

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 10/15/2022
⁴ API Number 30 - 025-47020	⁵ Pool Name Pitchfork Ranch; Wolfcamp (South)	
	⁶ Pool Code 96994	
⁷ Property Code 322429	⁸ Property Name Ender Wiggins 14 WA Federal Com	⁹ Well Number 19H

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
H	14	25S	34E		2490	NORTH	1166	EAST	LEA

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
A	11	25S	34E		101	NORTH	1219	EAST	LEA
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				

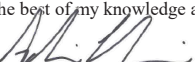
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
371960	Lucid Energy Delaware, LLC G 201 S Fourth Street P.O. Box 158, Artesia, NM 88210	G
329971	Oryx Delaware Oil Transport LLC 4000 N Big Spring St. Suite 500, Midland, TX 79705	O
371643	Solaris Water Midstream, LLC 97 Tradewinds Blvd, Suite B, Midland, TX 79706	W

IV. Well Completion Data

²¹ Spud Date 5/25/2022	²² Ready Date 10/11/2022	²³ TD 20658'	²⁴ PBTB 20644'	²⁵ Perforations 12974' - 20624'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8", 54.4#, J55, BTC	989'	Lead: 580 sacks, 1.67 yield, Class C Tail: 200 sacks, 1.33 yield, Class C		
12-1/4"	9-5/8", 40#, P110, BTC	11528'	Lead: 1865 sacks, 3.55 yield, NeoCem Tail: 495 sacks, 4.08 yield, NeoCem		
8-3/4"	5-1/2", 23#, P110, TLW	20648'	Lead: 2185 sacks, 2.13 yield, Class H Tail: 2480 sacks, 1.23 yield, Class H		

V. Well Test Data

³¹ Date New Oil 10/15/2022	³² Gas Delivery Date 10/15/2022	³³ Test Date 10/24/2022	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 2495
³⁷ Choke Size 38/64	³⁸ Oil 2417	³⁹ Water 4244	⁴⁰ Gas 4040		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: 8/11/2023		
Date: 4/5/2023		Phone: 713-296-3368			



Marathon Oil Permian LLC

Lea County, NM (NAD27 NME)

Ender Wiggins 14

Ender Wiggins 14 WA Fed Com 19H

OH / 69900

Design: Surveys (Cactus 169)

Standard Survey Report

20 July, 2022





Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ender Wiggins 14 WA Fed Com 19H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3381.60usft (Cactus 169)
Site:	Ender Wiggins 14	MD Reference:	RKB @ 3381.60usft (Cactus 169)
Well:	Ender Wiggins 14 WA Fed Com 19H	North Reference:	Grid
Wellbore:	OH / 69900	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 169)	Database:	USA Compass

Project	Lea 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	Ender Wiggins 14		
Site Position:		Northing:	412,451.19 usft
From:	Map	Easting:	777,933.08 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 50.739168 N
		Longitude:	103° 26' 7.797048 W
		Grid Convergence:	0.478 °

Well	Ender Wiggins 14 WA Fed Com 19H		
Well Position	+N/-S	0.00 usft	Northing: 412,451.19 usft
	+E/-W	0.00 usft	Easting: 777,933.08 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 7' 50.739168 N
		Longitude:	103° 26' 7.797048 W
		Ground Level:	3,358.00 usft

Wellbore	OH / 69900		
Magnetics	Model Name	Sample Date	Declination (°)
	IFR	6/2/2022	6.341
			Dip Angle (°) 59.710
			Field Strength (nT) 47,504.00000000

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 (°) 359.54

Survey Program	Date 7/4/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
0.00	20,658.00	Phoenix MWD Surveys (OH / 69900)	MWD+HRGM
			Description 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
163.00	0.36	278.81	163.00	0.08	-0.51	0.08	0.22	0.22	0.00
First Phoenix MWD Survey									
223.00	0.41	276.73	223.00	0.13	-0.91	0.14	0.09	0.08	-3.47
313.00	0.37	266.93	313.00	0.15	-1.52	0.17	0.09	-0.04	-10.89
400.00	0.62	233.92	399.99	-0.14	-2.18	-0.12	0.42	0.29	-37.94
495.00	0.53	255.04	494.99	-0.55	-3.02	-0.53	0.24	-0.09	22.23
584.00	0.87	241.71	583.98	-0.98	-4.01	-0.95	0.42	0.38	-14.98
674.00	1.24	247.51	673.97	-1.68	-5.51	-1.63	0.43	0.41	6.44
764.00	1.67	258.53	763.94	-2.31	-7.70	-2.25	0.57	0.48	12.24
853.00	1.44	256.60	852.90	-2.83	-10.05	-2.75	0.27	-0.26	-2.17



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Wellbore:	OH / 69900	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)
917.00	0.89	247.52	916.89	-3.20	-11.30	-3.11	0.90	-0.86	-14.19
1,027.00	0.72	261.19	1,026.88	-3.64	-12.77	-3.53	0.23	-0.15	12.43
1,117.00	0.90	228.95	1,116.87	-4.19	-13.86	-4.08	0.54	0.20	-35.82
1,206.00	1.30	213.92	1,205.85	-5.48	-14.95	-5.36	0.55	0.45	-16.89
1,301.00	2.19	212.01	1,300.81	-7.92	-16.51	-7.78	0.94	0.94	-2.01
1,395.00	3.15	206.45	1,394.71	-11.75	-18.62	-11.60	1.06	1.02	-5.91
1,490.00	4.37	202.63	1,489.50	-17.43	-21.17	-17.26	1.31	1.28	-4.02
1,584.00	5.83	204.88	1,583.13	-25.07	-24.56	-24.87	1.57	1.55	2.39
1,679.00	6.84	203.04	1,677.54	-34.65	-28.80	-34.42	1.08	1.06	-1.94
1,774.00	6.51	199.73	1,771.90	-44.93	-32.83	-44.66	0.53	-0.35	-3.48
1,868.00	6.45	196.13	1,865.30	-55.01	-36.10	-54.72	0.44	-0.06	-3.83
1,963.00	6.12	190.74	1,959.73	-65.11	-38.53	-64.80	0.71	-0.35	-5.67
2,057.00	6.03	190.11	2,053.20	-74.90	-40.33	-74.57	0.12	-0.10	-0.67
2,152.00	6.15	187.43	2,147.67	-84.86	-41.86	-84.52	0.32	0.13	-2.82
2,246.00	5.94	186.84	2,241.14	-94.68	-43.09	-94.33	0.23	-0.22	-0.63
2,340.00	6.05	185.25	2,334.63	-104.44	-44.12	-104.08	0.21	0.12	-1.69
2,435.00	6.14	187.05	2,429.09	-114.47	-45.21	-114.10	0.22	0.09	1.89
2,530.00	6.05	187.26	2,523.56	-124.48	-46.46	-124.10	0.10	-0.09	0.22
2,624.00	5.88	184.87	2,617.05	-134.19	-47.50	-133.80	0.32	-0.18	-2.54
2,719.00	5.89	185.09	2,711.55	-143.89	-48.34	-143.50	0.03	0.01	0.23
2,813.00	6.00	182.04	2,805.04	-153.61	-48.95	-153.21	0.36	0.12	-3.24
2,908.00	5.89	182.95	2,899.53	-163.44	-49.37	-163.03	0.15	-0.12	0.96
3,002.00	5.90	181.39	2,993.03	-173.08	-49.74	-172.68	0.17	0.01	-1.66
3,095.00	5.90	180.93	3,085.54	-182.64	-49.93	-182.23	0.05	0.00	-0.49
3,191.00	5.96	179.78	3,181.03	-192.56	-49.99	-192.15	0.14	0.06	-1.20
3,286.00	5.83	179.98	3,275.52	-202.31	-49.97	-201.91	0.14	-0.14	0.21
3,380.00	5.80	178.71	3,369.04	-211.84	-49.86	-211.43	0.14	-0.03	-1.35
3,474.00	5.96	176.01	3,462.55	-221.45	-49.42	-221.05	0.34	0.17	-2.87
3,569.00	5.81	177.05	3,557.05	-231.18	-48.83	-230.78	0.19	-0.16	1.09
3,663.00	5.97	177.88	3,650.55	-240.81	-48.40	-240.42	0.19	0.17	0.88
3,758.00	5.93	180.17	3,745.04	-250.66	-48.23	-250.26	0.25	-0.04	2.41
3,853.00	5.95	179.42	3,839.53	-260.49	-48.20	-260.09	0.08	0.02	-0.79
3,947.00	6.02	182.51	3,933.02	-270.28	-48.36	-269.89	0.35	0.07	3.29
4,042.00	6.03	183.16	4,027.49	-280.24	-48.86	-279.84	0.07	0.01	0.68
4,136.00	5.99	184.80	4,120.97	-290.06	-49.54	-289.65	0.19	-0.04	1.74
4,230.00	6.11	188.56	4,214.45	-299.89	-50.69	-299.48	0.44	0.13	4.00
4,325.00	5.87	189.77	4,308.93	-309.68	-52.27	-309.25	0.29	-0.25	1.27
4,419.00	6.04	194.78	4,402.43	-319.20	-54.35	-318.75	0.58	0.18	5.33
4,514.00	6.02	199.27	4,496.90	-328.74	-57.27	-328.27	0.50	-0.02	4.73
4,608.00	5.95	199.51	4,590.39	-337.98	-60.52	-337.48	0.08	-0.07	0.26
4,702.00	5.97	198.36	4,683.88	-347.21	-63.69	-346.69	0.13	0.02	-1.22
4,797.00	6.08	199.46	4,778.36	-356.65	-66.92	-356.10	0.17	0.12	1.16
4,891.00	5.77	197.48	4,871.85	-365.85	-70.00	-365.27	0.39	-0.33	-2.11



Survey Report



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4,986.00	6.16	197.85	4,966.34	-375.25	-73.00	-374.65	0.41	0.41	0.39
5,080.00	6.15	194.15	5,059.80	-384.94	-75.77	-384.32	0.42	-0.01	-3.94
5,175.00	6.09	189.72	5,154.26	-394.84	-77.87	-394.20	0.50	-0.06	-4.66
5,269.00	5.94	186.95	5,247.74	-404.58	-79.30	-403.93	0.35	-0.16	-2.95
5,364.00	5.98	184.71	5,342.23	-414.39	-80.30	-413.73	0.25	0.04	-2.36
5,458.00	5.98	183.77	5,435.71	-424.16	-81.02	-423.49	0.10	0.00	-1.00
5,553.00	6.12	180.21	5,530.19	-434.16	-81.37	-433.49	0.42	0.15	-3.75
5,647.00	6.25	175.53	5,623.64	-444.27	-80.99	-443.61	0.55	0.14	-4.98
5,742.00	6.16	172.36	5,718.08	-454.48	-79.91	-453.82	0.37	-0.09	-3.34
5,836.00	6.09	170.24	5,811.55	-464.39	-78.39	-463.75	0.25	-0.07	-2.26
5,931.00	6.22	171.47	5,906.00	-474.45	-76.77	-473.82	0.19	0.14	1.29
6,025.00	5.99	171.37	5,999.47	-484.33	-75.28	-483.71	0.24	-0.24	-0.11
6,120.00	6.11	174.75	6,093.94	-494.27	-74.07	-493.66	0.40	0.13	3.56
6,214.00	6.19	174.35	6,187.40	-504.29	-73.12	-503.69	0.10	0.09	-0.43
6,309.00	6.11	176.64	6,281.85	-514.44	-72.32	-513.84	0.27	-0.08	2.41
6,403.00	6.19	179.46	6,375.31	-524.50	-71.98	-523.90	0.33	0.09	3.00
6,498.00	6.21	181.36	6,469.75	-534.76	-72.05	-534.16	0.22	0.02	2.00
6,592.00	6.22	184.34	6,563.20	-544.92	-72.56	-544.32	0.34	0.01	3.17
6,687.00	6.21	184.87	6,657.64	-555.17	-73.38	-554.56	0.06	-0.01	0.56
6,781.00	6.08	186.56	6,751.10	-565.18	-74.38	-564.56	0.24	-0.14	1.80
6,876.00	6.09	188.84	6,845.57	-575.16	-75.73	-574.53	0.25	0.01	2.40
6,971.00	6.17	190.76	6,940.02	-585.15	-77.46	-584.51	0.23	0.08	2.02
7,065.00	6.13	190.34	7,033.48	-595.05	-79.30	-594.40	0.06	-0.04	-0.45
7,160.00	6.24	191.15	7,127.93	-605.11	-81.21	-604.44	0.15	0.12	0.85
7,254.00	5.73	188.04	7,221.42	-614.77	-82.86	-614.08	0.64	-0.54	-3.31
7,349.00	3.57	175.67	7,316.10	-622.41	-83.30	-621.72	2.49	-2.27	-13.02
7,444.00	1.71	145.33	7,411.00	-626.53	-82.27	-625.85	2.38	-1.96	-31.94
7,538.00	0.22	49.42	7,504.99	-627.56	-81.33	-626.89	1.86	-1.59	-102.03
7,633.00	0.09	135.23	7,599.99	-627.50	-81.14	-626.83	0.24	-0.14	90.33
7,727.00	0.18	313.10	7,693.99	-627.45	-81.20	-626.78	0.29	0.10	189.22
7,822.00	0.16	21.72	7,788.99	-627.22	-81.26	-626.55	0.20	-0.02	72.23
7,916.00	0.12	305.40	7,882.99	-627.05	-81.29	-626.37	0.19	-0.04	-81.19
8,011.00	0.16	169.93	7,977.99	-627.12	-81.34	-626.45	0.27	0.04	-142.60
8,105.00	0.16	144.63	8,071.98	-627.35	-81.25	-626.68	0.07	0.00	-26.91
8,200.00	0.14	74.49	8,166.98	-627.43	-81.06	-626.76	0.18	-0.02	-73.83
8,295.00	0.13	289.45	8,261.98	-627.37	-81.05	-626.69	0.27	-0.01	-152.67
8,389.00	0.18	163.55	8,355.98	-627.47	-81.11	-626.80	0.29	0.05	-133.94
8,484.00	0.13	0.84	8,450.98	-627.51	-81.06	-626.84	0.32	-0.05	-171.27
8,578.00	0.21	166.73	8,544.98	-627.57	-81.02	-626.90	0.36	0.09	176.48
8,673.00	0.18	166.59	8,639.98	-627.88	-80.95	-627.21	0.03	-0.03	-0.15
8,767.00	0.20	127.87	8,733.98	-628.13	-80.78	-627.46	0.14	0.02	-41.19
8,862.00	0.10	246.66	8,828.98	-628.26	-80.73	-627.59	0.28	-0.11	125.04
8,956.00	0.14	216.61	8,922.98	-628.39	-80.87	-627.72	0.08	0.04	-31.97



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9,051.00	0.14	66.62	9,017.98	-628.43	-80.83	-627.76	0.28	0.00	-157.88
9,145.00	0.20	112.33	9,111.98	-628.45	-80.58	-627.78	0.15	0.06	48.63
9,240.00	0.23	91.94	9,206.98	-628.52	-80.23	-627.85	0.09	0.03	-21.46
9,334.00	0.11	160.13	9,300.98	-628.61	-80.01	-627.95	0.23	-0.13	72.54
9,429.00	0.05	239.37	9,395.98	-628.72	-80.02	-628.05	0.12	-0.06	83.41
9,524.00	0.09	202.36	9,490.98	-628.81	-80.08	-628.14	0.06	0.04	-38.96
9,618.00	0.28	82.00	9,584.98	-628.84	-79.88	-628.18	0.36	0.20	-128.04
9,721.00	0.66	300.65	9,687.98	-628.51	-80.14	-627.84	0.87	0.37	-137.23
9,815.00	0.68	252.88	9,781.97	-628.39	-81.14	-627.72	0.58	0.02	-50.82
9,910.00	0.84	245.50	9,876.96	-628.85	-82.32	-628.17	0.20	0.17	-7.77
10,004.00	0.93	269.08	9,970.95	-629.15	-83.71	-628.45	0.40	0.10	25.09
10,099.00	1.44	281.13	10,065.93	-628.93	-85.65	-628.22	0.59	0.54	12.68
10,193.00	1.77	289.09	10,159.90	-628.23	-88.18	-627.50	0.42	0.35	8.47
10,288.00	1.22	304.18	10,254.86	-627.18	-90.40	-626.43	0.71	-0.58	15.88
10,382.00	1.06	322.43	10,348.85	-625.93	-91.76	-625.17	0.42	-0.17	19.41
10,477.00	0.57	313.82	10,443.84	-624.90	-92.64	-624.14	0.53	-0.52	-9.06
10,571.00	0.27	229.79	10,537.83	-624.72	-93.14	-623.95	0.64	-0.32	-89.39
10,666.00	0.54	249.49	10,632.83	-625.02	-93.73	-624.25	0.32	0.28	20.74
10,761.00	0.50	230.48	10,727.83	-625.44	-94.47	-624.67	0.19	-0.04	-20.01
10,855.00	0.52	247.96	10,821.82	-625.87	-95.18	-625.08	0.17	0.02	18.60
10,950.00	0.82	263.97	10,916.82	-626.10	-96.26	-625.31	0.37	0.32	16.85
11,044.00	1.26	259.25	11,010.80	-626.36	-97.94	-625.56	0.48	0.47	-5.02
11,139.00	1.42	252.65	11,105.78	-626.91	-100.09	-626.08	0.23	0.17	-6.95
11,233.00	2.44	249.75	11,199.72	-627.95	-103.08	-627.10	1.09	1.09	-3.09
11,328.00	3.14	259.41	11,294.61	-629.13	-107.54	-628.24	0.89	0.74	10.17
11,423.00	3.41	264.57	11,389.45	-629.87	-112.91	-628.94	0.42	0.28	5.43
11,554.00	4.04	275.40	11,520.18	-629.81	-121.38	-628.81	0.72	0.48	8.27
11,623.00	3.87	308.60	11,589.02	-628.12	-125.62	-627.10	3.28	-0.25	48.12
11,717.00	3.98	332.63	11,682.81	-623.25	-129.60	-622.19	1.74	0.12	25.56
11,811.00	2.65	346.58	11,776.65	-618.24	-131.60	-617.16	1.64	-1.41	14.84
11,905.00	2.07	329.67	11,870.57	-614.66	-132.97	-613.57	0.96	-0.62	-17.99
12,000.00	1.96	307.08	11,965.51	-612.20	-135.13	-611.09	0.84	-0.12	-23.78
12,022.00	1.95	301.77	11,987.50	-611.77	-135.75	-610.66	0.82	-0.05	-24.14
12,095.00	4.07	326.74	12,060.40	-608.95	-138.22	-607.82	3.35	2.90	34.21
12,190.00	15.03	342.04	12,153.95	-594.37	-143.89	-593.20	11.74	11.54	16.11
12,284.00	26.38	347.77	12,241.74	-562.26	-152.10	-561.02	12.25	12.07	6.10
12,378.00	35.45	347.88	12,322.30	-515.10	-162.27	-513.78	9.65	9.65	0.12
12,473.00	46.96	352.05	12,393.67	-453.56	-172.89	-452.16	12.45	12.12	4.39
12,567.00	54.30	358.49	12,453.30	-381.24	-178.66	-379.79	9.43	7.81	6.85
12,631.00	58.54	3.23	12,488.70	-327.97	-177.81	-326.53	9.05	6.63	7.41
12,662.00	62.97	3.98	12,503.84	-300.98	-176.10	-299.55	14.45	14.29	2.42
12,757.00	69.33	4.92	12,542.23	-214.40	-169.35	-213.03	6.76	6.69	0.99
12,851.00	73.52	4.71	12,572.17	-125.63	-161.87	-124.33	4.46	4.46	-0.22
12,946.00	78.09	4.10	12,595.46	-33.83	-154.80	-32.58	4.85	4.81	-0.64



Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ender Wiggins 14 WA Fed Com 19H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3381.60usft (Cactus 169)
Site:	Ender Wiggins 14	MD Reference:	RKB @ 3381.60usft (Cactus 169)
Well:	Ender Wiggins 14 WA Fed Com 19H	North Reference:	Grid
Wellbore:	OH / 69900	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)
13,040.00	79.99	3.01	12,613.33	58.28	-149.08	59.47	2.32	2.02	-1.16
13,135.00	83.30	3.19	12,627.14	152.12	-144.00	153.27	3.49	3.48	0.19
13,229.00	86.41	3.14	12,635.56	245.58	-138.83	246.69	3.31	3.31	-0.05
13,260.00	87.11	3.08	12,637.32	276.49	-137.15	277.58	2.27	2.26	-0.19
13,312.00	86.85	2.56	12,640.06	328.35	-134.60	329.42	1.12	-0.50	-1.00
13,407.00	88.79	0.44	12,643.67	423.24	-132.12	424.29	3.02	2.04	-2.23
13,501.00	86.82	0.18	12,647.27	517.17	-131.61	518.21	2.11	-2.10	-0.28
13,595.00	87.40	0.84	12,652.01	611.04	-130.77	612.07	0.93	0.62	0.70
13,690.00	87.88	0.13	12,655.92	705.96	-129.97	706.98	0.90	0.51	-0.75
13,784.00	87.60	1.07	12,659.63	799.88	-128.98	800.89	1.04	-0.30	1.00
13,879.00	88.22	2.20	12,663.09	894.77	-126.28	895.76	1.36	0.65	1.19
13,973.00	89.85	0.93	12,664.68	988.72	-123.71	989.68	2.20	1.73	-1.35
14,068.00	91.27	0.52	12,663.75	1,083.71	-122.51	1,084.65	1.56	1.49	-0.43
14,162.00	90.18	0.42	12,662.56	1,177.69	-121.74	1,178.63	1.16	-1.16	-0.11
14,257.00	90.12	359.91	12,662.31	1,272.69	-121.46	1,273.63	0.54	-0.06	-0.54
14,351.00	88.94	0.25	12,663.08	1,366.69	-121.33	1,367.62	1.31	-1.26	0.36
14,446.00	88.27	0.83	12,665.39	1,461.65	-120.44	1,462.57	0.93	-0.71	0.61
14,540.00	85.58	358.06	12,670.44	1,555.50	-121.34	1,556.42	4.10	-2.86	-2.95
14,635.00	86.17	359.20	12,677.27	1,650.22	-123.61	1,651.16	1.35	0.62	1.20
14,729.00	87.10	1.49	12,682.79	1,744.05	-123.04	1,744.98	2.63	0.99	2.44
14,823.00	88.02	1.48	12,686.79	1,837.93	-120.61	1,838.84	0.98	0.98	-0.01
14,918.00	87.99	0.64	12,690.10	1,932.86	-118.85	1,933.75	0.88	-0.03	-0.88
15,013.00	88.08	0.91	12,693.35	2,027.79	-117.57	2,028.67	0.30	0.09	0.28
15,107.00	88.78	0.84	12,695.93	2,121.75	-116.13	2,122.61	0.75	0.74	-0.07
15,202.00	89.24	0.71	12,697.57	2,216.72	-114.85	2,217.57	0.50	0.48	-0.14
15,296.00	89.47	0.59	12,698.63	2,310.71	-113.78	2,311.55	0.28	0.24	-0.13
15,391.00	88.33	359.76	12,700.45	2,405.69	-113.49	2,406.52	1.48	-1.20	-0.87
15,485.00	89.71	1.52	12,702.06	2,499.67	-112.44	2,500.49	2.38	1.47	1.87
15,580.00	89.16	0.29	12,703.00	2,594.65	-110.94	2,595.45	1.42	-0.58	-1.29
15,674.00	89.11	1.00	12,704.42	2,688.63	-109.88	2,689.43	0.76	-0.05	0.76
15,768.00	88.22	359.71	12,706.61	2,782.60	-109.30	2,783.39	1.67	-0.95	-1.37
15,863.00	85.91	358.43	12,711.47	2,877.45	-110.84	2,878.25	2.78	-2.43	-1.35
15,957.00	86.49	359.96	12,717.70	2,971.23	-112.16	2,972.04	1.74	0.62	1.63
16,052.00	88.71	2.57	12,721.68	3,066.11	-110.06	3,066.90	3.60	2.34	2.75
16,146.00	88.50	3.40	12,723.97	3,159.96	-105.17	3,160.70	0.91	-0.22	0.88
16,240.00	88.16	4.34	12,726.71	3,253.70	-98.82	3,254.39	1.06	-0.36	1.00
16,335.00	88.14	2.99	12,729.77	3,348.46	-92.75	3,349.09	1.42	-0.02	-1.42
16,429.00	90.01	3.39	12,731.29	3,442.29	-87.52	3,442.89	2.03	1.99	0.43
16,524.00	90.38	0.47	12,730.97	3,537.23	-84.33	3,537.79	3.10	0.39	-3.07
16,618.00	89.16	358.98	12,731.35	3,631.22	-84.78	3,631.79	2.05	-1.30	-1.59
16,713.00	88.51	357.26	12,733.28	3,726.15	-87.89	3,726.73	1.94	-0.68	-1.81
16,807.00	88.34	0.66	12,735.86	3,820.08	-89.60	3,820.68	3.62	-0.18	3.62
16,901.00	85.88	357.60	12,740.60	3,913.93	-91.02	3,914.54	4.17	-2.62	-3.26



Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ender Wiggins 14 WA Fed Com 19H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3381.60usft (Cactus 169)
Site:	Ender Wiggins 14	MD Reference:	RKB @ 3381.60usft (Cactus 169)
Well:	Ender Wiggins 14 WA Fed Com 19H	North Reference:	Grid
Wellbore:	OH / 69900	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)
16,996.00	86.73	359.03	12,746.72	4,008.69	-93.81	4,009.32	1.75	0.89	1.51
17,090.00	87.80	358.68	12,751.21	4,102.57	-95.68	4,103.20	1.20	1.14	-0.37
17,185.00	88.84	358.78	12,754.00	4,197.50	-97.79	4,198.15	1.10	1.09	0.11
17,280.00	89.41	358.10	12,755.45	4,292.45	-100.37	4,293.12	0.93	0.60	-0.72
17,374.00	89.88	359.36	12,756.03	4,386.43	-102.46	4,387.11	1.43	0.50	1.34
17,469.00	89.95	358.61	12,756.17	4,481.41	-104.14	4,482.10	0.79	0.07	-0.79
17,563.00	89.92	358.28	12,756.28	4,575.38	-106.69	4,576.08	0.35	-0.03	-0.35
17,658.00	87.53	357.44	12,758.39	4,670.28	-110.24	4,671.01	2.67	-2.52	-0.88
17,752.00	88.64	357.24	12,761.53	4,764.12	-114.60	4,764.89	1.20	1.18	-0.21
17,847.00	90.22	359.64	12,762.48	4,859.07	-117.18	4,859.86	3.02	1.66	2.53
17,941.00	90.41	358.20	12,761.96	4,953.05	-118.95	4,953.85	1.55	0.20	-1.53
18,036.00	88.58	356.40	12,762.80	5,047.94	-123.43	5,048.76	2.70	-1.93	-1.89
18,130.00	88.90	358.50	12,764.86	5,141.81	-127.61	5,142.67	2.26	0.34	2.23
18,225.00	90.73	0.15	12,765.17	5,236.80	-128.73	5,237.66	2.59	1.93	1.74
18,319.00	89.55	357.35	12,764.94	5,330.77	-130.78	5,331.64	3.23	-1.26	-2.98
18,414.00	89.30	358.63	12,765.89	5,425.70	-134.11	5,426.60	1.37	-0.26	1.35
18,508.00	88.02	357.74	12,768.09	5,519.63	-137.09	5,520.55	1.66	-1.36	-0.95
18,603.00	88.33	357.69	12,771.12	5,614.50	-140.87	5,615.45	0.33	0.33	-0.05
18,697.00	89.44	357.48	12,772.95	5,708.40	-144.83	5,709.38	1.20	1.18	-0.22
18,792.00	92.09	359.50	12,771.68	5,803.34	-147.34	5,804.34	3.51	2.79	2.13
18,886.00	90.58	358.76	12,769.49	5,897.30	-148.76	5,898.31	1.79	-1.61	-0.79
18,981.00	88.93	357.53	12,769.89	5,992.25	-151.84	5,993.27	2.17	-1.74	-1.29
19,075.00	89.53	358.68	12,771.16	6,086.19	-154.95	6,087.23	1.38	0.64	1.22
19,170.00	87.59	356.74	12,773.55	6,181.07	-158.74	6,182.15	2.89	-2.04	-2.04
19,264.00	89.55	0.08	12,775.89	6,274.99	-161.35	6,276.08	4.12	2.09	3.55
19,359.00	93.17	3.53	12,773.64	6,369.88	-158.36	6,370.95	5.26	3.81	3.63
19,454.00	91.96	2.04	12,769.39	6,464.67	-153.75	6,465.70	2.02	-1.27	-1.57
19,548.00	92.55	2.80	12,765.69	6,558.51	-149.78	6,559.51	1.02	0.63	0.81
19,643.00	91.96	4.23	12,761.95	6,653.26	-143.96	6,654.20	1.63	-0.62	1.51
19,737.00	90.50	3.72	12,759.93	6,747.01	-137.45	6,747.90	1.65	-1.55	-0.54
19,831.00	92.44	5.29	12,757.52	6,840.68	-130.07	6,841.50	2.65	2.06	1.67
19,926.00	92.35	2.42	12,753.55	6,935.37	-123.69	6,936.14	3.02	-0.09	-3.02
20,020.00	91.62	0.08	12,750.29	7,029.29	-121.64	7,030.04	2.61	-0.78	-2.49
20,115.00	91.56	0.70	12,747.66	7,124.25	-120.99	7,124.99	0.66	-0.06	0.65
20,209.00	91.44	1.42	12,745.20	7,218.20	-119.25	7,218.92	0.78	-0.13	0.77
20,304.00	91.06	0.76	12,743.12	7,313.16	-117.45	7,313.87	0.80	-0.40	-0.69
20,398.00	90.95	0.19	12,741.47	7,407.14	-116.67	7,407.84	0.62	-0.12	-0.61
20,493.00	92.21	0.67	12,738.85	7,502.10	-115.95	7,502.79	1.42	1.33	0.51
20,587.00	91.52	0.81	12,735.80	7,596.04	-114.74	7,596.72	0.75	-0.73	0.15
20,628.00	90.08	0.75	12,735.22	7,637.03	-114.18	7,637.70	3.52	-3.51	-0.15
Final Phoenix MWD Survey									
20,658.00	90.08	0.75	12,735.18	7,667.03	-113.79	7,667.70	0.00	0.00	0.00
Projection to TD									



Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ender Wiggins 14 WA Fed Com 19H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3381.60usft (Cactus 169)
Site:	Ender Wiggins 14	MD Reference:	RKB @ 3381.60usft (Cactus 169)
Well:	Ender Wiggins 14 WA Fed Com 19H	North Reference:	Grid
Wellbore:	OH / 69900	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 169)	Database:	USA Compass

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
163.00	163.00	0.08	-0.51	First Phoenix MWD Survey
20,628.00	12,735.22	7,637.03	-114.18	Final Phoenix MWD Survey
20,658.00	12,735.18	7,667.03	-113.79	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. 30-025-47020
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Ender Wiggins 14 WA Federal Com
8. Well Number 19H
9. OGRID Number 372098
10. Pool name or Wildcat Pitchfork Ranch; Wolfcamp, (South)
4. Well Location Unit Letter <u>H</u> : <u>2490</u> feet from the <u>NORTH</u> line and <u>1166</u> feet from the <u>EAST</u> line Section <u>14</u> Township <u>25S</u> Range <u>34E</u> NMPM County <u>LEA</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3358' 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.

8/11/2022 - Start frac prep operations.
 9/8/2022 - MIRU. Pressure test production casing to 12850 psi for 30 min, held, good test. Start frac stages 1-31 with 2 shots per foot for a total of 744 shots, 0.41-in. in size using 19,110,234 lbs of proppant and 19,314,918 gal of brackish water. total interval from 12,974' to 20,624'.
 10/4/2022 - Finish last stage frac. Rig down.
 10/11/2022 - Well ready to produce.
 10/15/2022 - Open well for production. Commence flowback.

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

Spud Date:

5/25/2022

Rig Release Date:

7/5/2022

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

SIGNATURE Adrian Covarrubias TITLE Regulatory Compliance Representative DATE 12/14/2022

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					
1. WELL API NO. 30-025-47020										
2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN										
3. State Oil & Gas Lease No.										
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name Ender Wiggins 14 WA Federal Com				
						6. Well Number: 19H				
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 Pitchfork Ranch; Wolfcamp (South)				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	H	14	25S	34E		2490	NORTH	1166	EAST	LEA
BH:	A	11	25S	34E		101	NORTH	1219	EAST	LEA
13. Date Spudded 5/25/2022	14. Date T.D. Reached 7/3/2022		15. Date Rig Released 7/5/2022			16. Date Completed (Ready to Produce) 10/11/2022		17. Elevations (DF and RKB, RT, GR, etc.) 3358' GL		
18. Total Measured Depth of Well 20658'			19. Plug Back Measured Depth 20644'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 12,974' - 20,624'; 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		989'		17-1/2"		Lead: 580 sacks, 1.67 yield, Class C Tail: 200 sacks, 1.33 yield, Class C		
9-5/8"		40#, P110, BTC		11528'		12-1/4"		Lead: 1865 sacks, 3.55 yield, NeoCem Tail: 450 sacks, 4.08 yield, NeoCem		
5-1/2"		23#, P110, TLW		20648'		8-3/4"		Lead: 2185 sacks, 2.13 yield, Class H Tail: 2480 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) 12,974' - 20,624'; 0.41", 744 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						12,974' - 20,624'		19,110,234 lbs proppant		
						12,974' - 20,624'		19,314,918 gal. brackish water.		
28. PRODUCTION										
Date First Production 10/15/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 10/24/2022	Hours Tested 24	Choke Size 38/64	Prod'n For Test Period	Oil - Bbl 2417	Gas - MCF 4040	Water - Bbl. 4244	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure 2495	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			Title			Date	
			Adrian Covarrubias			Adv. Regulatory Compliance Rep			4/5/2023	
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. Atoka	T. Kirtland
T. Yates		T. Fruitland	T. Penn. "B"
T. 7 Rivers		T. Miss	T. Penn. "C"
T. Queen		T. Pictured Cliffs	T. Penn. "D"
T. Grayburg		T. Devonian	T. Cliff House
T. San Andres		T. Silurian	T. Leadville
T. Glorieta		T. Montoya	T. Menefee
T. Paddock		T. Simpson	T. Point Lookout
T. Blinbry		T. McKee	T. Mancos
T. Tubb		T. Ellenburger	T. Gallup
T. Drinkard		T. Gr. Wash	Base Greenhorn
T. Abo		T. Delaware Sand	T. Dakota
T. Wolfcamp		T. Bone Springs	T. Morrison
T. Penn		T.	T. Todilto
T. Cisco (Bough C)		T.	T. Entrada
		T.	T. Wingate
		T.	T. Chinle
		T.	T. Permian

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

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

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

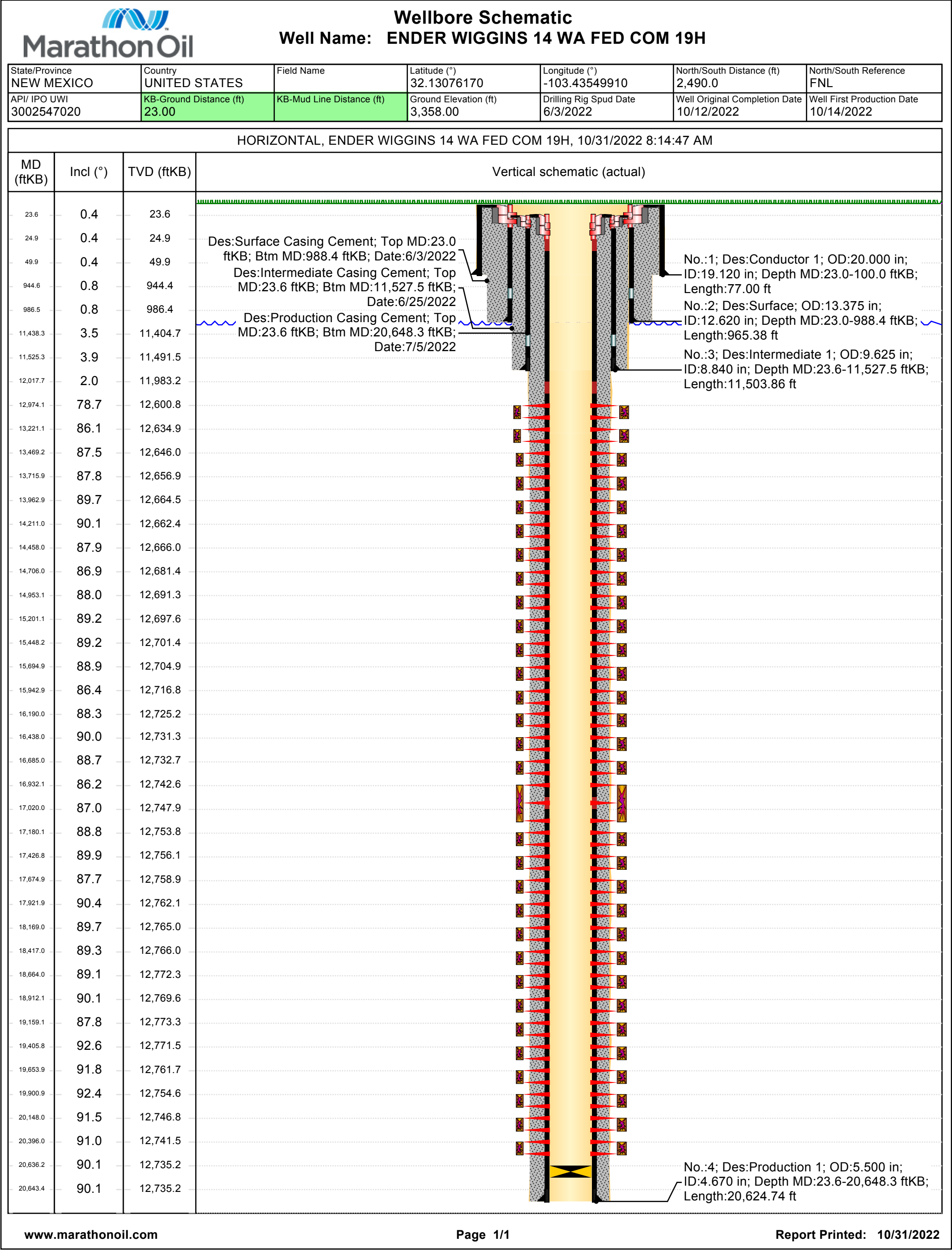
No. 4, from.....to.....

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

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

From	To	Thickness In Feet	Lithology

Geological Tops	
Ender Wiggins 14 WA Fed Com 19H	
Rustler	905
Salado	1408
Castile	3607
Base Salt	5427
Lamar	5427
Delaware Sands (Bell Canyon)	5453
Cherry Canyon	6635
Brushy Canyon	8023
Bone Spring	9346
1 Bone Spring Sand	10394
2nd Bone Spring Sand	10945
3rd Bone Spring Sand	12035
Wolfcamp	12580
Wolfcamp A	12964



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 204447

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 204447
	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 204447

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 204447
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	8/11/2023