

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 Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Marathon Oil Permian LLC 990 Town & Country Blvd. Houston, TX 77024		² OGRID Number 372098
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-45893	⁵ Pool Name PURPLE SAGE; WOLFCAMP (GAS)	⁶ Pool Code 98220
⁷ Property Code 325396	⁸ Property Name BLUE STEEL 21 WXY FEE	⁹ Well Number 6H

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
D	28	23S	29E		270	NORTH	1195	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
D	16	23S	29E		332	NORTH	1192	WEST	EDDY
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				
P	F								

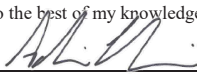
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
16587	ORYX ENERGY CO	O
327139	SENDERO MISTREAM	G

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTB	²⁵ Perforations	²⁶ DHC, MC
8/25/2019	10/10/2021	20073' / 9994'	20011' / 9993'	10,070' - 19,943'	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8", 54.5#, J55, STC	371'	490		
12 1/4"	9 5/8", 40#, J55, LTC	2980'	1120		
8 3/4"	5 1/2", 20#, P110, Roughneck	20055'	4740		

V. Well Test Data

³¹ Date New Oil 10/16/2021	³² Gas Delivery Date 10/16/2021	³³ Test Date 10/16/2021	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 1476
³⁷ Choke Size 18/64	³⁸ Oil 25	³⁹ Water 67	⁴⁰ Gas 70		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: <i>PATRICIA MARTINEZ</i>		
Title: Regulatory Professional			Title: <i>PETROLEUM SPECIALIST</i>		
E-mail Address: acovarrubias@marathonoil.com			Approval Date: <i>2/8/2022</i>		
Date: 10/19/2021	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

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-45893	² Pool Code 98220	³ Pool Name Purple Sage (Wolfcamp)
⁴ Property Code 325396	⁵ Property Name Blue Steel 21 WXY Fee	⁶ Well Number 6H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3001'

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
D	28	23S	29E		270	NORTH	1195	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

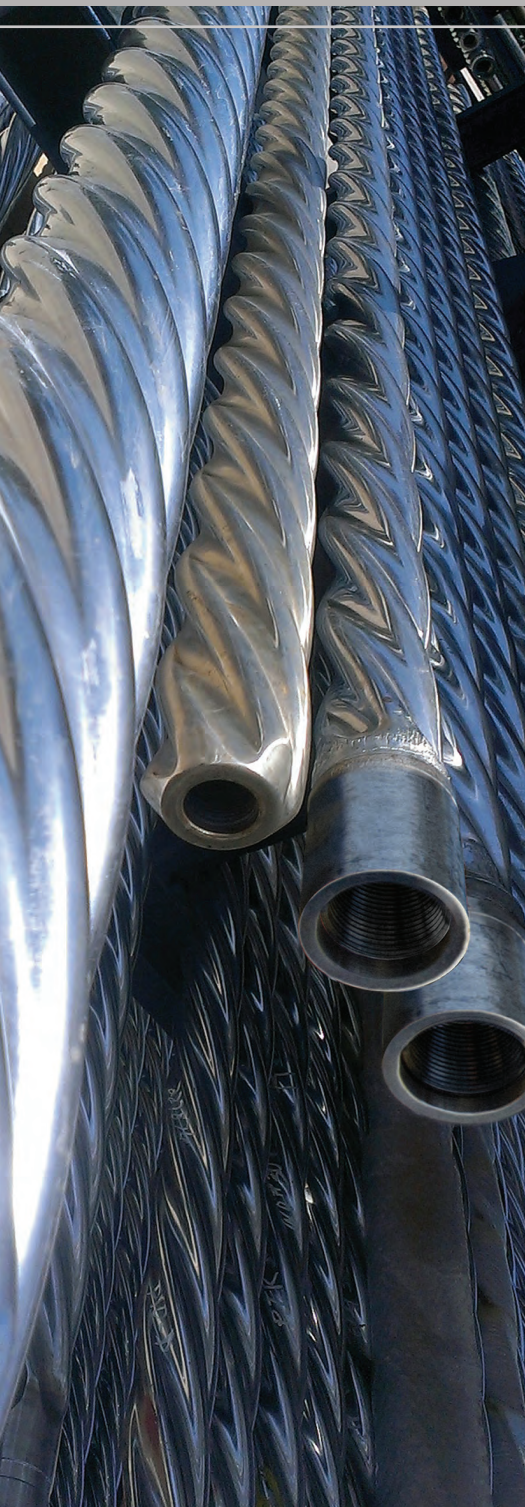
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	23S	29E		332	NORTH	1192	WEST	EDDY

¹² Dedicated Acres 640.0	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.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 644867.18' / Y: 477568.44' B - X: 647506.95' / Y: 477578.03' C - X: 647475.03' / Y: 466934.71' D - X: 644816.72' / Y: 466932.98'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 603684.20' / Y: 477508.77' B - X: 606323.97' / Y: 477518.36' C - X: 606291.75' / Y: 466875.28' D - X: 603633.45' / Y: 466873.55'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature Date 4/3/2020 Adrian Covarrubias Printed Name E-mail Address	
	LAST TAKE POINT/BOTTOM HOLE LOCATION 332' FNL 1192' FWL, SECTION 16 20073' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 646056.89' / Y: 477240.73' LAT: 32.31155243N / LON: 103.99436549W NAD 27, SPCS NM EAST X: 604873.90' / Y: 477181.06' LAT: 32.31140357N / LON: 103.99387311W			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-stakes surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-squared Global. MARCH 5, 2020 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number LLOYD P. SHORT 21653
	FIRST TAKE POINT 330' FSL 1010' FWL, SECTION 16 10060' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 645827.45' / Y: 467263.63' LAT: 32.28412913N / LON: 103.99521001W NAD 27, SPCS NM EAST X: 604644.17' / Y: 467204.20' LAT: 32.28400703N / LON: 103.99471867W			
	KICK OFF POINT 64' FSL 1004' FWL, SECTION 16 9476' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 645820.74' / Y: 466997.70' LAT: 32.28339817N / LON: 103.99523442W NAD 27, SPCS NM EAST X: 604637.46' / Y: 466938.27' LAT: 32.28327606N / LON: 103.99474310W			
SURFACE HOLE LOCATION 270' FNL 1195' FWL, SECTION 28 NAD 83, SPCS NM EAST X: 646013.73' / Y: 466663.67' LAT: 32.28247830N / LON: 103.99461334W NAD 27, SPCS NM EAST X: 604830.44' / Y: 466604.25' LAT: 32.28235618N / LON: 103.99412208W				

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99992163 Convergence Angle: 0.18084607°



Marathon Oil Corporation

Blue Steel 21 WXY Fee No. 6H
Eddy County, NM

December 23, 2019

Job# LNM1525619
API# 30-015-45893

Survey Completion Report



Survey Certification Letter

December 23, 2019



Operator Name: Marathon Oil
Well Name: Blue Steel 21 WXY Fee No. 6H
County/Parish: Eddy County,
State: NM
Rig Name: Precision 582
Job Number: LNM1525619

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	411' MD – 20,010' MD	20,073' MD	10/02/19 – 12/03/19	MWD

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266
prodirectional.com



Marathon Oil

**Eddy County, NM
Blue Steel 21 WXY Fee
No. 6H
OH**

Survey: ProDirectional

Survey Report

23 December, 2019





ProDirectional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well No. 6H
Project:	Eddy County, NM(NAD 83)	TVD Reference:	Well @ 3028.00usft
Site:	Blue Steel 21 WXY Fee	MD Reference:	Well @ 3028.00usft
Well:	No. 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-184'-20010', PTB: 20073'	Database:	WellPlanner1

Project	Eddy County, NM(NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Blue Steel 21 WXY Fee		
Site Position:		Northing:	466,663.81 usft
From:	Map	Easting:	646,073.65 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.2824782
		Longitude:	-103.9944195
		Grid Convergence:	0.18 °

Well		No. 6H, LNM1525619				
Well Position	+N-S	0.00 usft	Northing:	466,663.67 usft	Latitude:	32.2824783
	+E-W	0.00 usft	Easting:	646,013.73 usft	Longitude:	-103.9946133
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,001.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/1/2019	7.02	60.02	47,900.60

Design	MWD-184'-20010', PTB: 20073'			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.22



ProDirectional Survey Report



Company: Marathon Oil
Project: Eddy County, NM(NAD 83)
Site: Blue Steel 21 WXY Fee
Well: No. 6H
Wellbore: OH
Design: MWD-184'-20010', PTB: 20073'

Local Co-ordinate Reference: Well No. 6H
TVD Reference: Well @ 3028.00usft
MD Reference: Well @ 3028.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Program **Date** 12/23/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
184.00	375.00	Survey #1 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro
411.00	20,073.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HRGM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	466,663.67	646,013.73
184.00	0.70	276.80	184.00	0.13	0.13	-1.12	1.12	276.80	466,663.80	646,012.61
277.00	0.80	282.80	276.99	0.34	0.34	-2.31	2.34	278.46	466,664.01	646,011.42
375.00	0.80	266.80	374.98	0.44	0.46	-3.66	3.69	277.12	466,664.13	646,010.07
411.00	0.90	289.50	410.97	0.52	0.54	-4.18	4.22	277.33	466,664.21	646,009.55
Pro MWD First Survey: 411' MD										
502.00	0.80	272.60	501.96	0.78	0.81	-5.49	5.55	278.35	466,664.48	646,008.24
592.00	0.80	304.80	591.96	1.17	1.19	-6.63	6.74	280.19	466,664.86	646,007.10
685.00	1.80	344.70	684.93	2.94	2.97	-7.55	8.12	291.48	466,666.64	646,006.18
778.00	2.20	343.50	777.88	6.06	6.09	-8.44	10.41	305.81	466,669.76	646,005.29
871.00	1.90	343.80	870.82	9.25	9.28	-9.38	13.20	314.70	466,672.95	646,004.35
965.00	1.90	321.00	964.77	11.95	11.99	-10.80	16.14	318.00	466,675.66	646,002.93
1,058.00	1.90	316.00	1,057.71	14.25	14.30	-12.84	19.22	318.08	466,677.97	646,000.89
1,148.00	1.50	311.30	1,147.67	16.09	16.15	-14.76	21.88	317.58	466,679.82	645,998.97
1,238.00	1.00	318.90	1,237.65	17.46	17.52	-16.16	23.83	317.31	466,681.19	645,997.57
1,327.00	1.30	319.60	1,326.64	18.81	18.87	-17.33	25.62	317.45	466,682.54	645,996.40
1,417.00	1.10	306.40	1,416.62	20.09	20.16	-18.68	27.49	317.18	466,683.83	645,995.05
1,506.00	1.30	312.00	1,505.60	21.27	21.35	-20.12	29.33	316.69	466,685.02	645,993.61
1,596.00	2.50	318.00	1,595.54	23.40	23.49	-22.19	32.31	316.62	466,687.16	645,991.54
1,685.00	4.60	324.20	1,684.37	27.73	27.83	-25.58	37.80	317.41	466,691.50	645,988.15
1,775.00	7.40	326.90	1,773.87	35.49	35.61	-30.86	47.12	319.09	466,699.28	645,982.87



ProDirectional Survey Report



Company: Marathon Oil
Project: Eddy County, NM(NAD 83)
Site: Blue Steel 21 WXY Fee
Well: No. 6H
Wellbore: OH
Design: MWD-184'-20010', PTB: 20073'

Local Co-ordinate Reference: Well No. 6H
TVD Reference: Well @ 3028.00usft
MD Reference: Well @ 3028.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
1,864.00	8.70	325.60	1,861.99	45.82	45.96	-37.79	59.50	320.58	466,709.63	645,975.94	
1,954.00	8.70	325.80	1,950.95	57.04	57.21	-45.46	73.07	321.53	466,720.88	645,968.27	
2,044.00	10.20	327.30	2,039.73	69.34	69.55	-53.59	87.80	322.38	466,733.22	645,960.14	
2,133.00	9.30	329.20	2,127.44	82.12	82.36	-61.53	102.80	323.23	466,746.03	645,952.20	
2,223.00	8.40	331.70	2,216.37	94.13	94.39	-68.37	116.55	324.08	466,758.06	645,945.36	
2,312.00	8.20	337.00	2,304.44	105.67	105.96	-73.93	129.20	325.09	466,769.63	645,939.80	
2,402.00	8.90	336.30	2,393.44	117.93	118.24	-79.24	142.34	326.17	466,781.91	645,934.49	
2,492.00	9.90	336.20	2,482.23	131.37	131.69	-85.16	156.83	327.11	466,795.36	645,928.57	
2,581.00	8.60	335.90	2,570.07	144.42	144.77	-90.97	170.98	327.86	466,808.44	645,922.76	
2,671.00	9.20	333.90	2,658.99	157.00	157.37	-96.88	184.80	328.38	466,821.04	645,916.85	
2,761.00	8.80	335.00	2,747.88	169.68	170.07	-102.95	198.81	328.81	466,833.74	645,910.78	
2,850.00	7.50	332.80	2,835.98	180.99	181.41	-108.49	211.37	329.12	466,845.08	645,905.24	
2,911.00	7.20	332.30	2,896.48	187.90	188.34	-112.08	219.16	329.24	466,852.01	645,901.65	
3,024.00	6.80	331.70	3,008.63	200.04	200.50	-118.55	232.92	329.41	466,864.17	645,895.18	
3,113.00	6.90	331.20	3,097.00	209.34	209.82	-123.62	243.53	329.49	466,873.49	645,890.11	
3,203.00	7.30	330.00	3,186.31	219.01	219.51	-129.08	254.65	329.54	466,883.18	645,884.65	
3,292.00	7.30	331.30	3,274.59	228.85	229.37	-134.63	265.96	329.59	466,893.04	645,879.10	
3,382.00	7.50	329.80	3,363.84	238.92	239.46	-140.33	277.54	329.63	466,903.13	645,873.40	
3,471.00	8.60	329.50	3,451.96	249.65	250.21	-146.63	290.01	329.63	466,913.88	645,867.10	
3,561.00	9.90	330.80	3,540.79	262.17	262.76	-153.82	304.47	329.66	466,926.43	645,859.91	
3,650.00	10.10	328.30	3,628.44	275.46	276.08	-161.65	319.92	329.65	466,939.75	645,852.08	
3,740.00	10.50	327.30	3,716.99	289.04	289.70	-170.23	336.01	329.56	466,953.37	645,843.50	
3,830.00	10.40	330.10	3,805.49	302.95	303.64	-178.71	352.32	329.52	466,967.31	645,835.02	
3,919.00	9.50	331.60	3,893.15	316.35	317.06	-186.20	367.70	329.58	466,980.73	645,827.53	
4,009.00	8.60	330.10	3,982.03	328.69	329.43	-193.09	381.85	329.62	466,993.10	645,820.64	
4,098.00	8.60	330.10	4,070.03	340.20	340.97	-199.72	395.16	329.64	467,004.64	645,814.01	
4,187.00	5.00	339.50	4,158.39	349.59	350.37	-204.40	405.64	329.74	467,014.04	645,809.33	



ProDirectional Survey Report



Company: Marathon Oil
Project: Eddy County, NM(NAD 83)
Site: Blue Steel 21 WXY Fee
Well: No. 6H
Wellbore: OH
Design: MWD-184'-20010', PTB: 20073'

Local Co-ordinate Reference: Well No. 6H
TVD Reference: Well @ 3028.00usft
MD Reference: Well @ 3028.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
4,277.00	3.70	349.90	4,248.13	356.11	356.91	-206.28	412.23	329.97	467,020.58	645,807.45	
4,367.00	1.90	340.40	4,338.02	360.37	361.17	-207.29	416.43	330.15	467,024.84	645,806.44	
4,456.00	1.20	312.10	4,426.99	362.38	363.19	-208.48	418.77	330.14	467,026.86	645,805.25	
4,546.00	0.20	89.50	4,516.99	363.01	363.82	-209.02	419.59	330.12	467,027.49	645,804.71	
4,636.00	1.00	133.80	4,606.98	362.47	363.28	-208.30	418.76	330.17	467,026.95	645,805.43	
4,726.00	0.80	120.10	4,696.97	361.62	362.42	-207.19	417.46	330.24	467,026.09	645,806.54	
4,815.00	1.20	132.40	4,785.96	360.68	361.48	-205.96	416.04	330.33	467,025.15	645,807.77	
4,905.00	1.90	156.30	4,875.92	358.69	359.48	-204.67	413.66	330.35	467,023.15	645,809.06	
4,994.00	1.70	157.00	4,964.88	356.13	356.91	-203.56	410.88	330.30	467,020.58	645,810.17	
5,084.00	1.80	149.60	5,054.84	353.68	354.46	-202.32	408.14	330.28	467,018.13	645,811.41	
5,173.00	2.30	151.20	5,143.78	350.92	351.69	-200.75	404.96	330.28	467,015.36	645,812.98	
5,263.00	2.20	153.60	5,233.71	347.79	348.56	-199.12	401.43	330.26	467,012.23	645,814.61	
5,353.00	2.00	162.90	5,323.65	344.75	345.51	-197.89	398.17	330.20	467,009.18	645,815.84	
5,442.00	1.60	159.80	5,412.61	342.10	342.86	-197.00	395.43	330.12	467,006.53	645,816.73	
5,532.00	1.70	156.40	5,502.57	339.71	340.46	-196.03	392.86	330.07	467,004.13	645,817.70	
5,621.00	1.40	168.60	5,591.54	337.43	338.19	-195.29	390.52	330.00	467,001.86	645,818.44	
5,711.00	1.50	178.30	5,681.51	335.18	335.93	-195.04	388.44	329.86	466,999.60	645,818.69	
5,801.00	1.30	175.00	5,771.48	332.98	333.74	-194.91	386.48	329.71	466,997.41	645,818.82	
5,891.00	1.60	186.30	5,861.45	330.72	331.47	-194.96	384.55	329.54	466,995.14	645,818.77	
5,981.00	0.90	199.10	5,951.43	328.80	329.55	-195.33	383.09	329.34	466,993.22	645,818.40	
6,070.00	0.90	231.20	6,040.42	327.70	328.45	-196.10	382.54	329.16	466,992.12	645,817.63	
6,159.00	0.60	325.30	6,129.41	327.64	328.40	-196.91	382.91	329.05	466,992.07	645,816.82	
6,249.00	1.00	335.20	6,219.41	328.74	329.50	-197.51	384.16	329.06	466,993.17	645,816.22	
6,338.00	1.00	335.50	6,308.39	330.15	330.91	-198.16	385.71	329.09	466,994.58	645,815.57	
6,428.00	0.80	335.50	6,398.38	331.43	332.20	-198.75	387.11	329.11	466,995.87	645,814.98	
6,518.00	0.90	357.50	6,488.37	332.71	333.48	-199.04	388.36	329.17	466,997.15	645,814.69	
6,608.00	0.70	357.80	6,578.36	333.96	334.73	-199.09	389.46	329.26	466,998.40	645,814.64	



ProDirectional Survey Report



Company: Marathon Oil
Project: Eddy County, NM(NAD 83)
Site: Blue Steel 21 WXY Fee
Well: No. 6H
Wellbore: OH
Design: MWD-184'-20010', PTB: 20073'

Local Co-ordinate Reference: Well No. 6H
TVD Reference: Well @ 3028.00usft
MD Reference: Well @ 3028.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
6,698.00	0.50	341.70	6,668.36	334.89	335.65	-199.23	390.33	329.31	466,999.32	645,814.50	
6,787.00	1.00	329.30	6,757.35	335.92	336.69	-199.75	391.49	329.32	467,000.36	645,813.98	
6,877.00	1.10	324.40	6,847.33	337.29	338.07	-200.66	393.13	329.31	467,001.74	645,813.07	
6,967.00	0.90	356.00	6,937.32	338.70	339.48	-201.21	394.62	329.34	467,003.15	645,812.52	
7,056.00	1.50	351.20	7,026.30	340.55	341.32	-201.43	396.33	329.45	467,004.99	645,812.30	
7,146.00	1.10	3.10	7,116.28	342.57	343.35	-201.57	398.14	329.58	467,007.02	645,812.16	
7,235.00	1.60	8.90	7,205.25	344.66	345.43	-201.33	399.82	329.76	467,009.10	645,812.40	
7,325.00	1.00	357.90	7,295.23	346.68	347.46	-201.16	401.49	329.93	467,011.13	645,812.57	
7,414.00	1.00	340.70	7,384.22	348.19	348.97	-201.45	402.94	330.00	467,012.64	645,812.28	
7,503.00	1.00	350.20	7,473.20	349.69	350.46	-201.84	404.43	330.06	467,014.13	645,811.89	
7,594.00	1.00	334.40	7,564.19	351.18	351.96	-202.32	405.97	330.11	467,015.63	645,811.41	
7,684.00	0.80	289.90	7,654.18	352.10	352.89	-203.25	407.23	330.06	467,016.56	645,810.48	
7,773.00	0.70	311.60	7,743.17	352.67	353.46	-204.24	408.22	329.98	467,017.13	645,809.49	
7,862.00	0.90	302.10	7,832.16	353.40	354.19	-205.24	409.36	329.91	467,017.86	645,808.49	
7,952.00	0.70	192.60	7,922.16	353.24	354.03	-205.95	409.58	329.81	467,017.70	645,807.78	
8,042.00	1.60	167.10	8,012.14	351.48	352.27	-205.79	407.98	329.71	467,015.94	645,807.94	
8,131.00	1.00	155.60	8,101.12	349.56	350.35	-205.20	406.02	329.64	467,014.02	645,808.53	
8,221.00	1.20	153.80	8,191.10	348.00	348.79	-204.46	404.30	329.62	467,012.46	645,809.27	
8,310.00	1.10	153.70	8,280.08	346.40	347.19	-203.67	402.51	329.60	467,010.86	645,810.06	
8,400.00	1.00	147.50	8,370.07	344.97	345.75	-202.86	400.87	329.60	467,009.42	645,810.87	
8,489.00	1.50	158.40	8,459.05	343.23	344.01	-202.01	398.94	329.58	467,007.68	645,811.72	
8,579.00	1.60	159.10	8,549.01	340.97	341.74	-201.13	396.54	329.52	467,005.41	645,812.60	
8,669.00	1.00	163.00	8,638.99	339.05	339.82	-200.45	394.54	329.46	467,003.49	645,813.28	
8,759.00	1.50	158.60	8,728.97	337.20	337.97	-199.80	392.61	329.41	467,001.64	645,813.93	
8,848.00	1.60	179.30	8,817.94	334.88	335.64	-199.36	390.38	329.29	466,999.31	645,814.37	
8,938.00	0.60	271.80	8,907.92	333.63	334.40	-199.81	389.55	329.14	466,998.07	645,813.92	
9,028.00	0.70	22.40	8,997.92	334.15	334.92	-200.07	390.13	329.15	466,998.59	645,813.66	



ProDirectional Survey Report



Company: Marathon Oil
Project: Eddy County, NM(NAD 83)
Site: Blue Steel 21 WXY Fee
Well: No. 6H
Wellbore: OH
Design: MWD-184'-20010', PTB: 20073'

Local Co-ordinate Reference: Well No. 6H
TVD Reference: Well @ 3028.00usft
MD Reference: Well @ 3028.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
9,117.00	1.10	72.20	9,086.91	334.92	335.69	-199.05	390.27	329.33	466,999.36	645,814.68	
9,207.00	1.20	90.60	9,176.89	335.18	335.94	-197.29	389.59	329.58	466,999.61	645,816.44	
9,296.00	1.00	114.70	9,265.88	334.85	335.61	-195.65	388.47	329.76	466,999.28	645,818.08	
9,385.00	1.00	115.40	9,354.86	334.20	334.95	-194.24	387.20	329.89	466,998.62	645,819.49	
9,476.00	1.00	137.40	9,445.85	333.28	334.03	-192.99	385.77	329.98	466,997.70	645,820.74	
9,565.00	8.30	13.40	9,534.55	338.98	339.71	-190.97	389.71	330.66	467,003.38	645,822.76	
9,654.00	16.00	3.80	9,621.50	357.50	358.23	-188.66	404.88	332.23	467,021.90	645,825.07	
9,745.00	27.40	357.00	9,705.93	391.04	391.77	-188.93	434.95	334.25	467,055.44	645,824.80	
9,835.00	35.80	358.30	9,782.52	438.11	438.85	-190.80	478.53	336.50	467,102.52	645,822.93	
9,924.00	43.20	359.90	9,851.14	494.67	495.41	-191.62	531.18	338.85	467,159.08	645,822.11	
10,014.00	51.10	5.00	9,912.32	560.50	561.23	-188.62	592.08	341.42	467,224.90	645,825.11	
10,104.00	63.30	2.10	9,960.99	635.88	636.59	-184.08	662.67	343.87	467,300.26	645,829.65	
10,193.00	76.10	358.20	9,991.82	719.16	719.87	-183.98	743.00	345.66	467,383.54	645,829.75	
10,229.00	81.60	356.60	9,998.78	754.42	755.14	-185.58	777.61	346.19	467,418.81	645,828.15	
10,280.00	89.00	357.60	10,002.95	805.14	805.86	-188.15	827.54	346.86	467,469.53	645,825.58	
10,374.00	90.80	357.80	10,003.12	899.04	899.78	-191.92	920.02	347.96	467,563.45	645,821.81	
10,466.00	91.30	357.50	10,001.43	990.93	991.69	-195.69	1,010.82	348.84	467,655.36	645,818.04	
10,560.00	91.70	357.80	9,998.97	1,084.81	1,085.58	-199.55	1,103.77	349.58	467,749.25	645,814.18	
10,653.00	91.40	359.20	9,996.45	1,177.73	1,178.51	-201.98	1,195.69	350.27	467,842.18	645,811.75	
10,742.00	91.00	359.80	9,994.59	1,266.70	1,267.49	-202.76	1,283.60	350.91	467,931.16	645,810.97	
10,832.00	89.30	0.30	9,994.35	1,356.70	1,357.48	-202.68	1,372.53	351.51	468,021.15	645,811.05	
10,921.00	88.30	359.60	9,996.22	1,445.67	1,446.46	-202.76	1,460.60	352.02	468,110.13	645,810.97	
11,011.00	89.40	359.80	9,998.02	1,535.65	1,536.44	-203.23	1,549.82	352.47	468,200.11	645,810.50	
11,100.00	90.80	0.10	9,997.87	1,624.65	1,625.44	-203.30	1,638.10	352.87	468,289.11	645,810.43	
11,190.00	90.60	0.90	9,996.77	1,714.64	1,715.43	-202.52	1,727.34	353.27	468,379.10	645,811.21	
11,279.00	92.80	3.10	9,994.13	1,803.55	1,804.32	-199.42	1,815.31	353.69	468,467.99	645,814.31	
11,369.00	91.40	2.80	9,990.83	1,893.38	1,894.14	-194.79	1,904.13	354.13	468,557.81	645,818.94	



ProDirectional Survey Report



Company: Marathon Oil
Project: Eddy County, NM(NAD 83)
Site: Blue Steel 21 WXY Fee
Well: No. 6H
Wellbore: OH
Design: MWD-184'-20010', PTB: 20073'

Local Co-ordinate Reference: Well No. 6H
TVD Reference: Well @ 3028.00usft
MD Reference: Well @ 3028.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
11,459.00	89.50	359.50	9,990.12	1,983.35	1,984.10	-192.98	1,993.47	354.44	468,647.77	645,820.75	
11,548.00	89.30	359.40	9,991.06	2,072.34	2,073.10	-193.84	2,082.14	354.66	468,736.77	645,819.89	
11,638.00	90.60	359.90	9,991.14	2,162.33	2,163.09	-194.39	2,171.81	354.86	468,826.76	645,819.34	
11,728.00	91.10	0.70	9,989.80	2,252.32	2,253.08	-193.91	2,261.41	355.08	468,916.75	645,819.82	
11,817.00	90.10	0.80	9,988.87	2,341.31	2,342.07	-192.75	2,349.98	355.30	469,005.74	645,820.98	
11,906.00	90.50	0.80	9,988.40	2,430.30	2,431.06	-191.51	2,438.59	355.50	469,094.73	645,822.22	
11,995.00	90.90	0.60	9,987.31	2,519.29	2,520.04	-190.42	2,527.23	355.68	469,183.71	645,823.31	
12,085.00	89.50	1.50	9,987.00	2,609.28	2,610.02	-188.77	2,616.84	355.86	469,273.69	645,824.96	
12,175.00	90.00	1.20	9,987.39	2,699.26	2,700.00	-186.65	2,706.44	356.05	469,363.67	645,827.08	
12,264.00	90.60	1.50	9,986.93	2,788.24	2,788.97	-184.55	2,795.07	356.21	469,452.64	645,829.18	
12,354.00	88.80	1.60	9,987.40	2,878.21	2,878.93	-182.12	2,884.69	356.38	469,542.60	645,831.61	
12,443.00	88.60	1.40	9,989.42	2,967.17	2,967.88	-179.79	2,973.32	356.53	469,631.55	645,833.94	
12,533.00	89.40	1.70	9,990.99	3,057.13	3,057.83	-177.36	3,062.97	356.68	469,721.50	645,836.37	
12,623.00	90.10	1.40	9,991.38	3,147.10	3,147.80	-174.92	3,152.65	356.82	469,811.47	645,838.81	
12,713.00	89.60	0.30	9,991.62	3,237.10	3,237.79	-173.59	3,242.44	356.93	469,901.46	645,840.14	
12,802.00	90.60	0.10	9,991.46	3,326.09	3,326.78	-173.28	3,331.29	357.02	469,990.45	645,840.45	
12,892.00	91.80	0.60	9,989.58	3,416.07	3,416.76	-172.73	3,421.12	357.11	470,080.43	645,841.00	
12,981.00	91.50	1.30	9,987.01	3,505.03	3,505.71	-171.25	3,509.89	357.20	470,169.38	645,842.48	
13,071.00	91.20	0.60	9,984.89	3,594.99	3,595.67	-169.76	3,599.68	357.30	470,259.34	645,843.97	
13,161.00	89.40	359.60	9,984.42	3,684.99	3,685.67	-169.60	3,689.57	357.37	470,349.34	645,844.13	
13,250.00	88.60	358.90	9,985.98	3,773.96	3,774.64	-170.77	3,778.50	357.41	470,438.31	645,842.96	
13,340.00	88.70	358.40	9,988.10	3,863.90	3,864.59	-172.89	3,868.46	357.44	470,528.26	645,840.84	
13,430.00	88.20	357.80	9,990.53	3,953.81	3,954.51	-175.87	3,958.42	357.45	470,618.18	645,837.86	
13,519.00	90.00	358.20	9,991.93	4,042.72	4,043.44	-178.98	4,047.40	357.47	470,707.11	645,834.75	
13,609.00	89.50	359.70	9,992.32	4,132.70	4,133.42	-180.62	4,137.37	357.50	470,797.09	645,833.11	
13,698.00	90.30	359.90	9,992.48	4,221.70	4,222.42	-180.94	4,226.30	357.55	470,886.09	645,832.79	
13,788.00	89.70	359.70	9,992.48	4,311.69	4,312.42	-181.25	4,316.23	357.59	470,976.09	645,832.48	



ProDirectional Survey Report



Company: Marathon Oil
Project: Eddy County, NM(NAD 83)
Site: Blue Steel 21 WXY Fee
Well: No. 6H
Wellbore: OH
Design: MWD-184'-20010', PTB: 20073'

Local Co-ordinate Reference: Well No. 6H
TVD Reference: Well @ 3028.00usft
MD Reference: Well @ 3028.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
13,877.00	88.70	359.30	9,993.72	4,400.68	4,401.41	-182.03	4,405.17	357.63	471,065.08	645,831.70	
13,989.00	88.60	358.90	9,996.36	4,512.62	4,513.36	-183.78	4,517.10	357.67	471,177.03	645,829.95	
14,079.00	90.00	359.50	9,997.46	4,602.60	4,603.34	-185.04	4,607.06	357.70	471,267.01	645,828.69	
14,168.00	90.50	359.00	9,997.07	4,691.59	4,692.33	-186.21	4,696.03	357.73	471,356.00	645,827.52	
14,258.00	90.30	358.80	9,996.44	4,781.56	4,782.32	-187.93	4,786.01	357.75	471,445.99	645,825.80	
14,347.00	90.20	358.00	9,996.05	4,870.51	4,871.28	-190.42	4,875.00	357.76	471,534.95	645,823.31	
14,437.00	89.10	359.00	9,996.60	4,960.47	4,961.24	-192.77	4,964.99	357.77	471,624.91	645,820.96	
14,527.00	90.40	359.70	9,996.99	5,050.45	5,051.24	-193.80	5,054.95	357.80	471,714.91	645,819.93	
14,617.00	90.70	358.80	9,996.13	5,140.44	5,141.22	-194.97	5,144.92	357.83	471,804.89	645,818.76	
14,707.00	91.70	0.40	9,994.25	5,230.41	5,231.20	-195.60	5,234.85	357.86	471,894.87	645,818.13	
14,797.00	90.60	0.20	9,992.44	5,320.39	5,321.18	-195.13	5,324.75	357.90	471,984.85	645,818.60	
14,887.00	90.60	0.70	9,991.50	5,410.38	5,411.17	-194.42	5,414.66	357.94	472,074.84	645,819.31	
14,976.00	89.90	1.40	9,991.11	5,499.37	5,500.15	-192.79	5,503.53	357.99	472,163.82	645,820.94	
15,066.00	90.30	1.30	9,990.95	5,589.35	5,590.13	-190.67	5,593.38	358.05	472,253.80	645,823.06	
15,155.00	88.40	1.00	9,991.96	5,678.33	5,679.10	-188.89	5,682.24	358.10	472,342.77	645,824.84	
15,246.00	88.70	0.30	9,994.26	5,769.30	5,770.06	-187.85	5,773.12	358.14	472,433.73	645,825.88	
15,335.00	89.50	359.70	9,995.66	5,858.29	5,859.05	-187.85	5,862.06	358.16	472,522.72	645,825.88	
15,425.00	90.80	359.60	9,995.43	5,948.28	5,949.05	-188.40	5,952.03	358.19	472,612.72	645,825.33	
15,514.00	89.20	359.70	9,995.43	6,037.27	6,038.04	-188.95	6,041.00	358.21	472,701.71	645,824.78	
15,604.00	88.40	359.70	9,997.31	6,127.25	6,128.02	-189.42	6,130.95	358.23	472,791.69	645,824.31	
15,694.00	88.80	0.50	9,999.51	6,217.22	6,217.99	-189.26	6,220.87	358.26	472,881.66	645,824.47	
15,784.00	90.70	1.40	9,999.90	6,307.21	6,307.97	-187.77	6,310.77	358.29	472,971.64	645,825.96	
15,873.00	91.60	0.60	9,998.12	6,396.18	6,396.94	-186.22	6,399.65	358.33	473,060.61	645,827.51	
15,962.00	90.70	1.00	9,996.33	6,485.15	6,485.91	-184.97	6,488.55	358.37	473,149.58	645,828.76	
16,052.00	90.00	0.90	9,995.78	6,575.15	6,575.90	-183.48	6,578.46	358.40	473,239.57	645,830.25	
16,142.00	90.60	0.70	9,995.31	6,665.14	6,665.89	-182.23	6,668.38	358.43	473,329.56	645,831.50	
16,231.00	91.70	0.90	9,993.52	6,754.11	6,754.86	-180.98	6,757.28	358.47	473,418.53	645,832.75	



ProDirectional Survey Report



Company: Marathon Oil
Project: Eddy County, NM(NAD 83)
Site: Blue Steel 21 WXY Fee
Well: No. 6H
Wellbore: OH
Design: MWD-184'-20010', PTB: 20073'

Local Co-ordinate Reference: Well No. 6H
TVD Reference: Well @ 3028.00usft
MD Reference: Well @ 3028.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
16,321.00	90.50	1.40	9,991.80	6,844.08	6,844.82	-179.18	6,847.17	358.50	473,508.49	645,834.55	
16,410.00	89.10	1.60	9,992.11	6,933.06	6,933.79	-176.85	6,936.04	358.54	473,597.46	645,836.88	
16,500.00	90.10	2.00	9,992.73	7,023.02	7,023.74	-174.02	7,025.90	358.58	473,687.41	645,839.71	
16,589.00	90.20	1.40	9,992.50	7,111.99	7,112.70	-171.38	7,114.77	358.62	473,776.37	645,842.35	
16,679.00	90.80	0.60	9,991.72	7,201.98	7,202.68	-169.81	7,204.68	358.65	473,866.35	645,843.92	
16,769.00	89.60	0.20	9,991.40	7,291.98	7,292.68	-169.18	7,294.64	358.67	473,956.35	645,844.55	
16,859.00	90.60	359.80	9,991.24	7,381.97	7,382.68	-169.18	7,384.62	358.69	474,046.35	645,844.55	
16,948.00	89.40	0.30	9,991.24	7,470.97	7,471.68	-169.10	7,473.59	358.70	474,135.35	645,844.63	
17,038.00	88.10	359.70	9,993.21	7,560.95	7,561.65	-169.10	7,563.54	358.72	474,225.32	645,844.63	
17,128.00	89.40	359.50	9,995.17	7,650.92	7,651.63	-169.73	7,653.51	358.73	474,315.30	645,844.00	
17,217.00	89.20	359.50	9,996.26	7,739.90	7,740.62	-170.51	7,742.49	358.74	474,404.29	645,843.22	
17,306.00	89.30	358.90	9,997.42	7,828.88	7,829.60	-171.75	7,831.48	358.74	474,493.27	645,841.98	
17,396.00	90.20	359.50	9,997.82	7,918.87	7,919.59	-173.01	7,921.48	358.75	474,583.26	645,840.72	
17,486.00	90.60	358.60	9,997.19	8,008.84	8,009.57	-174.50	8,011.47	358.75	474,673.24	645,839.23	
17,575.00	90.40	359.50	9,996.41	8,097.82	8,098.56	-175.98	8,100.47	358.76	474,762.23	645,837.75	
17,665.00	89.70	0.30	9,996.33	8,187.82	8,188.55	-176.13	8,190.45	358.77	474,852.22	645,837.60	
17,755.00	88.90	359.90	9,997.43	8,277.81	8,278.55	-175.98	8,280.42	358.78	474,942.22	645,837.75	
17,844.00	88.00	358.20	9,999.84	8,366.75	8,367.50	-177.45	8,369.38	358.79	475,031.17	645,836.28	
17,933.00	90.50	358.80	10,001.00	8,455.70	8,456.45	-179.78	8,458.36	358.78	475,120.12	645,833.95	
18,023.00	90.50	1.60	10,000.22	8,545.69	8,546.44	-179.47	8,548.32	358.80	475,210.11	645,834.26	
18,112.00	89.30	4.40	10,000.37	8,634.57	8,635.31	-174.81	8,637.08	358.84	475,298.98	645,838.92	
18,202.00	89.40	5.30	10,001.40	8,724.27	8,724.98	-167.20	8,726.58	358.90	475,388.65	645,846.53	
18,291.00	93.00	8.40	9,999.53	8,812.63	8,813.30	-156.59	8,814.69	358.98	475,476.97	645,857.14	
18,381.00	91.80	9.50	9,995.76	8,901.51	8,902.12	-142.60	8,903.26	359.08	475,565.79	645,871.13	
18,470.00	88.20	8.40	9,995.76	8,989.46	8,990.02	-128.76	8,990.94	359.18	475,653.69	645,884.97	
18,560.00	87.50	8.70	9,999.14	9,078.45	9,078.96	-115.39	9,079.69	359.27	475,742.63	645,898.34	
18,649.00	88.50	10.60	10,002.25	9,166.19	9,166.64	-100.48	9,167.19	359.37	475,830.31	645,913.25	



ProDirectional Survey Report



Company: Marathon Oil
Project: Eddy County, NM(NAD 83)
Site: Blue Steel 21 WXY Fee
Well: No. 6H
Wellbore: OH
Design: MWD-184'-20010', PTB: 20073'

Local Co-ordinate Reference: Well No. 6H
TVD Reference: Well @ 3028.00usft
MD Reference: Well @ 3028.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
18,739.00	89.00	11.10	10,004.21	9,254.62	9,255.01	-83.54	9,255.39	359.48	475,918.68	645,930.19	
18,828.00	90.20	11.10	10,004.83	9,342.02	9,342.34	-66.41	9,342.58	359.59	476,006.01	645,947.32	
18,918.00	91.00	11.20	10,003.89	9,430.38	9,430.64	-49.00	9,430.76	359.70	476,094.31	645,964.73	
19,007.00	91.30	10.40	10,002.10	9,517.85	9,518.04	-32.33	9,518.10	359.81	476,181.71	645,981.40	
19,097.00	91.10	9.10	10,000.22	9,606.58	9,606.72	-17.09	9,606.74	359.90	476,270.39	645,996.64	
19,187.00	90.60	9.20	9,998.88	9,695.48	9,695.57	-2.78	9,695.57	359.98	476,359.24	646,010.95	
19,276.00	91.10	9.80	9,997.56	9,783.31	9,783.33	11.90	9,783.34	0.07	476,447.00	646,025.63	
19,366.00	90.10	8.00	9,996.62	9,872.27	9,872.24	25.83	9,872.27	0.15	476,535.91	646,039.56	
19,456.00	92.90	7.80	9,994.26	9,961.42	9,961.35	38.19	9,961.42	0.22	476,625.02	646,051.92	
19,545.00	92.00	6.00	9,990.46	10,049.73	10,049.62	48.87	10,049.74	0.28	476,713.29	646,062.60	
19,635.00	89.40	2.10	9,989.36	10,139.50	10,139.36	55.23	10,139.51	0.31	476,803.03	646,068.96	
19,725.00	89.30	359.30	9,990.38	10,229.48	10,229.34	56.33	10,229.49	0.32	476,893.01	646,070.06	
19,814.00	90.50	357.40	9,990.53	10,318.43	10,318.30	53.76	10,318.44	0.30	476,981.97	646,067.49	
19,904.00	88.80	357.70	9,991.08	10,408.32	10,408.21	49.92	10,408.33	0.27	477,071.88	646,063.65	
19,993.00	89.20	358.00	9,992.64	10,497.23	10,497.13	46.58	10,497.24	0.25	477,160.80	646,060.31	
20,010.00	89.40	357.50	9,992.85	10,514.22	10,514.12	45.91	10,514.22	0.25	477,177.79	646,059.64	
Last Survey: 20010' MD											
20,073.00	89.40	357.50	9,993.50	10,577.14	10,577.06	43.16	10,577.14	0.23	477,240.73	646,056.89	
PTB: 20073' MD											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
411.00	410.97	0.54	-4.18	Pro MWD First Survey: 411' MD
20,010.00	9,992.85	10,514.12	45.91	Last Survey: 20010' MD
20,073.00	9,993.50	10,577.06	43.16	PTB: 20073' MD

Office
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 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. 30-015-45893
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Blue Steel 21 WXY Fee
8. Well Number 6H
9. OGRID Number 372098
10. Pool name or Wildcat Purple Sage; Wolfcamp (Gas)
4. Well Location Unit Letter <u>D</u> : <u>270</u> feet from the <u>NORTH</u> line and <u>1195</u> feet from the <u>WEST</u> line Section <u>28</u> Township <u>23S</u> Range <u>29E</u> NMPM County <u>EDDY</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3001' GL

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

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

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

3/3/2020 - Perform Production Casing Pressure test to 9500 psi for 30 min. Good Test.

9/6/2021 - MIRU. Start Frac Prep Operations

9/25/2021 - Perf Stages 1 - 33 with 2 shots per foot for a total of 984 shots, 0.35-in. in size using 24,438,381 lbs of 100 Mesh Sand, and stimulated with 6,804 gal of 15% HCl Acid. Total production interval from 10,070' to 19,943'. End Frac on 10/6/2021

10/10/2021 - RDMO. Ready to Produce

10/16/2021 - Turn to production and start flowback.

Spud Date:

~~12/3/2019~~ 8/25/2019

Rig Release Date:

12/7/2019

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

SIGNATURE Adrian Covarrubias TITLE Regulatory Professional DATE 10/19/2021

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 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 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. 30-015-45893		
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		
								6. Well Number: Blue Steel 21 WXY Fee 6H		
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:	D	28	23S	29E		270	N	1195	W	Eddy
BH:	D	16	23S	29E		332	N	1192	W	Eddy
13. Date Spudded 8/25/2019	14. Date T.D. Reached 12/3/2019		15. Date Rig Released 12/7/2019		16. Date Completed (Ready to Produce) 10/10/2021			17. Elevations (DF and RKB, RT, GR, etc.) 3001' GL		
18. Total Measured Depth of Well 20,073' MD / 9,993' TVD			19. Plug Back Measured Depth 20,011' MD / 9,993' TVD		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 10,070' - 19,943' MD, 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, STC		371'		17-1/2"		490		
9-5/8"		40#, J55, LTC		2980'		12-1/4"		1120		
5-1/2"		20#, P110, Roughneck		20055'		8-3/4"		4740		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 10,070' - 19,943' MD, 0.35", 984 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						10,070' - 19,943' MD		24,438,381 lbs - 100 Mesh Sand		
						10,070' - 19,943' MD		6804 gal - 15% HCl Acid		
						10,070' - 19,943' MD		451,116 bbls Brackish Water		
28. PRODUCTION										
Date First Production 10/16/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 10/16/2021	Hours Tested 24	Choke Size 18/64	Prod'n For Test Period	Oil - Bbl 25	Gas - MCF 70	Water - Bbl. 67	Gas - Oil Ratio			
Flow Tubing Press. 0	Casing Pressure 1476	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			Regulatory Professional			10/19/2021	
E-mail Address acovarrubias@marathonoil.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon 3044'	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 2962'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs 6689' / 6660'	T. Todilto	
T. Abo	T. Lamar 3009'	T. Entrada	
T. Wolfcamp 10060' / 9939'	T. Cherry Canyon 3917'	T. Wingate	
T. Penn	T. Brushy Canyon 5074'	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

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

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

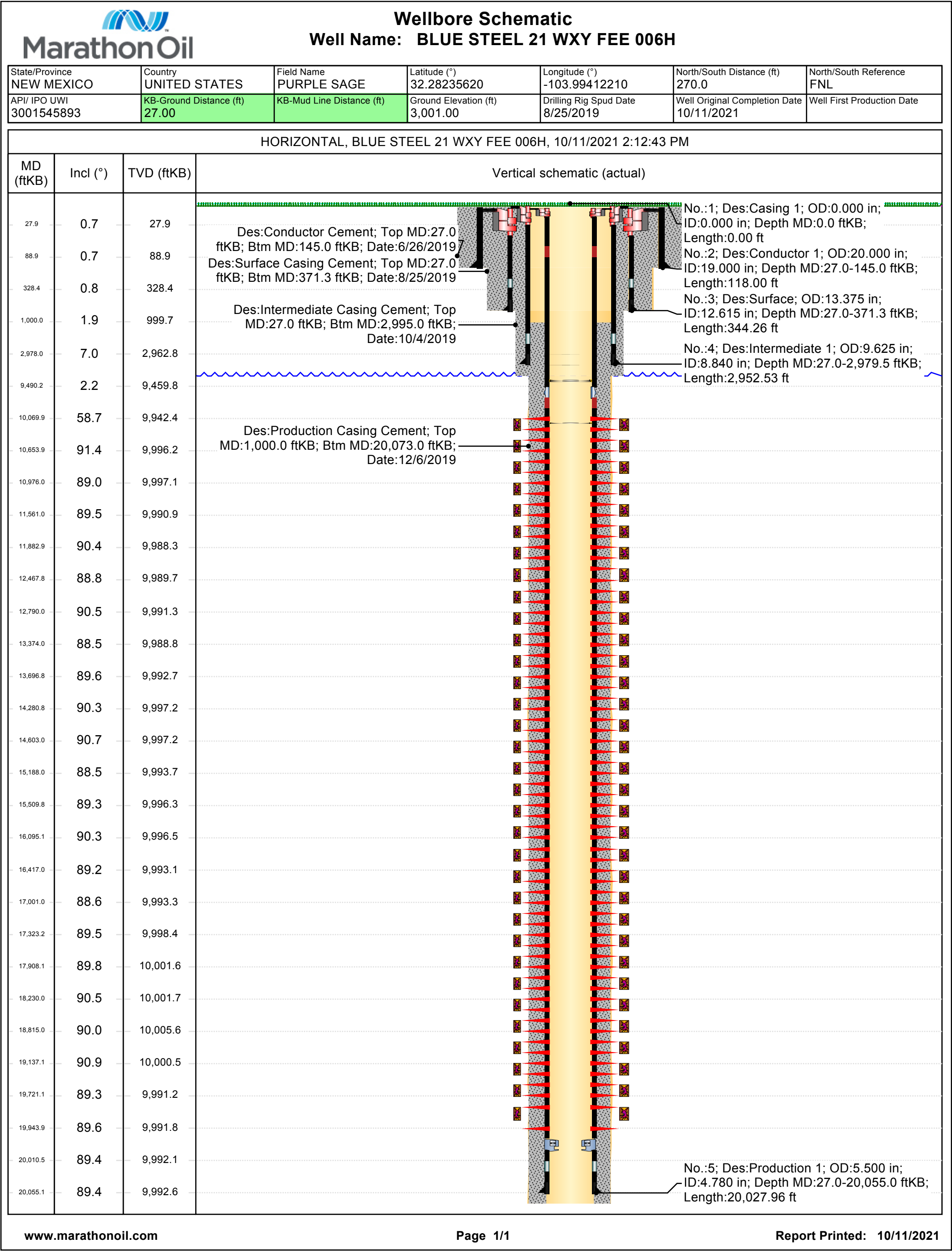
No. 3, from.....to.....

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

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

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

From	To	Thickness In Feet	Lithology



District I

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

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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 56750

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 56750
	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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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 56750

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 56750
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	2/8/2022