

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 - 025-49531	⁵ Pool Name Jabalina; Wolfcamp, Southwest	⁶ Pool Code 96776
⁷ Property Code 331689	⁸ Property Name Colossus 18 19 WA Federal Com	⁹ Well Number 1H

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	1591	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		100	SOUTH	1427	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 11/28/2022	²² Ready Date 5/3/2023	²³ TD 22903'	²⁴ PBTB 22886'	²⁵ Perforations 12760' - 22876'	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	11604'	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	22891'	Lead: 2850 sacks, 1.36 yield, Class H Tail: 2500 sacks, 1.27 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 251
³⁷ Choke Size 44/64	³⁸ Oil 792	³⁹ Water 2184	⁴⁰ Gas 940		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: 8/16/2024		
Date: 6/21/2023		Phone: 713-296-3368			



Marathon Oil
Corporation.

Company: Marathon Oil
Well: Colossus 18-19 WA Fed Com #1H
County: Lea County, New Mexico (NAD 27)
Rig: Cactus 171
Wellbore: Wellbore #1
Design: Design #7
Date: 12:20, March 10 2023

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: Colossus 18-19 WA Fed Com #1H

+N/-S	+E/-W	GL @ 3258.00	Well @ 3281.50usft (Cactus 171)	Latitude	Longitude
0.00	0.00	Northing 382933.73	Easting 788354.84	32° 2' 57.780 N	103° 24' 9.574 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
20236.00	90.35	178.78	12736.59	-7405.90	193.18	0.00	0.000	7407.46	Last Survey - 20236.00' MD
20295.00	90.35	178.78	12736.23	-7464.89	194.44	0.00	0.000	7466.45	PTB; Begin 2.00°/100' Drop & Turn
20497.31	90.27	174.73	12735.13	-7666.82	205.88	2.00	-91.068	7668.49	Continue 2.00°/100' Drop & Turn
20736.11	89.40	179.43	12735.81	-7905.24	218.03	2.00	100.543	7907.02	Hold 89.40° Inc; 179.43° Azm
22902.15	89.40	179.43	12758.49	-10071.06	239.58	0.00	0.000	10072.94	PBHL

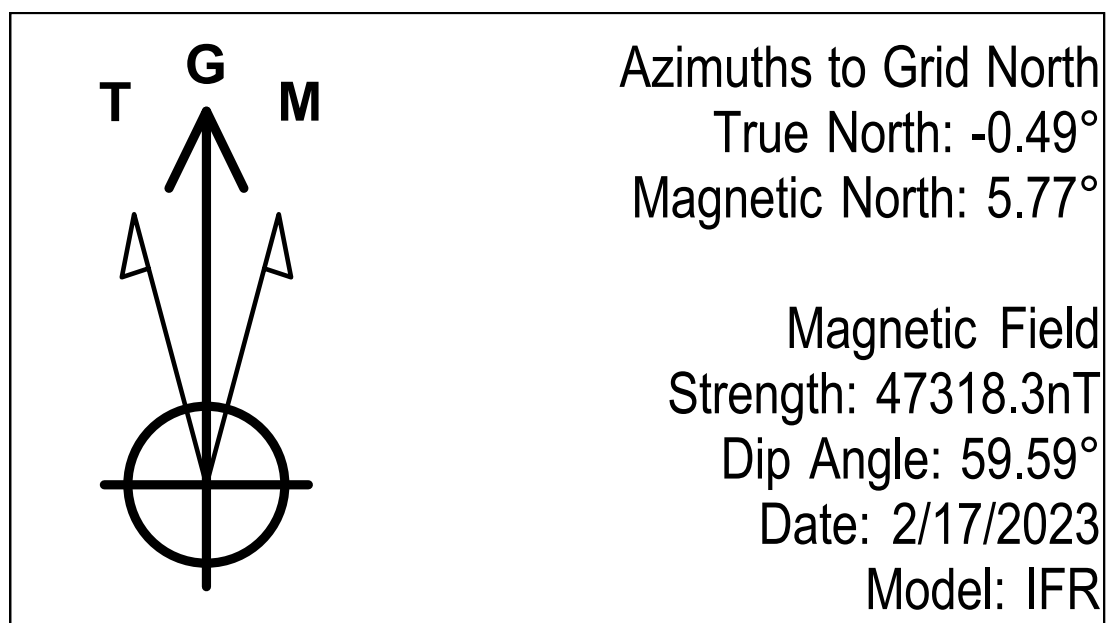
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
50' L/R Drill Window_C. 18-19 WA Fed Com #1H	12750.49	-5172.01	190.62	377761.72	788545.46	32° 2' 6.585 N	103° 24' 7.877 W
KOP_C. 18-19 WA Fed Com #1H	12233.97	304.29	81.94	383238.02	788436.78	32° 3' 0.784 N	103° 24' 8.591 W
LTP/PBHL v7_C. 18-19 WA Fed Com #1H	12758.49	-10071.06	239.58	372862.67	788594.42	32° 1' 18.103 N	103° 24' 7.799 W

SURVEY PROGRAM

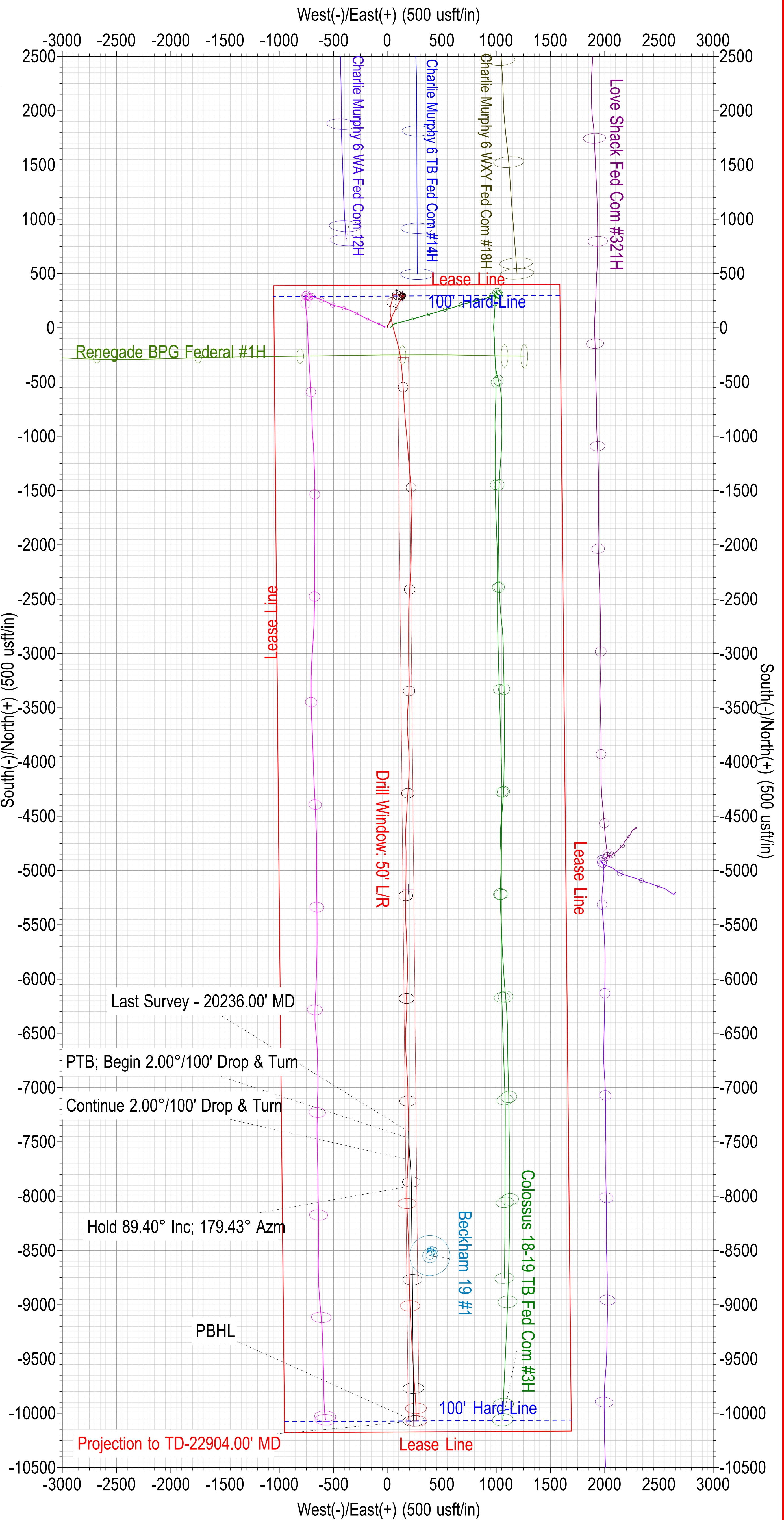
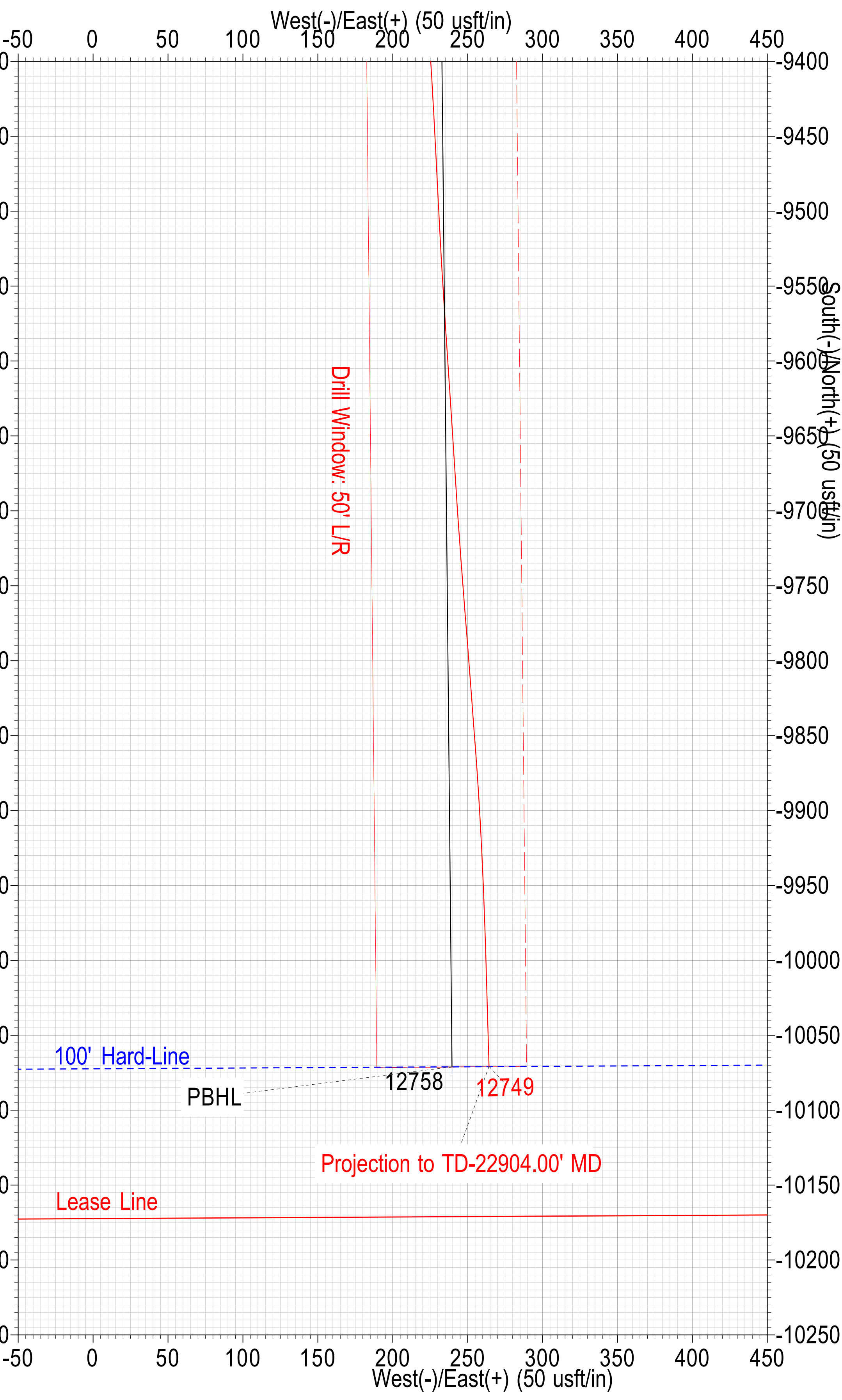
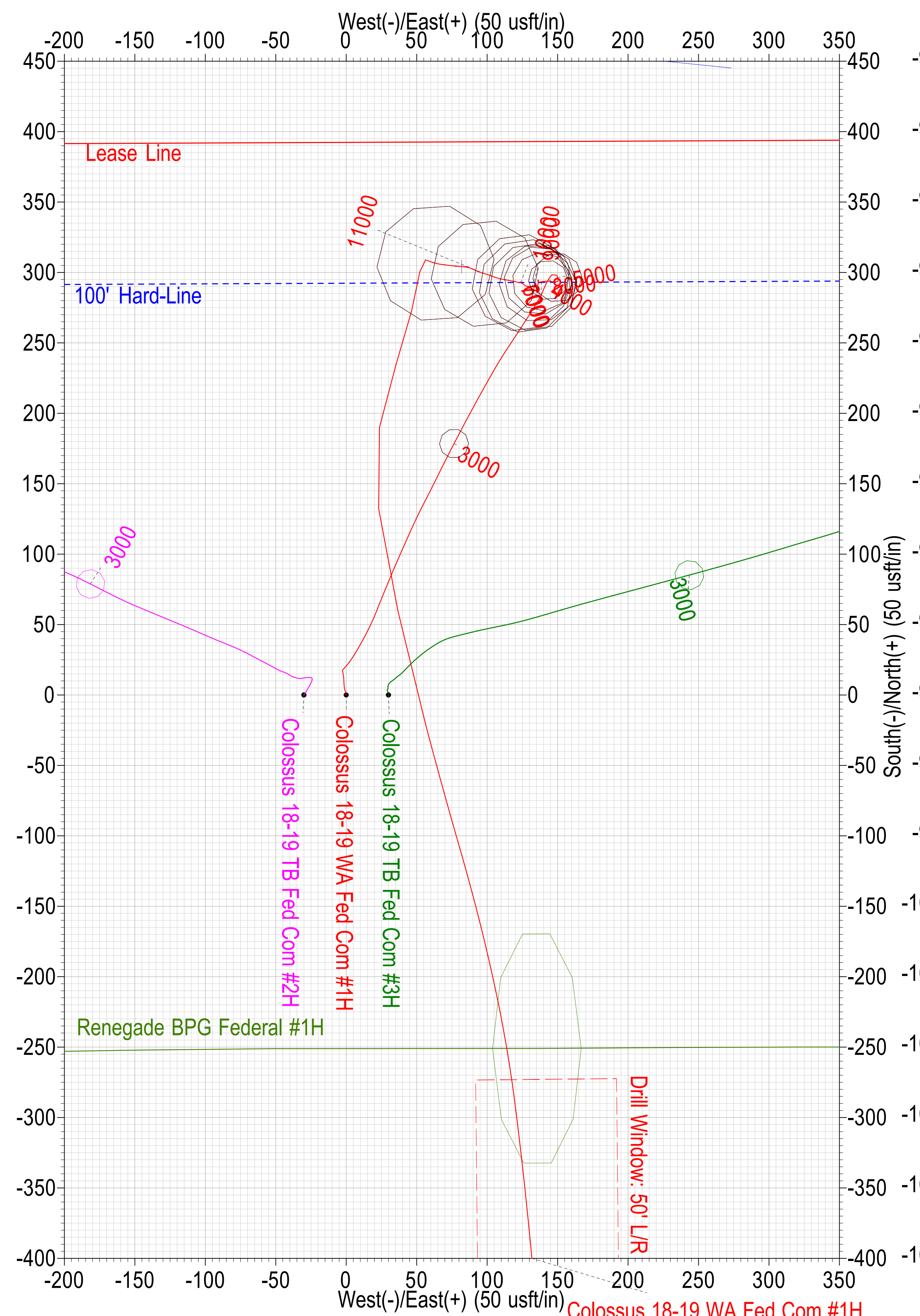
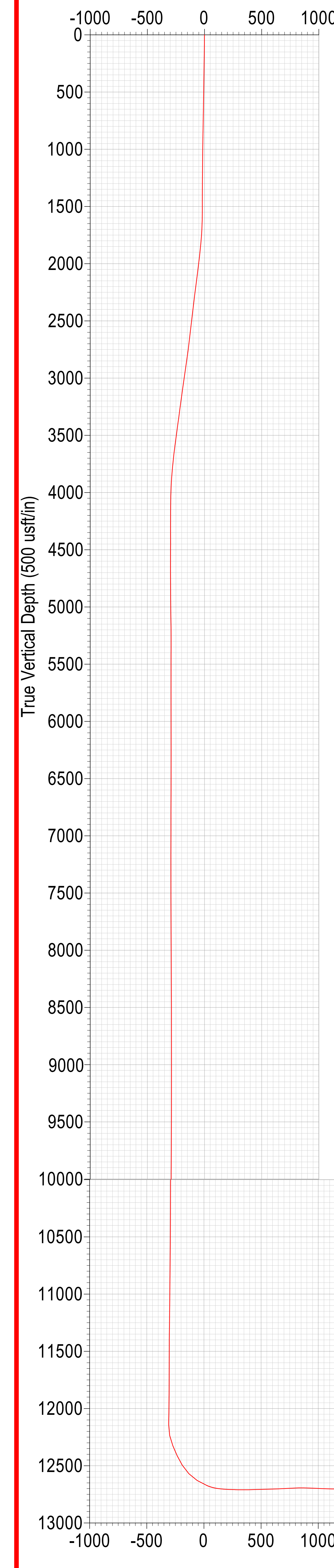
Depth From	Depth To	Survey/Plan	Tool
224.00	20236.00	MS MWD + FDIR (Wellbore #1)	MWD+IFR1+FDIR
20236.00	22902.15	Design #7 (Wellbore #1)	MWD+IFR1+FDIR



To convert a Magnetic Direction to a Grid Direction, Add 5.771°
To convert a Magnetic Direction to a True Direction, Add 6.265° East
To convert a True Direction to a Grid Direction, Subtract 0.494°



Target Line: 12,653 TVD @ 0° VS; 89.40° INC; 10' U/10' D



Continue 2.00°/100' Drop & Turn

PTB; Begin 2.00°/100' Drop & Turn

Last Survey - 20236.00' MD

Hold 89.40° Inc; 179.43° Azm

PBHL

Projection to TD-22904.00' MD



Marathon Oil

Lea County, New Mexico (NAD 27)

Colossus Pad

Colossus 18-19 WA Fed Com #1H

Wellbore #1

Design: Surveys

Standard Survey Report

10 March, 2023





MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 WA Fed Com #1H
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 WA Fed Com #1H	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 WA Fed Com #1H		
Well Position	+N/-S	0.00 usft	Northing: 382,933.73 usft
	+E/-W	0.00 usft	Easting: 788,354.84 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 (°)
	IFR	11/20/2022	6.286
	IFR	2/17/2023	6.265
			Dip Angle (°)
			59.601
			59.593
			Field Strength (nT)
			47,342.90
			47,318.30

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)
	0.00	0.00	0.00
			Direction (°)
			179.43

Survey Program	Date 3/10/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
224.00	22,904.00	MS MWD + FDIR (Wellbore #1)	MWD+IFR1+FDIR
			Description
			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	1.13	347.41	223.99	2.16	-0.48	-2.16	0.50	0.50	0.00	
314.00	0.98	338.85	313.97	3.74	-0.95	-3.75	0.24	-0.17	-9.51	
401.00	1.19	353.43	400.95	5.33	-1.32	-5.34	0.40	0.24	16.76	
497.00	1.12	358.14	496.94	7.26	-1.47	-7.27	0.12	-0.07	4.91	
589.00	1.08	351.69	588.92	9.02	-1.62	-9.03	0.14	-0.04	-7.01	
681.00	0.90	4.23	680.90	10.59	-1.70	-10.61	0.31	-0.20	13.63	
772.00	0.88	356.63	771.89	12.00	-1.68	-12.02	0.13	-0.02	-8.35	
955.00	0.79	341.71	954.87	14.61	-2.16	-14.63	0.13	-0.05	-8.15	



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 WA Fed Com #1H
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 WA Fed Com #1H	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)	
1,046.00	0.72	6.10	1,045.87	15.77	-2.30	-15.79	0.36	-0.08	26.80	
1,136.00	0.56	336.70	1,135.86	16.74	-2.41	-16.76	0.40	-0.18	-32.67	
1,226.00	0.37	358.40	1,225.86	17.43	-2.59	-17.45	0.28	-0.21	24.11	
1,288.00	0.28	38.03	1,287.86	17.75	-2.51	-17.77	0.38	-0.15	63.92	
1,398.00	0.17	48.53	1,397.86	18.07	-2.22	-18.09	0.11	-0.10	9.55	
1,493.00	0.32	37.81	1,492.86	18.37	-1.95	-18.39	0.16	0.16	-11.28	
1,589.00	1.13	42.19	1,588.85	19.29	-1.15	-19.30	0.85	0.84	4.56	
1,685.00	3.28	40.06	1,684.77	22.09	1.25	-22.08	2.24	2.24	-2.22	
1,779.00	5.57	32.02	1,778.49	28.02	5.40	-27.96	2.52	2.44	-8.55	
1,876.00	6.84	29.31	1,874.92	37.04	10.73	-36.94	1.34	1.31	-2.79	
1,972.00	7.21	26.30	1,970.19	47.43	16.19	-47.27	0.54	0.39	-3.14	
2,068.00	8.20	21.80	2,065.33	59.19	21.41	-58.97	1.21	1.03	-4.69	
2,165.00	7.87	22.13	2,161.38	71.76	26.48	-71.50	0.34	-0.34	0.34	
2,260.00	7.74	22.74	2,255.50	83.69	31.40	-83.37	0.16	-0.14	0.64	
2,356.00	7.45	23.36	2,350.65	95.36	36.37	-95.00	0.31	-0.30	0.65	
2,452.00	7.43	24.07	2,445.84	106.74	41.37	-106.33	0.10	-0.02	0.74	
2,547.00	7.39	24.13	2,540.05	117.93	46.37	-117.46	0.04	-0.04	0.06	
2,643.00	7.17	26.23	2,635.28	128.94	51.54	-128.42	0.36	-0.23	2.19	
2,738.00	8.05	27.56	2,729.44	140.15	57.24	-139.58	0.94	0.93	1.40	
2,834.00	9.28	26.26	2,824.34	153.05	63.77	-152.41	1.30	1.28	-1.35	
2,931.00	9.25	26.53	2,920.08	167.04	70.72	-166.33	0.05	-0.03	0.28	
3,025.00	9.05	27.50	3,012.88	180.36	77.50	-179.58	0.27	-0.21	1.03	
3,122.00	9.02	27.94	3,108.68	193.84	84.59	-192.99	0.08	-0.03	0.45	
3,217.00	8.90	28.67	3,202.52	206.87	91.61	-205.95	0.17	-0.13	0.77	
3,312.00	8.85	29.38	3,296.38	219.69	98.72	-218.69	0.13	-0.05	0.75	
3,406.00	9.01	29.87	3,389.24	232.37	105.93	-231.30	0.19	0.17	0.52	
3,501.00	9.10	33.45	3,483.06	245.09	113.77	-243.94	0.60	0.09	3.77	
3,595.00	9.17	33.19	3,575.87	257.56	121.97	-256.33	0.09	0.07	-0.28	
3,690.00	7.84	32.81	3,669.82	269.34	129.63	-268.04	1.40	-1.40	-0.40	
3,785.00	6.40	30.28	3,764.08	279.36	135.81	-277.99	1.55	-1.52	-2.66	
3,880.00	4.69	21.85	3,858.64	287.54	139.92	-286.13	1.99	-1.80	-8.87	
3,975.00	2.89	29.20	3,953.43	293.23	142.54	-291.80	1.96	-1.89	7.74	
4,069.00	1.12	32.61	4,047.37	296.07	144.19	-294.63	1.89	-1.88	3.63	
4,164.00	0.84	43.98	4,142.35	297.36	145.17	-295.90	0.36	-0.29	11.97	
4,258.00	0.13	11.48	4,236.35	297.96	145.67	-296.49	0.78	-0.76	-34.57	
4,352.00	0.08	158.13	4,330.35	298.00	145.72	-296.54	0.21	-0.05	156.01	
4,446.00	0.07	88.86	4,424.35	297.94	145.80	-296.48	0.09	-0.01	-73.69	
4,540.00	0.27	28.12	4,518.35	298.14	145.96	-296.67	0.26	0.21	-64.62	
4,635.00	0.34	90.19	4,613.35	298.34	146.35	-296.86	0.34	0.07	65.34	
4,729.00	0.74	95.73	4,707.34	298.27	147.23	-296.79	0.43	0.43	5.89	
4,823.00	1.20	95.97	4,801.33	298.11	148.82	-296.62	0.49	0.49	0.26	
4,918.00	0.45	187.79	4,896.32	297.64	149.75	-296.13	1.36	-0.79	96.65	
5,012.00	0.89	172.84	4,990.31	296.55	149.80	-295.04	0.50	0.47	-15.90	



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Well:	Colossus 18-19 WA Fed Com #1H	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)
5,107.00	1.39	149.86	5,085.29	294.82	150.47	-293.31	0.70	0.53	-24.19
5,202.00	1.00	254.69	5,180.28	293.60	150.24	-292.09	2.01	-0.41	110.35
5,296.00	1.25	268.03	5,274.26	293.35	148.43	-291.86	0.38	0.27	14.19
5,392.00	1.16	276.61	5,370.24	293.43	146.42	-291.96	0.21	-0.09	8.94
5,487.00	0.99	277.37	5,465.23	293.64	144.65	-292.19	0.18	-0.18	0.80
5,581.00	0.96	274.72	5,559.21	293.81	143.06	-292.37	0.06	-0.03	-2.82
5,675.00	0.83	260.75	5,653.20	293.77	141.60	-292.34	0.27	-0.14	-14.86
5,768.00	0.57	265.81	5,746.19	293.63	140.48	-292.21	0.29	-0.28	5.44
5,862.00	0.45	263.98	5,840.19	293.55	139.64	-292.15	0.13	-0.13	-1.95
5,957.00	0.42	270.98	5,935.19	293.52	138.92	-292.12	0.06	-0.03	7.37
6,052.00	0.24	238.18	6,030.19	293.42	138.41	-292.03	0.27	-0.19	-34.53
6,146.00	0.13	259.02	6,124.19	293.30	138.13	-291.91	0.14	-0.12	22.17
6,240.00	0.23	264.68	6,218.19	293.26	137.84	-291.87	0.11	0.11	6.02
6,334.00	0.32	258.48	6,312.18	293.19	137.40	-291.81	0.10	0.10	-6.60
6,429.00	0.35	274.56	6,407.18	293.16	136.85	-291.78	0.10	0.03	16.93
6,523.00	0.14	299.68	6,501.18	293.24	136.46	-291.87	0.25	-0.22	26.72
6,617.00	0.20	353.76	6,595.18	293.46	136.34	-292.09	0.17	0.06	57.53
6,712.00	0.12	335.62	6,690.18	293.71	136.28	-292.34	0.10	-0.08	-19.09
6,806.00	0.24	42.80	6,784.18	293.95	136.38	-292.58	0.24	0.13	71.47
6,900.00	0.13	334.81	6,878.18	294.19	136.47	-292.82	0.24	-0.12	-72.33
6,995.00	0.08	249.95	6,973.18	294.26	136.36	-292.89	0.15	-0.05	-89.33
7,090.00	0.10	248.73	7,068.18	294.21	136.22	-292.84	0.02	0.02	-1.28
7,184.00	0.22	300.13	7,162.18	294.27	135.99	-292.90	0.19	0.13	54.68
7,278.00	0.13	64.39	7,256.18	294.41	135.93	-293.04	0.33	-0.10	132.19
7,373.00	0.18	58.31	7,351.18	294.53	136.15	-293.16	0.06	0.05	-6.40
7,468.00	0.08	94.94	7,446.18	294.61	136.34	-293.24	0.13	-0.11	38.56
7,562.00	0.05	59.83	7,540.18	294.62	136.44	-293.25	0.05	-0.03	-37.35
7,656.00	0.17	216.37	7,634.18	294.53	136.40	-293.16	0.23	0.13	166.53
7,751.00	0.16	184.95	7,729.18	294.28	136.30	-292.91	0.09	-0.01	-33.07
7,846.00	0.38	196.01	7,824.18	293.85	136.20	-292.48	0.24	0.23	11.64
7,941.00	0.49	175.08	7,919.17	293.14	136.15	-291.77	0.20	0.12	-22.03
8,036.00	0.44	174.52	8,014.17	292.37	136.22	-291.00	0.05	-0.05	-0.59
8,131.00	0.41	195.39	8,109.17	291.68	136.16	-290.31	0.17	-0.03	21.97
8,225.00	0.24	195.72	8,203.17	291.17	136.02	-289.80	0.18	-0.18	0.35
8,319.00	0.22	211.39	8,297.17	290.83	135.88	-289.46	0.07	-0.02	16.67
8,413.00	0.23	241.41	8,391.17	290.58	135.62	-289.22	0.12	0.01	31.94
8,508.00	0.46	234.51	8,486.16	290.27	135.14	-288.91	0.25	0.24	-7.26
8,602.00	0.25	254.94	8,580.16	290.00	134.63	-288.64	0.26	-0.22	21.73
8,697.00	0.36	270.89	8,675.16	289.95	134.13	-288.60	0.15	0.12	16.79
8,791.00	0.35	244.95	8,769.16	289.83	133.58	-288.49	0.17	-0.01	-27.60
8,886.00	0.45	275.81	8,864.16	289.74	132.94	-288.41	0.25	0.11	32.48
8,980.00	0.26	266.23	8,958.16	289.77	132.36	-288.44	0.21	-0.20	-10.19
9,073.00	0.33	275.43	9,051.15	289.78	131.89	-288.45	0.09	0.08	9.89



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 WA Fed Com #1H
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 WA Fed Com #1H	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)	
9,168.00	0.46	282.10	9,146.15	289.89	131.24	-288.57	0.14	0.14	7.02	
9,263.00	0.56	275.21	9,241.15	290.01	130.41	-288.70	0.12	0.11	-7.25	
9,358.00	0.46	282.00	9,336.14	290.13	129.57	-288.83	0.12	-0.11	7.15	
9,453.00	0.46	265.64	9,431.14	290.18	128.82	-288.88	0.14	0.00	-17.22	
9,548.00	0.44	278.09	9,526.14	290.20	128.08	-288.91	0.10	-0.02	13.11	
9,642.00	0.40	304.11	9,620.14	290.44	127.45	-289.15	0.21	-0.04	27.68	
9,737.00	0.67	302.51	9,715.13	290.92	126.70	-289.65	0.28	0.28	-1.68	
9,832.00	0.65	315.22	9,810.13	291.60	125.86	-290.34	0.16	-0.02	13.38	
9,926.00	0.66	300.72	9,904.12	292.26	125.02	-291.00	0.18	0.01	-15.43	
10,021.00	0.91	282.84	9,999.11	292.70	123.81	-291.46	0.37	0.26	-18.82	
10,115.00	1.02	275.83	10,093.10	292.95	122.25	-291.72	0.17	0.12	-7.46	
10,210.00	0.81	293.20	10,188.09	293.31	120.79	-292.09	0.36	-0.22	18.28	
10,304.00	1.31	279.51	10,282.07	293.74	119.12	-292.54	0.59	0.53	-14.56	
10,399.00	1.45	276.51	10,377.04	294.06	116.86	-292.88	0.17	0.15	-3.16	
10,494.00	1.62	286.19	10,472.01	294.57	114.37	-293.42	0.33	0.18	10.19	
10,588.00	1.59	276.58	10,565.97	295.09	111.80	-293.96	0.29	-0.03	-10.22	
10,683.00	1.85	283.38	10,660.93	295.60	109.00	-294.50	0.35	0.27	7.16	
10,778.00	1.88	287.00	10,755.88	296.41	106.02	-295.34	0.13	0.03	3.81	
10,872.00	2.01	293.27	10,849.82	297.51	103.03	-296.47	0.27	0.14	6.67	
10,966.00	1.77	285.79	10,943.77	298.56	100.12	-297.54	0.37	-0.26	-7.96	
11,060.00	2.03	288.99	11,037.72	299.49	97.15	-298.51	0.30	0.28	3.40	
11,155.00	2.01	287.48	11,132.66	300.54	93.97	-299.59	0.06	-0.02	-1.59	
11,248.00	2.03	298.68	11,225.60	301.82	90.96	-300.90	0.42	0.02	12.04	
11,343.00	1.81	289.82	11,320.55	303.14	88.08	-302.25	0.39	-0.23	-9.33	
11,437.00	1.39	276.82	11,414.51	303.78	85.55	-302.91	0.59	-0.45	-13.83	
11,532.00	1.04	278.43	11,509.49	304.04	83.55	-303.19	0.37	-0.37	1.69	
11,691.00	2.29	274.36	11,668.42	304.49	78.96	-303.69	0.79	0.79	-2.56	
11,786.00	2.62	275.49	11,763.34	304.84	74.90	-304.08	0.35	0.35	1.19	
11,880.00	3.07	277.14	11,857.22	305.36	70.27	-304.65	0.49	0.48	1.76	
11,975.00	2.54	278.84	11,952.11	306.00	65.66	-305.33	0.56	-0.56	1.79	
12,070.00	3.12	290.19	12,046.99	307.22	61.16	-306.59	0.85	0.61	11.95	
12,116.00	3.11	289.72	12,092.92	308.07	58.81	-307.47	0.06	-0.02	-1.02	
12,164.00	3.30	287.99	12,140.85	308.94	56.27	-308.36	0.44	0.40	-3.60	
12,259.00	11.65	188.41	12,235.17	300.26	52.25	-299.72	13.28	8.79	-104.82	
12,354.00	23.25	193.69	12,325.65	272.45	46.39	-271.98	12.31	12.21	5.56	
12,449.00	25.67	198.52	12,412.13	234.72	35.41	-234.35	3.30	2.55	5.08	
12,544.00	32.79	191.76	12,495.00	189.95	23.61	-189.71	8.25	7.49	-7.12	
12,639.00	43.30	171.72	12,569.99	132.15	23.06	-131.91	16.96	11.06	-21.09	
12,734.00	59.62	167.39	12,629.00	59.41	36.79	-59.04	17.54	17.18	-4.56	
12,829.00	66.63	165.22	12,671.92	-22.85	56.89	23.41	7.65	7.38	-2.28	
12,924.00	81.62	163.91	12,697.84	-110.67	81.18	111.47	15.83	15.78	-1.38	
13,018.00	87.42	167.48	12,706.81	-201.29	104.27	202.31	7.24	6.17	3.80	
13,112.00	88.61	172.89	12,710.07	-293.82	120.27	295.00	5.89	1.27	5.76	
13,207.00	91.33	174.52	12,710.12	-388.23	130.69	389.52	3.34	2.86	1.72	



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 WA Fed Com #1H
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 WA Fed Com #1H	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)
13,271.00	91.63	176.57	12,708.47	-452.02	135.66	453.34	3.24	0.47	3.20
13,366.00	91.69	176.01	12,705.72	-546.78	141.80	548.16	0.59	0.06	-0.59
13,460.00	92.21	176.46	12,702.52	-640.52	147.97	641.96	0.73	0.55	0.48
13,554.00	93.26	176.44	12,698.03	-734.23	153.79	735.72	1.12	1.12	-0.02
13,648.00	91.07	175.59	12,694.48	-827.93	160.31	829.48	2.50	-2.33	-0.90
13,742.00	87.73	174.69	12,695.46	-921.57	168.28	923.20	3.68	-3.55	-0.96
13,837.00	87.29	174.56	12,699.59	-1,016.07	177.17	1,017.78	0.48	-0.46	-0.14
13,931.00	89.04	175.91	12,702.60	-1,109.69	184.97	1,111.47	2.35	1.86	1.44
14,026.00	89.36	175.93	12,703.93	-1,204.44	191.73	1,206.28	0.34	0.34	0.02
14,120.00	87.77	174.41	12,706.28	-1,298.07	199.64	1,299.99	2.34	-1.69	-1.62
14,214.00	89.79	174.91	12,708.28	-1,391.63	208.39	1,393.64	2.21	2.15	0.53
14,294.00	90.95	174.79	12,707.77	-1,471.31	215.57	1,473.38	1.46	1.45	-0.15
14,389.00	86.80	177.58	12,709.63	-1,566.05	221.89	1,568.18	5.26	-4.37	2.94
14,484.00	86.14	181.08	12,715.48	-1,660.85	222.99	1,662.98	3.74	-0.69	3.68
14,577.00	86.14	181.10	12,721.74	-1,753.62	221.23	1,755.73	0.02	0.00	0.02
14,671.00	86.54	180.98	12,727.74	-1,847.41	219.53	1,849.50	0.44	0.43	-0.13
14,766.00	89.69	181.42	12,730.87	-1,942.33	217.54	1,944.39	3.35	3.32	0.46
14,859.00	88.86	180.12	12,732.05	-2,035.31	216.29	2,037.36	1.66	-0.89	-1.40
14,954.00	88.57	180.58	12,734.18	-2,130.28	215.71	2,132.32	0.57	-0.31	0.48
15,047.00	91.54	183.09	12,734.09	-2,223.22	212.73	2,225.22	4.18	3.19	2.70
15,141.00	90.09	182.80	12,732.75	-2,317.08	207.90	2,319.03	1.57	-1.54	-0.31
15,235.00	89.91	183.49	12,732.75	-2,410.94	202.75	2,412.84	0.76	-0.19	0.73
15,330.00	89.30	183.46	12,733.40	-2,505.76	196.99	2,507.60	0.64	-0.64	-0.03
15,424.00	90.02	181.20	12,733.96	-2,599.67	193.17	2,601.47	2.52	0.77	-2.40
15,519.00	88.58	179.39	12,735.12	-2,694.66	192.68	2,696.44	2.43	-1.52	-1.91
15,614.00	89.63	180.30	12,736.61	-2,789.65	192.93	2,791.43	1.46	1.11	0.96
15,708.00	89.45	180.19	12,737.36	-2,883.64	192.53	2,885.41	0.22	-0.19	-0.12
15,792.00	89.80	179.71	12,737.91	-2,967.64	192.61	2,969.41	0.71	0.42	-0.57
15,887.00	92.09	180.06	12,736.35	-3,062.62	192.80	3,064.39	2.44	2.41	0.37
15,981.00	91.91	177.24	12,733.06	-3,156.53	195.01	3,158.31	3.00	-0.19	-3.00
16,076.00	92.26	179.09	12,729.61	-3,251.41	198.05	3,253.22	1.98	0.37	1.95
16,171.00	91.25	183.40	12,726.70	-3,346.32	195.99	3,348.10	4.66	-1.06	4.54
16,265.00	90.81	183.92	12,725.01	-3,440.11	189.99	3,441.83	0.72	-0.47	0.55
16,359.00	90.42	183.48	12,724.00	-3,533.91	183.92	3,535.57	0.63	-0.41	-0.47
16,454.00	90.99	181.02	12,722.83	-3,628.82	180.19	3,630.44	2.66	0.60	-2.59
16,548.00	90.73	175.84	12,721.42	-3,722.75	182.77	3,724.38	5.52	-0.28	-5.51
16,642.00	92.75	176.28	12,718.56	-3,816.47	189.22	3,818.17	2.20	2.15	0.47
16,737.00	90.81	177.07	12,715.61	-3,911.26	194.73	3,913.01	2.20	-2.04	0.83
16,832.00	91.52	179.00	12,713.68	-4,006.18	197.98	4,007.95	2.16	0.75	2.03
16,926.00	91.56	182.52	12,711.15	-4,100.13	196.74	4,101.88	3.74	0.04	3.74
17,020.00	90.61	183.52	12,709.37	-4,193.98	191.79	4,195.68	1.47	-1.01	1.06
17,114.00	92.62	183.84	12,706.72	-4,287.74	185.76	4,289.38	2.17	2.14	0.34
17,209.00	92.40	183.22	12,702.56	-4,382.47	179.91	4,384.04	0.69	-0.23	-0.65



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 WA Fed Com #1H
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 WA Fed Com #1H	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)
17,303.00	92.18	183.31	12,698.81	-4,476.24	174.56	4,477.76	0.25	-0.23	0.10
17,398.00	91.78	184.01	12,695.53	-4,570.99	168.50	4,572.44	0.85	-0.42	0.74
17,493.00	90.81	180.94	12,693.38	-4,665.86	164.40	4,667.27	3.39	-1.02	-3.23
17,587.00	90.73	176.54	12,692.11	-4,759.81	166.47	4,761.23	4.68	-0.09	-4.68
17,681.00	90.64	179.79	12,690.99	-4,853.74	169.48	4,855.19	3.46	-0.10	3.46
17,776.00	90.24	180.50	12,690.26	-4,948.74	169.24	4,950.18	0.86	-0.42	0.75
17,871.00	89.58	180.50	12,690.41	-5,043.73	168.41	5,045.16	0.69	-0.69	0.00
17,965.00	89.23	180.85	12,691.39	-5,137.72	167.30	5,139.13	0.53	-0.37	0.37
18,060.00	92.09	180.50	12,690.29	-5,232.70	166.18	5,234.09	3.03	3.01	-0.37
18,155.00	92.44	180.58	12,686.54	-5,327.62	165.29	5,329.00	0.38	0.37	0.08
18,249.00	89.49	179.27	12,684.95	-5,421.60	165.41	5,422.97	3.43	-3.14	-1.39
18,343.00	88.40	176.89	12,686.69	-5,515.52	168.56	5,516.92	2.78	-1.16	-2.53
18,438.00	86.86	177.68	12,690.61	-5,610.33	173.06	5,611.77	1.82	-1.62	0.83
18,534.00	86.95	177.86	12,695.80	-5,706.11	176.79	5,707.59	0.21	0.09	0.19
18,628.00	86.81	177.51	12,700.91	-5,799.90	180.58	5,801.41	0.40	-0.15	-0.37
18,723.00	88.31	179.35	12,704.96	-5,894.77	183.18	5,896.30	2.50	1.58	1.94
18,818.00	88.75	182.69	12,707.40	-5,989.71	181.49	5,991.22	3.55	0.46	3.52
18,912.00	89.63	183.84	12,708.72	-6,083.55	176.13	6,085.00	1.54	0.94	1.22
19,007.00	88.13	178.30	12,710.58	-6,178.47	174.36	6,179.90	6.04	-1.58	-5.83
19,102.00	88.40	179.97	12,713.46	-6,273.41	175.79	6,274.85	1.78	0.28	1.76
19,196.00	88.18	184.89	12,716.27	-6,367.26	171.81	6,368.65	5.24	-0.23	5.23
19,291.00	88.35	182.25	12,719.14	-6,462.02	165.90	6,463.35	2.78	0.18	-2.78
19,386.00	89.01	180.15	12,721.33	-6,556.97	163.91	6,558.28	2.32	0.69	-2.21
19,481.00	86.81	176.72	12,724.80	-6,651.85	166.50	6,653.18	4.29	-2.32	-3.61
19,575.00	86.84	177.04	12,730.00	-6,745.57	171.61	6,746.94	0.34	0.03	0.34
19,670.00	88.10	176.87	12,734.20	-6,840.34	176.65	6,841.76	1.34	1.33	-0.18
19,764.00	87.92	176.13	12,737.46	-6,934.11	182.38	6,935.58	0.81	-0.19	-0.79
19,859.00	91.23	179.87	12,738.17	-7,029.02	185.70	7,030.52	5.26	3.48	3.94
19,953.00	90.70	179.05	12,736.58	-7,123.00	186.58	7,124.50	1.04	-0.56	-0.87
20,048.00	89.65	177.47	12,736.29	-7,217.95	189.47	7,219.48	2.00	-1.11	-1.66
20,142.00	89.82	179.61	12,736.73	-7,311.91	191.86	7,313.46	2.28	0.18	2.28
20,236.00	90.35	178.78	12,736.59	-7,405.90	193.18	7,407.46	1.05	0.56	-0.88
20,331.00	92.29	181.20	12,734.40	-7,500.86	193.20	7,502.42	3.26	2.04	2.55
20,426.00	91.74	181.95	12,731.06	-7,595.77	190.59	7,597.29	0.98	-0.58	0.79
20,520.00	88.89	182.97	12,730.54	-7,689.67	186.56	7,691.15	3.22	-3.03	1.09
20,614.00	89.10	182.91	12,732.19	-7,783.53	181.74	7,784.95	0.23	0.22	-0.06
20,709.00	87.46	181.96	12,735.04	-7,878.40	177.70	7,879.78	1.99	-1.73	-1.00
20,803.00	87.68	179.90	12,739.03	-7,972.30	176.18	7,973.65	2.20	0.23	-2.19
20,898.00	89.63	178.51	12,741.26	-8,067.25	177.50	8,068.62	2.52	2.05	-1.46
20,992.00	89.14	178.11	12,742.27	-8,161.21	180.27	8,162.60	0.67	-0.52	-0.43
21,086.00	89.89	177.33	12,743.06	-8,255.13	184.01	8,256.55	1.15	0.80	-0.83
21,181.00	89.71	176.70	12,743.39	-8,350.00	188.95	8,351.46	0.69	-0.19	-0.66
21,275.00	90.24	178.75	12,743.43	-8,443.92	192.69	8,445.42	2.25	0.56	2.18



MS Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Colossus 18-19 WA Fed Com #1H
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 WA Fed Com #1H	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)
21,370.00	90.33	179.31	12,742.96	-8,538.90	194.29	8,540.41	0.60	0.09	0.59
21,464.00	89.80	179.23	12,742.86	-8,632.90	195.49	8,634.41	0.57	-0.56	-0.09
21,559.00	89.89	178.55	12,743.11	-8,727.88	197.33	8,729.41	0.72	0.09	-0.72
21,653.00	89.41	178.92	12,743.69	-8,821.85	199.41	8,823.40	0.64	-0.51	0.39
21,748.00	89.10	177.88	12,744.92	-8,916.81	202.06	8,918.37	1.14	-0.33	-1.09
21,842.00	88.22	177.55	12,747.12	-9,010.70	205.81	9,012.31	1.00	-0.94	-0.35
21,937.00	88.09	177.38	12,750.18	-9,105.56	210.01	9,107.20	0.23	-0.14	-0.18
22,031.00	87.34	176.63	12,753.93	-9,199.36	214.91	9,201.04	1.13	-0.80	-0.80
22,126.00	90.29	177.48	12,755.89	-9,294.20	219.79	9,295.93	3.23	3.11	0.89
22,221.00	89.80	176.52	12,755.82	-9,389.07	224.76	9,390.84	1.13	-0.52	-1.01
22,316.00	90.86	177.24	12,755.27	-9,483.92	229.93	9,485.74	1.35	1.12	0.76
22,410.00	90.29	176.21	12,754.33	-9,577.76	235.30	9,579.63	1.25	-0.61	-1.10
22,505.00	90.29	176.36	12,753.85	-9,672.56	241.46	9,674.49	0.16	0.00	0.16
22,599.00	89.67	175.46	12,753.88	-9,766.32	248.16	9,768.31	1.16	-0.66	-0.96
22,694.00	89.45	175.80	12,754.61	-9,861.04	255.40	9,863.10	0.43	-0.23	0.36
22,788.00	91.74	177.77	12,753.63	-9,954.88	260.67	9,956.98	3.21	2.44	2.10
22,845.00	92.27	178.36	12,751.64	-10,011.81	262.60	10,013.93	1.39	0.93	1.04
22,904.00	92.27	178.36	12,749.30	-10,070.74	264.28	10,072.87	0.00	0.00	0.00

Projection to TD-22904.00' MD

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
22,904.00	12,749.30	-10,070.74	264.28	Projection to TD-22904.00' MD



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

Well Completion Print

06/21/2023

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 WA FED COM	Well Number 1H	US Well Number 3002549531
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Gas Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064602

Section 1 - General

Well Completion Report Id: 88438**Submission Date:** 06-21-2023**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:** WOLFCAMP**Field Name:** JABALINA**Well Type:** OIL WELL**Spud Date:** 11-28-2022**Date Total Measured Depth Reached:** 03-06-2023**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		-2152	5410	5432	OTHER	Brine
DELAWARE	SANDSTONE, SHALE		-2206	5464	5486	OTHER	Brine

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 WA FED COM	Well Number 1H	US Well Number 3002549531
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Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064602

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
CHERRY CANYON	SANDSTONE, SHALE		-3205	6442	6463	OIL	
BRUSHY CANYON	SANDSTONE, SHALE		-4798	8056	8078	OIL	
BONE SPRINGS	OTHER, SANDSTONE	Carbonates	-6100	9358	9380	OIL	
WOLFCAMP	OTHER, SANDSTONE, SHALE	Carbonates	-9308	12566	12633	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	WOLFCA MP	12760	22876	Y	.41	984	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbis)	Total Proppant (lbs)	Treatment Remarks
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Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 WA FED COM	Well Number 1H	US Well Number 3002549531
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Gas Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064602

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Total Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	606808	25431769	

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	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1		24	792	940	2184	1186	44/64			251

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 WA FED COM	Well Number 1H	US Well Number 3002549531
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Well Type OIL WELL	Well Status Producing Gas Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064602

Well Location

Survey Type: RECTANGULAR

Survey Number: 11403

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

	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
	SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0495094	-103.4031211	3258	N/A	N/A	FEDERAL	NMNM104706			392	FNL	1591	FEL	26S	35E	18	NW
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0503574	-103.4029309	-8883	12164	12141	FEDERAL	NMNM104706				84	FNL	1532	FEL	26S	35E	18	NW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0360613	-103.4027098	-9433	17718	12691	FEE	FEE				0	FNL	1471	FEL	26S	35E	19	NW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0433211	-103.4025012	-9476	15073	12734	FEDERAL	NMNM093223				2643	FNL	1402	FEL	26S	35E	18	NW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0496099	-103.4029836	-9383	12760	12641	FEDERAL	NMNM104706				356	FNL	1548	FEL	26S	35E	18	NW
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0218615	-103.4025477	-9496	22876	12754	FEE	FEE				115	FSL	1428	FEL	26S	35E	19	SW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0218217	-103.4025467	-9491	22904	12749	FEE	FEE				100	FSL	1427	FEL	26S	35E	19	SW

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 WA FED COM	Well Number 1H	US Well Number 3002549531
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Gas Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064602

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	11604	9.625	40	P-110		BUTT		
00	PRODUCTION	8.75	0	22891	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	1370	4.71	0	CLASS C	310	1.39	11604	1226
00	PRODUCTION		Class H	2850	1.36	0	CLASS H	2500	1.27	10604	1255.8

Operator Name MARATHON OIL PERMIAN LLC SHL	Well Name COLOSSUS 18-19 WA FED COM	Well Number 1H	US Well Number 3002549531
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Gas Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064602

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: 06/21/2023

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 WA FED COM	Well Number 1H	US Well Number 3002549531
	County	State	Lease Number(s) NMNM104706
Well Type OIL WELL	Well Status Producing Gas Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name COLOSSUS 18-19 FED COM	Well Pad Number 544-1	ID 10400064602

Colossus_Fed_Com_18_19_1H_1_Inch_Mudlog_Final_20230621104726.pdf

Colossus_18_19_WA_Fed_Com__1H___Final_PvA_20230621105011.pdf

Wellbore_Schematic___COLOSSUS_18_19_WA_FEDERAL_COM_001H_20230621105213.pdf

COLOSSUS_18_19_WA_FEDERAL_COM_1H_REV1_AS_DRILLED_PLAT___Signed_20230621110406.pdf

Appr_C102_Plat_COLOSSUS_18_19_WA_FED_COM_1H_11.05.2021_20230621113040.pdf

Geological Tops (MD')	
Colossus 18-19 WA Federal Com 1H	
Rustler	1067
Castile	3568
Base Salt	5432
Lamar	5432
Delaware Sands (Bell Canyon)	5486
Cherry Canyon	6463
Brushy Canyon	8078
Bone Spring	9380
Wolfcamp	12633

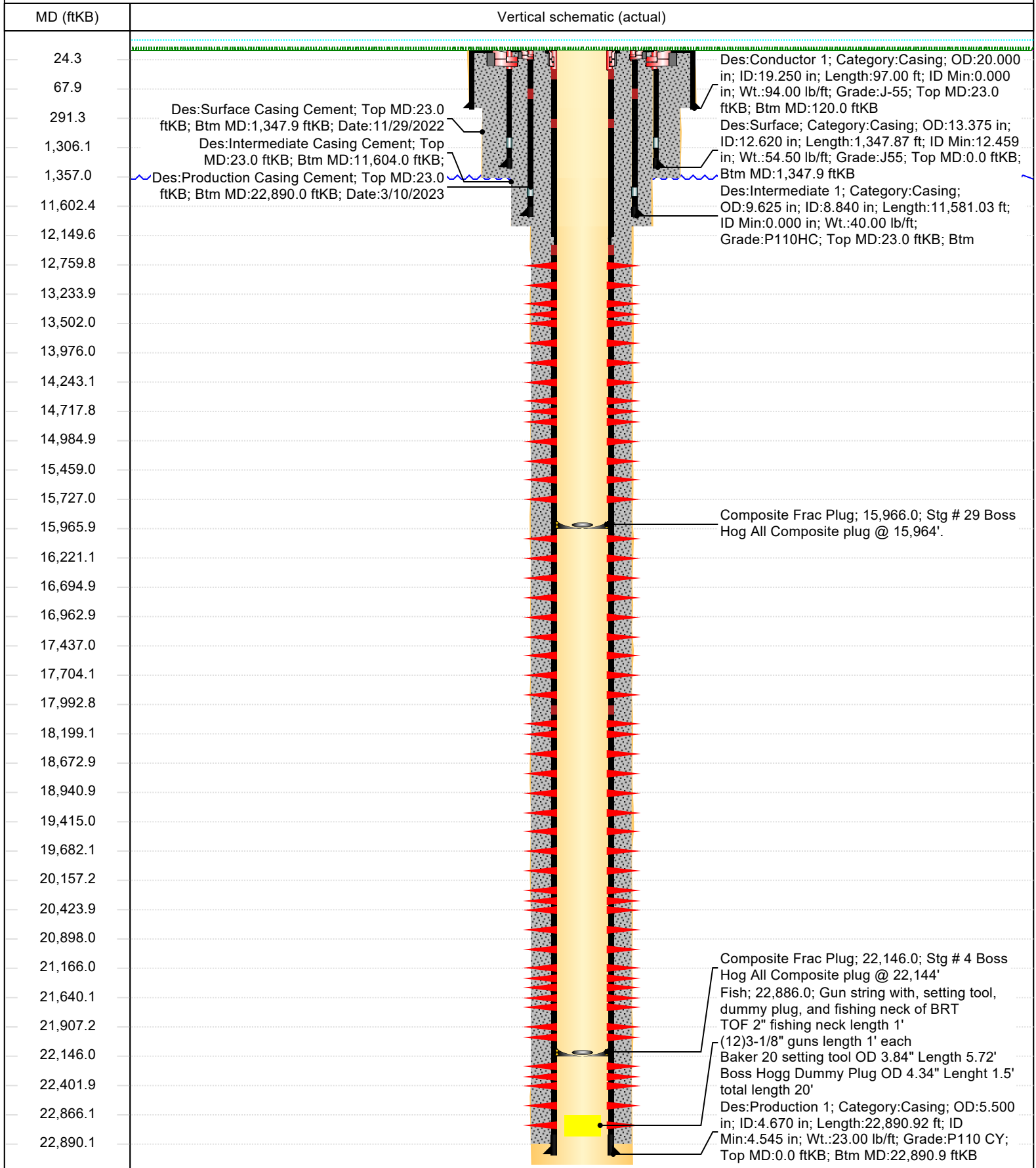


Wellbore Schematic

Well Name: **COLOSSUS 18-19 WA FEDERAL COM 001H**

State/Province NEW MEXICO	Country UNITED STATES	Field Name	Latitude (°) 32.04938330	Longitude (°) -103.40265930	North/South Distance (ft) 392.0	North/South Reference FNL
API/IPO UWI 3002549531	KB-Ground Distance (ft) 23.00	KB-Mud Line Distance (ft)	Ground Elevation (ft) 3,258.00	Drilling Rig Spud Date 11/28/2022	Well Original Completion Date 5/10/2023	Well First Production Date 5/12/2023

HORIZONTAL, COLOSSUS 18-19 WA FEDERAL COM 001H, 6/21/2023 11:49:07 AM



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 255524

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 255524
	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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 255524

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 255524
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	8/16/2024