

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 9/19/2022
⁴ API Number 30 - 015-49415	⁵ Pool Name Purple Sage; Wolfcamp (Gas)	⁶ Pool Code 98220
⁷ Property Code 332722	⁸ Property Name Valkyrie 12 WXY Federal Com	⁹ Well Number 11H

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
L	12	23S	28E		1593	SOUTH	850	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
P	7	23S	29E		1017	SOUTH	341	EAST	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				

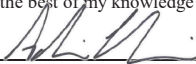
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
330564	Crestwood New Mexico Pipeline LLC 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 6/14/2022	²² Ready Date 9/16/2022	²³ TD 19540'	²⁴ PBTB 19520'	²⁵ Perforations 9760' - 19501'	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	514'	Lead: 520, 2.14, Class C Tail: 150, 1.32, Class C		
12-1/4"	9-5/8", 40#, P110, BTC	2669'	Lead: 570, 1.98, Class C Tail: 210, 1.32, Class C		
8-3/4"	5-1/2", 23#, P110, TLW	19524'	Lead: 430, 4.36, Class H Tail: 2050, 1.49, Class H		

V. Well Test Data

³¹ Date New Oil 9/20/2022	³² Gas Delivery Date 9/19/2022	³³ Test Date 10/12/2022	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 2068
³⁷ Choke Size 44/64	³⁸ Oil 2175	³⁹ Water 6422	⁴⁰ Gas 3939		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 Rep.			Title: PETROLEUM SPECIALIST		
E-mail Address: acovarrubias@marathonoil.com			Approval Date: 8/8/2023		
Date:		Phone: 713-296-3368			

1625 N. French Dr., Hobbs, NM 88240
 Phone: (575) 393-6161 Fax: (575) 748-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone: (505) 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
 As-Drilled

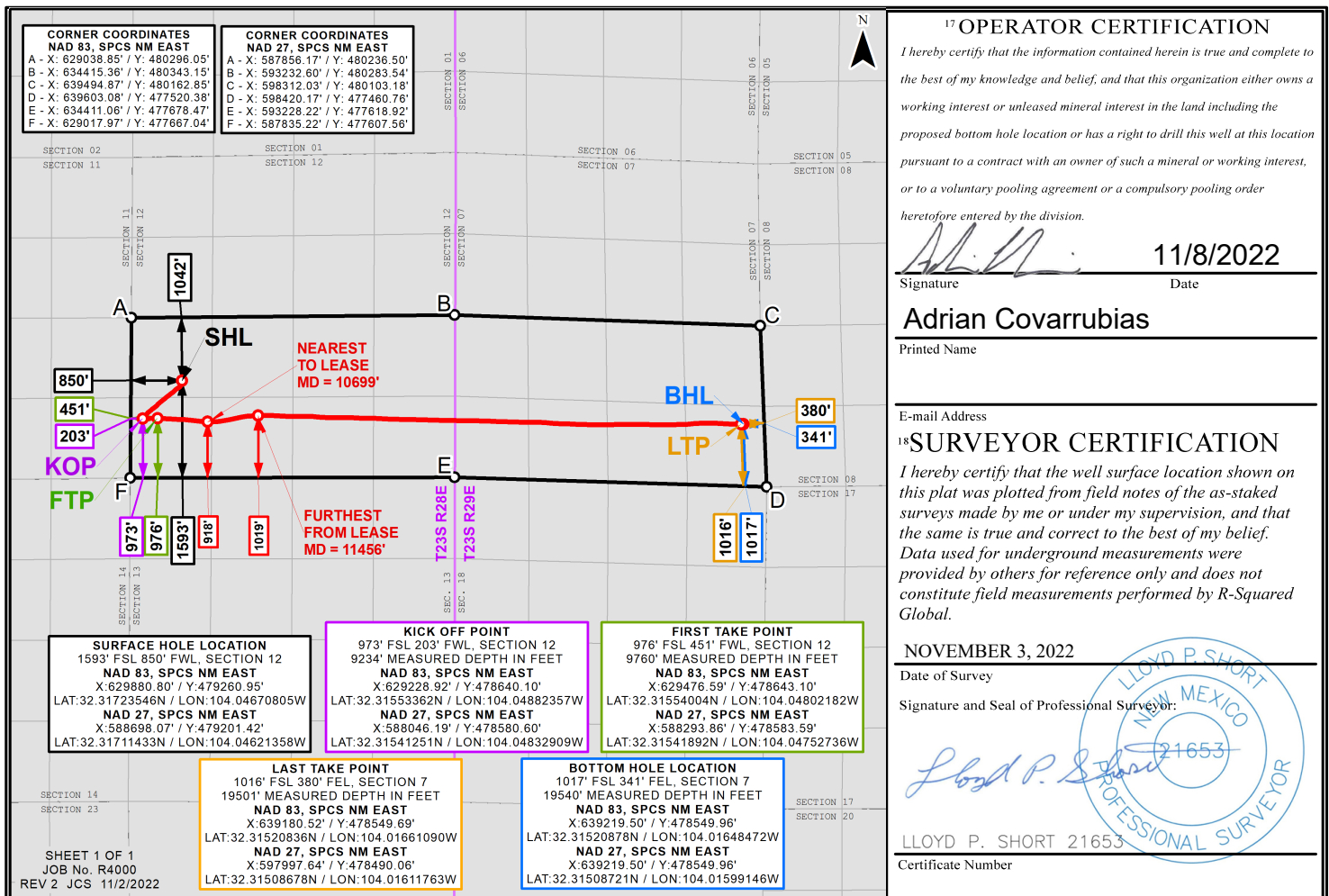
WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-49415	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 372722	Property Name VALKYRIE 12 WXY FEDERAL COM	⁶ Well Number 11H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC.	⁹ Elevation 2998'

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
L	12	23S	28E		1593	SOUTH	850	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
P	7	23S	29E		1017	SOUTH	341	EAST	EDDY
¹² Dedicated Acres 634.72	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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977431 Convergence Angle: 00°08'50.61001"



MARATHON OIL COMPANY

Eddy County, NM (NAD27)

Valkyrie Pad (Grid)

Valkyrie 12 WXY Federal Com 11H

Wellbore #1

Design: Final Surveys

Standard Survey Report

22 July, 2022





Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Valkyrie 12 WXY Federal Com 11H
Project:	Eddy County, NM (NAD27)	TVD Reference:	RKB @ 3024.50usft (Precision 101)
Site:	Valkyrie Pad (Grid)	MD Reference:	RKB @ 3024.50usft (Precision 101)
Well:	Valkyrie 12 WXY Federal Com 11H	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	Valkyrie Pad (Grid)		
Site Position:		Northing:	479,229.45 usft
From:	Map	Easting:	588,687.54 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.31719145
		Longitude:	-104.04624743

Well	Valkyrie 12 WXY Federal Com 11H		
Well Position	+N/-S	0.00 usft	Northing: 479,201.42 usft
	+E/-W	0.00 usft	Easting: 588,698.07 usft
Position Uncertainty	0.50 usft	Wellhead Elevation:	usft
Grid Convergence:	0.15 °	Ground Level:	2,998.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	User Defined	6/15/2022	6.85
			Dip Angle (°)
			60.01
			Field Strength (nT)
			47,550.50000000

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)
	0.00	0.00	0.00
			Direction (°)
			90.79

Survey Program	Date	7/22/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
237.00	19,540.00	MWD (Wellbore #1)	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	
237.00	2.11	315.52	236.95	3.11	-3.06	-3.10	0.89	0.89	0.00	
First SB MWD Survey										
331.00	3.38	305.41	330.84	5.95	-6.53	-6.61	1.44	1.35	-10.76	
425.00	3.91	304.45	424.65	9.37	-11.43	-11.56	0.57	0.56	-1.02	
458.00	3.78	303.57	457.57	10.61	-13.26	-13.41	0.43	-0.39	-2.67	
623.00	1.23	54.27	622.45	14.65	-16.36	-16.56	2.65	-1.55	67.09	
718.00	3.67	112.69	717.37	14.08	-12.73	-12.92	3.37	2.57	61.49	
813.00	3.26	112.19	812.20	11.88	-7.42	-7.58	0.43	-0.43	-0.53	
907.00	2.46	144.30	906.08	9.24	-3.77	-3.89	1.87	-0.85	34.16	



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Valkyrie 12 WXY Federal Com 11H
Project:	Eddy County, NM (NAD27)	TVD Reference:	RKB @ 3024.50usft (Precision 101)
Site:	Valkyrie Pad (Grid)	MD Reference:	RKB @ 3024.50usft (Precision 101)
Well:	Valkyrie 12 WXY Federal Com 11H	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)	
1,002.00	2.19	147.05	1,001.01	6.06	-1.59	-1.67	0.31	-0.28	2.89	
1,097.00	1.70	157.62	1,095.95	3.23	-0.07	-0.11	0.64	-0.52	11.13	
1,192.00	1.41	161.29	1,190.92	0.82	0.85	0.83	0.32	-0.31	3.86	
1,286.00	1.11	175.00	1,284.89	-1.18	1.30	1.31	0.45	-0.32	14.59	
1,381.00	1.25	184.44	1,379.87	-3.13	1.30	1.34	0.25	0.15	9.94	
1,476.00	2.53	194.55	1,474.82	-6.19	0.69	0.77	1.39	1.35	10.64	
1,570.00	3.98	199.70	1,568.67	-11.27	-0.93	-0.78	1.57	1.54	5.48	
1,665.00	3.17	192.20	1,663.48	-16.95	-2.60	-2.37	0.98	-0.85	-7.89	
1,760.00	3.02	186.12	1,758.34	-22.00	-3.42	-3.12	0.38	-0.16	-6.40	
1,854.00	6.48	190.08	1,852.01	-29.69	-4.61	-4.20	3.70	3.68	4.21	
1,948.00	8.35	185.91	1,945.22	-41.70	-6.24	-5.67	2.07	1.99	-4.44	
2,043.00	9.78	198.28	2,039.04	-56.23	-9.49	-8.71	2.54	1.51	13.02	
2,138.00	8.49	209.51	2,132.84	-69.99	-15.47	-14.51	2.31	-1.36	11.82	
2,232.00	7.33	210.27	2,225.94	-81.21	-21.91	-20.79	1.24	-1.23	0.81	
2,327.00	7.13	212.41	2,320.19	-91.42	-28.13	-26.86	0.35	-0.21	2.25	
2,421.00	9.24	227.94	2,413.23	-101.40	-36.86	-35.46	3.23	2.24	16.52	
2,516.00	9.56	240.96	2,506.97	-110.34	-49.42	-47.89	2.26	0.34	13.71	
2,611.00	8.43	239.75	2,600.80	-117.68	-62.33	-60.71	1.21	-1.19	-1.27	
2,709.00	7.70	239.65	2,697.83	-124.62	-74.20	-72.48	0.75	-0.74	-0.10	
2,804.00	9.96	240.78	2,791.70	-131.85	-86.87	-85.04	2.39	2.38	1.19	
2,898.00	12.06	231.70	2,883.97	-141.90	-101.67	-99.71	2.89	2.23	-9.66	
2,993.00	13.50	222.68	2,976.62	-156.21	-116.98	-114.82	2.59	1.52	-9.49	
3,087.00	12.81	226.34	3,068.16	-171.47	-131.96	-129.58	1.15	-0.73	3.89	
3,181.00	12.10	227.36	3,159.94	-185.34	-146.74	-144.18	0.79	-0.76	1.09	
3,275.00	10.83	233.99	3,252.07	-197.20	-161.14	-158.40	1.94	-1.35	7.05	
3,370.00	10.85	234.69	3,345.38	-207.62	-175.65	-172.77	0.14	0.02	0.74	
3,465.00	10.59	233.22	3,438.72	-218.01	-189.94	-186.92	0.40	-0.27	-1.55	
3,560.00	9.85	233.27	3,532.21	-228.10	-203.45	-200.28	0.78	-0.78	0.05	
3,654.00	9.84	234.41	3,624.83	-237.58	-216.42	-213.13	0.21	-0.01	1.21	
3,749.00	9.65	232.57	3,718.46	-247.15	-229.35	-225.92	0.38	-0.20	-1.94	
3,844.00	9.91	232.79	3,812.07	-256.93	-242.18	-238.61	0.28	0.27	0.23	
3,939.00	10.32	233.82	3,905.60	-266.90	-255.56	-251.85	0.47	0.43	1.08	
4,033.00	8.80	230.47	3,998.29	-276.44	-267.90	-264.06	1.72	-1.62	-3.56	
4,128.00	8.71	230.93	4,092.18	-285.60	-279.09	-275.13	0.12	-0.09	0.48	
4,222.00	8.49	231.01	4,185.13	-294.45	-290.01	-285.92	0.23	-0.23	0.09	
4,317.00	8.40	230.73	4,279.10	-303.26	-300.83	-296.62	0.10	-0.09	-0.29	
4,412.00	8.48	231.15	4,373.07	-312.04	-311.66	-307.33	0.11	0.08	0.44	
4,507.00	8.79	231.36	4,466.99	-320.97	-322.78	-318.33	0.33	0.33	0.22	
4,600.00	8.97	232.35	4,558.88	-329.84	-334.07	-329.50	0.25	0.19	1.06	
4,695.00	9.23	232.49	4,652.68	-339.00	-345.98	-341.28	0.27	0.27	0.15	
4,788.00	9.44	231.45	4,744.45	-348.29	-357.86	-353.03	0.29	0.23	-1.12	
4,883.00	8.73	229.55	4,838.26	-357.83	-369.44	-364.47	0.81	-0.75	-2.00	
4,978.00	7.88	229.76	4,932.26	-366.71	-379.90	-374.81	0.90	-0.89	0.22	



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Valkyrie 12 WXY Federal Com 11H
Project:	Eddy County, NM (NAD27)	TVD Reference:	RKB @ 3024.50usft (Precision 101)
Site:	Valkyrie Pad (Grid)	MD Reference:	RKB @ 3024.50usft (Precision 101)
Well:	Valkyrie 12 WXY Federal Com 11H	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)
5,073.00	7.66	228.28	5,026.39	-375.13	-389.60	-384.39	0.31	-0.23	-1.56
5,167.00	7.62	226.21	5,119.55	-383.61	-398.77	-393.44	0.30	-0.04	-2.20
5,262.00	7.97	223.71	5,213.68	-392.73	-407.87	-402.42	0.51	0.37	-2.63
5,356.00	8.37	223.81	5,306.72	-402.38	-417.11	-411.52	0.43	0.43	0.11
5,451.00	7.84	225.94	5,400.77	-411.88	-426.55	-420.83	0.64	-0.56	2.24
5,545.00	8.19	233.01	5,493.86	-420.36	-436.51	-430.67	1.11	0.37	7.52
5,639.00	7.79	230.59	5,586.94	-428.44	-446.78	-440.83	0.56	-0.43	-2.57
5,734.00	7.66	231.66	5,681.08	-436.45	-456.72	-450.66	0.20	-0.14	1.13
5,829.00	8.78	234.86	5,775.10	-444.55	-467.61	-461.44	1.27	1.18	3.37
5,924.00	8.61	233.53	5,869.01	-452.95	-479.26	-472.97	0.28	-0.18	-1.40
6,018.00	8.54	232.90	5,961.96	-461.35	-490.49	-484.08	0.12	-0.07	-0.67
6,113.00	8.21	231.45	6,055.95	-469.83	-501.42	-494.89	0.41	-0.35	-1.53
6,208.00	9.57	232.55	6,149.81	-478.86	-512.99	-506.34	1.44	1.43	1.16
6,301.00	9.62	230.92	6,241.50	-488.46	-525.16	-518.38	0.30	0.05	-1.75
6,396.00	8.89	230.69	6,335.27	-498.11	-537.00	-530.08	0.77	-0.77	-0.24
6,491.00	7.78	232.78	6,429.26	-506.65	-547.80	-540.77	1.21	-1.17	2.20
6,586.00	6.65	231.86	6,523.51	-513.94	-557.25	-550.11	1.20	-1.19	-0.97
6,681.00	6.11	230.38	6,617.92	-520.56	-565.47	-558.24	0.59	-0.57	-1.56
6,775.00	7.14	222.11	6,711.29	-528.08	-573.24	-565.91	1.49	1.10	-8.80
6,870.00	9.62	222.60	6,805.27	-538.31	-582.58	-575.10	2.61	2.61	0.52
6,965.00	9.01	224.75	6,899.02	-549.43	-593.19	-585.55	0.74	-0.64	2.26
7,060.00	7.07	225.56	6,993.08	-558.81	-602.60	-594.84	2.05	-2.04	0.85
7,155.00	7.74	233.09	7,087.29	-566.75	-611.89	-604.01	1.24	0.71	7.93
7,250.00	8.05	237.02	7,181.39	-574.21	-622.58	-614.61	0.66	0.33	4.14
7,345.00	8.04	236.75	7,275.46	-581.47	-633.72	-625.64	0.04	-0.01	-0.28
7,439.00	7.68	238.79	7,368.57	-588.33	-644.59	-636.41	0.48	-0.38	2.17
7,534.00	6.67	237.79	7,462.83	-594.56	-654.69	-646.43	1.07	-1.06	-1.05
7,629.00	5.68	236.41	7,557.27	-600.10	-663.27	-654.93	1.05	-1.04	-1.45
7,723.00	4.90	236.57	7,650.87	-604.89	-670.50	-662.09	0.83	-0.83	0.17
7,818.00	3.66	235.89	7,745.61	-608.83	-676.39	-667.93	1.31	-1.31	-0.72
7,913.00	2.64	247.88	7,840.46	-611.35	-680.93	-672.44	1.27	-1.07	12.62
8,007.00	0.75	252.54	7,934.42	-612.35	-683.52	-675.01	2.01	-2.01	4.96
8,101.00	0.03	26.21	8,028.42	-612.51	-684.10	-675.59	0.82	-0.77	142.20
8,196.00	0.10	136.01	8,123.42	-612.55	-684.03	-675.52	0.12	0.07	115.58
8,290.00	0.18	185.12	8,217.41	-612.76	-683.99	-675.47	0.15	0.09	52.24
8,385.00	0.38	204.06	8,312.41	-613.19	-684.13	-675.61	0.23	0.21	19.94
8,480.00	0.50	178.24	8,407.41	-613.89	-684.24	-675.71	0.24	0.13	-27.18
8,574.00	0.76	124.25	8,501.41	-614.65	-683.72	-675.18	0.66	0.28	-57.44
8,669.00	1.03	118.64	8,596.39	-615.42	-682.45	-673.89	0.30	0.28	-5.91
8,762.00	2.24	109.28	8,689.35	-616.42	-680.00	-671.43	1.33	1.30	-10.06
8,857.00	3.76	100.70	8,784.22	-617.61	-675.18	-666.60	1.66	1.60	-9.03
8,952.00	3.80	98.28	8,879.02	-618.64	-669.01	-660.41	0.17	0.04	-2.55
9,046.00	3.80	98.22	8,972.81	-619.54	-662.84	-654.24	0.00	0.00	-0.06



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Valkyrie 12 WXY Federal Com 11H
Project:	Eddy County, NM (NAD27)	TVD Reference:	RKB @ 3024.50usft (Precision 101)
Site:	Valkyrie Pad (Grid)	MD Reference:	RKB @ 3024.50usft (Precision 101)
Well:	Valkyrie 12 WXY Federal Com 11H	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)	
9,141.00	3.35	96.21	9,067.62	-620.29	-656.97	-648.35	0.49	-0.47	-2.12	
9,173.00	3.03	97.68	9,099.57	-620.50	-655.20	-646.58	1.03	-1.00	4.59	
9,234.00	3.25	94.30	9,160.48	-620.85	-651.88	-643.25	0.47	0.36	-5.54	
9,281.00	7.65	91.08	9,207.26	-621.00	-647.42	-638.79	9.38	9.36	-6.85	
9,328.00	11.53	90.22	9,253.59	-621.08	-639.59	-630.97	8.26	8.26	-1.83	
9,375.00	15.57	90.74	9,299.28	-621.18	-628.58	-619.96	8.60	8.60	1.11	
9,423.00	20.59	88.90	9,344.89	-621.10	-613.69	-605.07	10.52	10.46	-3.83	
9,470.00	24.79	88.82	9,388.24	-620.74	-595.57	-586.95	8.94	8.94	-0.17	
9,517.00	29.11	88.51	9,430.13	-620.24	-574.28	-565.67	9.20	9.19	-0.66	
9,564.00	35.15	88.38	9,469.91	-619.56	-549.30	-540.71	12.85	12.85	-0.28	
9,611.00	40.91	87.95	9,506.92	-618.63	-520.37	-511.80	12.27	12.26	-0.91	
9,658.00	47.74	88.38	9,540.52	-617.58	-487.57	-479.01	14.55	14.53	0.91	
9,706.00	54.60	89.68	9,570.60	-616.97	-450.21	-441.66	14.45	14.29	2.71	
9,753.00	61.00	91.95	9,595.64	-617.56	-410.47	-401.91	14.22	13.62	4.83	
9,801.00	65.77	92.91	9,617.13	-619.39	-367.60	-359.03	10.10	9.94	2.00	
9,848.00	71.41	92.91	9,634.28	-621.61	-323.92	-315.32	12.00	12.00	0.00	
9,896.00	75.16	92.99	9,648.09	-623.98	-278.02	-269.39	7.81	7.81	0.17	
9,943.00	75.66	93.20	9,659.93	-626.43	-232.60	-223.94	1.15	1.06	0.45	
9,990.00	79.47	93.29	9,670.05	-629.03	-186.78	-178.09	8.11	8.11	0.19	
10,085.00	88.04	92.57	9,680.37	-633.85	-92.56	-83.81	9.05	9.02	-0.76	
10,116.00	88.54	92.27	9,681.29	-635.16	-61.60	-52.84	1.88	1.61	-0.97	
10,226.00	89.27	92.14	9,683.40	-639.39	48.30	57.11	0.67	0.66	-0.12	
10,320.00	89.72	94.89	9,684.23	-645.15	142.11	150.99	2.96	0.48	2.93	
10,414.00	86.69	97.31	9,687.17	-655.13	235.51	244.52	4.12	-3.22	2.57	
10,457.00	85.51	97.38	9,690.09	-660.62	278.06	287.14	2.75	-2.74	0.16	
10,509.00	83.82	95.93	9,694.93	-666.62	329.48	338.64	4.27	-3.25	-2.79	
10,604.00	81.73	92.22	9,706.88	-673.32	423.47	432.71	4.46	-2.20	-3.91	
10,699.00	82.63	87.75	9,719.81	-673.29	517.56	526.79	4.76	0.95	-4.71	
10,793.00	84.66	83.50	9,730.22	-666.16	610.68	619.81	4.99	2.16	-4.52	
10,888.00	86.80	80.65	9,737.30	-653.10	704.49	713.43	3.74	2.25	-3.00	
10,982.00	90.84	77.96	9,739.23	-635.66	796.81	805.50	5.16	4.30	-2.86	
11,077.00	92.25	78.26	9,736.67	-616.09	889.74	898.15	1.52	1.48	0.32	
11,172.00	92.97	79.88	9,732.34	-598.10	982.92	991.07	1.86	0.76	1.71	
11,267.00	92.75	82.09	9,727.60	-583.23	1,076.62	1,084.56	2.33	-0.23	2.33	
11,361.00	94.15	86.43	9,721.94	-573.85	1,169.95	1,177.75	4.84	1.49	4.62	
11,456.00	94.21	89.86	9,715.02	-570.78	1,264.64	1,272.39	3.60	0.06	3.61	
11,484.00	94.04	90.97	9,713.00	-570.98	1,292.56	1,300.31	4.00	-0.61	3.96	
11,521.00	93.95	90.94	9,710.43	-571.60	1,329.47	1,337.22	0.26	-0.24	-0.08	
11,615.00	89.02	90.42	9,707.99	-572.71	1,423.40	1,431.16	5.27	-5.24	-0.55	
11,707.00	88.54	90.44	9,709.95	-573.40	1,515.38	1,523.14	0.52	-0.52	0.02	
11,802.00	88.52	92.37	9,712.39	-575.73	1,610.31	1,618.10	2.03	-0.02	2.03	
11,897.00	90.00	92.74	9,713.61	-579.97	1,705.21	1,713.04	1.61	1.56	0.39	
11,991.00	87.68	92.18	9,715.52	-584.00	1,799.10	1,806.98	2.54	-2.47	-0.60	
12,086.00	85.65	90.60	9,721.04	-586.30	1,893.90	1,901.80	2.71	-2.14	-1.66	



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Valkyrie 12 WXY Federal Com 11H
Project:	Eddy County, NM (NAD27)	TVD Reference:	RKB @ 3024.50usft (Precision 101)
Site:	Valkyrie Pad (Grid)	MD Reference:	RKB @ 3024.50usft (Precision 101)
Well:	Valkyrie 12 WXY Federal Com 11H	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)	
12,181.00	85.51	89.56	9,728.36	-586.43	1,988.61	1,996.51	1.10	-0.15	-1.09	
12,275.00	86.52	90.05	9,734.90	-586.12	2,082.38	2,090.27	1.19	1.07	0.52	
12,370.00	87.20	92.89	9,740.10	-588.55	2,177.20	2,185.11	3.07	0.72	2.99	
12,465.00	89.44	94.29	9,742.89	-594.50	2,271.97	2,279.95	2.78	2.36	1.47	
12,560.00	88.74	92.92	9,744.40	-600.47	2,366.76	2,374.82	1.62	-0.74	-1.44	
12,654.00	89.19	92.37	9,746.09	-604.81	2,460.65	2,468.75	0.76	0.48	-0.59	
12,749.00	88.91	91.11	9,747.67	-607.69	2,555.59	2,563.72	1.36	-0.29	-1.33	
12,844.00	89.41	89.74	9,749.06	-608.39	2,650.57	2,658.71	1.53	0.53	-1.44	
12,938.00	89.22	88.91	9,750.19	-607.29	2,744.56	2,752.67	0.91	-0.20	-0.88	
13,033.00	88.21	91.84	9,752.32	-607.91	2,839.52	2,847.63	3.26	-1.06	3.08	
13,128.00	88.46	92.34	9,755.08	-611.37	2,934.42	2,942.57	0.59	0.26	0.53	
13,222.00	87.14	91.02	9,758.69	-614.13	3,028.30	3,036.48	1.99	-1.40	-1.40	
13,317.00	88.01	90.24	9,762.70	-615.17	3,123.21	3,131.40	1.23	0.92	-0.82	
13,412.00	87.93	91.90	9,766.07	-616.94	3,218.13	3,226.33	1.75	-0.08	1.75	
13,507.00	88.46	93.00	9,769.06	-621.00	3,313.00	3,321.24	1.28	0.56	1.16	
13,600.00	88.49	92.75	9,771.54	-625.66	3,405.85	3,414.15	0.27	0.03	-0.27	
13,695.00	88.82	92.05	9,773.77	-629.64	3,500.74	3,509.08	0.81	0.35	-0.74	
13,790.00	89.64	91.71	9,775.04	-632.76	3,595.67	3,604.06	0.93	0.86	-0.36	
13,885.00	90.14	91.07	9,775.23	-635.06	3,690.65	3,699.05	0.85	0.53	-0.67	
13,980.00	90.25	90.29	9,774.90	-636.19	3,785.64	3,794.05	0.83	0.12	-0.82	
14,075.00	90.25	91.23	9,774.49	-637.45	3,880.63	3,889.05	0.99	0.00	0.99	
14,170.00	87.45	92.54	9,776.40	-640.57	3,975.55	3,984.00	3.25	-2.95	1.38	
14,265.00	87.73	91.82	9,780.39	-644.18	4,070.39	4,078.89	0.81	0.29	-0.76	
14,360.00	88.24	91.54	9,783.73	-646.97	4,165.29	4,173.82	0.61	0.54	-0.29	
14,455.00	89.30	91.58	9,785.77	-649.55	4,260.23	4,268.78	1.12	1.12	0.04	
14,550.00	89.16	91.12	9,787.05	-651.79	4,355.20	4,363.77	0.51	-0.15	-0.48	
14,645.00	89.24	90.62	9,788.37	-653.23	4,450.18	4,458.76	0.53	0.08	-0.53	
14,727.00	89.65	90.19	9,789.16	-653.81	4,532.17	4,540.76	0.73	0.51	-0.53	
SL Crossing: 1735' FNL, 0' FWL										
14,740.00	89.72	90.12	9,789.23	-653.84	4,545.17	4,553.75	0.73	0.51	-0.53	
14,835.00	87.23	91.05	9,791.76	-654.81	4,640.12	4,648.71	2.80	-2.62	0.98	
14,930.00	87.09	90.46	9,796.47	-656.06	4,735.00	4,743.59	0.64	-0.15	-0.62	
15,026.00	89.66	90.58	9,799.19	-656.94	4,830.95	4,839.55	2.68	2.68	0.13	
15,120.00	89.69	91.14	9,799.73	-658.35	4,924.94	4,933.54	0.60	0.03	0.60	
15,215.00	89.50	90.99	9,800.40	-660.11	5,019.92	5,028.54	0.25	-0.20	-0.16	
15,310.00	88.82	91.93	9,801.79	-662.53	5,114.87	5,123.52	1.22	-0.72	0.99	
15,405.00	85.65	92.34	9,806.37	-666.07	5,209.69	5,218.37	3.36	-3.34	0.43	
15,500.00	86.30	92.52	9,813.04	-670.08	5,304.37	5,313.10	0.71	0.68	0.19	
15,595.00	86.05	91.43	9,819.38	-673.35	5,399.10	5,407.87	1.17	-0.26	-1.15	
15,689.00	87.23	91.28	9,824.89	-675.57	5,492.91	5,501.70	1.27	1.26	-0.16	
15,783.00	89.94	91.64	9,827.21	-677.96	5,586.84	5,595.65	2.91	2.88	0.38	
15,878.00	90.45	90.77	9,826.88	-679.96	5,681.82	5,690.65	1.06	0.54	-0.92	
15,974.00	90.00	89.91	9,826.51	-680.53	5,777.81	5,786.65	1.01	-0.47	-0.90	



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Valkyrie 12 WXY Federal Com 11H
Project:	Eddy County, NM (NAD27)	TVD Reference:	RKB @ 3024.50usft (Precision 101)
Site:	Valkyrie Pad (Grid)	MD Reference:	RKB @ 3024.50usft (Precision 101)
Well:	Valkyrie 12 WXY Federal Com 11H	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)	
16,068.00	89.38	90.25	9,827.02	-680.66	5,871.81	5,880.64	0.75	-0.66	0.36	
16,163.00	88.29	92.61	9,828.95	-683.03	5,966.75	5,975.60	2.74	-1.15	2.48	
16,258.00	90.87	95.32	9,829.64	-689.60	6,061.51	6,070.44	3.94	2.72	2.85	
16,352.00	88.43	93.54	9,830.22	-696.86	6,155.21	6,164.24	3.21	-2.60	-1.89	
16,447.00	85.85	92.45	9,834.96	-701.82	6,249.95	6,259.04	2.95	-2.72	-1.15	
16,542.00	85.21	92.04	9,842.36	-705.53	6,344.59	6,353.72	0.80	-0.67	-0.43	
16,636.00	86.22	92.41	9,849.39	-709.17	6,438.26	6,447.42	1.14	1.07	0.39	
16,730.00	86.19	91.77	9,855.61	-712.59	6,531.99	6,541.19	0.68	-0.03	-0.68	
16,825.00	91.04	92.79	9,857.90	-716.37	6,626.86	6,636.10	5.22	5.11	1.07	
16,920.00	90.92	91.81	9,856.28	-720.18	6,721.76	6,731.06	1.04	-0.13	-1.03	
17,014.00	90.14	91.29	9,855.41	-722.72	6,815.72	6,825.04	1.00	-0.83	-0.55	
17,109.00	89.44	89.80	9,855.76	-723.62	6,910.72	6,920.04	1.73	-0.74	-1.57	
17,203.00	88.35	88.83	9,857.57	-722.50	7,004.69	7,013.99	1.55	-1.16	-1.03	
17,298.00	88.26	89.00	9,860.38	-720.70	7,099.63	7,108.89	0.20	-0.09	0.18	
17,392.00	86.61	89.48	9,864.59	-719.46	7,193.53	7,202.76	1.83	-1.76	0.51	
17,487.00	86.69	89.34	9,870.14	-718.48	7,288.36	7,297.57	0.17	0.08	-0.15	
17,581.00	87.14	90.34	9,875.20	-718.22	7,382.22	7,391.42	1.17	0.48	1.06	
17,675.00	86.47	89.62	9,880.44	-718.19	7,476.07	7,485.26	1.05	-0.71	-0.77	
17,770.00	86.97	89.69	9,885.87	-717.61	7,570.92	7,580.09	0.53	0.53	0.07	
17,864.00	88.74	90.89	9,889.39	-718.09	7,664.84	7,674.01	2.27	1.88	1.28	
17,959.00	88.68	90.87	9,891.53	-719.55	7,759.81	7,768.99	0.07	-0.06	-0.02	
18,054.00	90.03	91.24	9,892.60	-721.30	7,854.78	7,863.98	1.47	1.42	0.39	
18,148.00	92.49	90.61	9,890.53	-722.82	7,948.74	7,957.95	2.70	2.62	-0.67	
18,243.00	91.54	89.55	9,887.19	-722.95	8,043.68	8,052.88	1.50	-1.00	-1.12	
18,337.00	87.82	88.83	9,887.72	-721.62	8,137.65	8,146.83	4.03	-3.96	-0.77	
18,432.00	87.62	88.44	9,891.49	-719.36	8,232.55	8,241.68	0.46	-0.21	-0.41	
18,526.00	86.75	87.46	9,896.11	-716.00	8,326.37	8,335.45	1.39	-0.93	-1.04	
18,621.00	86.95	86.66	9,901.33	-711.14	8,421.10	8,430.11	0.87	0.21	-0.84	
18,714.00	86.08	85.53	9,906.98	-704.81	8,513.71	8,522.62	1.53	-0.94	-1.22	
18,809.00	86.22	86.25	9,913.36	-698.02	8,608.26	8,617.06	0.77	0.15	0.76	
18,903.00	87.14	90.35	9,918.81	-695.24	8,702.03	8,710.79	4.46	0.98	4.36	
18,998.00	87.98	91.72	9,922.85	-696.95	8,796.93	8,805.70	1.69	0.88	1.44	
19,092.00	88.18	91.51	9,926.00	-699.60	8,890.84	8,899.64	0.31	0.21	-0.22	
19,187.00	90.31	93.46	9,927.26	-703.72	8,985.73	8,994.58	3.04	2.24	2.05	
19,281.00	90.48	92.46	9,926.61	-708.57	9,079.60	9,088.51	1.08	0.18	-1.06	
19,376.00	89.47	90.79	9,926.65	-711.27	9,174.56	9,183.50	2.05	-1.06	-1.76	
19,467.00	89.75	89.61	9,927.27	-711.59	9,265.56	9,274.49	1.33	0.31	-1.30	
Last SB MWD Survey										
19,540.00	89.75	89.61	9,927.59	-711.09	9,338.55	9,347.47	0.00	0.00	0.00	
Projection To Bit: 1017' FSL, 341' FEL										



Survey Report



Company:	MARATHON OIL COMPANY	Local Co-ordinate Reference:	Well Valkyrie 12 WXY Federal Com 11H
Project:	Eddy County, NM (NAD27)	TVD Reference:	RKB @ 3024.50usft (Precision 101)
Site:	Valkyrie Pad (Grid)	MD Reference:	RKB @ 3024.50usft (Precision 101)
Well:	Valkyrie 12 WXY Federal Com 11H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	Database:	1 - EDM Production

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
237.00	236.95	3.11	-3.06	First SB MWD Survey
14,727.00	9,789.16	-653.81	4,532.17	SL Crossing: 1735' FNL, 0' FWL
19,467.00	9,927.27	-711.59	9,265.56	Last SB MWD Survey
19,540.00	9,927.59	-711.09	9,338.55	Projection To Bit: 1017' FSL, 341' FEL

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-015-49415
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Valkyrie 12 WXY Fed Com
8. Well Number 11H
9. OGRID Number 372098
10. Pool name or Wildcat Purple Sage; Wolfcamp (Gas)

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	
2. Name of Operator Marathon Oil Permian LLC	
3. Address of Operator 990 Town & Country Blvd. Houston, TX 77024	
4. Well Location Unit Letter <u>L</u> : <u>1593</u> feet from the <u>SOUTH</u> line and <u>850</u> feet from the <u>WEST</u> line Section <u>12</u> Township <u>23S</u> Range <u>28E</u> NMPM County <u>EDDY</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2998' GL	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		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.

8/12/2022 - Start frac prep operations.
8/15/2022 - Pressure test production casing to 13000 psi for 30 min, held, good test.
8/17/2022 - Start frac stage 1-39 with 2 shots per foot for a total of 936, 0.41-in, shots using 24,352,412 lbs of proppant and 24,605,784 gal of brackish water. Total interval from 9760' to 19501'
9/11/2022 - Finish frac last stage. RDMO.
9/16/2022 - Well ready to produce.
9/19/2022 - Open well and commence flowback operations. Turn to production.

Marathon Oil Permian requests a tubing exception for this well.

Spud Date:

6/14/2022

Rig Release Date:

7/13/2022

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

SIGNATURE Adrian Covarrubias TITLE Adv. Regulatory Compliance Rep. DATE 3/27/2023

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. 30-015-49415		
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.		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER								5. Lease Name or Unit Agreement Name Valkyrie 12 WXY Federal Com		
8. Name of Operator Marathon Oil Permian LLC								6. Well Number: 11H		
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:	L	12	23S	28E		1593	SOUTH	850	WEST	EDDY
BH:	P	7	23S	29E		1017	SOUTH	341	EAST	EDDY
13. Date Spudded 6/14/2022	14. Date T.D. Reached 7/9/2022		15. Date Rig Released 7/13/2022			16. Date Completed (Ready to Produce) 9/16/2022		17. Elevations (DF and RKB, RT, GR, etc.) 2998' GL		
18. Total Measured Depth of Well 19540'			19. Plug Back Measured Depth 19520'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 9760' - 19501'; 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		514'		17-1/2"		Lead: 520, 2.14, Class C Tail: 150, 1.32, Class C		
9-5/8"		40#, P110, BTC		2669'		12-1/4"		Lead: 570, 1.88, Class C Tail: 210, 1.32, Class C		
5-1/2"		23#, P110, TLW		19524'		8-3/4"		Lead: 430, 4.36, Class H Tail: 2050, 1.45, Class H		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD					
					SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 9760' - 19501'; 0.41"; 936 shots					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
					DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
					9760' - 19501		24,352,412 lbs proppant			
					9760' - 19501		24,605,784 gal brackish water			
28. PRODUCTION										
Date First Production 9/19/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 10/12/2022	Hours Tested 24	Choke Size 44/64	Prod'n For Test Period	Oil - Bbl 2175	Gas - MCF 3939	Water - Bbl. 6422	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure 2068	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) 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 Regulatory Compliance Rep			Date 11/8/2022	
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	See Attached	T. Canyon	T. Ojo Alamo
T. Salt		T. Strawn	T. Penn A"
B. Salt		T. Kirtland	T. Penn. "B"
T. Yates		T. Fruitland	T. Penn. "C"
T. 7 Rivers		T. Pictured Cliffs	T. Penn. "D"
T. Queen		T. Cliff House	T. Leadville
T. Grayburg		T. Menefee	T. Madison
T. San Andres		T. Point Lookout	T. Elbert
T. Glorieta		T. Mancos	T. McCracken
T. Paddock		T. Gallup	T. Ignacio Otzte
T. Blinebry		Base Greenhorn	T.Granite
T.Tubb		T. Dakota	
T. Drinkard		T. Morrison	
T. Abo		T. Todilto	
T. Wolfcamp		T. Entrada	
T. Penn		T. Wingate	
T. Cisco (Bough C)		T. Chinle	
		T. Permian	

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

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

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

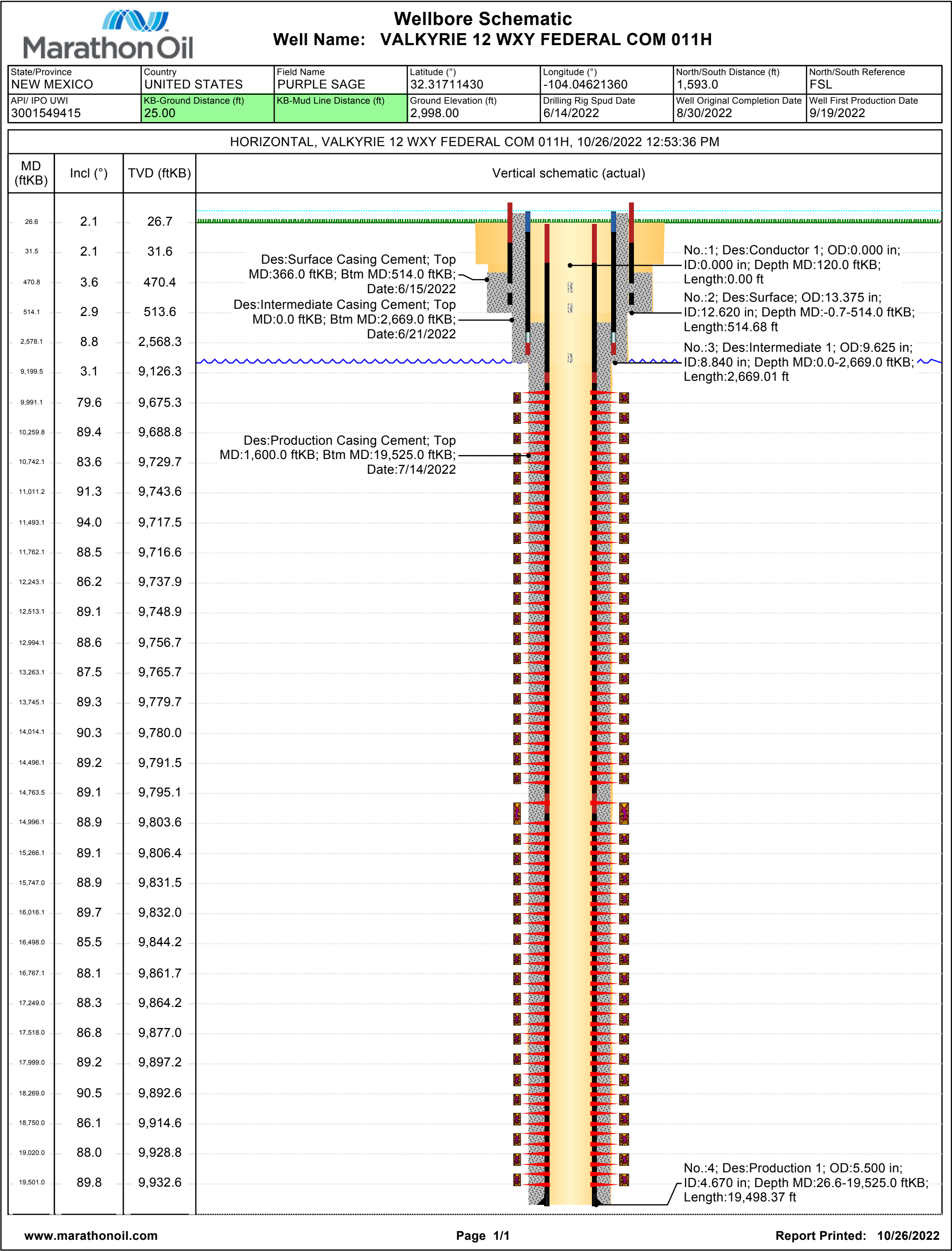
No. 4, from.....to.....

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

Geological Tops (MD)	
Valkyrie 12 WXY Federal Com 11H	
Permian	0
Rustler	50
Salado	503
Castile	1030
Lamar	2709
Base of Salt	2709
Bell Canyon	2740
Cherry Canyon	3542
Brushy Canyon	4823
Bone Spring Lime	6253
Upper Avalon Shale	6566
Bone Spring 1st	7400
Bone Spring 2nd	7632
Bone Spring 3rd	9351
Wolfcamp	9714



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 200848

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 200848
	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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 200848

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 200848
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days to NMOCD after BLM approval.	8/8/2023