top MD:5,432.0 ftKB; Btm MD:9,227.8 ftKB; Date:3/24/2019
6,573.2	3.9	6,501.1	
7,107.0	1.4	7,034.5	
7,141.1	1.4	7,068.6	
7,247.0	1.2	7,174.6	
8,742.1	73.9	8,414.0	
8,993.1	82.0	8,469.4	
9,184.1	91.7	8,471.2	
9,227.7	90.7	8,470.7	
9,263.1	89.8	8,470.3	
9,514.1	91.9	8,469.3	
9,765.1	88.7	8,465.0	
10,016.1	88.9	8,472.3	
10,268.0	91.1	8,474.3	
10,519.0	90.7	8,471.9	
10,770.0	90.4	8,470.2	
11,021.0	89.5	8,470.0	
11,272.0	90.2	8,471.3	
11,523.0	90.5	8,473.1	
11,773.9	88.8	8,472.5	
12,024.9	91.0	8,476.3	
12,275.9	91.9	8,469.6	
12,527.9	91.5	8,465.3	
12,778.9	90.3	8,464.0	
13,029.9	90.2	8,464.0	
13,255.9	87.9	8,470.4	
13,319.9	87.9	8,472.8	

District I
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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 144162

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 144162
	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 144162

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 144162
	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.	2/27/2023