

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 9/20/2022
⁴ API Number 30 - 015-49414	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 7H

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		1621	SOUTH	839	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
I	7	23S	29E		2288	SOUTH	374	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				

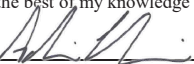
III. Oil and Gas Transporters

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 6/15/2022	²² Ready Date 9/14/2022	²³ TD 19432'	²⁴ PBDT 19412'	²⁵ Perforations 9802' - 19393'	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: 780 sacks, 2.18 yield, Class C Tail: 150 sacks, 1.32 yield, Class C		
12-1/4"	9-5/8", 40#, P110, BTC	2668'	Lead: 570 sacks, 1.98 yield, Class C Tail: 210 sacks, 1.32 yield, Class C		
8-3/4"	5-1/2", 23#, P110, TLW	19417'	Lead: 490 sacks, 3.84 yield, Class H Tail: 2050 sacks, 1.49 yield, Class H		

V. Well Test Data

³¹ Date New Oil 9/20/2022	³² Gas Delivery Date 9/20/2022	³³ Test Date 10/12/2022	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1572
³⁷ Choke Size 44/64	³⁸ Oil 1576	³⁹ Water 5346	⁴⁰ Gas 2908		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: 8/8/2023		
Date: 3/28/2023		Phone: 713-296-3368			

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-49414	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 372722	⁵ Property Name VALKYRIE 12 WXY FEDERAL COM	⁶ Well Number 7H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC.	⁹ Elevation 2998'

¹⁰ Surface Location

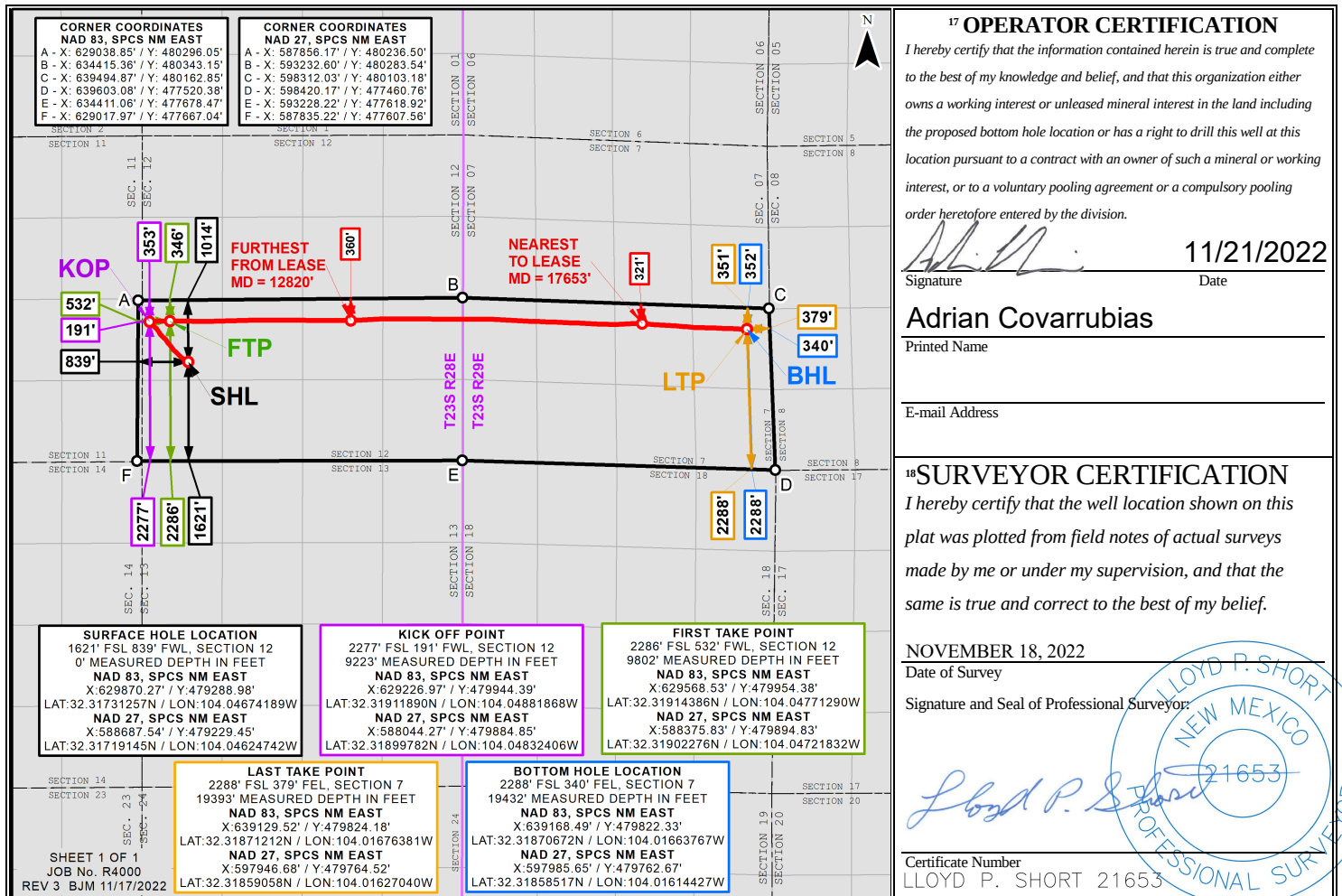
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	12	23S	28E		1621	SOUTH	839	WEST	EDDY

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
I	7	23S	29E		2288	SOUTH	340	EAST	EDDY

¹² Dedicated Acres 634.72	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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"



Survey Report

Service Company: SB Directional

Location: Loving

Well: VALKYRIE 12 WXY FEDERAL
COM7H

Rig: PD-101

API or UWI: 30-015-49414

Job Number: 622817

State: NM

Operating Company: MARATHON

County: Eddy

Magnetic Declination: 6.85

Country:

Proposed Azimuth: 90.73

Comment:

North Reference: GRID

Latitude: 32.31719146

Longitude: -104.04624743

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
237.00	0.97	154.68	236.99	-1.81	0.86	154.68	2.01	0.88	0.41
331.00	0.97	172.44	330.98	-3.32	1.30	158.58	3.57	1.35	0.32
425.00	1.01	229.39	424.96	-4.65	0.78	170.49	4.71	0.84	1.00
458.00	1.14	255.23	457.96	-4.92	0.24	177.20	4.93	0.30	1.51
623.00	1.84	263.27	622.90	-5.65	-3.98	215.14	6.91	-3.91	0.44
718.00	2.24	257.84	717.84	-6.22	-7.31	229.59	9.60	-7.23	0.47
813.00	2.65	264.09	812.75	-6.84	-11.31	238.83	13.21	-11.22	0.51
907.00	3.28	285.62	906.63	-6.34	-16.06	248.46	17.26	-15.98	1.35
1002.00	3.32	293.41	1001.47	-4.51	-21.20	257.98	21.67	-21.14	0.47
1097.00	3.83	323.58	1096.30	-0.87	-25.61	268.06	25.62	-25.60	2.03
1192.00	4.23	333.81	1191.06	4.83	-29.04	279.44	29.44	-29.10	0.86
1286.00	3.56	334.36	1284.85	10.57	-31.83	288.37	33.54	-31.96	0.71
1381.00	2.81	333.60	1379.70	15.32	-34.14	294.16	37.42	-34.34	0.79
1476.00	2.48	323.39	1474.60	19.05	-36.40	297.63	41.09	-36.64	0.60
1570.00	3.98	316.23	1568.45	23.04	-39.87	300.02	46.05	-40.16	1.65
1665.00	4.03	313.55	1663.21	27.72	-44.57	301.88	52.49	-44.92	0.20
1760.00	4.79	327.56	1757.93	33.37	-49.12	304.19	59.38	-49.54	1.38
1854.00	3.95	339.21	1851.66	39.71	-52.38	307.17	65.73	-52.88	1.30
1948.00	1.59	11.34	1945.55	44.02	-53.27	309.57	69.10	-53.83	2.91
2043.00	1.14	75.79	2040.53	45.54	-52.09	311.16	69.19	-52.67	1.58
2138.00	1.21	86.60	2135.51	45.83	-50.18	312.41	67.96	-50.76	0.24
2232.00	0.29	47.57	2229.50	46.05	-49.01	313.22	67.25	-49.59	1.07
2327.00	1.01	121.91	2324.49	45.77	-48.12	313.57	66.41	-48.70	1.02
2421.00	2.72	259.50	2418.46	44.93	-49.61	312.16	66.93	-50.18	3.76

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
2516.00	5.04	273.06	2513.24	44.74	-56.00	308.62	71.67	-56.56	2.61
2611.00	5.26	280.69	2607.86	45.77	-64.44	305.38	79.04	-65.02	0.76
2706.00	4.29	282.97	2702.53	47.37	-72.18	303.28	86.34	-72.78	1.04
2800.00	6.04	296.00	2796.15	50.33	-80.06	302.16	94.56	-80.69	2.23
2895.00	6.69	303.30	2890.56	55.56	-89.17	301.93	105.07	-89.87	1.09
2989.00	7.12	299.99	2983.88	61.48	-98.80	301.89	116.36	-99.57	0.62
3084.00	8.69	305.34	3077.98	68.57	-109.75	302.00	129.41	-110.61	1.82
3179.00	8.93	308.45	3171.85	77.31	-121.38	302.49	143.91	-122.35	0.56
3273.00	8.50	307.90	3264.77	86.11	-132.57	303.01	158.09	-133.66	0.47
3368.00	8.75	308.62	3358.69	94.94	-143.76	303.44	172.28	-144.96	0.29
3462.00	8.45	314.40	3451.64	104.23	-154.28	304.04	186.19	-155.60	0.97
3557.00	7.49	316.81	3545.72	113.63	-163.51	304.80	199.11	-164.94	1.07
3652.00	8.28	313.92	3639.82	122.89	-172.67	305.44	211.94	-174.22	0.93
3745.00	8.96	317.42	3731.77	132.87	-182.39	306.07	225.66	-184.07	0.92
3839.00	9.13	314.28	3824.60	143.46	-192.69	306.67	240.23	-194.50	0.56
3934.00	8.78	316.33	3918.45	153.97	-203.09	307.17	254.86	-205.03	0.50
4029.00	8.83	314.87	4012.33	164.36	-213.26	307.62	269.25	-215.34	0.24
4124.00	8.19	314.05	4106.28	174.21	-223.29	307.96	283.21	-225.50	0.69
4218.00	7.96	312.93	4199.35	183.30	-232.87	308.21	296.36	-235.19	0.30
4313.00	7.40	315.56	4293.50	192.14	-241.97	308.45	308.98	-244.40	0.70
4408.00	8.30	323.73	4387.61	202.04	-250.31	308.91	321.68	-252.87	1.51
4503.00	8.47	323.31	4481.59	213.18	-258.55	309.51	335.10	-261.24	0.19
4597.00	8.57	322.40	4574.55	224.28	-266.96	310.03	348.67	-269.79	0.18
4692.00	8.79	321.48	4668.47	235.57	-275.80	310.50	362.71	-278.78	0.27
4787.00	8.74	321.99	4762.36	246.93	-284.76	310.93	376.92	-287.89	0.10
4881.00	7.48	322.52	4855.42	257.42	-292.88	311.31	389.93	-296.14	1.34
4976.00	6.80	317.47	4949.68	266.47	-300.45	311.57	401.59	-303.82	0.97
5071.00	7.47	315.53	5043.94	275.02	-308.58	311.71	413.35	-312.06	0.75
5165.00	6.51	317.88	5137.24	283.33	-316.43	311.84	424.74	-320.02	1.07
5259.00	8.16	318.76	5230.47	292.30	-324.40	312.02	436.67	-328.10	1.76
5354.00	8.01	321.09	5324.53	302.52	-333.01	312.25	449.90	-336.83	0.38
5447.00	9.21	324.18	5416.48	313.60	-341.43	312.57	463.59	-345.40	1.38
5542.00	9.68	327.20	5510.19	326.48	-350.21	312.99	478.78	-354.34	0.72
5636.00	8.81	326.49	5602.97	339.12	-358.46	313.41	493.46	-362.75	0.93
5731.00	7.92	327.32	5696.96	350.70	-366.01	313.78	506.91	-370.45	0.95
5826.00	7.84	321.88	5791.06	361.30	-373.55	314.05	519.69	-378.12	0.79
5921.00	8.17	316.99	5885.14	371.34	-382.15	314.18	532.85	-386.85	0.80
6015.00	7.41	314.01	5978.27	380.43	-391.07	314.21	545.59	-395.88	0.92
6109.00	8.27	314.52	6071.39	389.38	-400.25	314.21	558.41	-405.18	0.92
6204.00	8.19	311.07	6165.41	398.62	-410.22	314.18	572.00	-415.27	0.53
6298.00	9.16	310.42	6258.33	407.87	-420.96	314.09	586.15	-426.13	1.04
6393.00	7.36	311.09	6352.35	416.77	-431.31	314.02	599.77	-436.58	1.90
6487.00	7.00	312.21	6445.61	424.58	-440.09	313.97	611.51	-445.46	0.41
6582.00	5.44	309.44	6540.05	431.33	-447.85	313.92	621.79	-453.31	1.67
6677.00	4.78	316.65	6634.67	437.07	-454.05	313.91	630.23	-459.58	0.97
6772.00	6.49	321.29	6729.21	444.14	-460.12	313.99	639.51	-465.75	1.86
6867.00	7.74	325.58	6823.47	453.60	-467.10	314.16	651.11	-472.84	1.43
6960.00	9.75	328.42	6915.39	465.48	-474.76	314.43	664.89	-480.66	2.21
7055.00	7.83	331.18	7009.27	478.00	-482.10	314.76	678.90	-488.15	2.07
7150.00	7.42	326.19	7103.43	488.77	-488.63	315.01	691.13	-494.82	0.82
7244.00	9.64	324.46	7196.38	500.22	-496.58	315.21	704.85	-502.92	2.38
7339.00	9.94	326.95	7290.00	513.56	-505.68	315.44	720.73	-512.18	0.55
7434.00	8.13	324.03	7383.82	525.88	-514.10	315.65	735.42	-520.75	1.96

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7528.00	6.96	320.72	7477.00	535.66	-521.61	315.76	747.67	-528.39	1.33
7624.00	6.16	314.80	7572.38	543.80	-528.94	315.79	758.61	-535.83	1.09
7719.00	6.95	309.52	7666.76	551.04	-536.99	315.74	769.42	-543.97	1.05
7814.00	8.92	308.29	7760.84	559.27	-547.21	315.62	782.44	-554.29	2.08
7909.00	10.34	308.47	7854.50	569.13	-559.67	315.48	798.21	-566.87	1.50
8003.00	9.03	315.28	7947.16	579.62	-571.46	315.41	813.96	-578.80	1.85
8098.00	8.64	322.94	8041.04	590.62	-581.01	315.47	828.49	-588.49	1.30
8193.00	9.63	318.91	8134.83	602.30	-590.53	315.57	843.50	-598.16	1.24
8288.00	9.46	317.49	8228.52	614.04	-601.03	315.61	859.24	-608.80	0.31
8382.00	10.96	319.76	8321.03	626.56	-612.02	315.67	875.87	-619.96	1.65
8477.00	10.61	319.39	8414.35	640.09	-623.55	315.75	893.61	-631.65	0.38
8572.00	6.57	325.86	8508.26	651.24	-632.30	315.85	907.69	-640.54	4.37
8665.00	2.22	331.34	8600.97	657.22	-636.15	315.93	914.67	-644.47	4.69
8760.00	1.98	280.52	8695.91	659.14	-638.64	315.90	917.78	-646.99	1.91
8855.00	1.75	252.20	8790.86	658.99	-641.64	315.76	919.77	-649.98	0.99
8949.00	1.25	235.70	8884.83	657.98	-643.85	315.62	920.59	-652.18	0.70
9044.00	0.38	147.86	8979.82	657.13	-644.54	315.55	920.46	-652.86	1.36
9139.00	0.79	166.80	9074.82	656.22	-644.22	315.53	919.59	-652.53	0.47
9226.00	1.13	107.21	9161.81	655.38	-643.27	315.53	918.33	-651.56	1.15
9273.00	9.07	86.47	9208.59	655.48	-639.12	315.72	915.49	-647.42	17.07
9321.00	16.24	85.59	9255.39	656.23	-628.64	316.23	908.75	-636.95	14.94
9368.00	24.71	85.40	9299.38	657.52	-612.26	317.04	898.44	-620.59	18.02
9415.00	31.34	83.68	9340.85	659.66	-590.30	318.18	885.21	-598.65	14.21
9462.00	37.54	82.87	9379.59	662.78	-563.92	319.61	870.22	-572.31	13.23
9509.00	40.40	83.54	9416.13	666.27	-534.57	321.26	854.22	-543.01	6.15
9556.00	46.24	88.24	9450.32	668.51	-502.43	323.07	836.27	-510.91	14.19
9604.00	49.00	90.51	9482.67	668.88	-466.98	325.08	815.77	-475.47	6.73
9651.00	52.69	91.40	9512.34	668.27	-430.55	327.21	794.96	-439.03	7.99
9698.00	55.73	92.10	9539.83	667.10	-392.45	329.53	773.98	-400.92	6.58
9745.00	59.66	91.24	9564.94	665.95	-352.75	332.09	753.60	-361.21	8.50
9793.00	62.60	90.23	9588.11	665.41	-310.72	334.97	734.39	-319.18	6.40
9840.00	65.15	89.88	9608.81	665.38	-268.53	338.02	717.52	-276.98	5.47
9888.00	64.86	89.22	9629.09	665.72	-225.03	341.32	702.72	-233.49	1.38
9935.00	66.27	89.42	9648.53	666.22	-182.24	344.70	690.70	-190.71	3.02
9983.00	71.63	89.25	9665.76	666.75	-137.46	348.35	680.77	-145.95	11.17
10030.00	75.55	88.98	9679.04	667.44	-92.39	352.12	673.81	-100.89	8.36
10077.00	78.45	89.46	9689.61	668.07	-46.61	356.01	669.69	-55.11	6.25
10124.00	83.03	91.02	9697.17	667.87	-0.23	359.98	667.87	-8.74	10.28
10172.00	87.81	91.62	9701.00	666.76	47.59	4.08	668.46	39.09	10.04
10266.00	90.17	91.77	9702.66	663.98	141.53	12.03	678.90	133.05	2.52
10361.00	87.76	89.36	9704.38	663.05	236.49	19.63	703.96	228.02	3.59
10456.00	87.70	89.44	9708.14	664.04	331.41	26.52	742.15	322.92	0.11
10554.00	87.70	88.76	9712.07	665.58	429.32	32.82	792.03	420.81	0.69
10649.00	87.70	88.52	9715.89	667.83	524.22	38.13	849.00	515.67	0.25
10743.00	87.76	88.29	9719.61	670.45	618.11	42.67	911.90	609.51	0.25
10838.00	87.87	88.47	9723.23	673.13	713.00	46.65	980.55	704.37	0.22
10932.00	88.10	88.45	9726.54	675.65	806.91	50.06	1052.43	798.23	0.25
11026.00	88.94	88.25	9728.96	678.36	900.84	53.02	1127.69	892.12	0.92
11121.00	89.10	88.10	9730.59	681.39	995.77	55.62	1206.59	987.01	0.23
11215.00	89.16	90.37	9732.02	682.64	1089.75	57.94	1285.90	1080.96	2.42
11309.00	89.16	89.88	9733.39	682.44	1183.74	60.04	1366.37	1174.95	0.52
11403.00	90.06	89.64	9734.03	682.83	1277.73	61.88	1448.74	1268.93	0.99
11497.00	89.66	89.81	9734.26	683.28	1371.73	63.52	1532.49	1362.92	0.46

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
11590.00	89.16	90.58	9735.22	682.96	1464.73	65.00	1616.13	1455.91	0.99
11684.00	88.94	90.53	9736.78	682.05	1558.71	66.37	1701.40	1549.89	0.24
11779.00	88.99	90.04	9738.50	681.58	1653.69	67.60	1788.64	1644.87	0.52
11873.00	88.66	90.40	9740.42	681.22	1747.67	68.70	1875.74	1738.85	0.52
11968.00	88.71	90.18	9742.60	680.74	1842.64	69.72	1964.37	1833.82	0.24
12063.00	88.77	90.43	9744.69	680.23	1937.62	70.66	2053.56	1928.80	0.27
12157.00	88.71	90.31	9746.76	679.63	2031.60	71.50	2142.26	2022.77	0.14
12252.00	88.66	90.27	9748.94	679.15	2126.57	72.29	2232.38	2117.74	0.07
12346.00	88.66	89.70	9751.14	679.17	2220.54	72.99	2322.09	2211.71	0.61
12441.00	88.71	90.18	9753.32	679.27	2315.52	73.65	2413.10	2306.68	0.51
12536.00	87.98	90.51	9756.06	678.70	2410.48	74.27	2504.20	2401.63	0.84
12631.00	88.38	89.89	9759.08	678.37	2505.43	74.85	2595.64	2496.58	0.78
12725.00	88.54	90.46	9761.61	678.08	2599.39	75.38	2686.38	2590.54	0.63
12820.00	91.06	89.95	9761.94	677.74	2694.38	75.88	2778.31	2685.53	2.71
12915.00	88.71	87.06	9762.13	680.22	2789.33	76.30	2871.08	2780.44	3.92
13010.00	88.38	86.25	9764.54	685.76	2884.14	76.63	2964.55	2875.17	0.92
13105.00	88.43	86.45	9767.18	691.80	2978.91	76.93	3058.19	2969.85	0.22
13199.00	88.54	87.01	9769.67	697.16	3072.72	77.22	3150.82	3063.59	0.61
13294.00	88.60	87.38	9772.04	701.81	3167.58	77.51	3244.40	3158.38	0.39
13389.00	88.26	89.63	9774.64	704.29	3262.51	77.82	3337.66	3253.27	2.39
13484.00	88.94	90.35	9776.96	704.31	3357.48	78.15	3430.55	3348.23	1.04
13578.00	88.71	90.61	9778.89	703.52	3451.45	78.48	3522.42	3442.21	0.37
13672.00	88.77	90.26	9780.96	702.81	3545.43	78.79	3614.41	3536.19	0.38
13767.00	89.14	89.55	9782.69	702.96	3640.41	79.07	3707.66	3631.16	0.84
13862.00	88.71	90.60	9784.47	702.84	3735.39	79.34	3800.94	3726.14	1.19
13957.00	88.83	90.88	9786.51	701.61	3830.36	79.62	3894.09	3821.11	0.32
14052.00	87.37	89.49	9789.66	701.31	3925.31	79.87	3987.46	3916.05	2.12
14147.00	88.15	91.21	9793.38	700.72	4020.23	80.11	4080.84	4010.97	1.99
14242.00	88.27	90.42	9796.34	699.37	4115.17	80.35	4174.18	4105.93	0.84
14338.00	88.66	90.19	9798.92	698.86	4211.13	80.58	4268.73	4201.89	0.47
14432.00	88.10	90.34	9801.57	698.43	4305.09	80.79	4361.38	4295.85	0.62
14527.00	88.26	90.88	9804.59	697.42	4400.04	80.99	4454.97	4390.80	0.59
14622.00	87.70	90.55	9807.94	696.23	4494.97	81.20	4548.58	4485.74	0.68
14717.00	88.60	90.17	9811.01	695.64	4589.92	81.38	4642.34	4580.69	1.03
14812.00	87.87	88.74	9813.93	696.54	4684.87	81.54	4736.37	4675.61	1.69
14908.00	88.15	88.72	9817.27	698.67	4780.79	81.69	4831.57	4771.50	0.29
15003.00	90.22	90.30	9818.62	699.48	4875.77	81.84	4925.68	4866.46	2.74
15097.00	89.10	90.84	9819.17	698.54	4969.76	82.00	5018.61	4960.46	1.32
15192.00	88.54	92.27	9821.13	695.97	5064.70	82.18	5112.29	5055.42	1.62
15288.00	88.21	92.85	9823.85	691.68	5160.57	82.37	5206.71	5151.33	0.69
15383.00	88.99	93.62	9826.17	686.32	5255.38	82.56	5300.01	5246.21	1.15
15477.00	88.77	92.70	9828.01	681.14	5349.22	82.74	5392.41	5340.11	1.01
15572.00	88.83	92.72	9830.00	676.65	5444.10	82.92	5485.98	5435.03	0.07
15667.00	87.20	92.59	9833.29	672.25	5538.93	83.08	5579.58	5529.92	1.72
15760.00	89.10	93.05	9836.29	667.68	5631.77	83.24	5671.21	5622.80	2.10
15856.00	89.61	92.20	9837.37	663.28	5727.66	83.39	5765.94	5718.74	1.03
15951.00	89.22	91.92	9838.34	659.87	5822.59	83.53	5859.86	5813.71	0.51
16046.00	89.22	91.24	9839.64	657.25	5917.55	83.66	5953.94	5908.69	0.72
16141.00	88.43	92.24	9841.59	654.36	6012.48	83.79	6047.99	6003.66	1.34
16235.00	89.27	92.28	9843.47	650.66	6106.39	83.92	6140.96	6097.60	0.89
16330.00	89.05	92.45	9844.87	646.74	6201.30	84.05	6234.93	6192.55	0.29
16425.00	88.99	92.42	9846.49	642.70	6296.20	84.17	6328.92	6287.50	0.07
16519.00	89.16	92.37	9848.01	638.78	6390.10	84.29	6421.95	6381.45	0.19

DigiDrill DataLogger

4/5

www.digidrill.com

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
16613.00	88.71	91.95	9849.75	635.23	6484.02	84.40	6515.06	6475.40	0.65
16708.00	87.99	92.04	9852.49	631.93	6578.92	84.51	6609.20	6570.34	0.76
16802.00	86.75	93.35	9856.80	627.51	6672.72	84.63	6702.16	6664.18	1.92
16897.00	89.16	92.48	9860.19	622.69	6767.52	84.74	6796.11	6759.04	2.70
16991.00	88.26	92.38	9862.31	618.70	6861.42	84.85	6889.25	6852.98	0.96
17086.00	91.01	92.20	9862.91	614.91	6956.33	84.95	6983.45	6947.93	2.90
17181.00	90.50	89.99	9861.66	613.09	7051.30	85.03	7077.90	7042.91	2.39
17275.00	90.45	87.59	9860.88	615.08	7145.27	85.08	7171.69	7136.85	2.55
17369.00	88.43	86.03	9861.80	620.31	7239.11	85.10	7265.64	7230.62	2.72
17464.00	87.71	86.33	9865.00	626.63	7333.84	85.12	7360.56	7325.26	0.82
17558.00	87.70	90.00	9868.77	629.64	7427.70	85.15	7454.34	7419.08	3.90
17653.00	87.59	93.28	9872.67	626.92	7522.57	85.24	7548.65	7513.97	3.45
17747.00	89.10	94.55	9875.39	620.51	7616.31	85.34	7641.54	7607.78	2.10
17842.00	88.77	94.18	9877.15	613.28	7711.01	85.45	7735.36	7702.58	0.52
17936.00	90.39	93.61	9877.84	606.89	7804.79	85.55	7828.35	7796.43	1.83
18031.00	88.88	92.69	9878.45	601.67	7899.64	85.64	7922.52	7891.34	1.86
18126.00	87.65	94.25	9881.32	595.93	7994.42	85.74	8016.60	7986.18	2.09
18220.00	88.43	94.18	9884.54	589.02	8088.11	85.83	8109.53	8079.95	0.83
18315.00	86.53	94.31	9888.71	582.00	8182.75	85.93	8203.42	8174.67	2.00
18409.00	87.82	95.13	9893.35	574.27	8276.32	86.03	8296.22	8268.33	1.63
18504.00	89.78	93.25	9895.34	567.33	8371.03	86.12	8390.24	8363.13	2.86
18598.00	89.33	92.27	9896.07	562.81	8464.92	86.20	8483.61	8457.06	1.15
18692.00	89.44	91.96	9897.08	559.34	8558.85	86.26	8577.11	8551.03	0.35
18786.00	89.72	91.82	9897.77	556.24	8652.80	86.32	8670.66	8645.01	0.33
18881.00	89.55	91.89	9898.37	553.16	8747.75	86.38	8765.22	8739.99	0.19
18975.00	89.61	91.90	9899.06	550.05	8841.69	86.44	8858.79	8833.97	0.06
19070.00	89.66	92.05	9899.66	546.78	8936.63	86.50	8953.35	8928.94	0.17
19164.00	88.94	91.41	9900.81	543.94	9030.58	86.55	9046.95	9022.92	1.02
19259.00	87.71	92.02	9903.59	541.10	9125.50	86.61	9141.53	9117.86	1.45
19354.00	87.93	92.81	9907.20	537.10	9220.34	86.67	9235.97	9212.75	0.86
19398.00	88.38	92.74	9908.62	534.97	9264.27	86.70	9279.70	9256.70	1.04

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
19432.00	88.38	92.74	9909.58	533.35	9298.22	86.72	9313.50	9290.67	0.00

Office
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 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. 30-015-49414
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 7H
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>1621</u> feet from the <u>SOUTH</u> line and <u>839</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: 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.

8/12/2022 - Start frac prep operations.
 8/15/2022 - Pressure test production casing to 13000 psi for 30 min, held, good test.
 8/16/2022 - MIRU.
 8/17/2022 - Start frac stages 1-39 with 2 shots per foot for a total of 936 shots, 0.41-in. in size using 23,877,765 lbs proppant and 24,489,360 gal brackish water. Total interval from 9802' to 19393'.
 9/10/2022 - Complete frac last stage.
 9/14/2022 - Well ready to produce.
 9/20/2022 - Open well and being flowback operations. Turn to production.

Marathon Oil Permian requests a tubing exception for this well.

Spud Date:

6/15/2022

Rig Release Date:

8/1/2022

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 3/28/2023

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. 30-015-49414										
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 Valkyrie 12 WXY Federal Com										
								6. Well Number: 7H										
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:	L	12	23S	28E		1621	SOUTH	839	WEST	EDDY								
BH:	I	7	23S	29E		2288	SOUTH	374	EAST	EDDY								
13. Date Spudded 6/15/2022	14. Date T.D. Reached 7/27/2022		15. Date Rig Released 8/1/2022			16. Date Completed (Ready to Produce) 9/14/2022		17. Elevations (DF and RKB, RT, GR, etc.) 2998' GL										
18. Total Measured Depth of Well 19432'			19. Plug Back Measured Depth 19412'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run GR										
22. Producing Interval(s), of this completion - Top, Bottom, Name 9802' - 19393'; 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: 780 sacks, 2.18 yield, Class C Tail: 150 sacks, 1.32 yield, Class C										
9-5/8"		40#, P110, BTC		2668'		12-1/4"		Lead: 570 sacks, 1.88 yield, Class C Tail: 210 sacks, 1.32 yield, Class C										
5-1/2"		23#, P110, TLW		19417'		8-3/4"		Lead: 490 sacks, 3.84 yield, Class H Tail: 2050 sacks, 1.48 yield, 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) 9802' - 19393'; 0.41"; 936 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>9802' - 19393'</td> <td>23,877,765 lbs proppant</td> </tr> <tr> <td>9802' - 19393'</td> <td>24,489,360 gal brackish water</td> </tr> <tr> <td></td> <td></td> </tr> </table>						DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	9802' - 19393'	23,877,765 lbs proppant	9802' - 19393'	24,489,360 gal brackish water		
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
9802' - 19393'	23,877,765 lbs proppant																	
9802' - 19393'	24,489,360 gal brackish water																	
28. PRODUCTION																		
Date First Production 9/20/2022		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 1576	Gas - MCF 2908	Water - Bbl. 5346	Gas - Oil Ratio											
Flow Tubing Press.	Casing Pressure 1572	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 Adv. Regulatory Compliance Rep		Date 3/28/2023											
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. 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.....

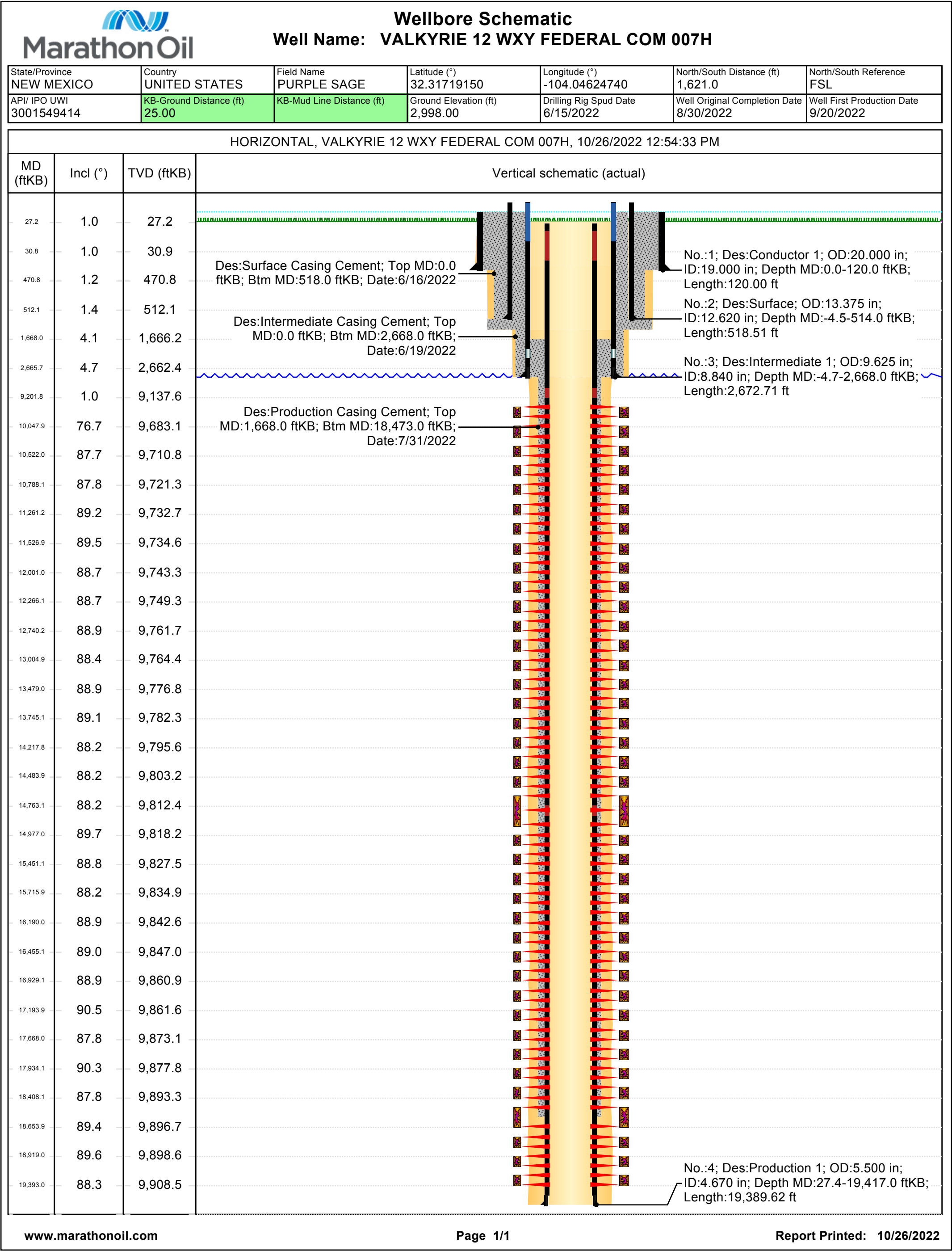
Include data on rate of water inflow and elevation to which water rose in hole.

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

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Geological Tops (MD)	
Valkyrie 12 WXY Federal Com 7H	
RUSTLER	50
SALADO	503
CASTILE	1030
BASE OF SALT	2665
LAMAR	2665
BELL CANYON	2690
CHERRY CANYON	3516
BRUSHY CANYON	4820
BONE SPRING LIME	6368
UPPER AVALON SHALE	6552
1ST BONE SPRING	7374
2ND BONE SPRING CARBONATE	7618
2ND BONE SPRING SAND	8101
3RD BONE SPRING CARBONATE	8481
3RD BONE SPRING SAND	9339
WOLFCAMP	9792



District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
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District III
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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 201280

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 201280
	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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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 201280

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 201280
	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