

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 - 025-49529	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 2H

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		392	NORTH	1621	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
O	19	26S	35E		116	SOUTH	2265	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 11/27/2022	²² Ready Date 5/3/2023	²³ TD 22717'	²⁴ PBTB 22702'	²⁵ Perforations 13349' - 22687'	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	11509'	Lead: 1370 sacks, 4.71 yield, Class C Tail: 310 sacks, 1.39 yield, Class C		
8-3/4"	5-1/2", 23#, P110, TLW	22702'	Lead: 2245 sacks, 1.56 yield, Class H Tail: 2315 sacks, 1.39 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 919
³⁷ Choke Size 60	³⁸ Oil 1056	³⁹ Water 6072	⁴⁰ Gas 1687		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 Approved by: <i>PATRICIA MARTINEZ</i>		
Printed name: Adrian Covarrubias			Title: <i>PETROLEUM SPECIALIST</i>		
Title: Adv. Regulatory Compliance Representative			Approval Date: <i>9/13/2023</i>		
E-mail Address: acovarrubias@marathonoil.com					
Date:	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 30-025-49529		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 2H
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC			⁹ Elevation 3258'
¹⁰ Surface Location					
UL or lot no. B	Section 18	Township 26S	Range 35E	Lot Idn	Feet from the 392
				North/South line NORTH	Feet from the 1621
				East/West line EAST	County LEA
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. O	Section 19	Township 26S	Range 35E	Lot Idn	Feet from the 116
				North/South line SOUTH	Feet from the 2265
				East/West line EAST	County LEA
¹² Dedicated Acres 640.0		¹³ Joint or Infill		¹⁴ Consolidation Code	
				¹⁵ Order No. PLC-890; R-22344	

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'	
SURFACE HOLE LOCATION 392' FNL 1621' FEL, SECTION 18 0' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 829512.71' / Y: 382991.16' LAT: 32.04951029N / LON: 103.40321792W NAD 27, SPCS NM EAST X: 788324.85' / Y: 378293.75' LAT: 32.04938405N / LON: 103.40275612W		KICK OFF POINT 87' FNL 2339' FEL, SECTION 18 12072' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 828792.04' / Y: 383293.68' LAT: 32.05035874N / LON: 103.40553529W NAD 27, SPCS NM EAST X: 787604.20' / Y: 383236.27' LAT: 32.05023264N / LON: 103.40507337W	
FIRST TAKE POINT 1089' FNL 2301' FEL, SECTION 18 13349' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 828840.11' / Y: 382291.75' LAT: 32.0460379N / LON: 103.40540796W NAD 27, SPCS NM EAST X: 787652.22' / Y: 382234.37' LAT: 32.04747757N / LON: 103.4049939W		LAST TAKE POINT 145' FSL 2268' FEL, SECTION 19 22687' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 828966.24' / Y: 382960.81' LAT: 32.04760379N / LON: 103.40525966W NAD 27, SPCS NM EAST X: 787777.24' / Y: 372903.68' LAT: 32.02182718N / LON: 103.40479939W	
BOTTOM HOLE LOCATION 116' FSL 2265' FEL, SECTION 19 22717' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 828969.07' / Y: 372931.33' LAT: 32.02187157N / LON: 103.40524984W NAD 27, SPCS NM EAST X: 787780.77' / Y: 372874.21' LAT: 32.02174609N / LON: 103.40479107W			

NEAREST TO LEASE
 MD = 16101'
311'

FURTEST FROM LEASE
 MD = 22687'
375'
378'

SHL
2301'

LTP
2268'
2265'

BHL
116'
145'

KOP
300'

FTP
339'

1089'
87'
392'

2339'
1621'

2268'
2265'

375'
378'

145'
116'

SECTION 12
SECTION 13
SECTION 17
SECTION 18
SECTION 19
SECTION 20
SECTION 24
SECTION 25

T26S R34E
T26S R35E

N 25
N 30

SHEET 1 OF 1
JOB No. R4092_001
REV 1 GM 5/17/2023

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.

Adrian Covarrubias 6/15/2023
 Signature Date

Adrian Covarrubias
 Printed Name

E-mail Address

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.

MAY 31, 2023
 Date of Survey

Lloyd P. Short
 Signature and Seal of Professional Surveyor

Certificate Number
LLOYD P. SHORT 21653

Distances/areas relative to NAD 83 Combined Scale Factor: 0.9998058 Convergence Angle: 0.4930013

☐ Horizontal Spacing Unit



Marathon Oil

Lea County, New Mexico (NAD 27)

Colossus Pad

Colossus 18-19 TB Fed Com #2H

Wellbore #1

Design: Surveys

Standard Survey Report

18 February, 2023





MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #2H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3281.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3281.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	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 #2H		
Well Position	+N/-S	0.00 usft	Northing: 382,933.74 usft
	+E/-W	0.00 usft	Easting: 788,324.85 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.494 °	Ground Level:	3,258.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IFR	11/20/2022	6.286	59.601	47,342.90
	IFR	12/22/2022	6.278	59.598	47,334.10
	IFR	1/30/2023	6.269	59.595	47,323.30

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)	Direction (°)	
	0.00	0.00	0.00	179.45	

Survey Program		Date 2/18/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
224.00	22,717.00	MS MWD + FDIR (Wellbore #1)	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	1.58	33.65	223.97	2.57	1.71	-2.55	0.71	0.71	0.00
314.00	1.45	27.24	313.94	4.62	2.92	-4.59	0.24	-0.14	-7.12
401.00	1.36	27.24	400.91	6.51	3.90	-6.48	0.10	-0.10	0.00
497.00	1.23	31.10	496.89	8.41	4.95	-8.36	0.16	-0.14	4.02
589.00	1.41	15.63	588.87	10.34	5.77	-10.29	0.43	0.20	-16.82
681.00	0.79	319.47	680.85	11.92	5.66	-11.86	1.27	-0.67	-61.04
772.00	0.88	278.25	771.84	12.49	4.56	-12.45	0.65	0.10	-45.30


MS Directional
 Survey Report


Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #2H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3281.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3281.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	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)	
864.00	0.84	257.16	863.83	12.44	3.20	-12.41	0.34	-0.04	-22.92	
1,046.00	0.97	268.67	1,045.81	12.11	0.36	-12.11	0.12	0.07	6.32	
1,136.00	0.88	256.54	1,135.80	11.93	-1.07	-11.94	0.24	-0.10	-13.48	
1,226.00	0.92	269.64	1,225.79	11.77	-2.47	-11.79	0.23	0.04	14.56	
1,291.00	0.70	270.52	1,290.78	11.77	-3.39	-11.80	0.34	-0.34	1.35	
1,405.00	0.83	288.34	1,404.77	12.03	-4.87	-12.08	0.24	0.11	15.63	
1,500.00	1.76	283.47	1,499.74	12.59	-6.94	-12.66	0.98	0.98	-5.13	
1,596.00	2.55	305.16	1,595.68	14.16	-10.12	-14.26	1.17	0.82	22.59	
1,692.00	3.44	288.88	1,691.55	16.33	-14.59	-16.47	1.27	0.93	-16.96	
1,786.00	5.62	298.88	1,785.25	19.46	-21.29	-19.67	2.46	2.32	10.64	
1,883.00	6.15	297.86	1,881.74	24.18	-30.04	-24.47	0.56	0.55	-1.05	
1,979.00	6.01	298.01	1,977.20	28.95	-39.02	-29.32	0.15	-0.15	0.16	
2,075.00	6.83	293.02	2,072.60	33.54	-48.72	-34.01	1.03	0.85	-5.20	
2,172.00	7.02	291.96	2,168.89	38.01	-59.52	-38.58	0.24	0.20	-1.09	
2,267.00	7.09	293.77	2,263.17	42.55	-70.27	-43.22	0.25	0.07	1.91	
2,363.00	6.96	293.04	2,358.45	47.21	-81.05	-47.99	0.16	-0.14	-0.76	
2,460.00	6.73	292.37	2,454.76	51.67	-91.71	-52.55	0.25	-0.24	-0.69	
2,555.00	6.55	292.77	2,549.12	55.89	-101.85	-56.86	0.20	-0.19	0.42	
2,651.00	6.36	292.42	2,644.51	60.04	-111.82	-61.11	0.20	-0.20	-0.36	
2,745.00	7.16	293.46	2,737.86	64.35	-122.00	-65.52	0.86	0.85	1.11	
2,842.00	7.35	296.12	2,834.08	69.49	-133.12	-70.77	0.40	0.20	2.74	
2,938.00	7.06	297.28	2,929.32	74.90	-143.88	-76.28	0.34	-0.30	1.21	
3,033.00	6.72	297.18	3,023.64	80.11	-154.01	-81.59	0.36	-0.36	-0.11	
3,130.00	7.15	293.61	3,119.93	85.13	-164.59	-86.70	0.63	0.44	-3.68	
3,224.00	7.19	293.51	3,213.19	89.81	-175.35	-91.49	0.04	0.04	-0.11	
3,319.00	6.77	296.67	3,307.49	94.70	-185.80	-96.48	0.60	-0.44	3.33	
3,414.00	6.39	298.17	3,401.86	99.71	-195.47	-101.58	0.44	-0.40	1.58	
3,508.00	6.70	296.59	3,495.25	104.63	-204.98	-106.60	0.38	0.33	-1.68	
3,602.00	7.54	296.76	3,588.52	109.86	-215.39	-111.93	0.89	0.89	0.18	
3,697.00	7.03	298.36	3,682.76	115.43	-226.07	-117.60	0.58	-0.54	1.68	
3,792.00	6.73	300.71	3,777.07	121.04	-235.97	-123.30	0.43	-0.32	2.47	
3,887.00	7.61	296.99	3,871.33	126.73	-246.37	-129.09	1.05	0.93	-3.92	
3,982.00	8.10	297.02	3,965.44	132.63	-257.93	-135.10	0.52	0.52	0.03	
4,076.00	8.03	297.50	4,058.51	138.67	-269.66	-141.25	0.10	-0.07	0.51	
4,171.00	7.95	300.34	4,152.59	145.05	-281.21	-147.74	0.42	-0.08	2.99	
4,265.00	8.11	293.52	4,245.67	150.98	-292.90	-153.79	1.03	0.17	-7.26	
4,359.00	8.62	290.76	4,338.67	156.12	-305.57	-159.05	0.69	0.54	-2.94	
4,454.00	8.32	290.74	4,432.63	161.08	-318.65	-164.13	0.32	-0.32	-0.02	
4,548.00	8.11	290.08	4,525.66	165.77	-331.24	-168.94	0.24	-0.22	-0.70	
4,642.00	7.49	289.47	4,618.79	170.09	-343.25	-173.37	0.67	-0.66	-0.65	
4,736.00	6.59	287.82	4,712.09	173.78	-354.16	-177.17	0.98	-0.96	-1.76	
4,830.00	5.94	288.08	4,805.52	176.94	-363.92	-180.42	0.69	-0.69	0.28	
4,925.00	5.71	286.71	4,900.03	179.82	-373.11	-183.40	0.28	-0.24	-1.44	



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #2H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3281.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3281.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	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)	
5,020.00	5.75	289.18	4,994.56	182.75	-382.14	-186.41	0.26	0.04	2.60	
5,114.00	5.61	295.15	5,088.10	186.25	-390.74	-189.99	0.65	-0.15	6.35	
5,209.00	6.18	284.23	5,182.60	189.48	-399.90	-193.31	1.32	0.60	-11.49	
5,304.00	6.25	282.77	5,277.04	191.88	-409.90	-195.80	0.18	0.07	-1.54	
5,399.00	6.87	284.93	5,371.42	194.48	-420.44	-198.51	0.70	0.65	2.27	
5,494.00	7.08	284.31	5,465.71	197.39	-431.60	-201.53	0.23	0.22	-0.65	
5,588.00	6.72	284.03	5,559.03	200.16	-442.55	-204.40	0.38	-0.38	-0.30	
5,682.00	7.72	282.77	5,652.29	202.89	-454.04	-207.24	1.08	1.06	-1.34	
5,775.00	7.66	282.35	5,744.45	205.59	-466.19	-210.06	0.09	-0.06	-0.45	
5,869.00	7.48	291.28	5,837.63	209.15	-478.01	-213.73	1.26	-0.19	9.50	
5,964.00	7.33	299.54	5,931.84	214.39	-489.04	-219.07	1.13	-0.16	8.69	
6,059.00	7.32	296.95	6,026.07	220.12	-499.71	-224.90	0.35	-0.01	-2.73	
6,153.00	7.24	297.07	6,119.31	225.53	-510.32	-230.42	0.09	-0.09	0.13	
6,247.00	6.82	296.82	6,212.60	230.74	-520.58	-235.73	0.45	-0.45	-0.27	
6,342.00	6.46	295.72	6,306.97	235.61	-530.43	-240.69	0.40	-0.38	-1.16	
6,436.00	6.29	294.62	6,400.39	240.05	-539.87	-245.22	0.22	-0.18	-1.17	
6,530.00	6.14	293.30	6,493.83	244.18	-549.17	-249.44	0.22	-0.16	-1.40	
6,624.00	6.76	295.51	6,587.24	248.55	-558.78	-253.90	0.71	0.66	2.35	
6,719.00	6.74	291.94	6,681.58	253.04	-569.00	-258.49	0.44	-0.02	-3.76	
6,813.00	6.67	292.08	6,774.94	257.15	-579.17	-262.70	0.08	-0.07	0.15	
6,908.00	6.52	291.81	6,869.31	261.23	-589.29	-266.88	0.16	-0.16	-0.28	
7,002.00	6.33	291.30	6,962.72	265.10	-599.08	-270.84	0.21	-0.20	-0.54	
7,097.00	6.43	292.36	7,057.13	269.02	-608.88	-274.86	0.16	0.11	1.12	
7,192.00	6.21	290.39	7,151.55	272.84	-618.61	-278.76	0.33	-0.23	-2.07	
7,285.00	6.13	290.14	7,244.01	276.30	-627.99	-282.31	0.09	-0.09	-0.27	
7,380.00	5.98	292.81	7,338.48	279.96	-637.31	-286.07	0.34	-0.16	2.81	
7,475.00	5.59	286.53	7,433.00	283.20	-646.31	-289.39	0.78	-0.41	-6.61	
7,569.00	5.29	280.88	7,526.58	285.32	-654.95	-291.59	0.65	-0.32	-6.01	
7,664.00	4.31	286.14	7,621.24	287.14	-662.68	-293.49	1.13	-1.03	5.54	
7,759.00	3.91	285.37	7,716.00	288.99	-669.24	-295.40	0.43	-0.42	-0.81	
7,853.00	3.74	269.67	7,809.79	289.82	-675.39	-296.29	1.13	-0.18	-16.70	
7,948.00	1.73	262.45	7,904.68	289.61	-679.91	-296.13	2.14	-2.12	-7.60	
8,043.00	0.71	230.48	7,999.66	289.05	-681.79	-295.58	1.25	-1.07	-33.65	
8,138.00	0.99	239.58	8,094.65	288.26	-682.95	-294.80	0.33	0.29	9.58	
8,232.00	1.00	252.48	8,188.63	287.60	-684.43	-294.16	0.24	0.01	13.72	
8,327.00	0.82	236.25	8,283.62	286.98	-685.79	-293.55	0.33	-0.19	-17.08	
8,420.00	1.02	245.11	8,376.61	286.26	-687.09	-292.84	0.26	0.22	9.53	
8,515.00	0.81	233.00	8,471.60	285.50	-688.40	-292.09	0.30	-0.22	-12.75	
8,609.00	0.81	232.18	8,565.59	284.69	-689.45	-291.30	0.01	0.00	-0.87	
8,704.00	0.76	241.98	8,660.58	283.98	-690.54	-290.60	0.15	-0.05	10.32	
8,799.00	0.95	264.26	8,755.57	283.61	-691.88	-290.24	0.40	0.20	23.45	
8,893.00	0.76	261.13	8,849.56	283.43	-693.27	-290.08	0.21	-0.20	-3.33	
8,987.00	0.81	253.44	8,943.55	283.15	-694.52	-289.80	0.12	0.05	-8.18	
9,081.00	1.01	257.96	9,037.54	282.79	-695.97	-289.45	0.23	0.21	4.81	



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #2H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3281.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3281.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	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)
9,175.00	0.99	272.39	9,131.52	282.65	-697.59	-289.33	0.27	-0.02	15.35
9,270.00	1.28	266.62	9,226.51	282.62	-699.47	-289.32	0.33	0.31	-6.07
9,365.00	1.16	265.97	9,321.48	282.49	-701.49	-289.21	0.13	-0.13	-0.68
9,460.00	1.35	280.86	9,416.46	282.63	-703.55	-289.37	0.40	0.20	15.67
9,555.00	1.40	295.40	9,511.43	283.34	-705.69	-290.10	0.37	0.05	15.31
9,650.00	1.29	291.27	9,606.41	284.23	-707.74	-291.01	0.15	-0.12	-4.35
9,745.00	1.62	306.20	9,701.38	285.41	-709.82	-292.21	0.53	0.35	15.72
9,839.00	1.55	299.50	9,795.34	286.82	-712.00	-293.64	0.21	-0.07	-7.13
9,933.00	1.70	299.79	9,889.30	288.14	-714.31	-294.98	0.16	0.16	0.31
10,027.00	1.36	295.42	9,983.27	289.31	-716.53	-296.17	0.38	-0.36	-4.65
10,122.00	1.08	315.87	10,078.25	290.44	-718.17	-297.32	0.54	-0.29	21.53
10,216.00	1.44	305.11	10,172.23	291.75	-719.76	-298.65	0.46	0.38	-11.45
10,311.00	1.30	318.34	10,267.20	293.24	-721.45	-300.15	0.36	-0.15	13.93
10,406.00	1.56	308.16	10,362.17	294.85	-723.18	-301.77	0.38	0.27	-10.72
10,501.00	0.73	301.84	10,457.15	295.96	-724.71	-302.91	0.88	-0.87	-6.65
10,595.00	0.79	315.52	10,551.14	296.74	-725.68	-303.70	0.20	0.06	14.55
10,690.00	0.15	331.28	10,646.14	297.32	-726.20	-304.28	0.68	-0.67	16.59
10,785.00	0.58	61.60	10,741.14	297.66	-725.83	-304.61	0.63	0.45	95.07
10,879.00	1.20	93.03	10,835.13	297.83	-724.43	-304.77	0.82	0.66	33.44
10,973.00	1.07	99.00	10,929.11	297.64	-722.58	-304.56	0.19	-0.14	6.35
11,067.00	0.79	79.30	11,023.09	297.63	-721.08	-304.53	0.45	-0.30	-20.96
11,161.00	0.88	92.59	11,117.08	297.71	-719.72	-304.61	0.23	0.10	14.14
11,255.00	1.06	71.31	11,211.07	297.96	-718.17	-304.84	0.42	0.19	-22.64
11,350.00	1.36	54.58	11,306.05	298.89	-716.42	-305.76	0.48	0.32	-17.61
11,444.00	0.47	74.98	11,400.04	299.64	-715.14	-306.49	0.99	-0.95	21.70
11,456.00	0.51	56.81	11,412.04	299.68	-715.05	-306.53	1.33	0.33	-151.42
11,598.00	1.04	180.14	11,554.03	298.74	-714.52	-305.58	0.98	0.37	86.85
11,693.00	0.54	260.91	11,649.02	297.81	-714.97	-304.66	1.15	-0.53	85.02
11,788.00	0.71	35.98	11,744.02	298.21	-715.06	-305.06	1.22	0.18	142.18
11,882.00	1.79	307.15	11,838.00	299.57	-715.89	-306.43	2.03	1.15	-94.50
11,977.00	2.20	313.88	11,932.94	301.73	-718.39	-308.61	0.50	0.43	7.08
11,985.00	2.31	313.08	11,940.94	301.95	-718.62	-308.83	1.43	1.38	-10.00
12,072.00	1.30	230.94	12,027.91	302.52	-720.67	-309.43	2.86	-1.16	-94.41
12,167.00	10.16	203.13	12,122.34	294.12	-724.80	-301.06	9.51	9.33	-29.27
12,261.00	21.70	180.78	12,212.66	269.01	-728.31	-275.99	13.69	12.28	-23.78
12,356.00	35.72	178.44	12,295.77	223.50	-727.79	-230.48	14.80	14.76	-2.46
12,451.00	48.08	172.06	12,366.38	160.50	-722.13	-167.43	13.75	13.01	-6.72
12,546.00	56.53	174.46	12,424.42	85.92	-713.41	-92.76	9.12	8.89	2.53
12,641.00	66.17	179.62	12,469.94	2.79	-709.28	-9.60	11.21	10.15	5.43
12,736.00	79.76	176.67	12,497.71	-87.77	-706.26	80.98	14.61	14.31	-3.11
12,768.00	85.47	177.16	12,501.82	-119.44	-704.56	112.67	17.91	17.84	1.53
12,863.00	90.37	177.61	12,505.27	-214.25	-700.23	207.52	5.18	5.16	0.47
12,958.00	89.08	176.47	12,505.72	-309.12	-695.32	302.43	1.81	-1.36	-1.20



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #2H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3281.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3281.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	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)
13,053.00	89.58	175.62	12,506.83	-403.89	-688.77	397.26	1.04	0.53	-0.89
13,147.00	88.84	177.17	12,508.13	-497.69	-682.86	491.11	1.83	-0.79	1.65
13,242.00	87.91	176.99	12,510.82	-592.52	-678.02	585.99	1.00	-0.98	-0.19
13,336.00	88.66	177.08	12,513.64	-686.36	-673.16	679.86	0.80	0.80	0.10
13,430.00	91.82	178.40	12,513.24	-780.27	-669.46	773.81	3.64	3.36	1.40
13,525.00	92.04	178.75	12,510.04	-875.18	-667.09	868.74	0.43	0.23	0.37
13,619.00	91.96	176.99	12,506.76	-969.06	-663.60	962.64	1.87	-0.09	-1.87
13,713.00	87.38	174.53	12,507.30	-1,062.77	-656.66	1,056.42	5.53	-4.87	-2.62
13,807.00	91.43	178.84	12,508.28	-1,156.56	-651.22	1,150.26	6.29	4.31	4.59
13,902.00	89.80	177.88	12,507.26	-1,251.52	-648.51	1,245.23	1.99	-1.72	-1.01
13,996.00	91.52	177.44	12,506.18	-1,345.43	-644.67	1,339.18	1.89	1.83	-0.47
14,091.00	91.30	179.73	12,503.84	-1,440.36	-642.32	1,434.13	2.42	-0.23	2.41
14,185.00	90.15	181.22	12,502.65	-1,534.35	-643.10	1,528.10	2.00	-1.22	1.59
14,280.00	89.93	180.68	12,502.58	-1,629.33	-644.68	1,623.07	0.61	-0.23	-0.57
14,375.00	89.54	180.68	12,503.02	-1,724.33	-645.81	1,718.05	0.41	-0.41	0.00
14,469.00	88.66	180.15	12,504.50	-1,818.31	-646.49	1,812.02	1.09	-0.94	-0.56
14,562.00	86.99	179.80	12,508.03	-1,911.24	-646.45	1,904.95	1.83	-1.80	-0.38
14,657.00	89.36	180.24	12,511.05	-2,006.19	-646.48	1,999.89	2.54	2.49	0.46
14,751.00	89.23	179.63	12,512.21	-2,100.18	-646.37	2,093.88	0.66	-0.14	-0.65
14,845.00	90.37	179.28	12,512.54	-2,194.17	-645.48	2,187.87	1.27	1.21	-0.37
14,939.00	89.63	179.63	12,512.54	-2,288.17	-644.58	2,281.87	0.87	-0.79	0.37
15,033.00	91.08	180.15	12,511.96	-2,382.16	-644.40	2,375.87	1.64	1.54	0.55
15,126.00	88.09	180.51	12,512.63	-2,475.15	-644.94	2,468.84	3.24	-3.22	0.39
15,221.00	90.11	180.68	12,514.12	-2,570.12	-645.93	2,563.81	2.13	2.13	0.18
15,315.00	91.16	181.30	12,513.08	-2,664.10	-647.55	2,657.76	1.30	1.12	0.66
15,410.00	90.95	182.79	12,511.33	-2,759.02	-650.94	2,752.65	1.58	-0.22	1.57
15,504.00	89.63	183.32	12,510.86	-2,852.89	-655.95	2,846.46	1.51	-1.40	0.56
15,599.00	88.92	183.58	12,512.06	-2,947.71	-661.66	2,941.22	0.80	-0.75	0.27
15,694.00	90.90	184.20	12,512.21	-3,042.48	-668.11	3,035.93	2.18	2.08	0.65
15,788.00	90.77	181.91	12,510.84	-3,136.33	-673.12	3,129.73	2.44	-0.14	-2.44
15,912.00	90.44	180.45	12,509.53	-3,260.30	-675.67	3,253.66	1.21	-0.27	-1.18
16,006.00	90.31	179.84	12,508.91	-3,354.29	-675.91	3,347.65	0.66	-0.14	-0.65
16,101.00	89.38	179.67	12,509.17	-3,449.29	-675.50	3,442.65	1.00	-0.98	-0.18
16,196.00	90.48	177.70	12,509.29	-3,544.26	-673.32	3,537.63	2.38	1.16	-2.07
16,290.00	88.24	177.05	12,510.34	-3,638.15	-669.02	3,631.56	2.48	-2.38	-0.69
16,384.00	88.24	177.87	12,513.22	-3,732.01	-664.85	3,725.46	0.87	0.00	0.87
16,478.00	88.77	178.69	12,515.67	-3,825.94	-662.03	3,819.40	1.04	0.56	0.87
16,573.00	88.28	177.33	12,518.12	-3,920.84	-658.74	3,914.34	1.52	-0.52	-1.43
16,667.00	89.73	178.70	12,519.75	-4,014.77	-655.48	4,008.29	2.12	1.54	1.46
16,761.00	90.70	178.23	12,519.40	-4,108.73	-652.96	4,102.28	1.15	1.03	-0.50
16,856.00	89.29	176.59	12,519.41	-4,203.63	-648.67	4,197.21	2.28	-1.48	-1.73
16,951.00	89.43	177.04	12,520.47	-4,298.48	-643.39	4,292.10	0.50	0.15	0.47
17,045.00	89.34	177.50	12,521.48	-4,392.37	-638.92	4,386.03	0.50	-0.10	0.49



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #2H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3281.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3281.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	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)
17,139.00	89.73	177.50	12,522.24	-4,486.27	-634.82	4,479.97	0.41	0.41	0.00
17,233.00	89.65	177.29	12,522.75	-4,580.17	-630.54	4,573.91	0.24	-0.09	-0.22
17,328.00	88.90	178.44	12,523.95	-4,675.10	-627.01	4,668.86	1.45	-0.79	1.21
17,422.00	90.39	179.46	12,524.53	-4,769.08	-625.28	4,762.85	1.92	1.59	1.09
17,517.00	89.65	179.95	12,524.50	-4,864.07	-624.79	4,857.85	0.93	-0.78	0.52
17,612.00	89.60	180.19	12,525.12	-4,959.07	-624.91	4,952.85	0.26	-0.05	0.25
17,706.00	89.47	180.03	12,525.89	-5,053.07	-625.09	5,046.84	0.22	-0.14	-0.17
17,800.00	89.38	179.27	12,526.83	-5,147.06	-624.52	5,140.83	0.81	-0.10	-0.81
17,895.00	89.56	179.56	12,527.71	-5,242.05	-623.55	5,235.83	0.36	0.19	0.31
17,990.00	89.47	179.94	12,528.51	-5,337.05	-623.13	5,330.82	0.41	-0.09	0.40
18,084.00	88.42	178.84	12,530.24	-5,431.02	-622.13	5,424.80	1.62	-1.12	-1.17
18,179.00	89.69	180.17	12,531.81	-5,526.00	-621.31	5,519.78	1.94	1.34	1.40
18,274.00	88.99	180.14	12,532.90	-5,621.00	-621.57	5,614.77	0.74	-0.74	-0.03
18,368.00	88.90	180.38	12,534.63	-5,714.98	-621.99	5,708.75	0.27	-0.10	0.26
18,463.00	90.35	181.42	12,535.26	-5,809.96	-623.49	5,803.71	1.88	1.53	1.09
18,558.00	88.82	181.13	12,535.94	-5,904.93	-625.60	5,898.66	1.64	-1.61	-0.31
18,653.00	88.34	181.89	12,538.30	-5,999.87	-628.10	5,993.56	0.95	-0.51	0.80
18,748.00	89.61	183.08	12,540.00	-6,094.76	-632.22	6,088.41	1.83	1.34	1.25
18,842.00	89.57	182.49	12,540.67	-6,188.65	-636.79	6,182.25	0.63	-0.04	-0.63
18,937.00	89.22	182.42	12,541.67	-6,283.55	-640.86	6,277.11	0.38	-0.37	-0.07
19,031.00	89.84	177.28	12,542.45	-6,377.52	-640.61	6,371.08	5.51	0.66	-5.47
19,126.00	90.01	173.85	12,542.57	-6,472.22	-633.27	6,465.84	3.61	0.18	-3.61
19,221.00	89.84	175.68	12,542.69	-6,566.82	-624.60	6,560.52	1.93	-0.18	1.93
19,315.00	89.53	177.76	12,543.21	-6,660.66	-619.22	6,654.41	2.24	-0.33	2.21
19,410.00	89.22	178.70	12,544.25	-6,755.61	-616.29	6,749.38	1.04	-0.33	0.99
19,505.00	88.43	179.33	12,546.20	-6,850.57	-614.65	6,844.36	1.06	-0.83	0.66
19,600.00	90.01	179.32	12,547.49	-6,945.55	-613.53	6,939.34	1.66	1.66	-0.01
19,694.00	90.45	181.65	12,547.11	-7,039.54	-614.33	7,033.32	2.52	0.47	2.48
19,789.00	90.98	182.30	12,545.93	-7,134.48	-617.60	7,128.22	0.88	0.56	0.68
19,883.00	89.81	180.02	12,545.28	-7,228.45	-619.51	7,222.17	2.73	-1.24	-2.43
19,978.00	91.21	181.18	12,544.43	-7,323.44	-620.50	7,317.14	1.91	1.47	1.22
20,072.00	90.87	179.76	12,542.73	-7,417.41	-621.27	7,411.11	1.55	-0.36	-1.51
20,167.00	90.25	179.13	12,541.80	-7,512.40	-620.35	7,506.10	0.93	-0.65	-0.66
20,261.00	89.14	177.86	12,542.30	-7,606.37	-617.88	7,600.09	1.79	-1.18	-1.35
20,356.00	89.23	179.14	12,543.65	-7,701.32	-615.40	7,695.06	1.35	0.09	1.35
20,450.00	89.13	179.11	12,544.99	-7,795.30	-613.96	7,789.05	0.11	-0.11	-0.03
20,545.00	89.31	179.94	12,546.29	-7,890.29	-613.17	7,884.04	0.89	0.19	0.87
20,639.00	89.15	178.82	12,547.55	-7,984.27	-612.16	7,978.03	1.20	-0.17	-1.19
20,733.00	89.02	178.35	12,549.05	-8,078.23	-609.84	8,072.01	0.52	-0.14	-0.50
20,828.00	89.42	179.30	12,550.35	-8,173.20	-607.89	8,166.99	1.08	0.42	1.00
20,923.00	89.55	179.51	12,551.20	-8,268.19	-606.90	8,261.99	0.26	0.14	0.22
21,017.00	89.55	180.53	12,551.94	-8,362.19	-606.93	8,355.98	1.09	0.00	1.09
21,111.00	89.42	180.94	12,552.78	-8,456.18	-608.14	8,449.95	0.46	-0.14	0.44
21,205.00	89.24	180.76	12,553.88	-8,550.16	-609.53	8,543.92	0.27	-0.19	-0.19



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 TB Fed Com #2H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	Well @ 3281.50usft (Cactus 171)
Site:	Colossus Pad	MD Reference:	Well @ 3281.50usft (Cactus 171)
Well:	Colossus 18-19 TB Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	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)
21,300.00	89.68	180.41	12,554.78	-8,645.15	-610.50	8,638.89	0.59	0.46	-0.37
21,394.00	89.90	177.91	12,555.12	-8,739.13	-609.13	8,732.88	2.67	0.23	-2.66
21,489.00	90.21	177.30	12,555.03	-8,834.05	-605.16	8,827.83	0.72	0.33	-0.64
21,584.00	90.08	175.49	12,554.79	-8,928.86	-599.18	8,922.70	1.91	-0.14	-1.91
21,678.00	90.03	174.89	12,554.70	-9,022.53	-591.30	9,016.43	0.64	-0.05	-0.64
21,772.00	89.06	174.66	12,555.45	-9,116.13	-582.74	9,110.12	1.06	-1.03	-0.24
21,867.00	89.86	176.22	12,556.34	-9,210.82	-575.19	9,204.88	1.85	0.84	1.64
21,961.00	92.23	179.03	12,554.63	-9,304.71	-571.29	9,298.80	3.91	2.52	2.99
22,056.00	90.91	177.47	12,552.02	-9,399.63	-568.39	9,393.74	2.15	-1.39	-1.64
22,151.00	89.15	178.66	12,551.97	-9,494.57	-565.19	9,488.70	2.24	-1.85	1.25
22,245.00	89.59	178.63	12,553.01	-9,588.53	-562.96	9,582.69	0.47	0.47	-0.03
22,340.00	90.38	178.70	12,553.03	-9,683.51	-560.75	9,677.68	0.83	0.83	0.07
22,435.00	89.33	179.85	12,553.27	-9,778.50	-559.55	9,772.67	1.64	-1.11	1.21
22,529.00	88.45	177.98	12,555.09	-9,872.46	-557.77	9,866.65	2.20	-0.94	-1.99
22,624.00	91.09	175.91	12,555.48	-9,967.31	-552.71	9,961.54	3.53	2.78	-2.18
22,684.00	87.83	173.68	12,556.04	-10,027.05	-547.27	10,021.33	6.58	-5.43	-3.72
22,717.00	87.83	173.68	12,557.29	-10,059.82	-543.64	10,054.14	0.00	0.00	0.00
Projection to TD-22717.00' MD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
22,717.00	12,557.29	-10,059.82	-543.64	Projection to TD-22717.00' 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 2H	US Well Number 3002549529
	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 10400064744

Section 1 - General

Well Completion Report Id: 88447**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:** 11-27-2022**Date Total Measured Depth Reached:** 02-14-2023**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		-2183	5414	5441	NONE	
DELAWARE	SANDSTONE, SHALE		-2207	5465	5493	OIL	

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 2H	US Well Number 3002549529
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Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064744

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
CHERRY CANYON	SANDSTONE, SHALE		-3187	6445	6481	OIL	
BRUSHY CANYON	SANDSTONE, SHALE		-4771	8029	8073	OIL	
BONE SPRINGS	OTHER, SANDSTONE	Carbonates	-6064	9322	9365	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	NMNM104706	NMNM104706	NEW		POW	05-12-2023	05-11-2023	BONE SPRING	13349	22687	Y	.41	912	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	563082	23602363	

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 2H	US Well Number 3002549529
	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 10400064744

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	1056	1687	6072	1597	60/64		919

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 2H	US Well Number 3002549529
	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 10400064744

	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	Direction
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0495103	-103.4032179	3258	N/A	N/A	FEDERAL	NMNM104706				392	FNL	1621	FEL	26S	35E	18	NW
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0503587	-103.4055353	-8770	12072	12028	FEDERAL	NMNM104706				87	FNL	2339	FEL	26S	35E	18	NW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0360668	-103.4053694	-9267	17549	12525	FEE	FEE				0	FNL	2295	FEL	26S	35E	19	NW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0433278	-103.4053613	-9255	14906	12513	FEDERAL	NMNM104706				2644	FNL	2289	FEL	26S	35E	18	NW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0460379	-103.4054079	-9256	13349	12514	FEDERAL	NMNM104706				1089	FNL	2301	FEL	26S	35E	18	NW
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0476038	-103.4052597	-9298	22687	12556	FEE	FEE				145	FSL	2268	FEL	26S	35E	19	SW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0218716	-103.4052498	-9299	22717	12557	FEE	FEE				116	FSL	2265	FEL	26S	35E	19	SW

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 2H	US Well Number 3002549529
	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 10400064744

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	11509	9.625	40	P-110		BUTT		
00	PRODUCTION	8.75	0	22702	5.5	23	P-110		BUTT		

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	1370	4.71	2000	CLASS C	310	1.39	11519	1226
00	PRODUCTION		Class H	2245	1.56	0	CLASS H	2315	1.39	11009	1196.8

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
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Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 TB FED COM	Well Number 2H	US Well Number 3002549529
	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 10400064744

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 2H	US Well Number 3002549529
	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 10400064744

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Wellbore_Schematic___COLOSSUS_18_19_TB_FEDERAL_COM_2H_20230622080830.pdf

COLOSSUS_18_19_TB_FEDERAL_COM_2H_REV1_AS_DRILLED_PLAT___Signed_20230622080841.pdf

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Appr_C102_Plat_COLOSSUS_18_19_TB_FED_COM_2H_PROPOSED_AAPD_20230622081753.pdf

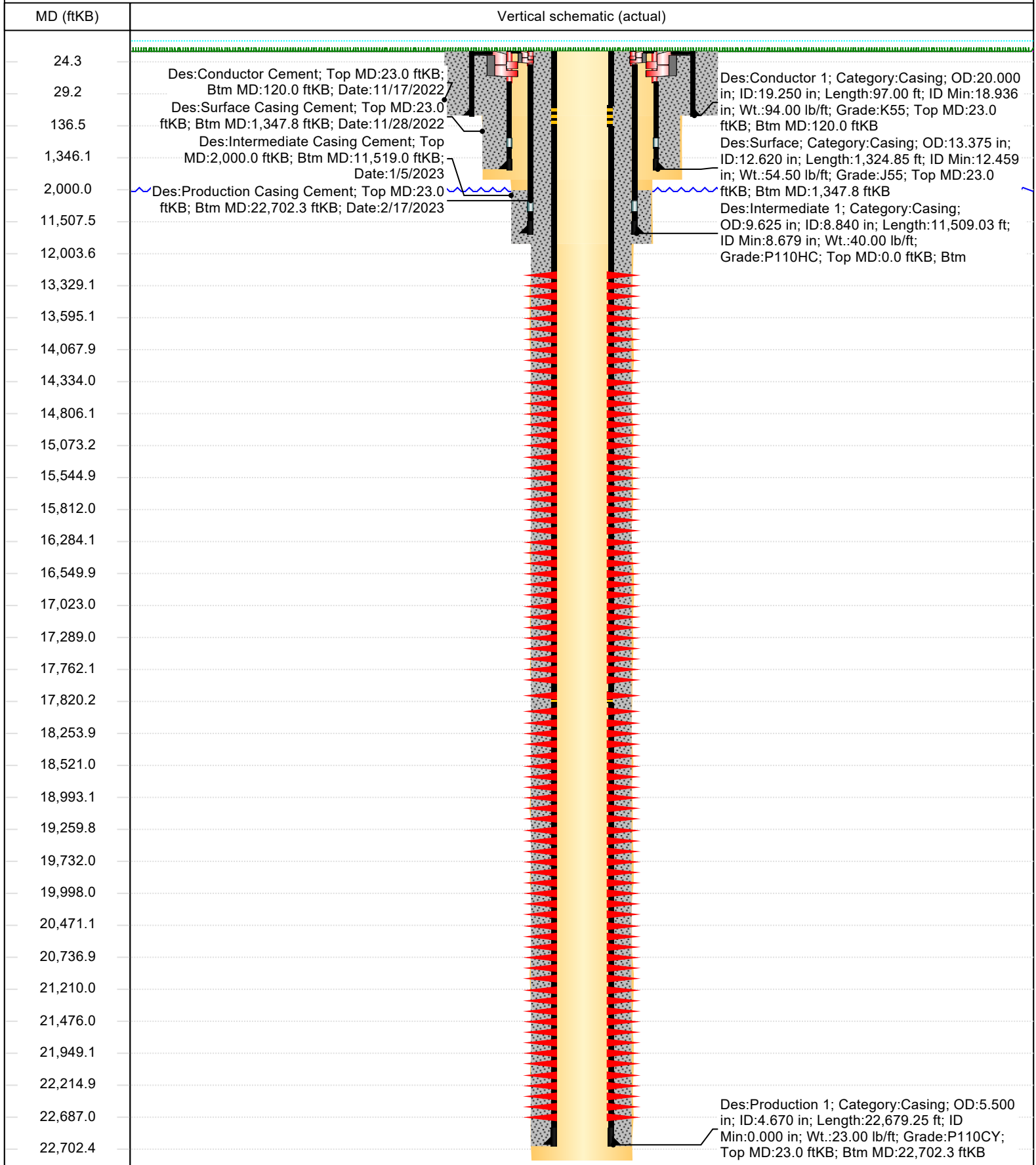


Wellbore Schematic

Well Name: COLOSSUS 18-19 TB FEDERAL COM 002H

State/Province NEW MEXICO	Country UNITED STATES	Field Name	Latitude (°) 32.04938410	Longitude (°) -103.40275610	North/South Distance (ft) 392.0	North/South Reference FNL
API/IPO UWI 3002549529	KB-Ground Distance (ft) 23.00	KB-Mud Line Distance (ft)	Ground Elevation (ft) 3,258.00	Drilling Rig Spud Date 11/27/2022	Well Original Completion Date 6/8/2023	Well First Production Date 5/12/2023

HORIZONTAL, COLOSSUS 18-19 TB FEDERAL COM 002H, 6/22/2023 9:05:31 AM



COLOSSUS 18 19 TB FEDERAL COM 2H

API# 30-025-49529

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 197178 - C-103N Sub. Drilling Sundry (BLM Approved 3160-5)
 - Action ID 220213 - C-104C Completions Packet - Test Allowable
 - Action ID 228771 - 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 231735

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 231735
	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
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Phone:(505) 334-6178 Fax:(505) 334-6170
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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 231735

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 231735
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	9/13/2023