

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 / Effective 10/25/2022
⁴ API Number 30 - 015-46983	⁵ Pool Name Purple Sage; Wolfcamp (Gas)	⁶ Pool Code 98220
⁷ Property Code 328096	⁸ Property Name Honey Mustard 22 WXY Fed Com	⁹ Well Number 8H

II. 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
M	22	24S	28E		479	SOUTH	959	WEST	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
L	15	24S	28E		2351	SOUTH	670	WEST	EDDY
¹² Lse Code F	¹³ Producing Method Code F	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
330564	Crestwood New Mexico Pipeline LLC G 811 Main St., Suite 3400, Houston, TX 77002	G
329971	Oryx Delaware Oil Transport LLC 4000 N Big Spring St. Suite 500, Midland, TX 79705	O
329461	San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway, Suite 1500, Dallas, TX 75240	W

IV. Well Completion Data

²¹ Spud Date 7/21/2022	²² Ready Date 10/17/2022	²³ TD 16860'	²⁴ PBDT 16840'	²⁵ Perforations 9715' - 16821'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8", 54.5#, J55, BTC	509'	Tail: 440 sacks, 1.34 yield, Class C		
12-1/4"	9-5/8", 40#, P110, BTC	6966'	Lead: 1185 sacks, 3.25 yield, Class H Tail: 355 sacks, 1.08 yield, Class H		
8-3/4" - 8-1/2"	5-1/2", 23#, P110, TLW	16845'	Lead: 806 sacks, 1.94 yield, Class H Tail: 2805 sacks, 1.23 yield, Class H		

V. Well Test Data

³¹ Date New Oil 10/25/2022	³² Gas Delivery Date 10/25/2022	³³ Test Date 11/7/2022	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1095
³⁷ Choke Size 64/64	³⁸ Oil 1960	³⁹ Water 4672	⁴⁰ Gas 4412		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: Adv. Regulatory Compliance Representative			Title: PETROLEUM SPECIALIST		
E-mail Address: acovarrubias@marathonoil.com			Approval Date: 8/9/2023		
Date: 3/31/2023		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
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☒ AMENDED REPORT
 As-Drilled

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-46983	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 328096	Property Name HONEY MUSTARD 22 WXY FED COM	⁶ Well Number 8H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC.	⁹ Elevation 3000'

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
M	22	24S	28E		479	SOUTH	959	WEST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	15	24S	28E		2351	SOUTH	670	WEST	EDDY
¹² Dedicated Acres 480.0	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.

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>[Signature]</i> 11/21/2022 Signature Date Adrian Covarrubias Printed Name E-mail Address 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. NOVEMBER 18, 2022 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number LLOYD P. SHORT 21653
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Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977572 Convergence Angle: 00°08'09.70192"



Marathon Oil Permian LLC

**Eddy County, NM (NAD27-NME)
Honey Mustard 22 WXY Fed Com
Honey Mustard 22 WXY Fed Com 8H**

OH / 70203

Design: Surveys (Cactus 169)

Standard Survey Report

10 August, 2022





Phoenix Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Honey Mustard 22 WXY Fed Com 8H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3023.60usft (Cactus 169)
Site:	Honey Mustard 22 WXY Fed Com	MD Reference:	RKB @ 3023.60usft (Cactus 169)
Well:	Honey Mustard 22 WXY Fed Com 8H	North Reference:	Grid
Wellbore:	OH / 70203	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 169)	Database:	USA Compass

Project	Eddy County, NM (NAD27-NME)		
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	Honey Mustard 22 WXY Fed Com		
Site Position:		Northing:	435,560.49 usft
From:	Map	Easting:	578,233.79 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 49.991748 N
		Longitude:	104° 4' 49.510128 W
		Grid Convergence:	0.135 °

Well	Honey Mustard 22 WXY Fed Com 8H		
Well Position	+N/-S	0.00 usft	Northing: 435,560.45 usft
	+E/-W	0.00 usft	Easting: 578,203.79 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 11' 49.992072 N
		Longitude:	104° 4' 49.859220 W
		Ground Level:	3,000.00 usft

Wellbore	OH / 70203		
Magnetics	Model Name	Sample Date	Declination (°)
	IFR	7/20/2022	6.859
			Dip Angle (°) 59.860
			Field Strength (nT) 47,511.00000000

Design	Surveys (Cactus 169)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 359.82

Survey Program	Date	8/10/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	16,860.00	Phoenix MWD Surveys (OH / 70203)	MWD+HRGM	OWSG MWD + HRGM

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
132.00	2.05	169.57	131.97	-2.32	0.43	-2.32	1.55	1.55	0.00
First Phoenix MWD Survey									
221.00	2.35	171.18	220.91	-5.69	1.00	-5.69	0.34	0.34	1.81
311.00	2.07	170.38	310.84	-9.12	1.55	-9.12	0.31	-0.31	-0.89
400.00	2.14	151.18	399.78	-12.16	2.62	-12.17	0.79	0.08	-21.57
439.00	2.11	145.62	438.75	-13.39	3.38	-13.40	0.53	-0.08	-14.26
563.00	2.37	150.60	562.66	-17.51	5.92	-17.52	0.26	0.21	4.02
607.00	2.27	156.09	606.62	-19.09	6.72	-19.12	0.55	-0.23	12.48
697.00	1.60	179.81	696.57	-21.98	7.45	-22.00	1.15	-0.74	26.36
788.00	3.29	246.98	787.50	-24.27	5.05	-24.29	3.35	1.86	73.81



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Site:	Honey Mustard 22 WXY Fed Com	MD Reference:	RKB @ 3023.60usft (Cactus 169)
Well:	Honey Mustard 22 WXY Fed Com 8H	North Reference:	Grid
Wellbore:	OH / 70203	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 169)	Database:	USA Compass

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)
878.00	3.21	242.40	877.36	-26.45	0.44	-26.45	0.30	-0.09	-5.09
967.00	2.93	236.67	966.23	-28.85	-3.67	-28.84	0.47	-0.31	-6.44
1,057.00	2.66	242.01	1,056.12	-31.10	-7.43	-31.07	0.42	-0.30	5.93
1,147.00	2.49	233.56	1,146.03	-33.24	-10.85	-33.21	0.46	-0.19	-9.39
1,236.00	2.23	227.71	1,234.96	-35.55	-13.69	-35.51	0.40	-0.29	-6.57
1,331.00	2.44	217.50	1,329.88	-38.40	-16.29	-38.35	0.49	0.22	-10.75
1,426.00	2.67	202.70	1,424.78	-42.05	-18.37	-41.99	0.73	0.24	-15.58
1,520.00	2.95	200.34	1,518.67	-46.33	-20.06	-46.27	0.32	0.30	-2.51
1,615.00	3.80	202.71	1,613.51	-51.53	-22.12	-51.46	0.91	0.89	2.49
1,709.00	5.27	207.07	1,707.21	-58.25	-25.29	-58.17	1.61	1.56	4.64
1,804.00	4.85	198.81	1,801.84	-65.94	-28.57	-65.85	0.88	-0.44	-8.69
1,898.00	5.43	206.87	1,895.46	-73.66	-31.86	-73.56	0.98	0.62	8.57
1,993.00	6.97	214.30	1,989.91	-82.44	-37.14	-82.32	1.82	1.62	7.82
2,087.00	9.14	214.85	2,082.97	-93.28	-44.62	-93.14	2.31	2.31	0.59
2,182.00	9.96	212.49	2,176.66	-106.40	-53.35	-106.23	0.96	0.86	-2.48
2,276.00	9.88	209.31	2,269.25	-120.29	-61.66	-120.09	0.59	-0.09	-3.38
2,371.00	9.94	206.81	2,362.83	-134.71	-69.35	-134.49	0.46	0.06	-2.63
2,465.00	9.75	214.02	2,455.45	-148.55	-77.46	-148.31	1.33	-0.20	7.67
2,560.00	9.58	215.66	2,549.10	-161.64	-86.57	-161.37	0.34	-0.18	1.73
2,654.00	9.64	215.42	2,641.79	-174.41	-95.69	-174.11	0.08	0.06	-0.26
2,749.00	9.76	214.97	2,735.43	-187.49	-104.92	-187.16	0.15	0.13	-0.47
2,843.00	9.88	213.56	2,828.05	-200.74	-113.94	-200.38	0.29	0.13	-1.50
2,938.00	9.93	212.81	2,921.63	-214.42	-122.89	-214.03	0.15	0.05	-0.79
3,032.00	10.21	212.57	3,014.19	-228.25	-131.76	-227.83	0.30	0.30	-0.26
3,127.00	10.12	211.59	3,107.69	-242.45	-140.67	-242.01	0.21	-0.09	-1.03
3,221.00	10.43	221.12	3,200.19	-255.90	-150.59	-255.42	1.84	0.33	10.14
3,316.00	10.45	222.72	3,293.62	-268.71	-162.09	-268.20	0.31	0.02	1.68
3,410.00	9.98	221.03	3,386.13	-281.11	-173.22	-280.57	0.59	-0.50	-1.80
3,505.00	9.78	220.70	3,479.72	-293.44	-183.89	-292.86	0.22	-0.21	-0.35
3,599.00	9.87	219.78	3,572.34	-305.69	-194.25	-305.07	0.19	0.10	-0.98
3,694.00	9.97	219.55	3,665.92	-318.28	-204.69	-317.64	0.11	0.11	-0.24
3,788.00	9.75	219.64	3,758.54	-330.69	-214.95	-330.01	0.23	-0.23	0.10
3,883.00	9.88	219.03	3,852.14	-343.21	-225.22	-342.50	0.18	0.14	-0.64
3,977.00	9.74	219.23	3,944.77	-355.64	-235.32	-354.90	0.15	-0.15	0.21
4,072.00	9.25	220.21	4,038.47	-367.69	-245.34	-366.92	0.54	-0.52	1.03
4,166.00	9.08	220.21	4,131.27	-379.13	-255.00	-378.32	0.18	-0.18	0.00
4,261.00	8.98	219.37	4,225.09	-390.58	-264.54	-389.75	0.17	-0.11	-0.88
4,356.00	7.39	215.04	4,319.12	-401.32	-272.76	-400.46	1.79	-1.67	-4.56
4,450.00	6.71	212.33	4,412.41	-410.91	-279.16	-410.03	0.81	-0.72	-2.88
4,545.00	4.54	213.95	4,506.95	-418.72	-284.23	-417.82	2.29	-2.28	1.71
4,639.00	3.46	214.79	4,600.72	-424.13	-287.93	-423.23	1.15	-1.15	0.89
4,734.00	2.10	232.45	4,695.60	-427.55	-290.94	-426.63	1.68	-1.43	18.59
4,829.00	1.44	264.22	4,790.56	-428.73	-293.51	-427.81	1.22	-0.69	33.44



Phoenix Survey Report



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Well:	Honey Mustard 22 WXY Fed Com 8H	North Reference:	Grid
Wellbore:	OH / 70203	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 169)	Database:	USA Compass

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)
4,923.00	1.58	262.57	4,884.53	-429.02	-295.97	-428.08	0.16	0.15	-1.76
5,018.00	1.45	262.85	4,979.49	-429.34	-298.46	-428.40	0.14	-0.14	0.29
5,112.00	1.53	258.30	5,073.46	-429.74	-300.87	-428.79	0.15	0.09	-4.84
5,207.00	1.52	259.98	5,168.43	-430.21	-303.35	-429.26	0.05	-0.01	1.77
5,301.00	1.62	263.76	5,262.39	-430.58	-305.90	-429.61	0.15	0.11	4.02
5,396.00	1.54	259.45	5,357.36	-430.96	-308.49	-429.98	0.15	-0.08	-4.54
5,490.00	0.13	212.47	5,451.35	-431.28	-309.79	-430.30	1.55	-1.50	-49.98
5,585.00	0.16	90.42	5,546.35	-431.37	-309.72	-430.39	0.27	0.03	-128.47
5,679.00	0.13	113.51	5,640.35	-431.41	-309.49	-430.44	0.07	-0.03	24.56
5,774.00	0.19	120.49	5,735.35	-431.54	-309.25	-430.56	0.07	0.06	7.35
5,868.00	0.22	123.61	5,829.34	-431.71	-308.97	-430.74	0.03	0.03	3.32
5,963.00	0.22	111.01	5,924.34	-431.88	-308.65	-430.91	0.05	0.00	-13.26
6,057.00	0.24	125.36	6,018.34	-432.06	-308.32	-431.09	0.06	0.02	15.27
6,152.00	0.34	156.58	6,113.34	-432.43	-308.04	-431.46	0.19	0.11	32.86
6,247.00	0.21	173.69	6,208.34	-432.86	-307.91	-431.89	0.16	-0.14	18.01
6,341.00	0.10	73.99	6,302.34	-433.01	-307.81	-432.04	0.26	-0.12	-106.06
6,436.00	0.36	332.88	6,397.34	-432.72	-307.87	-431.76	0.41	0.27	-106.43
6,530.00	0.91	330.92	6,491.33	-431.81	-308.37	-430.84	0.59	0.59	-2.09
6,625.00	1.42	332.69	6,586.31	-430.10	-309.27	-429.13	0.54	0.54	1.86
6,719.00	1.77	332.94	6,680.28	-427.78	-310.47	-426.80	0.37	0.37	0.27
6,813.00	2.51	323.36	6,774.21	-424.83	-312.36	-423.85	0.87	0.79	-10.19
6,909.00	2.96	317.04	6,870.10	-421.33	-315.30	-420.34	0.56	0.47	-6.58
7,012.00	2.81	318.69	6,972.97	-417.49	-318.78	-416.49	0.17	-0.15	1.60
7,090.00	0.50	322.10	7,050.93	-415.78	-320.25	-414.78	2.96	-2.96	4.37
7,185.00	0.29	271.14	7,145.93	-415.45	-320.75	-414.44	0.41	-0.22	-53.64
7,280.00	0.83	267.66	7,240.93	-415.48	-321.68	-414.46	0.57	0.57	-3.66
7,374.00	1.10	274.89	7,334.91	-415.43	-323.25	-414.41	0.31	0.29	7.69
7,469.00	1.58	257.29	7,429.89	-415.64	-325.44	-414.61	0.66	0.51	-18.53
7,563.00	1.30	262.31	7,523.86	-416.06	-327.76	-415.03	0.33	-0.30	5.34
7,658.00	1.41	286.24	7,618.83	-415.88	-329.95	-414.84	0.60	0.12	25.19
7,752.00	3.04	35.23	7,712.79	-413.52	-329.62	-412.48	3.98	1.73	115.95
7,847.00	3.43	35.94	7,807.63	-409.16	-326.50	-408.13	0.41	0.41	0.75
7,941.00	3.70	29.95	7,901.45	-404.26	-323.34	-403.24	0.49	0.29	-6.37
8,036.00	2.27	85.16	7,996.34	-401.44	-319.93	-400.44	3.20	-1.51	58.12
8,130.00	1.80	91.02	8,090.28	-401.31	-316.60	-400.32	0.55	-0.50	6.23
8,225.00	1.49	92.17	8,185.24	-401.39	-313.88	-400.40	0.33	-0.33	1.21
8,319.00	0.79	99.06	8,279.22	-401.53	-312.01	-400.55	0.76	-0.74	7.33
8,414.00	1.12	107.10	8,374.21	-401.91	-310.48	-400.93	0.37	0.35	8.46
8,508.00	1.44	100.36	8,468.18	-402.39	-308.44	-401.42	0.38	0.34	-7.17
8,603.00	0.55	136.58	8,563.17	-402.94	-306.95	-401.97	1.10	-0.94	38.13
8,697.00	2.41	128.20	8,657.13	-404.49	-305.09	-403.53	1.99	1.98	-8.91
8,792.00	2.32	124.76	8,752.05	-406.82	-301.94	-405.87	0.18	-0.09	-3.62
8,881.00	1.94	132.81	8,840.99	-408.87	-299.35	-407.93	0.54	-0.43	9.04



Phoenix Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Honey Mustard 22 WXY Fed Com 8H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3023.60usft (Cactus 169)
Site:	Honey Mustard 22 WXY Fed Com	MD Reference:	RKB @ 3023.60usft (Cactus 169)
Well:	Honey Mustard 22 WXY Fed Com 8H	North Reference:	Grid
Wellbore:	OH / 70203	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 169)	Database:	USA Compass

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)	
8,980.00	4.73	14.73	8,939.88	-406.06	-297.09	-405.12	5.96	2.82	-119.27	
9,075.00	19.43	358.59	9,032.54	-386.36	-296.48	-385.43	15.73	15.47	-16.99	
9,169.00	33.33	0.14	9,116.55	-344.70	-296.80	-343.77	14.80	14.79	1.65	
9,263.00	42.80	1.59	9,190.47	-286.82	-295.85	-285.89	10.12	10.07	1.54	
9,358.00	48.52	0.75	9,256.84	-218.92	-294.48	-218.00	6.05	6.02	-0.88	
9,452.00	53.80	357.97	9,315.78	-145.75	-295.37	-144.82	6.07	5.62	-2.96	
9,547.00	59.59	357.37	9,367.92	-66.45	-298.61	-65.52	6.12	6.09	-0.63	
9,642.00	64.08	356.35	9,412.75	17.15	-303.21	18.10	4.82	4.73	-1.07	
9,736.00	65.00	355.54	9,453.16	101.80	-309.21	102.78	1.25	0.98	-0.86	
9,831.00	69.43	357.24	9,489.94	189.19	-314.71	190.18	4.95	4.66	1.79	
9,925.00	75.83	358.50	9,517.99	278.80	-318.02	279.79	6.93	6.81	1.34	
10,020.00	82.46	359.91	9,535.88	372.03	-319.30	373.03	7.13	6.98	1.48	
10,114.00	91.05	2.18	9,541.19	465.77	-317.58	466.77	9.45	9.14	2.41	
10,209.00	89.88	0.79	9,540.42	560.73	-315.12	561.72	1.91	-1.23	-1.46	
10,303.00	93.06	359.76	9,538.01	654.69	-314.67	655.67	3.56	3.38	-1.10	
10,338.00	93.92	359.18	9,535.88	689.62	-314.99	690.61	2.96	2.46	-1.66	
10,391.00	95.89	358.64	9,531.35	742.41	-316.00	743.40	3.85	3.72	-1.02	
10,485.00	93.04	358.19	9,524.03	836.08	-318.59	837.08	3.07	-3.03	-0.48	
10,580.00	90.12	358.96	9,521.41	931.01	-320.95	932.01	3.18	-3.07	0.81	
10,675.00	88.68	0.94	9,522.41	1,025.99	-321.03	1,027.00	2.58	-1.52	2.08	
10,769.00	88.34	1.22	9,524.85	1,119.95	-319.26	1,120.94	0.47	-0.36	0.30	
10,864.00	88.58	1.26	9,527.40	1,214.89	-317.21	1,215.88	0.26	0.25	0.04	
10,958.00	88.59	0.71	9,529.73	1,308.85	-315.59	1,309.83	0.59	0.01	-0.59	
11,053.00	88.04	359.94	9,532.52	1,403.80	-315.05	1,404.79	1.00	-0.58	-0.81	
11,147.00	88.64	0.86	9,535.24	1,497.76	-314.40	1,498.74	1.17	0.64	0.98	
11,241.00	88.39	1.28	9,537.68	1,591.71	-312.64	1,592.69	0.52	-0.27	0.45	
11,336.00	88.41	1.08	9,540.33	1,686.65	-310.69	1,687.62	0.21	0.02	-0.21	
11,431.00	89.14	1.43	9,542.36	1,781.61	-308.61	1,782.57	0.85	0.77	0.37	
11,525.00	89.93	0.98	9,543.12	1,875.58	-306.63	1,876.54	0.97	0.84	-0.48	
11,620.00	89.85	1.21	9,543.31	1,970.57	-304.82	1,971.51	0.26	-0.08	0.24	
11,714.00	89.79	1.02	9,543.60	2,064.55	-302.99	2,065.49	0.21	-0.06	-0.20	
11,809.00	89.84	1.18	9,543.91	2,159.53	-301.16	2,160.47	0.18	0.05	0.17	
11,903.00	91.61	1.73	9,542.72	2,253.49	-298.78	2,254.42	1.97	1.88	0.59	
11,998.00	90.24	1.31	9,541.19	2,348.44	-296.26	2,349.36	1.51	-1.44	-0.44	
12,092.00	90.42	1.59	9,540.64	2,442.41	-293.88	2,443.32	0.35	0.19	0.30	
12,187.00	91.41	1.88	9,539.13	2,537.35	-291.00	2,538.25	1.09	1.04	0.31	
12,282.00	89.90	1.23	9,538.04	2,632.31	-288.42	2,633.20	1.73	-1.59	-0.68	
12,376.00	91.86	1.56	9,536.60	2,726.26	-286.14	2,727.15	2.11	2.09	0.35	
12,471.00	89.68	1.13	9,535.32	2,821.22	-283.91	2,822.10	2.34	-2.29	-0.45	
12,565.00	91.13	1.96	9,534.66	2,915.18	-281.37	2,916.05	1.78	1.54	0.88	
12,660.00	90.62	1.48	9,533.21	3,010.13	-278.52	3,010.99	0.74	-0.54	-0.51	
12,754.00	90.12	1.20	9,532.60	3,104.10	-276.32	3,104.95	0.61	-0.53	-0.30	
12,849.00	91.06	0.29	9,531.62	3,199.09	-275.09	3,199.93	1.38	0.99	-0.96	
12,943.00	89.82	359.14	9,530.90	3,293.08	-275.56	3,293.93	1.80	-1.32	-1.22	



Phoenix Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Honey Mustard 22 WXY Fed Com 8H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3023.60usft (Cactus 169)
Site:	Honey Mustard 22 WXY Fed Com	MD Reference:	RKB @ 3023.60usft (Cactus 169)
Well:	Honey Mustard 22 WXY Fed Com 8H	North Reference:	Grid
Wellbore:	OH / 70203	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 169)	Database:	USA Compass

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)
13,038.00	90.39	359.49	9,530.72	3,388.07	-276.69	3,388.92	0.70	0.60	0.37
13,132.00	90.21	359.49	9,530.23	3,482.07	-277.53	3,482.92	0.19	-0.19	0.00
13,227.00	90.16	359.47	9,529.93	3,577.06	-278.39	3,577.92	0.06	-0.05	-0.02
13,322.00	89.71	0.67	9,530.03	3,672.06	-278.27	3,672.91	1.35	-0.47	1.26
13,416.00	91.79	0.17	9,528.80	3,766.04	-277.59	3,766.90	2.28	2.21	-0.53
13,510.00	90.65	359.29	9,526.80	3,860.02	-278.03	3,860.87	1.53	-1.21	-0.94
13,605.00	90.01	358.84	9,526.25	3,955.00	-279.58	3,955.86	0.82	-0.67	-0.47
13,699.00	90.90	359.11	9,525.51	4,048.98	-281.26	4,049.85	0.99	0.95	0.29
13,794.00	90.78	359.48	9,524.12	4,143.97	-282.43	4,144.83	0.41	-0.13	0.39
13,889.00	89.79	359.46	9,523.64	4,238.96	-283.31	4,239.83	1.04	-1.04	-0.02
13,983.00	91.63	359.83	9,522.48	4,332.95	-283.89	4,333.82	2.00	1.96	0.39
14,078.00	91.52	359.25	9,519.87	4,427.91	-284.65	4,428.78	0.62	-0.12	-0.61
14,172.00	89.92	358.59	9,518.69	4,521.88	-286.42	4,522.76	1.84	-1.70	-0.70
14,267.00	90.62	359.58	9,518.24	4,616.86	-287.94	4,617.75	1.28	0.74	1.04
14,361.00	92.24	359.50	9,515.89	4,710.83	-288.70	4,711.71	1.73	1.72	-0.09
14,456.00	90.41	359.45	9,513.70	4,805.80	-289.57	4,806.68	1.93	-1.93	-0.05
14,550.00	89.81	359.28	9,513.52	4,899.79	-290.61	4,900.68	0.66	-0.64	-0.18
14,645.00	89.90	359.97	9,513.76	4,994.79	-291.23	4,995.68	0.73	0.09	0.73
14,739.00	92.30	359.92	9,511.95	5,088.76	-291.32	5,089.65	2.55	2.55	-0.05
14,834.00	90.10	359.66	9,509.96	5,183.73	-291.67	5,184.63	2.33	-2.32	-0.27
14,928.00	89.18	0.55	9,510.55	5,277.73	-291.50	5,278.62	1.36	-0.98	0.95
15,023.00	90.01	0.03	9,511.22	5,372.73	-291.02	5,373.61	1.03	0.87	-0.55
15,117.00	92.12	0.15	9,509.48	5,466.70	-290.87	5,467.59	2.25	2.24	0.13
15,212.00	89.53	358.33	9,508.11	5,561.67	-292.13	5,562.56	3.33	-2.73	-1.92
15,307.00	91.95	359.77	9,506.88	5,656.64	-293.70	5,657.54	2.96	2.55	1.52
15,401.00	91.84	358.77	9,503.77	5,750.58	-294.90	5,751.48	1.07	-0.12	-1.06
15,496.00	88.11	358.60	9,503.81	5,845.54	-297.08	5,846.45	3.93	-3.93	-0.18
15,590.00	91.80	0.04	9,503.89	5,939.52	-298.20	5,940.42	4.21	3.93	1.53
15,685.00	88.68	359.56	9,503.49	6,034.50	-298.53	6,035.41	3.32	-3.28	-0.51
15,779.00	90.01	359.95	9,504.57	6,128.49	-298.93	6,129.40	1.47	1.41	0.41
15,874.00	89.65	359.24	9,504.85	6,223.49	-299.60	6,224.40	0.84	-0.38	-0.75
15,969.00	89.33	359.12	9,505.69	6,318.48	-300.96	6,319.39	0.36	-0.34	-0.13
16,063.00	89.64	359.35	9,506.54	6,412.46	-302.21	6,413.38	0.41	0.33	0.24
16,158.00	89.08	0.77	9,507.60	6,507.46	-302.12	6,508.37	1.61	-0.59	1.49
16,252.00	90.02	0.31	9,508.34	6,601.45	-301.23	6,602.36	1.11	1.00	-0.49
16,347.00	87.76	359.90	9,510.18	6,696.42	-301.06	6,697.34	2.42	-2.38	-0.43
16,441.00	89.78	359.99	9,512.20	6,790.40	-301.15	6,791.31	2.15	2.15	0.10
16,536.00	91.96	358.46	9,510.75	6,885.37	-302.43	6,886.28	2.80	2.29	-1.61
16,630.00	89.88	358.76	9,509.24	6,979.32	-304.71	6,980.25	2.24	-2.21	0.32
16,724.00	90.04	358.88	9,509.31	7,073.30	-306.65	7,074.23	0.21	0.17	0.13
16,819.00	90.18	358.61	9,509.13	7,168.28	-308.73	7,169.21	0.32	0.15	-0.28
16,834.00	89.22	359.03	9,509.21	7,183.28	-309.03	7,184.21	6.99	-6.40	2.80
Final Phoenix MWD Survey									



Phoenix Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Honey Mustard 22 WXY Fed Com 8H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3023.60usft (Cactus 169)
Site:	Honey Mustard 22 WXY Fed Com	MD Reference:	RKB @ 3023.60usft (Cactus 169)
Well:	Honey Mustard 22 WXY Fed Com 8H	North Reference:	Grid
Wellbore:	OH / 70203	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 169)	Database:	USA Compass

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)
16,860.00	89.22	359.03	9,509.56	7,209.27	-309.47	7,210.21	0.00	0.00	0.00
Projection to TD									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
132.00	131.97	-2.32	0.43	First Phoenix MWD Survey	
16,834.00	9,509.21	7,183.28	-309.03	Final Phoenix MWD Survey	
16,860.00	9,509.56	7,209.27	-309.47	Projection to TD	

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-015-46983
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Honey Mustard 22 WXY Federal Com
8. Well Number 8H
9. OGRID Number 372098
10. Pool name or Wildcat Purple Sage; Wolfcamp
4. Well Location Unit Letter <u>M</u> : <u>479</u> feet from the <u>SOUTH</u> line and <u>959</u> feet from the <u>WEST</u> line Section <u>22</u> Township <u>24S</u> Range <u>28E</u> NMPM County <u>EDDY</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3000' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: Completions ☒

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.

9/16/2022 - Start frac prep operations
 9/19/2022 - MIRU. Pressure test production casing to 13000 psi for 30 min, held, good test.
 9/22/2022 - Start frac stages 1-29 with 2 shots per foot for a total of 696 shots, 0.41-in. in size using 17,762,427 lbs of proppant and 18,301,374 gal of brackish water. Total interval from 9715' to 16821'.
 10/14/2022 - Finish frac last stage. RDMO
 10/17/2022 - Well Ready to Produce.
 10/25/2022 - Open well and start flowback operations. Turn to production

Marathon Oil Permian LLC request a tubing exception for this well.

Spud Date:

7/21/2022

Rig Release Date:

8/12/2022

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE



TITLE

Regulatory Compliance Representative

DATE

11/21/2022

Type or print name

Adrian Covarrubias

E-mail address:

acovarrubias@marathonoil.com

PHONE:

713-296-3368

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

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								1. WELL API NO. 30-015-46983		
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)								2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN		
								3. State Oil & Gas Lease No.		
5. Lease Name or Unit Agreement Name Honey Mustard 22 WXY Fed Com								6. Well Number: 8H		
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:	M	22	24S	28E		479	SOUTH	959	WEST	EDDY
BH:	L	15	24S	28E		2351	SOUTH	670	WEST	EDDY
13. Date Spudded 7/21/2022	14. Date T.D. Reached 8/9/2022		15. Date Rig Released 8/12/2022			16. Date Completed (Ready to Produce) 10/17/2022		17. Elevations (DF and RKB, RT, GR, etc.) 3000' GL		
18. Total Measured Depth of Well 16860'			19. Plug Back Measured Depth 16840'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 9715' - 16821'; 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, BTC		509'		17-1/2"		Tail: 440 sacks, 1.34 yield, Class C		
9-5/8"		40#, P110, BTC		6966'		12-1/4"		Lead: 1185 sacks, 3.25 yield, Class H Tail: 355 sacks, 1.08 yield, Class H		
5-1/2"		23#, P110, TLW		16845'		8-3/4" - 8-1/2"		Lead: 806 sacks, 1.94 yield, Class H Tail: 2036 sacks, 1.23 yield, Class H		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 9715' - 16821'; 0.41"; 696 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						9715' - 16821'		17,762,427 lbs proppant		
						9715' - 16821'		18,301,374 gal brackish water		
28. PRODUCTION										
Date First Production 10/25/2022		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 11/7/2022	Hours Tested 24	Choke Size 64/64	Prod'n For Test Period	Oil - Bbl 1960	Gas - MCF 4412	Water - Bbl. 4672	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure 1095	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 hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature 			Printed Name Adrian Covarrubias			Title Adv. Regulatory Compliance Rep			Date 3/31/2023	
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 See Attached.	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	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

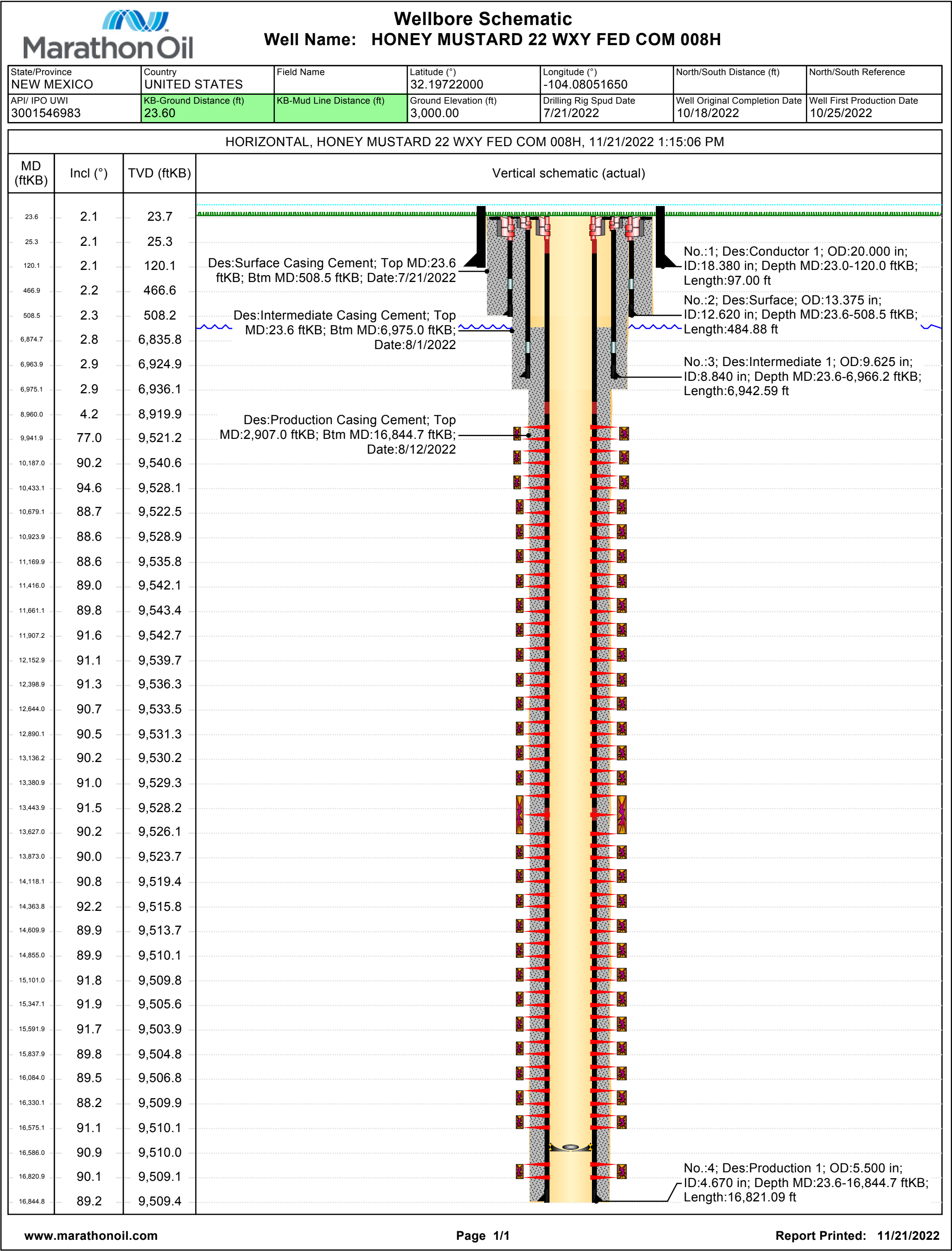
No. 1, from.....to..... No. 3, from.....to.....
No. 2, from.....to..... No. 4, from.....to.....

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

Geological Tops (MD)	
Honey Mustard 22 WXY Fed Com 8H	
Salado	649
Base Salt	2559
Lamar	2559
Delaware Sands (Bell Canyon)	2612
Cherry Canyon	3434
Brushy Canyon	4722
Bone Spring	6219
Wolfcamp	9705



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 202842

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Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 202842
	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 202842

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CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	8/9/2023