

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: Marathon Oil Permian LLC	OGRID: 372098
Property Name and Well Number: Hegemon BS Federal Com 501H	Property Code: 335622
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-015-53936
Pool Name: Wildcat G-04 S262908A; Bone Spring	Pool Code: 97801

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	28	26S	29E		266N	720W	32.02040864	-103.99559214	Eddy

Section 3 – Completion Information

Producing Method Flowing	Ready Date 7/1/2024	Perforations MD 8,098'-13,129'	Perforations TVD 8,027'-8,528'
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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: 373996	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 373996	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 373996	Surface Commingling: ☒ Yes ☐ No, Order No. Action ID: 331367
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): 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 Krystal Bartholomew	
Title Adv. Regulatory Compliance Representative	Date 08/20/2024

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		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 501H	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	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	28	26S	29E		266'N	720'W	32.02040864	-103.99559214	Eddy

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	21	26S	29E		101'N	1322'E	32.03523428	-103.99396482	Eddy

Dedicated Acres 320	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code C
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)D

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	21	26S	29E		35'S	1328'W	32.02119586	-103.99361557	Eddy

First Take Point (FTP)

UL M	Section 21	Township 26S	Range 29E	Lot	Ft. from N/S 100'S	Ft. from E/W 1324'W	Latitude 32.02137476	Longitude -103.99363476	County Eddy
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Last Take Point (LTP)

UL D	Section 21	Township 26S	Range 29E	Lot	Ft. from N/S 330'N	Ft. from E/W 1325'W	Latitude 32.03460318	Longitude -103.99395085	County Eddy
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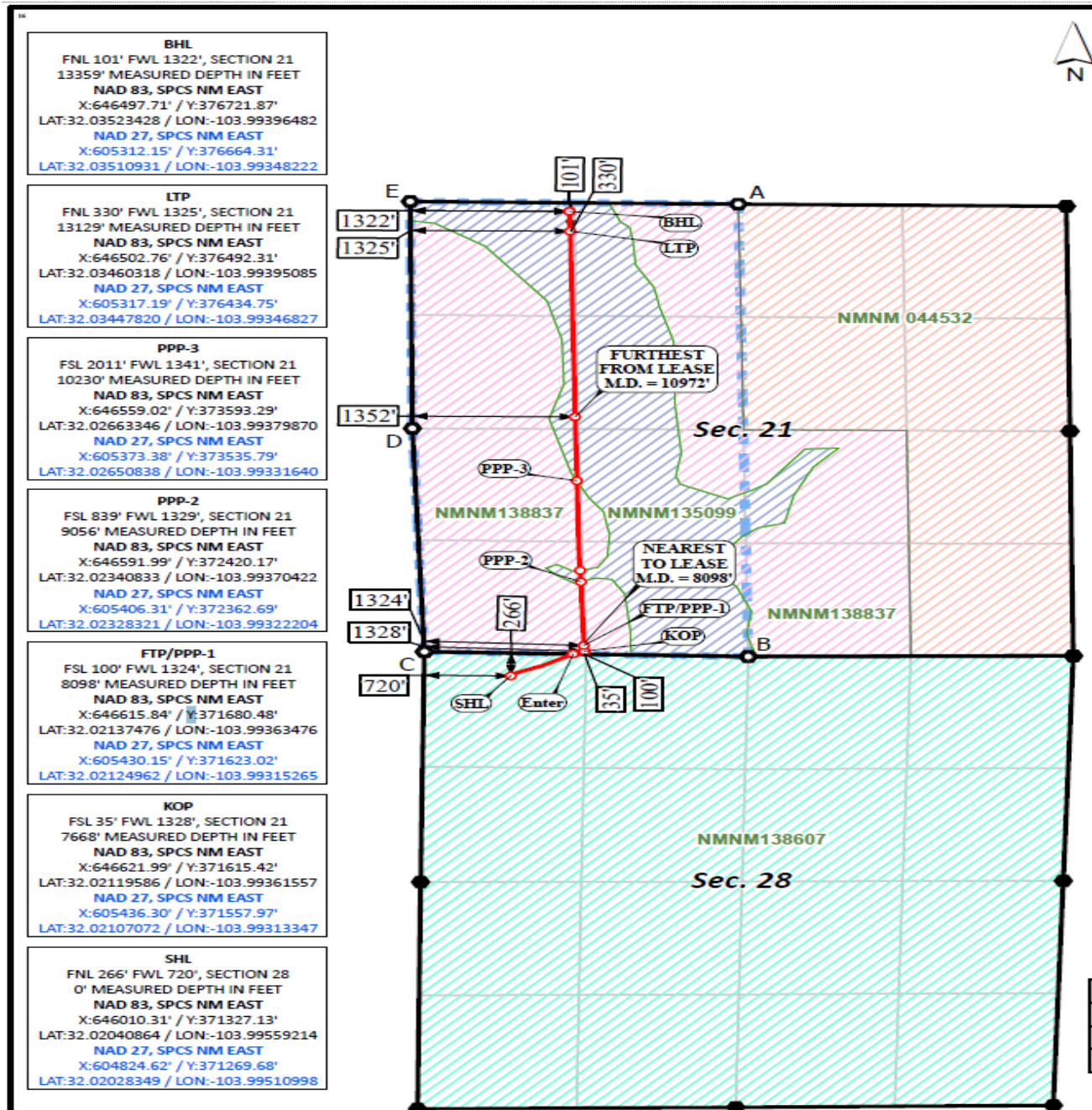
Unitized Area or Area of Uniform Interest Yes, Comm Agreement	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 2917' KB
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best 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.</i> <i>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.</i> <i>Krystal Bartholomew</i> 08/20/2024 Signature Date Krystal Bartholomew Printed Name kbartholomew@marathonoil.com Email Address		SURVEYOR CERTIFICATIONS <i>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.</i> Signature and Seal of Professional Surveyor Certificate Number Date of Survey	
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Note: 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.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





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

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 (°)	Dip Angle (°)	Field Strength (nT)
	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)	Direction (°)
	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



Survey Report



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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



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)
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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Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2919.60usft (Cactus 171)
Site:	Hegemon	MD Reference:	RKB @ 2919.60usft (Cactus 171)
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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)
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			
		+N/-S (usft)	+E/-W (usft)	Comment	
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	

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 375718

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 375718
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

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
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CONDITIONS

Action 375718

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 375718
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 10/1/2024.	8/23/2024