

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 - 5/12/2023
⁴ API Number 30 - 025-49530	⁵ Pool Name WC-025 G-08 S263412K; Bone Spring	
	⁶ Pool Code 96672	
⁷ Property Code 331688	⁸ Property Name Colossus 18 19 TB Federal Com	⁹ Well Number 3H

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
B	18	26S	35E		393	NORTH	1561	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
p	19	26S	35E		107	SOUTH	631	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
24650	Targa Midstream Services LLC 811 Louisiana Street, Ste 2100, Houston, TX 77002	G
34053	Plains Marketing, LP 333 Clay Street, Ste 1900, Houston, TX 77002	O
371643	SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B, Midland, TX 79706	W

IV. Well Completion Data

²¹ Spud Date 11/29/2022	²² Ready Date 5/3/2023	²³ TD 22740'	²⁴ PBTB 22713'	²⁵ Perforations 12610' - 22703'	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	1348'	Lead: 690 sacks, 2.13 yield, Class C Tail: 310 sacks, 1.32 yield, Class C		
12-1/4"	9-5/8", 40#, P110, BTC	11686'	Lead: 1240 sacks, 4.71 yield, Class C Tail: 310 sacks, 1.39 yield, Class C		
8-1/2"	5-1/2", 23#, P110, TLW	22718'	Lead: 2470 sacks, 1.59 yield, Class H Tail: 2020 sacks, 1.53 yield, Class H		

V. Well Test Data

³¹ Date New Oil 5/13/2023	³² Gas Delivery Date 5/12/2023	³³ Test Date 6/20/2023	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 274
³⁷ Choke Size 44/64	³⁸ Oil 600	³⁹ Water 3216	⁴⁰ Gas 929		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: <i>Adrian Covarrubias</i>			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: 9/8/2023		
Date: 6/22/2023		Phone: 713-296-3368			

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-49530		² Pool Code 96672		³ Pool Name WC-025 G-08 S263412K; BONE SPRING	
⁴ Property Code 331688		Property Name COLOSSUS 18-19 TB FEDERAL COM			⁶ Well Number 3H
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC			⁹ Elevation 3257'
¹⁰ Surface Location					
UL or lot no. B	Section 18	Township 26S	Range 35E	Lot Idn 393	Feet from the 393
		North/South line NORTH		Feet from the 1561	East/West line EAST
				County LEA	
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. P	Section 19	Township 26S	Range 35E	Lot Idn 107	Feet from the 107
		North/South line SOUTH		Feet from the 631	East/West line EAST
				County LEA	
¹² Dedicated Acres 640.0		¹³ Joint or Infill		¹⁴ Consolidation Code PLC-890; R-22344	
				¹⁵ Order No.	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 831129.70' / Y: 383390.47' B - X: 831156.50' / Y: 380749.68' C - X: 831183.30' / Y: 378108.90' D - X: 831210.16' / Y: 375469.71' E - X: 831235.70' / Y: 372827.69' F - X: 828592.53' / Y: 372813.35' G - X: 828566.06' / Y: 375452.89' H - X: 828539.58' / Y: 378092.67' I - X: 828515.41' / Y: 380734.22' J - X: 828491.21' / Y: 383378.93'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 789941.84' / Y: 383333.04' B - X: 789968.52' / Y: 380692.32' C - X: 789995.21' / Y: 378051.61' D - X: 790021.95' / Y: 375412.49' E - X: 790047.37' / Y: 372770.54' F - X: 787404.22' / Y: 372756.22' G - X: 787377.87' / Y: 375395.69' H - X: 787351.51' / Y: 378035.40' I - X: 787327.46' / Y: 380676.89' J - X: 787303.38' / Y: 383321.52'	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: <i>Adrian Covarrubias</i> Date: 6/14/2023 Printed Name: Adrian Covarrubias E-mail Address:
	SURFACE HOLE LOCATION 393' FNL 1561' FEL, SECTION 18 0' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 828572.73' / Y: 382981.10' LAT: 32.04950871N / LON: 103.40302422W NAD 27, SPCS NM EAST X: 788384.85' / Y: 382933.75' LAT: 32.04938263N / LON: 103.40256249W	KICK OFF POINT 88' FNL 559' FEL, SECTION 18 9457' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 830571.91' / Y: 383300.28' LAT: 32.05033482N / LON: 103.39979100W NAD 27, SPCS NM EAST X: 789384.03' / Y: 383242.89' LAT: 32.05020865N / LON: 103.39932933W	18 SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. Date of Survey: MAY 31, 2023 Signature and Seal of Professional Surveyor: <i>Lloyd P. Short</i> Certificate Number: LLOYD P. SHORT 21653
	FIRST TAKE POINT 364' FNL 612' FEL, SECTION 18 12610' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 830520.91' / Y: 383023.60' LAT: 32.04957610N / LON: 103.39996331W NAD 27, SPCS NM EAST X: 789333.04' / Y: 382966.38' LAT: 32.04944982N / LON: 103.39950161W	LAST TAKE POINT 144' FSL 629' FEL, SECTION 19 22703' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 830605.17' / Y: 372967.81' LAT: 32.02193397N / LON: 103.39997184W NAD 27, SPCS NM EAST X: 789416.85' / Y: 372910.66' LAT: 32.02180755N / LON: 103.39951172W	
	BOTTOM HOLE LOCATION 107' FSL 631' FEL, SECTION 19 22740' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 830603.94' / Y: 372930.88' LAT: 32.02183250N / LON: 103.39997682W NAD 27, SPCS NM EAST X: 789415.14' / Y: 372874.05' LAT: 32.02170697N / LON: 103.39951826W		

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99985058 Convergence Angle: 0.4930013

Horizontal Spacing Unit



Marathon Oil

Lea County, New Mexico (NAD 27)

Colossus Pad

Colossus 18-19 TB Fed Com #3H

Wellbore #2

Design: Surveys

Standard Survey Report

03 February, 2023





MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #3H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3280.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3280.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Conroe DB

Project	Lea County, New Mexico (NAD 27)		
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	Colossus Pad		
Site Position:		Northing:	382,933.75 usft
From:	Map	Easting:	788,354.84 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 57.780 N
		Longitude:	103° 24' 9.574 W

Well	Colossus 18-19 TB Fed Com #3H		
Well Position	+N/-S	0.00 usft	Northing: 382,933.73 usft
	+E/-W	0.00 usft	Easting: 788,384.85 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.494 °	Ground Level:	3,257.00 usft

Wellbore	Wellbore #2		
Magnetics	Model Name	Sample Date	Declination (°)
	IFR	1/6/2023	6.275
			Dip Angle (°)
			59.597
			Field Strength (nT)
			47,329.90

Design	Surveys		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			179.43

Survey Program	Date	2/3/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
224.00	21,424.00	MS MWD + FDIR (Wellbore #1)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction
12,994.00	22,740.00	MS MWD + FDIR (Wellbore #2)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

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	
224.00	0.65	348.85	224.00	1.25	-0.25	-1.25	0.29	0.29	0.00	
314.00	0.55	344.15	313.99	2.16	-0.46	-2.17	0.12	-0.11	-5.22	
401.00	0.38	322.62	400.99	2.79	-0.75	-2.80	0.28	-0.20	-24.75	
496.00	0.55	5.16	495.98	3.50	-0.90	-3.51	0.39	0.18	44.78	
588.00	0.51	48.30	587.98	4.21	-0.56	-4.22	0.43	-0.04	46.89	
680.00	0.39	343.32	679.98	4.78	-0.34	-4.79	0.54	-0.13	-70.63	
772.00	0.57	10.73	771.98	5.53	-0.35	-5.54	0.31	0.20	29.79	
864.00	0.67	359.42	863.97	6.52	-0.27	-6.52	0.17	0.11	-12.29	



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #3H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3280.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3280.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Conroe DB

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)	
955.00	1.22	33.60	954.96	7.86	0.27	-7.86	0.84	0.60	37.56	
1,046.00	1.49	51.38	1,045.93	9.40	1.73	-9.39	0.55	0.30	19.54	
1,136.00	1.44	55.96	1,135.90	10.77	3.58	-10.73	0.14	-0.06	5.09	
1,226.00	1.36	43.40	1,225.88	12.18	5.25	-12.12	0.35	-0.09	-13.96	
1,287.00	1.62	54.69	1,286.86	13.20	6.45	-13.14	0.64	0.43	18.51	
1,402.00	1.12	53.70	1,401.82	14.81	8.68	-14.72	0.44	-0.43	-0.86	
1,497.00	2.12	42.77	1,496.78	16.65	10.62	-16.54	1.10	1.05	-11.51	
1,593.00	3.77	44.03	1,592.65	20.22	14.02	-20.08	1.72	1.72	1.31	
1,688.00	5.16	48.07	1,687.36	25.32	19.37	-25.12	1.50	1.46	4.25	
1,783.00	6.18	53.32	1,781.90	31.23	26.65	-30.96	1.20	1.07	5.53	
1,880.00	6.53	59.87	1,878.30	37.12	35.61	-36.76	0.83	0.36	6.75	
1,976.00	7.81	75.66	1,973.56	41.47	46.65	-41.01	2.44	1.33	16.45	
2,071.00	8.92	76.45	2,067.55	44.80	60.07	-44.20	1.17	1.17	0.83	
2,168.00	9.27	78.88	2,163.33	48.07	75.04	-47.32	0.54	0.36	2.51	
2,264.00	9.31	76.78	2,258.07	51.33	90.19	-50.43	0.36	0.04	-2.19	
2,360.00	10.11	73.61	2,352.69	55.49	105.83	-54.43	1.00	0.83	-3.30	
2,456.00	10.02	73.80	2,447.22	60.19	121.94	-58.98	0.10	-0.09	0.20	
2,551.00	10.00	74.49	2,540.77	64.70	137.82	-63.33	0.13	-0.02	0.73	
2,647.00	9.91	74.77	2,635.33	69.10	153.82	-67.57	0.11	-0.09	0.29	
2,742.00	9.73	75.02	2,728.93	73.33	169.46	-71.64	0.19	-0.19	0.26	
2,838.00	9.65	75.23	2,823.56	77.47	185.08	-75.63	0.09	-0.08	0.22	
2,935.00	9.56	74.84	2,919.20	81.65	200.72	-79.65	0.11	-0.09	-0.40	
3,029.00	9.28	74.59	3,011.94	85.71	215.56	-83.56	0.30	-0.30	-0.27	
3,126.00	9.07	74.33	3,107.70	89.85	230.46	-87.55	0.22	-0.22	-0.27	
3,221.00	9.19	74.52	3,201.49	93.90	244.98	-91.46	0.13	0.13	0.20	
3,316.00	9.09	73.66	3,295.29	98.04	259.49	-95.45	0.18	-0.11	-0.91	
3,410.00	9.16	73.22	3,388.10	102.28	273.78	-99.56	0.11	0.07	-0.47	
3,505.00	9.28	73.44	3,481.87	106.65	288.36	-103.78	0.13	0.13	0.23	
3,599.00	9.34	73.69	3,574.63	110.95	302.95	-107.93	0.08	0.06	0.27	
3,694.00	9.23	72.72	3,668.39	115.38	317.62	-112.22	0.20	-0.12	-1.02	
3,788.00	9.62	75.22	3,761.12	119.62	332.42	-116.31	0.60	0.41	2.66	
3,883.00	9.75	76.70	3,854.76	123.50	347.92	-120.03	0.30	0.14	1.56	
3,978.00	9.45	76.01	3,948.43	127.24	363.32	-123.61	0.34	-0.32	-0.73	
4,073.00	9.23	75.48	4,042.17	131.03	378.26	-127.26	0.25	-0.23	-0.56	
4,168.00	9.50	74.00	4,135.91	135.10	393.17	-131.18	0.38	0.28	-1.56	
4,261.00	10.25	71.61	4,227.53	139.83	408.40	-135.76	0.92	0.81	-2.57	
4,356.00	10.02	72.26	4,321.05	145.01	424.29	-140.78	0.27	-0.24	0.68	
4,450.00	9.61	71.48	4,413.67	150.00	439.52	-145.62	0.46	-0.44	-0.83	
4,544.00	9.63	72.46	4,506.35	154.86	454.46	-150.33	0.18	0.02	1.04	
4,639.00	9.43	74.56	4,600.04	159.33	469.54	-154.65	0.42	-0.21	2.21	
4,733.00	9.17	74.61	4,692.80	163.36	484.18	-158.54	0.28	-0.28	0.05	
4,827.00	8.96	75.18	4,785.63	167.22	498.48	-162.26	0.24	-0.22	0.61	
4,922.00	8.78	75.54	4,879.49	170.93	512.65	-165.82	0.20	-0.19	0.38	



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #3H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3280.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3280.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Conroe DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,016.00	8.80	76.59	4,972.39	174.39	526.59	-169.14	0.17	0.02	1.12
5,111.00	10.47	74.40	5,066.04	178.39	541.98	-172.99	1.80	1.76	-2.31
5,206.00	10.19	74.98	5,159.51	182.89	558.41	-177.33	0.31	-0.29	0.61
5,300.00	9.43	73.49	5,252.13	187.23	573.82	-181.52	0.85	-0.81	-1.59
5,396.00	8.92	72.20	5,346.90	191.74	588.45	-185.88	0.57	-0.53	-1.34
5,490.00	8.69	69.40	5,439.79	196.47	602.03	-190.47	0.52	-0.24	-2.98
5,585.00	9.17	68.59	5,533.64	201.76	615.80	-195.62	0.52	0.51	-0.85
5,679.00	10.49	73.87	5,626.26	206.87	630.99	-200.58	1.70	1.40	5.62
5,772.00	10.12	74.18	5,717.76	211.45	646.99	-205.00	0.40	-0.40	0.33
5,866.00	9.76	73.88	5,810.35	215.91	662.59	-209.31	0.39	-0.38	-0.32
5,961.00	9.43	74.03	5,904.02	220.29	677.80	-213.54	0.35	-0.35	0.16
6,055.00	9.26	75.61	5,996.77	224.29	692.53	-217.39	0.33	-0.18	1.68
6,150.00	9.50	77.24	6,090.50	227.92	707.58	-220.87	0.38	0.25	1.72
6,244.00	9.22	76.06	6,183.25	231.45	722.46	-224.25	0.36	-0.30	-1.26
6,338.00	8.80	76.52	6,276.09	234.94	736.76	-227.60	0.45	-0.45	0.49
6,433.00	9.08	75.56	6,369.94	238.50	751.08	-231.02	0.33	0.29	-1.01
6,527.00	9.73	75.30	6,462.67	242.37	765.95	-234.73	0.69	0.69	-0.28
6,621.00	9.33	75.61	6,555.38	246.28	781.01	-238.49	0.43	-0.43	0.33
6,716.00	9.65	74.98	6,649.08	250.25	796.16	-242.32	0.35	0.34	-0.66
6,809.00	10.15	75.33	6,740.69	254.35	811.62	-246.26	0.54	0.54	0.38
6,904.00	9.84	74.48	6,834.25	258.64	827.54	-250.40	0.36	-0.33	-0.89
6,999.00	9.57	74.29	6,927.89	262.95	842.96	-254.55	0.29	-0.28	-0.20
7,093.00	9.39	73.03	7,020.61	267.30	857.82	-258.76	0.29	-0.19	-1.34
7,188.00	8.89	72.35	7,114.40	271.79	872.23	-263.10	0.54	-0.53	-0.72
7,282.00	8.41	72.67	7,207.33	276.04	885.71	-267.22	0.51	-0.51	0.34
7,377.00	8.15	72.21	7,301.34	280.17	898.75	-271.21	0.28	-0.27	-0.48
7,472.00	7.84	71.94	7,395.42	284.24	911.33	-275.15	0.33	-0.33	-0.28
7,566.00	7.34	71.51	7,488.59	288.13	923.12	-278.93	0.54	-0.53	-0.46
7,660.00	6.90	71.81	7,581.87	291.79	934.17	-282.49	0.47	-0.47	0.32
7,755.00	6.18	71.61	7,676.25	295.19	944.45	-285.78	0.76	-0.76	-0.21
7,850.00	5.19	72.51	7,770.78	298.09	953.40	-288.59	1.05	-1.04	0.95
7,945.00	3.49	80.45	7,865.51	299.86	960.35	-290.30	1.89	-1.79	8.36
8,040.00	2.89	80.93	7,960.36	300.72	965.57	-291.10	0.63	-0.63	0.51
8,134.00	2.55	79.06	8,054.25	301.49	969.96	-291.83	0.37	-0.36	-1.99
8,229.00	2.34	75.17	8,149.17	302.39	973.91	-292.69	0.28	-0.22	-4.09
8,323.00	2.07	75.30	8,243.10	303.31	977.41	-293.57	0.29	-0.29	0.14
8,417.00	1.84	74.87	8,337.04	304.14	980.50	-294.37	0.25	-0.24	-0.46
8,512.00	1.63	74.90	8,432.00	304.89	983.28	-295.09	0.22	-0.22	0.03
8,606.00	1.52	73.94	8,525.96	305.58	985.77	-295.76	0.12	-0.12	-1.02
8,701.00	1.36	77.91	8,620.93	306.16	988.08	-296.32	0.20	-0.17	4.18
8,795.00	1.24	75.16	8,714.91	306.66	990.16	-296.79	0.14	-0.13	-2.93
8,890.00	1.25	71.85	8,809.89	307.24	992.14	-297.36	0.08	0.01	-3.48
8,983.00	1.09	75.42	8,902.87	307.78	993.96	-297.88	0.19	-0.17	3.84



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #3H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3280.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3280.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Conroe DB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,077.00	0.86	72.08	8,996.85	308.23	995.49	-298.31	0.25	-0.24	-3.55	
9,172.00	0.69	73.13	9,091.84	308.61	996.72	-298.68	0.18	-0.18	1.11	
9,267.00	0.65	77.26	9,186.84	308.90	997.79	-298.95	0.07	-0.04	4.35	
9,362.00	0.40	80.20	9,281.83	309.07	998.64	-299.12	0.26	-0.26	3.09	
9,457.00	0.26	80.70	9,376.83	309.16	999.18	-299.21	0.15	-0.15	0.53	
9,552.00	0.58	242.55	9,471.83	308.98	998.97	-299.02	0.87	0.34	170.37	
9,646.00	0.94	258.02	9,565.82	308.60	997.79	-298.65	0.44	0.38	16.46	
9,741.00	0.95	244.60	9,660.81	308.10	996.32	-298.17	0.23	0.01	-14.13	
9,836.00	0.85	244.39	9,755.80	307.45	994.97	-297.54	0.11	-0.11	-0.22	
9,930.00	0.67	251.45	9,849.79	306.98	993.82	-297.08	0.22	-0.19	7.51	
10,025.00	1.04	278.54	9,944.78	306.93	992.44	-297.04	0.57	0.39	28.52	
10,119.00	1.27	286.62	10,038.76	307.35	990.60	-297.48	0.30	0.24	8.60	
10,214.00	1.13	288.73	10,133.74	307.96	988.71	-298.10	0.15	-0.15	2.22	
10,309.00	1.10	292.30	10,228.72	308.60	986.97	-298.77	0.08	-0.03	3.76	
10,403.00	0.98	294.92	10,322.70	309.28	985.41	-299.46	0.14	-0.13	2.79	
10,498.00	0.77	299.02	10,417.69	309.94	984.12	-300.13	0.23	-0.22	4.32	
10,593.00	0.75	321.39	10,512.69	310.73	983.17	-300.93	0.31	-0.02	23.55	
10,688.00	0.85	330.84	10,607.68	311.83	982.44	-302.04	0.17	0.11	9.95	
10,782.00	0.96	337.80	10,701.66	313.17	981.80	-303.39	0.17	0.12	7.40	
10,876.00	1.05	331.18	10,795.65	314.65	981.09	-304.88	0.16	0.10	-7.04	
10,971.00	0.82	332.02	10,890.64	316.02	980.35	-306.25	0.24	-0.24	0.88	
11,064.00	0.87	343.20	10,983.63	317.28	979.83	-307.52	0.18	0.05	12.02	
11,159.00	0.86	342.51	11,078.62	318.65	979.41	-308.89	0.02	-0.01	-0.73	
11,253.00	0.91	345.00	11,172.61	320.04	979.01	-310.29	0.07	0.05	2.65	
11,348.00	1.09	342.60	11,267.59	321.64	978.54	-311.88	0.19	0.19	-2.53	
11,442.00	1.23	326.00	11,361.57	323.32	977.71	-313.58	0.39	0.15	-17.66	
11,537.00	1.41	303.23	11,456.55	324.81	976.16	-315.08	0.58	0.19	-23.97	
11,631.00	1.53	306.06	11,550.52	326.18	974.18	-316.48	0.15	0.13	3.01	
11,639.00	1.50	309.22	11,558.51	326.31	974.01	-316.61	1.11	-0.38	39.50	
11,755.00	0.92	310.50	11,674.49	327.88	972.13	-318.19	0.50	-0.50	1.10	
11,850.00	2.07	174.00	11,769.47	326.67	971.73	-316.98	2.96	1.21	-143.68	
11,914.00	3.34	182.15	11,833.40	323.65	971.78	-313.97	2.07	1.98	12.73	
11,976.00	3.73	193.20	11,895.28	319.88	971.25	-310.21	1.26	0.63	17.82	
12,070.00	13.06	195.70	11,988.17	306.65	967.67	-297.01	9.93	9.93	2.66	
12,165.00	21.41	193.76	12,078.82	279.43	960.63	-269.86	8.81	8.79	-2.04	
12,260.00	20.17	177.53	12,167.71	246.20	957.21	-236.66	6.18	-1.31	-17.08	
12,355.00	31.59	177.51	12,253.04	204.84	959.00	-195.29	12.02	12.02	-0.02	
12,450.00	38.24	186.31	12,330.95	150.66	956.84	-141.14	8.77	7.00	9.26	
12,545.00	48.56	185.25	12,399.88	85.80	950.34	-76.35	10.89	10.86	-1.12	
12,640.00	61.61	179.86	12,454.16	8.18	947.17	1.24	14.50	13.74	-5.67	
12,735.00	72.14	175.50	12,491.44	-78.96	950.83	88.41	11.86	11.08	-4.59	
12,830.00	76.62	178.83	12,517.02	-170.30	955.32	179.79	5.80	4.72	3.51	
12,925.00	80.66	177.13	12,535.73	-263.36	958.61	272.88	4.60	4.25	-1.79	
12,994.00	81.91	177.17	12,546.18	-331.47	962.00	341.03	1.81	1.81	0.06	



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #3H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3280.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3280.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Conroe DB

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)
13,057.00	80.64	169.49	12,555.75	-393.27	969.22	402.90	12.22	-2.02	-12.19
13,151.00	93.58	163.98	12,560.48	-484.41	990.74	494.25	14.95	13.77	-5.86
13,245.00	94.90	171.55	12,553.53	-575.96	1,010.59	585.98	8.15	1.40	8.05
13,339.00	94.01	178.43	12,546.21	-669.26	1,018.77	679.36	7.36	-0.95	7.32
13,434.00	90.59	179.20	12,542.40	-764.15	1,020.73	774.26	3.69	-3.60	0.81
13,528.00	90.81	180.08	12,541.25	-858.14	1,021.32	868.25	0.96	0.23	0.94
13,622.00	90.15	178.14	12,540.47	-952.12	1,022.78	962.25	2.18	-0.70	-2.06
13,717.00	92.31	183.43	12,538.43	-1,047.05	1,021.48	1,057.16	6.01	2.27	5.57
13,834.00	90.66	182.93	12,535.39	-1,163.82	1,014.99	1,173.86	1.47	-1.41	-0.43
13,928.00	90.61	184.40	12,534.35	-1,257.62	1,008.99	1,267.60	1.56	-0.05	1.56
14,023.00	90.71	184.09	12,533.26	-1,352.36	1,001.95	1,362.26	0.34	0.11	-0.33
14,117.00	90.46	182.09	12,532.30	-1,446.21	996.89	1,456.06	2.14	-0.27	-2.13
14,211.00	90.04	181.41	12,531.89	-1,540.16	994.02	1,549.98	0.85	-0.45	-0.72
14,306.00	89.71	180.95	12,532.10	-1,635.14	992.06	1,644.93	0.60	-0.35	-0.48
14,400.00	89.29	179.19	12,532.92	-1,729.14	991.95	1,738.92	1.92	-0.45	-1.87
14,495.00	91.06	181.25	12,532.63	-1,824.13	991.58	1,833.90	2.86	1.86	2.17
14,590.00	88.54	179.33	12,532.96	-1,919.11	991.10	1,928.88	3.33	-2.65	-2.02
14,683.00	89.64	179.15	12,534.43	-2,012.09	992.33	2,021.86	1.20	1.18	-0.19
14,778.00	89.37	179.39	12,535.25	-2,107.08	993.54	2,116.86	0.38	-0.28	0.25
14,872.00	89.77	179.46	12,535.96	-2,201.07	994.49	2,210.86	0.43	0.43	0.07
14,965.00	91.52	179.40	12,534.91	-2,294.06	995.41	2,303.85	1.88	1.88	-0.06
15,060.00	90.65	177.78	12,533.11	-2,389.01	997.75	2,398.81	1.94	-0.92	-1.71
15,153.00	89.06	177.14	12,533.35	-2,481.91	1,001.87	2,491.76	1.84	-1.71	-0.69
15,247.00	91.75	175.83	12,532.69	-2,575.72	1,007.63	2,585.62	3.18	2.86	-1.39
15,341.00	91.39	174.31	12,530.11	-2,669.34	1,015.71	2,679.31	1.66	-0.38	-1.62
15,436.00	90.73	174.32	12,528.35	-2,763.85	1,025.12	2,773.91	0.69	-0.69	0.01
15,530.00	91.47	176.64	12,526.55	-2,857.54	1,032.52	2,867.67	2.59	0.79	2.47
15,625.00	91.96	179.94	12,523.70	-2,952.44	1,035.36	2,962.59	3.51	0.52	3.47
15,720.00	91.43	178.75	12,520.89	-3,047.39	1,036.44	3,057.55	1.37	-0.56	-1.25
15,814.00	90.96	178.59	12,518.93	-3,141.34	1,038.62	3,151.52	0.53	-0.50	-0.17
15,909.00	90.99	178.38	12,517.32	-3,236.29	1,041.14	3,246.49	0.22	0.03	-0.22
16,003.00	91.30	179.28	12,515.44	-3,330.26	1,043.05	3,340.47	1.01	0.33	0.96
16,098.00	91.30	179.24	12,513.28	-3,425.22	1,044.28	3,435.44	0.04	0.00	-0.04
16,192.00	91.47	180.15	12,511.01	-3,519.19	1,044.78	3,529.41	0.98	0.18	0.97
16,287.00	91.43	179.88	12,508.61	-3,614.16	1,044.76	3,624.38	0.29	-0.04	-0.28
16,381.00	91.13	179.89	12,506.51	-3,708.14	1,044.95	3,718.35	0.32	-0.32	0.01
16,475.00	91.35	179.87	12,504.47	-3,802.12	1,045.14	3,812.33	0.24	0.23	-0.02
16,570.00	91.72	180.79	12,501.93	-3,897.08	1,044.60	3,907.28	1.04	0.39	0.97
16,664.00	90.27	180.52	12,500.30	-3,991.06	1,043.52	4,001.24	1.57	-1.54	-0.29
16,758.00	92.42	181.20	12,498.09	-4,085.01	1,042.11	4,095.18	2.40	2.29	0.72
16,853.00	89.89	180.52	12,496.17	-4,179.98	1,040.69	4,190.12	2.76	-2.66	-0.72
16,948.00	90.51	183.25	12,495.84	-4,274.91	1,037.56	4,285.02	2.95	0.65	2.87
17,042.00	89.54	183.36	12,495.80	-4,368.76	1,032.14	4,378.81	1.04	-1.03	0.12



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #3H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3280.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3280.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Conroe DB

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)
17,136.00	91.08	186.56	12,495.29	-4,462.39	1,024.02	4,472.36	3.78	1.64	3.40
17,230.00	91.08	185.12	12,493.52	-4,555.88	1,014.45	4,565.75	1.53	0.00	-1.53
17,325.00	90.15	181.66	12,492.50	-4,650.69	1,008.84	4,660.50	3.77	-0.98	-3.64
17,419.00	87.69	177.15	12,494.27	-4,744.64	1,009.81	4,754.45	5.46	-2.62	-4.80
17,514.00	88.63	177.86	12,497.32	-4,839.50	1,013.94	4,849.35	1.24	0.99	0.75
17,609.00	89.11	180.23	12,499.20	-4,934.46	1,015.53	4,944.32	2.54	0.51	2.49
17,703.00	88.62	181.78	12,501.06	-5,028.43	1,013.88	5,038.26	1.73	-0.52	1.65
17,797.00	88.75	183.16	12,503.22	-5,122.31	1,009.83	5,132.10	1.47	0.14	1.47
17,892.00	88.97	180.29	12,505.11	-5,217.24	1,006.97	5,227.00	3.03	0.23	-3.02
17,987.00	90.20	177.45	12,505.80	-5,312.21	1,008.84	5,321.98	3.26	1.29	-2.99
18,081.00	90.20	177.60	12,505.47	-5,406.12	1,012.90	5,415.93	0.16	0.00	0.16
18,176.00	90.61	177.32	12,504.80	-5,501.02	1,017.11	5,510.87	0.52	0.43	-0.29
18,271.00	90.42	178.02	12,503.94	-5,595.94	1,020.98	5,605.82	0.76	-0.20	0.74
18,365.00	89.71	177.57	12,503.84	-5,689.87	1,024.59	5,699.78	0.89	-0.76	-0.48
18,460.00	86.53	176.24	12,506.95	-5,784.67	1,029.72	5,794.62	3.63	-3.35	-1.40
18,555.00	88.76	176.12	12,510.86	-5,879.37	1,036.04	5,889.38	2.35	2.35	-0.13
18,650.00	89.42	177.11	12,512.36	-5,974.19	1,041.65	5,984.26	1.25	0.69	1.04
18,745.00	86.22	174.72	12,515.98	-6,068.86	1,048.41	6,078.99	4.20	-3.37	-2.52
18,839.00	87.97	174.84	12,520.74	-6,162.35	1,056.95	6,172.56	1.87	1.86	0.13
18,911.00	87.94	175.72	12,523.31	-6,234.06	1,062.87	6,244.32	1.22	-0.04	1.22
19,006.00	90.93	177.10	12,524.25	-6,328.85	1,068.82	6,339.17	3.47	3.15	1.45
19,101.00	92.47	177.98	12,521.43	-6,423.72	1,072.89	6,434.07	1.87	1.62	0.93
19,195.00	90.27	178.92	12,519.18	-6,517.65	1,075.43	6,528.03	2.54	-2.34	1.00
19,290.00	91.59	180.33	12,517.64	-6,612.63	1,076.06	6,623.01	2.03	1.39	1.48
19,385.00	88.73	178.91	12,517.38	-6,707.62	1,076.69	6,718.00	3.36	-3.01	-1.49
19,480.00	88.91	178.77	12,519.33	-6,802.58	1,078.61	6,812.97	0.24	0.19	-0.15
19,574.00	88.38	178.53	12,521.55	-6,896.52	1,080.82	6,906.94	0.62	-0.56	-0.26
19,669.00	87.81	178.11	12,524.71	-6,991.43	1,083.61	7,001.86	0.75	-0.60	-0.44
19,763.00	90.89	179.10	12,525.78	-7,085.38	1,085.89	7,095.84	3.44	3.28	1.05
19,858.00	92.29	179.89	12,523.14	-7,180.34	1,086.73	7,190.80	1.69	1.47	0.83
19,952.00	91.28	179.33	12,520.21	-7,274.29	1,087.37	7,284.75	1.23	-1.07	-0.60
20,047.00	90.58	178.78	12,518.67	-7,369.26	1,088.94	7,379.73	0.94	-0.74	-0.58
20,141.00	89.08	179.29	12,518.95	-7,463.25	1,090.52	7,473.73	1.69	-1.60	0.54
20,235.00	88.47	178.29	12,520.96	-7,557.20	1,092.50	7,567.70	1.25	-0.65	-1.06
20,330.00	88.91	179.68	12,523.13	-7,652.16	1,094.19	7,662.67	1.53	0.46	1.46
20,425.00	87.94	179.97	12,525.74	-7,747.12	1,094.48	7,757.63	1.07	-1.02	0.31
20,519.00	87.94	179.84	12,529.12	-7,841.06	1,094.63	7,851.56	0.14	0.00	-0.14
20,613.00	87.46	179.33	12,532.90	-7,934.98	1,095.31	7,945.49	0.74	-0.51	-0.54
20,708.00	88.07	180.51	12,536.60	-8,029.91	1,095.45	8,040.41	1.40	0.64	1.24
20,802.00	87.24	180.30	12,540.45	-8,123.83	1,094.78	8,134.32	0.91	-0.88	-0.22
20,897.00	89.26	180.97	12,543.35	-8,218.77	1,093.73	8,229.25	2.24	2.13	0.71
20,991.00	88.40	180.80	12,545.27	-8,312.74	1,092.28	8,323.20	0.93	-0.91	-0.18
21,085.00	89.76	181.31	12,546.78	-8,406.71	1,090.55	8,417.14	1.55	1.45	0.54



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #3H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3280.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3280.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #3H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Conroe DB

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)
21,180.00	88.84	181.42	12,547.94	-8,501.68	1,088.28	8,512.08	0.98	-0.97	0.12
21,274.00	89.48	181.20	12,549.32	-8,595.64	1,086.13	8,606.02	0.72	0.68	-0.23
21,369.00	88.87	181.18	12,550.68	-8,690.61	1,084.16	8,700.96	0.64	-0.64	-0.02
21,464.00	89.66	181.26	12,551.90	-8,785.58	1,082.14	8,795.91	0.84	0.83	0.08
21,558.00	90.72	182.35	12,551.59	-8,879.53	1,079.18	8,889.83	1.62	1.13	1.16
21,652.00	92.52	182.89	12,548.93	-8,973.39	1,074.88	8,983.64	2.00	1.91	0.57
21,747.00	88.56	181.79	12,548.04	-9,068.29	1,071.01	9,078.49	4.33	-4.17	-1.16
21,841.00	87.51	181.88	12,551.26	-9,162.18	1,068.00	9,172.35	1.12	-1.12	0.10
21,936.00	91.15	182.39	12,552.37	-9,257.09	1,064.46	9,267.22	3.87	3.83	0.54
22,031.00	91.24	182.37	12,550.39	-9,351.99	1,060.52	9,362.08	0.10	0.09	-0.02
22,125.00	90.06	182.50	12,549.32	-9,445.90	1,056.52	9,455.94	1.26	-1.26	0.14
22,220.00	90.14	183.16	12,549.16	-9,540.78	1,051.83	9,550.77	0.70	0.08	0.69
22,315.00	88.87	182.36	12,549.98	-9,635.66	1,047.26	9,645.61	1.58	-1.34	-0.84
22,409.00	89.00	182.89	12,551.73	-9,729.55	1,042.95	9,739.44	0.58	0.14	0.56
22,504.00	87.55	182.19	12,554.59	-9,824.41	1,038.75	9,834.26	1.69	-1.53	-0.74
22,598.00	86.76	181.85	12,559.25	-9,918.23	1,035.44	9,928.04	0.91	-0.84	-0.36
22,679.00	87.02	181.91	12,563.65	-9,999.07	1,032.78	10,008.85	0.33	0.32	0.07
22,740.00	87.02	181.91	12,566.82	-10,059.95	1,030.75	10,069.71	0.00	0.00	0.00
Projection to TD (ST01) -22740.00' MD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
22,740.00	12,566.82	-10,059.95	1,030.75	Projection to TD (ST01) -22740.00' MD



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print

06/22/2023

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 3H	US Well Number 3002549530
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064746

Section 1 - General

Well Completion Report Id: 88457

Submission Date: 06-22-2023

BLM Office: Carlsbad Field Office

User: ADRIAN COVARRUBIAS

Title: regulatory Compliance

Federal/Indian: FEDERAL

Lease Number: NMNM104706

Lease Acres:

Agreement in place?: NO

Federal or Indian Agreement:

Agreement Number:

Agreement Name:

Keep this Well Completion Report confidential?:

APD Operator: MARATHON OIL
PERMIAN LLC

Section 2 - Well

Field/Pool or Exploratory:

Pool Name: BONE SPRING

Field Name: WC-025 G-08

Well Type: OIL WELL

Spud Date: 11-29-2022

Date Total Measured Depth Reached: 12-08-2023

Drill & Abandon or Ready To Produce: READY TO

Well Class: HORIZONTAL

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
LAMAR	SANDSTONE, SHALE		-2163	5420	5470	NONE	
DELAWARE	SANDSTONE, SHALE		-2211	5468	5519	OIL	

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 3H	US Well Number 3002549530
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064746

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
CHERRY CANYON	SANDSTONE, SHALE		-3187	6444	6508	OIL	
BRUSHY CANYON	SANDSTONE, SHALE		-4806	8063	8143	OTHER	BRINE
BONE SPRINGS	OTHER, SANDSTONE	Carbonates	-6131	9388	9468	OIL	

Completion and Completed

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM10 4706	NMNM10 4706	NEW		POW	05-12- 2023	05-11- 2023	BONE SPRING	126 10	22703	Y	.41	984	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Totle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	487901	25416784	

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 3H	US Well Number 3002549530
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064746

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1			FLOWS FROM WELL		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	06/19/20 23	24	600	929	3216	1548	44/64		274

Well Location

Survey Type: RECTANGULAR

Survey Number: 11403

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

Section	Range	Township	EW-Indicator	EW-Foot	NS-Indicator	NS-Foot	Plug Type	Plug MD (ft)	Plug TVD (ft)	Lease Number	Lease Type	TVD (ft)	MD (ft)	Elevation (MSL)	Longitude	Latitude	County	Meridian	State

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 3H	US Well Number 3002549530
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064746

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Quarter Section
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0495087	-103.4030242	3257	N/A	N/A	FEDERAL	NMNM104706				393	FNL	1561	FEL	26S	35E	18	NW
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0503348	-103.399791	-6119	9457	9376	FEDERAL	NMNM104706				88	FNL	559	FEL	26S	35E	18	NE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0360553	-103.3998851	-9241	17560	12498	FEE	FEE				0	FNL	596	FEL	26S	35E	19	NE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0433148	-103.3998756	-9279	14916	12536	FEDERAL	NMNM093223				2642	FNL	589	FEL	26S	35E	18	NE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0495761	-103.3999633	-9180	12610	12437	FEDERAL	NMNM104706				364	FNL	612	FEL	26S	35E	18	NE
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.021934	-103.3999718	-9308	22703	12565	FEE	FEE				144	FSL	629	FEL	26S	35E	19	SE
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0218325	-103.3999768	-9310	22740	12567	FEE	FEE				107	FSL	631	FEL	26S	35E	19	SE

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 3H	US Well Number 3002549530
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064746

Casing, Liner and Tubing

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	1348	13.375	54.5	J-55		BUTT		
00	INTERMEDIATE	12.25	0	11686	9.625	40	P-110		BUTT		
00	PRODUCTION	8.5	0	22718	5.5	23	P-110		OTHER	TLW	

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE		Class C	690	2.13	0	CLASS C	310	1.32	950	334.6
00	INTERMEDIATE		CLASS C	1240	4.71	0	CLASS C	310	1.39	9000	1116.9
00	PRODUCTION		Class H	2470	1.59	0	CLASS H	2020	1.53	10220	1249.9

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
---------------	------------	-----------------	--------------	---------------------	-----------------	------------------

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 3H	US Well Number 3002549530
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064746

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	YES	NO	NO	YES	NO	YES

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: MARATHON OIL PERMIAN LLC

Signed By: ADRIAN COVARRUBIAS

Title: regulatory Compliance
Representative

Signed on: 06/22/2023

Street Address: 990 TOWN & COUNTRY BLVD

City: HOUSTON

State: TX

Zip: 77024

Phone: (713)296-3368

Email address: acovarrubias@marathonoil.com

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Extension:

Email address:

Attachments

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 3H	US Well Number 3002549530
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064746

Colossus_Fed_Com_18_19_3H_ST1_1_Inch_Mudlog_Final_20230622115539.pdf

Colossus_18_19_TB_Fed_Com_3H_Final_Surveys_ST01_20230622115624.pdf

Wellbore_Schematic_COLOSSUS_18_19_TB_FEDERAL_COM_003H_20230622115652.pdf

COLOSSUS_18_19_TB_FEDERAL_COM_3H_REV1_AS_DRILLED_PLAT_Signed_20230622115659.pdf

Appr_C102_Plat_COLOSSUS_18_19_TB_FED_COM_3H_Proposed_AAPD_20230622115921.pdf

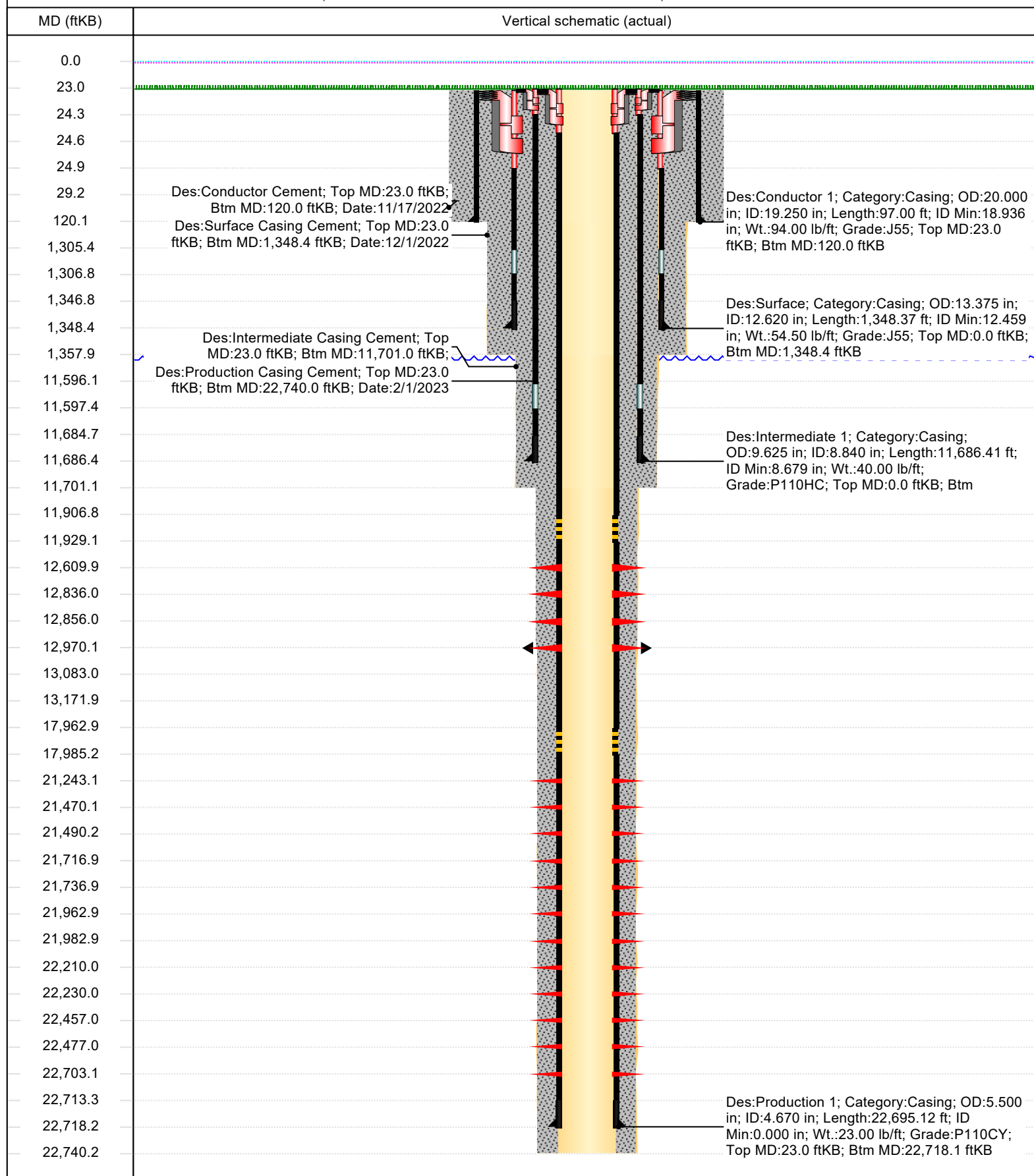


Wellbore Schematic

Well Name: COLOSSUS 18-19 TB FEDERAL COM 003H

State/Province NEW MEXICO	Country UNITED STATES	Field Name	Latitude (°) 32.04950884	Longitude (°) -103.40302429	North/South Distance (ft) 393.0	North/South Reference FNL
API/IPO UWI 3002549530	KB-Ground Distance (ft) 23.00	KB-Mud Line Distance (ft)	Ground Elevation (ft) 3,257.00	Drilling Rig Spud Date 11/30/2022	Well Original Completion Date 5/8/2023	Well First Production Date 5/12/2023

HORIZONTAL, COLOSSUS 18-19 TB FEDERAL COM 003H BP01, 6/22/2023 12:10:27 PM



COLOSSUS 18 19 TB FEDERAL COM 3H

API# 30-025-49530

Please note the following:

- The 3160-4 Completions Report submitted to the BLM has been attached to the C-104 Completions packet. Once the BLM has approved the 3160-4, it will be submitted to the NMOCD
- The following sundries have been submitted to the NMOCD and pending approvals:
 - Action ID 192438 - C-103N Sub. Drilling Sundry (BLM Approved 3160-5)
 - Action ID 220195 - C-104C Completions Packet - Test Allowable
 - Action ID 228764 - C-103T Sub Completions Sundry (BLM Approved 3160-5)

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 231816

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 231816
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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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 231816

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 231816
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	9/8/2023