

C-104 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**Section 1 - Operator and Well Information**

Submittal Type: ☐ Test Allowable (C-104RT) ☐ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name:	OGRID:
Property Name and Well Number:	Property Code:
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal	API Number:
Pool Name:	Pool Code:

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
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Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW):	Communitization Agreement ☐ Yes ☐ No, Order No.
Surface Casing Action ID:	Unit: ☐ Yes ☐ No, Order No.
Intermediate 1 Casing Action ID:	Compulsory Pooling: ☐ Yes ☐ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☐ No, Order No.
Production Casing Action ID:	Surface Commingling: ☐ Yes ☐ No, Order No.
All casing was pressure tested in accordance with NMAC ☐ Yes ☐ No	Non-standard Location: ☐ Yes ☐ No ☐ Common ownership Order No.
Liner 1 Action ID:	Non-standard Proration: ☐ Yes ☐ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N):	Simultaneous Dedication: ☐ Yes ☐ No, Order No.

Section 5 - Operator Signature and Certification

☐ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☐ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
☐ 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.	
Name	
Title	Date

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals, & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 PAGE 1 OF 2
		Submittal Type: ☐ Initial Submittal ☒ Amended Report ☒ As Drilled

WELL LOCATION INFORMATION

API Number 30-015-53936	Pool Code 97801	Pool Name WILDCAT G-04 S262908A; BONE SPRING
Property Code 335622	Property Name HEGEMON BS FEDERAL COM	Well Number 501H
OGRID No. 372098	Operator Name MARATHON OIL PERMIAN LLC	Ground Level Elevation 2896'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL D	Section 28	Township 26S	Range 29E	Lot	Ft. from N/S 266' FNL	Ft. from E/W 720' FWL	Latitude (NAD83) 32.02040864	Longitude (NAD83) -103.99559214	County EDDY
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Bottom Hole Location

UL D	Section 21	Township 26S	Range 29E	Lot	Ft. from N/S 101' FNL	Ft. from E/W 1322' FWL	Latitude (NAD83) 32.03523428	Longitude (NAD83) -103.99396482	County EDDY
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Dedicated Acres 320.00	Infill or Defining Well Defining	Defining Well API 30-015-53936	Overlapping Spacing Unit (Y/N) NO	Consolidation Code COM
Order Numbers:			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL M	Section 21	Township 26S	Range 29E	Lot	Ft. from N/S 35' FSL	Ft. from E/W 1328' FWL	Latitude (NAD83) 32.02119586	Longitude (NAD83) -103.99361557	County EDDY
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First Take Point (FTP)

UL M	Section 21	Township 26S	Range 29E	Lot	Ft. from N/S 454' FSL	Ft. from E/W 1326' FWL	Latitude (NAD83) 32.02234758	Longitude (NAD83) -103.99367006	County EDDY
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Last Take Point (LTP)

UL D	Section 21	Township 26S	Range 29E	Lot	Ft. from N/S 124' FNL	Ft. from E/W 1322' FWL	Latitude (NAD83) 32.03517106	Longitude (NAD83) -103.99396372	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation 2896'
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Krystal Bartholomew 09/30/2024
Signature Date

Krystal Bartholomew
Printed Name

kbartholomew@marathonoil.com
Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual 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 Delta Field Services



Signature and Seal of Professional Surveyor

Certificate Number

21653

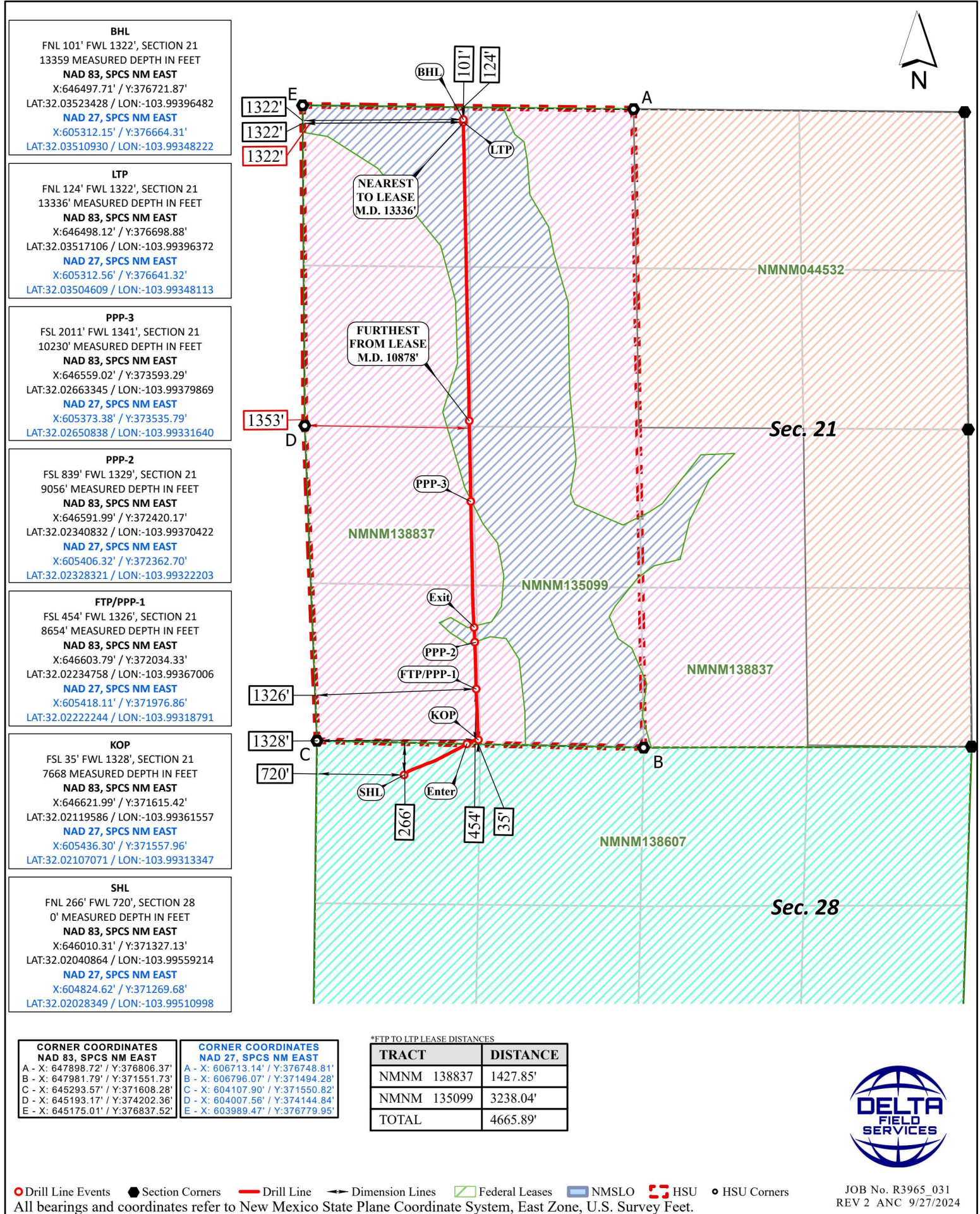
Date of Survey

SEPTEMBER 27, 2024

ACREAGE DEDICATION PLATS

HEGEMON BS FEDERAL COM 501H

PAGE 2 OF 2





Marathon Oil Permian LLC

Eddy County, NM (NAD27-NME)

Hegemon

Hegemon BS Federal Com 501H

OH / 74528

Design: Surveys (Cactus 171)

Standard Survey Report

23 April, 2024





Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Hegemon BS Federal Com 501H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2919.60usft (Cactus 171)
Site:	Hegemon	MD Reference:	RKB @ 2919.60usft (Cactus 171)
Well:	Hegemon BS Federal Com 501H	North Reference:	Grid
Wellbore:	OH / 74528	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 171)	Database:	USAEDMDB

Project	Eddy County, NM (NAD27-NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Hegemon		
Site Position:		Northing:	371,269.61 usft
From:	Map	Easting:	604,764.75 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.0202838
		Longitude:	-103.9953031

Well	Hegemon BS Federal Com 501H		
Well Position	+N/-S	0.00 usft	Northing: 371,269.68 usft
	+E/-W	0.00 usft	Easting: 604,824.62 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.179 °	Ground Level:	2,896.00 usft

Wellbore	OH / 74528		
Magnetics	Model Name	Sample Date	Declination (°)
	IFR	2024-04-11	6.447
			59.470
			47,230.00000000

Design	Surveys (Cactus 171)		
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
			358.68

Survey Program	Date	2024-04-23		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
149.00	664.00	Newsco MWD Surveys (OH / 74528)	MWD	OWSG MWD - Standard
805.00	13,359.00	Phoenix MWD Surveys (OH / 74528)	MWD+IFR1+MS	OWSG Rev. 2 MWD + IFR1 + Multi-Station Corre

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	
149.00	1.58	231.98	148.98	-1.27	-1.62	-1.23	1.06	1.06	0.00	
175.00	1.23	224.34	174.97	-1.69	-2.10	-1.64	1.52	-1.35	-29.38	
229.00	1.85	205.88	228.95	-2.88	-2.88	-2.82	1.46	1.15	-34.19	
258.00	1.32	205.44	257.94	-3.61	-3.23	-3.53	1.83	-1.83	-1.52	
286.00	0.97	202.19	285.94	-4.12	-3.46	-4.04	1.27	-1.25	-11.61	
319.00	0.79	155.17	318.93	-4.58	-3.47	-4.50	2.19	-0.55	-142.48	
350.00	0.53	132.23	349.93	-4.87	-3.27	-4.80	1.18	-0.84	-74.00	
381.00	0.26	180.04	380.93	-5.04	-3.17	-4.97	1.30	-0.87	154.23	



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Site:	Hegemon	MD Reference:	RKB @ 2919.60usft (Cactus 171)
Well:	Hegemon BS Federal Com 501H	North Reference:	Grid
Wellbore:	OH / 74528	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 171)	Database:	USAEDMDB

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)
413.00	0.62	76.86	412.93	-5.07	-3.00	-5.00	2.27	1.13	-322.44
444.00	0.70	21.48	443.93	-4.86	-2.76	-4.79	1.99	0.26	-178.65
475.00	0.53	57.34	474.93	-4.61	-2.57	-4.54	1.33	-0.55	115.68
507.00	0.35	343.95	506.93	-4.43	-2.48	-4.37	1.70	-0.56	-229.34
538.00	0.97	24.47	537.92	-4.10	-2.39	-4.05	2.39	2.00	130.71
569.00	0.79	351.95	568.92	-3.65	-2.32	-3.60	1.68	-0.58	-104.90
601.00	0.35	328.84	600.92	-3.35	-2.40	-3.29	1.52	-1.38	-72.22
632.00	0.62	330.24	631.92	-3.12	-2.53	-3.06	0.87	0.87	4.52
664.00	0.70	0.65	663.92	-2.78	-2.61	-2.72	1.11	0.25	95.03
Tie In									
805.00	0.15	20.98	804.91	-1.74	-2.54	-1.68	0.40	-0.39	14.42
First Phoenix MWD Survey									
899.00	0.41	154.58	898.91	-1.93	-2.35	-1.88	0.56	0.28	142.13
994.00	1.83	59.74	993.89	-1.47	-0.89	-1.45	2.01	1.49	-99.83
1,089.00	4.93	49.02	1,088.72	1.97	3.50	1.89	3.32	3.26	-11.28
1,183.00	7.67	47.91	1,182.14	8.82	11.21	8.56	2.92	2.91	-1.18
1,278.00	8.86	46.36	1,276.15	18.12	21.21	17.63	1.27	1.25	-1.63
1,372.00	9.02	56.38	1,369.02	27.20	32.58	26.44	1.66	0.17	10.66
1,467.00	9.99	66.36	1,462.72	34.63	46.33	33.55	2.01	1.02	10.51
1,533.00	9.73	66.08	1,527.74	39.18	56.68	37.87	0.40	-0.39	-0.42
1,628.00	9.43	66.24	1,621.42	45.57	71.14	43.92	0.32	-0.32	0.17
1,722.00	10.40	68.92	1,714.01	51.73	86.10	49.73	1.14	1.03	2.85
1,817.00	11.65	70.73	1,807.26	57.98	103.16	55.59	1.37	1.32	1.91
1,911.00	10.89	70.49	1,899.45	64.08	120.49	61.28	0.81	-0.81	-0.26
2,006.00	11.22	67.52	1,992.68	70.61	137.49	67.42	0.69	0.35	-3.13
2,101.00	11.53	64.74	2,085.82	78.19	154.61	74.61	0.66	0.33	-2.93
2,195.00	11.15	66.50	2,177.98	85.82	171.44	81.85	0.55	-0.40	1.87
2,290.00	11.18	70.39	2,271.19	92.58	188.54	88.21	0.79	0.03	4.09
2,384.00	10.80	71.65	2,363.46	98.41	205.49	93.65	0.48	-0.40	1.34
2,479.00	11.37	68.80	2,456.69	104.60	222.67	99.44	0.83	0.60	-3.00
2,574.00	12.30	68.79	2,549.67	111.65	240.83	106.07	0.98	0.98	-0.01
2,668.00	12.96	65.66	2,641.40	119.61	259.77	113.60	1.01	0.70	-3.33
2,763.00	12.88	62.30	2,733.99	128.92	278.85	122.47	0.80	-0.08	-3.54
2,857.00	11.96	61.97	2,825.79	138.37	296.72	131.50	0.98	-0.98	-0.35
2,952.00	11.77	62.01	2,918.76	147.55	313.97	140.27	0.20	-0.20	0.04
3,047.00	11.65	62.77	3,011.78	156.48	331.05	148.81	0.21	-0.13	0.80
3,142.00	11.69	62.63	3,104.82	165.29	348.13	157.23	0.05	0.04	-0.15
3,236.00	11.71	63.28	3,196.87	173.96	365.11	165.51	0.14	0.02	0.69
3,331.00	11.67	63.41	3,289.90	182.60	382.31	173.74	0.05	-0.04	0.14
3,426.00	11.21	62.74	3,383.01	191.13	399.11	181.88	0.50	-0.48	-0.71
3,521.00	10.88	62.75	3,476.25	199.46	415.29	189.84	0.35	-0.35	0.01
3,615.00	11.00	62.30	3,568.54	207.69	431.12	197.71	0.16	0.13	-0.48
3,709.00	10.51	61.56	3,660.89	215.94	446.59	205.60	0.54	-0.52	-0.79



Survey Report



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Wellbore:	OH / 74528	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 171)	Database:	USAEDMDB

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)
3,804.00	10.07	60.91	3,754.36	224.11	461.47	213.42	0.48	-0.46	-0.68
3,898.00	10.15	59.95	3,846.90	232.25	475.82	221.23	0.20	0.09	-1.02
3,993.00	10.20	58.87	3,940.41	240.79	490.27	229.43	0.21	0.05	-1.14
4,088.00	11.99	62.24	4,033.63	249.74	506.20	238.01	2.00	1.88	3.55
4,183.00	13.15	64.35	4,126.35	259.01	524.68	246.86	1.31	1.22	2.22
4,278.00	11.66	63.90	4,219.13	267.91	543.04	255.33	1.57	-1.57	-0.47
4,373.00	9.55	65.93	4,312.50	275.35	558.86	262.40	2.26	-2.22	2.14
4,468.00	8.37	67.54	4,406.34	281.21	572.44	267.95	1.27	-1.24	1.69
4,562.00	4.51	69.59	4,499.73	285.11	582.23	271.62	4.11	-4.11	2.18
4,656.00	3.68	71.26	4,593.49	287.37	588.55	273.74	0.89	-0.88	1.78
4,750.00	2.81	68.54	4,687.34	289.18	593.55	275.43	0.94	-0.93	-2.89
4,845.00	1.62	59.07	4,782.27	290.72	596.87	276.90	1.31	-1.25	-9.97
4,940.00	1.62	50.26	4,877.23	292.27	599.06	278.40	0.26	0.00	-9.27
5,035.00	1.35	52.32	4,972.20	293.82	600.98	279.89	0.29	-0.28	2.17
5,130.00	0.95	61.07	5,067.18	294.88	602.55	280.92	0.46	-0.42	9.21
5,225.00	0.70	65.66	5,162.17	295.50	603.77	281.51	0.27	-0.26	4.83
5,320.00	0.59	70.04	5,257.16	295.91	604.76	281.90	0.13	-0.12	4.61
5,415.00	0.66	76.72	5,352.16	296.20	605.75	282.17	0.11	0.07	7.03
5,510.00	0.52	89.36	5,447.15	296.33	606.71	282.27	0.20	-0.15	13.31
5,605.00	0.35	93.85	5,542.15	296.32	607.43	282.24	0.18	-0.18	4.73
5,700.00	0.39	74.55	5,637.15	296.38	608.04	282.30	0.14	0.04	-20.32
5,795.00	0.39	71.23	5,732.14	296.57	608.65	282.47	0.02	0.00	-3.49
5,890.00	0.39	98.21	5,827.14	296.63	609.28	282.52	0.19	0.00	28.40
5,985.00	0.37	79.05	5,922.14	296.64	609.90	282.51	0.13	-0.02	-20.17
6,080.00	0.37	80.84	6,017.14	296.75	610.50	282.61	0.01	0.00	1.88
6,174.00	0.34	99.24	6,111.14	296.75	611.08	282.60	0.12	-0.03	19.57
6,268.00	0.38	104.67	6,205.13	296.63	611.66	282.46	0.06	0.04	5.78
6,363.00	0.48	101.99	6,300.13	296.47	612.35	282.28	0.11	0.11	-2.82
6,458.00	0.66	131.74	6,395.13	296.02	613.15	281.82	0.36	0.19	31.32
6,552.00	0.46	143.88	6,489.12	295.35	613.77	281.14	0.25	-0.21	12.91
6,647.00	0.22	117.91	6,584.12	294.96	614.16	280.73	0.29	-0.25	-27.34
6,742.00	0.37	149.45	6,679.12	294.61	614.48	280.38	0.23	0.16	33.20
6,837.00	0.62	181.38	6,774.12	293.83	614.62	279.60	0.38	0.26	33.61
6,931.00	0.79	151.83	6,868.11	292.75	614.91	278.51	0.42	0.18	-31.44
7,026.00	0.84	153.65	6,963.10	291.55	615.53	277.30	0.06	0.05	1.92
7,120.00	0.53	170.36	7,057.09	290.51	615.91	276.24	0.39	-0.33	17.78
7,214.00	0.25	244.76	7,151.09	289.99	615.80	275.73	0.55	-0.30	79.15
7,308.00	1.11	237.73	7,245.08	289.42	614.84	275.18	0.92	0.91	-7.48
7,402.00	1.21	224.65	7,339.06	288.22	613.38	274.02	0.30	0.11	-13.91
7,497.00	0.45	321.72	7,434.06	287.80	612.44	273.62	1.41	-0.80	102.18
7,591.00	0.26	312.40	7,528.06	288.24	612.05	274.06	0.21	-0.20	-9.91
7,668.00	0.38	256.37	7,605.05	288.29	611.68	274.13	0.41	0.16	-72.77
KOP: 7668.00' MD - Lat: 32.0210707, Long: -103.9931335									
7,779.00	1.77	340.32	7,716.04	289.82	610.74	275.68	1.60	1.25	75.63



Survey Report



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Survey

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7,852.00	6.32	351.95	7,788.84	294.87	609.80	280.74	6.30	6.23	15.93
7,946.00	11.81	354.94	7,881.63	309.58	608.22	295.49	5.86	5.84	3.18
8,041.00	18.17	356.35	7,973.35	334.07	606.42	320.01	6.71	6.69	1.48
8,097.67	21.66	358.21	8,026.62	353.35	605.53	339.31	6.26	6.16	3.28
FTP: 8097.67' MD, 8026.62' TVD - Lat: 32.0212496, Long: -103.9931526									
8,135.00	23.97	359.15	8,061.03	367.82	605.21	353.78	6.26	6.18	2.52
8,230.00	30.10	358.94	8,145.61	410.97	604.48	396.94	6.45	6.45	-0.22
8,325.00	36.42	358.01	8,225.00	463.03	603.06	449.01	6.67	6.65	-0.98
8,420.00	42.91	357.52	8,298.10	523.59	600.67	509.61	6.84	6.83	-0.52
8,514.00	50.00	357.46	8,362.81	591.61	597.69	577.69	7.54	7.54	-0.06
8,608.00	56.95	358.03	8,418.73	667.05	594.74	653.17	7.41	7.39	0.61
8,703.00	64.91	358.35	8,464.85	749.97	592.13	736.13	8.38	8.38	0.34
8,798.00	72.68	358.60	8,499.18	838.44	589.78	824.63	8.18	8.18	0.26
8,893.00	80.50	358.36	8,521.20	930.75	587.32	916.97	8.24	8.23	-0.25
8,987.00	86.60	358.10	8,531.75	1,024.06	584.44	1,010.33	6.50	6.49	-0.28
9,082.00	89.61	357.31	8,534.89	1,118.92	580.64	1,105.25	3.28	3.17	-0.83
9,177.00	90.56	357.35	8,534.75	1,213.82	576.21	1,200.22	1.00	1.00	0.04
9,272.00	90.08	356.64	8,534.22	1,308.68	571.23	1,295.18	0.90	-0.51	-0.75
9,366.00	90.56	358.28	8,533.70	1,402.59	567.06	1,389.15	1.82	0.51	1.74
9,460.00	90.59	358.57	8,532.75	1,496.55	564.48	1,483.15	0.31	0.03	0.31
9,555.00	90.31	358.98	8,532.01	1,591.52	562.45	1,578.14	0.52	-0.29	0.43
9,649.00	90.70	358.49	8,531.18	1,685.50	560.38	1,672.14	0.67	0.41	-0.52
9,744.00	90.25	358.91	8,530.39	1,780.47	558.22	1,767.14	0.65	-0.47	0.44
9,839.00	90.00	358.87	8,530.18	1,875.45	556.38	1,862.13	0.27	-0.26	-0.04
9,933.00	90.08	358.91	8,530.12	1,969.43	554.56	1,956.13	0.10	0.09	0.04
10,027.00	90.00	358.76	8,530.05	2,063.41	552.65	2,050.13	0.18	-0.09	-0.16
10,121.00	90.25	358.85	8,529.85	2,157.39	550.69	2,144.13	0.28	0.27	0.10
10,215.00	90.20	359.03	8,529.48	2,251.37	548.95	2,238.13	0.20	-0.05	0.19
10,310.00	90.31	359.14	8,529.06	2,346.36	547.43	2,333.13	0.16	0.12	0.12
10,404.00	89.75	359.11	8,529.01	2,440.35	546.00	2,427.12	0.60	-0.60	-0.03
10,500.00	89.97	358.75	8,529.24	2,536.33	544.20	2,523.12	0.44	0.23	-0.38
10,594.00	90.31	358.55	8,529.01	2,630.31	541.99	2,617.12	0.42	0.36	-0.21
10,688.00	89.97	358.59	8,528.78	2,724.28	539.64	2,711.12	0.36	-0.36	0.04
10,783.00	90.00	359.12	8,528.81	2,819.26	537.74	2,806.12	0.56	0.03	0.56
10,878.00	90.08	358.89	8,528.74	2,914.24	536.09	2,901.12	0.26	0.08	-0.24
10,972.00	90.08	358.66	8,528.61	3,008.22	534.09	2,995.12	0.24	0.00	-0.24
11,067.00	89.86	359.65	8,528.66	3,103.21	532.68	3,090.11	1.07	-0.23	1.04
11,161.00	89.78	358.93	8,528.95	3,197.20	531.52	3,184.11	0.77	-0.09	-0.77
11,256.00	90.17	358.92	8,529.00	3,292.18	529.74	3,279.11	0.41	0.41	-0.01
11,351.00	90.11	358.65	8,528.76	3,387.16	527.72	3,374.11	0.29	-0.06	-0.28
11,446.00	90.28	358.99	8,528.44	3,482.14	525.77	3,469.11	0.40	0.18	0.36
11,540.00	89.80	358.80	8,528.37	3,576.12	523.95	3,563.10	0.55	-0.51	-0.20
11,635.00	90.11	358.60	8,528.45	3,671.10	521.80	3,658.10	0.39	0.33	-0.21



Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Hegemon BS Federal Com 501H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2919.60usft (Cactus 171)
Site:	Hegemon	MD Reference:	RKB @ 2919.60usft (Cactus 171)
Well:	Hegemon BS Federal Com 501H	North Reference:	Grid
Wellbore:	OH / 74528	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 171)	Database:	USAEDMDB

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)
11,730.00	89.89	358.83	8,528.45	3,766.07	519.67	3,753.10	0.34	-0.23	0.24
11,824.00	90.00	358.98	8,528.54	3,860.06	517.87	3,847.10	0.20	0.12	0.16
11,919.00	90.03	358.69	8,528.51	3,955.04	515.94	3,942.10	0.31	0.03	-0.31
12,014.00	90.20	359.03	8,528.32	4,050.02	514.05	4,037.10	0.40	0.18	0.36
12,108.00	89.78	358.91	8,528.34	4,144.00	512.36	4,131.10	0.46	-0.45	-0.13
12,202.00	90.00	359.12	8,528.52	4,237.99	510.74	4,225.10	0.32	0.23	0.22
12,296.00	89.83	358.90	8,528.66	4,331.97	509.12	4,319.10	0.30	-0.18	-0.23
12,391.00	90.20	358.78	8,528.63	4,426.96	507.20	4,414.10	0.41	0.39	-0.13
12,486.00	90.00	358.72	8,528.47	4,521.93	505.12	4,509.10	0.22	-0.21	-0.06
12,581.00	90.06	358.70	8,528.42	4,616.91	502.99	4,604.10	0.07	0.06	-0.02
12,676.00	90.11	358.63	8,528.28	4,711.88	500.77	4,699.10	0.09	0.05	-0.07
12,770.00	89.94	358.95	8,528.24	4,805.86	498.79	4,793.10	0.39	-0.18	0.34
12,865.00	90.34	359.57	8,528.01	4,900.85	497.56	4,888.09	0.78	0.42	0.65
12,960.00	90.06	358.90	8,527.67	4,995.84	496.29	4,983.08	0.76	-0.29	-0.71
13,054.00	89.89	358.87	8,527.71	5,089.82	494.46	5,077.08	0.18	-0.18	-0.03
13,150.00	89.97	358.07	8,527.83	5,185.79	491.90	5,173.08	0.84	0.08	-0.83
13,244.00	90.28	358.97	8,527.63	5,279.76	489.47	5,267.08	1.01	0.33	0.96
Final Phoenix MWD Survey									
13,359.00	90.28	358.97	8,527.06	5,394.74	487.40	5,382.08	0.00	0.00	0.00
Projection to TD - Lat: 32.0351096, Long: -103.9934826									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
664.00	663.92	-2.78	-2.61	Tie In
805.00	804.91	-1.74	-2.54	First Phoenix MWD Survey
7,668.00	7,605.05	288.29	611.68	KOP: 7668.00' MD
7,668.00	7,605.05	288.29	611.68	Lat: 32.0210707, Long: -103.9931335
8,097.67	8,026.62	353.35	605.53	FTP: 8097.67' MD, 8026.62' TVD
8,097.67	8,026.62	353.35	605.53	Lat: 32.0212496, Long: -103.9931526
13,244.00	8,527.63	5,279.76	489.47	Final Phoenix MWD Survey
13,359.00	8,527.06	5,394.74	487.40	Projection to TD
13,359.00	8,527.06	5,394.74	487.40	Lat: 32.0351096, Long: -103.9934826

C-105	State of New Mexico	Revised July 9, 2024
Submit Electronically Via OCD Permitting	Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Section 1 - Operator and Well Information

Submittal Type: ☐ New Well ☐ Workover ☐ Deepening ☐ Plugback ☐ Different Reservoir ☐ C-144 Closure Attachment ☐ Other	
Operator Name:	OGRID:
Property Name and Well Number:	Property Code:
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal	API Number:
Pool Name:	Pool Code:

Section 2 – Well Location

	UI or lot no.	Section	Township	Range	Lot Id	Feet from	N/S Line	Feet from	E/W Line	County
SHL:										
BHL										

Section 3 – Completion Information

Date T.D. Reached	Total Measured Depth of Well	Acid Volume (bbls)	☐ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released	Plug-Back Measured Depth	Completion Fluid Used (bbls)	Were Logs Ran (Y/N)
Completion Date	Perforations (MD and TVD)	Completion Proppant Used (lbs)	List Type of Logs Ran if applicable:

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID:	UIC Permit/Order (UIC wells only) ☐ Yes ☐ No, Order No.
Intermediate 1 Casing Action ID:	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID:	NOI Plugback Action ID (if applicable):
Production Casing Action ID:	Cement Squeeze Action ID (if applicable):
Tubing Action ID:	All casing was pressure tested in accordance with NMAC ☐ Yes ☐ No
Liner 1 Action ID:	Casing was installed prior to Action ID system (Y/N):

Section 5 – Test Data

Date First Production	Production Method	Well Status	Gas – Oil Ratio
Date of Test	Choke Size	Flowing Tubing Pressure	Casing Pressure
24 hr Oil (bbls)	24 hr Gas (MCF)	24 hr Water (bbls)	Oil Gravity - API
Disposition of Gas:			

Section 6 – Pits

☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.
☐ A Closed Loop System was used.
☐ If an on-site burial was used at the well, report the exact location of the on-site burial: LAT: _____ LONG: _____

Section 7 - Operator Signature and Certification

☐ I hereby certify that the required Water Use Report has been, or will be, submitted for this well’s completion.	
☐ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well’s completion.	
☐ 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.	
Name	
Title	Date

South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy				T. San Jose			
T. Salt				T. Nacimiento			
B. Salt				T. Ojo Alamo			
T. Yates				T. Kirtland			
T. 7 Rivers				T. Fruitland			
T. Queen				T. Pictured Cliffs			
T. Grayburg				T. Lewis Shale			
T. San Andres				T. Chacra			
T. Glorieta				T. Cliff House			
T. Yeso				T. Menefee			
T. Paddock				T. Point Lookout			
T. Blinebry				T. Mancos			
T.Tubb				T. Gallup			
T. Drinkard				T. Greenhorn			
T. Abo				T. Graneros			
T. Wolfcamp				T. Dakota			
T. Penn				T. Morrison			
T. Cisco				T. Bluff			
T. Canyon				T.Todilto			
T. Strawn				T. Entrada			
T. Atoka				T. Wingate			
T. Morrow				T. Chinle			
T. Barnett Shale				T. Permian			
T. Miss				T. Penn A"			
T. Woodford Shale				T. Penn. "B"			
T. Devonian				T. Penn. "C"			
T. Silurian				T. Penn. "D"			
T. Fusselman				T. Leadville			
T. Montoya				T. Madison			
T. Simpson				T. Elbert			
T. McKee				T. McCracken			
T. Waddell				T. Ignacio Otzte			
T. Connel				T. Granite			
T. Ellenburger				T. Hermosa			
T. Gr. Wash				T. De Chelly			
T. Delaware Sand				T. Pinkerton			
T. Lamar Lime							
T. Bell Canyon							
T. Cherry Canyon							
T. Brushy Canyon							
T. Bone Springs							
T. 1st BS Sand							
T. 2nd BS Carbonate							
T. 2nd BS Sand							
T. 3rd BS Carbonate							
T. 3rd BS Sand							



Wellbore Schematic

Well Name: **HEGEMON BS FEDERAL COM 501H**

State/Province NEW MEXICO	Country UNITED STATES	Field Name PURPLE SAGE	Latitude (°) 32.01930890	Longitude (°) -103.99559590	North/South Distance (ft) 675.0	North/South Reference FNL
API/ IPO UWI 3001553936	KB-Ground Distance (ft) 23.00	KB-Mud Line Distance (ft)	Ground Elevation (ft) 2,894.00	Drilling Rig Spud Date 4/13/2024	Well Original Completion Date 6/27/2024	Well First Production Date 7/8/2024

HORIZONTAL, HEGEMON BS FEDERAL COM 501H, 9/24/2024 1:59:30 PM

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)
-558	-557	1.6	
-412	-412	1.6	
-267	-267	1.6	
-122	-122	1.6	
23	23	1.6	
38	38	1.6	
54	54	1.6	
69	69	1.6	
85	85	1.6	
100	100	1.6	
223	223	1.8	
346	346	0.6	
469	469	0.6	
592	592	0.5	
715	715	0.5	
2,122	2,106	11.4	
3,528	3,483	10.9	
4,935	4,872	1.6	
6,341	6,279	0.5	
7,748	7,685	1.4	
8,870	8,516	78.6	
9,992	8,530	90.0	
11,115	8,529	89.8	
12,237	8,529	89.9	
13,359	8,527	90.3	
13,501	8,526	90.3	
13,644	8,526	90.3	
13,786	8,525	90.3	
13,929	8,524	90.3	

Conductor 1; 20,000; 23.0; 23.0-100.0

Surface; 17,500; 100.0; 100.0-715.0

Intermediate 1; 12,250; 715.0; 715.0-7,748.0

Production 1; 8,500; 7,748.0; 7,748.0-13,359.0

TD - HEGEMON BS FEDERAL COM 501H; 13,359.0; 13,359.0

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 444363

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 444363
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

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.
☒	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.

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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 444363

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 444363
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days of BLM approval.	12/10/2025