

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: GONG WORHTY STATE COM 601H	Property Code: 334815
Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal	API Number: 30-025-52327
Pool Name: SCHARB; WOLFCAMP, SOUTHEAST	Pool Code: 55650

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	30	19S	35E		246 N	1333 E	32.63806	-103.49237	LEA

Section 3 – Completion Information

Producing Method Flowing	Ready Date 6/11/2024	Perforations MD 11337' - 16408' 17517' - 22501'	Perforations TVD 10947' - 10929' 10951' - 10900'
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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. 204789
Surface Casing Action ID: 364494	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 364494	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: N/A	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 364494	Surface Commingling: ☒ Yes ☐ No, Order No. Action ID# 335124
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. NA

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 Adrian Covarrubias	
Title Adv. Regulatory Compliance Rep.	Date 08/05/2024

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 30-025-52327	Pool Code 55650	Pool Name SCHARB; WOLFCAMP, SOUTHEAST
Property Code 334815	Property Name GONG WORHTY STATE COM	Well Number 601H
OGRID No. 372098	Operator Name MARATHON OIL PERMIAN LLC	Ground Level Elevation 3786'
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 NAD 83	Longitude	County
B	30	19S	35E		246 N	1333 E	32.63806	-103.49237	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude NAD 83	Longitude	County
C	30	19S	35E		104 N	1660 W	32.63846	-103.49980	LEA

Dedicated Acres 637.16	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)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude NAD 83	Longitude	County
O	19	19S	35E		483 S	1640 E	32.64006	-103.49337	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude NAD 83	Longitude	County
B	30	19S	35E		100 N	1610 E	32.63846	-103.49327	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude NAD 83	Longitude	County
C	30	19S	35E		104 N	1660 W	32.63846	-103.49980	LEA

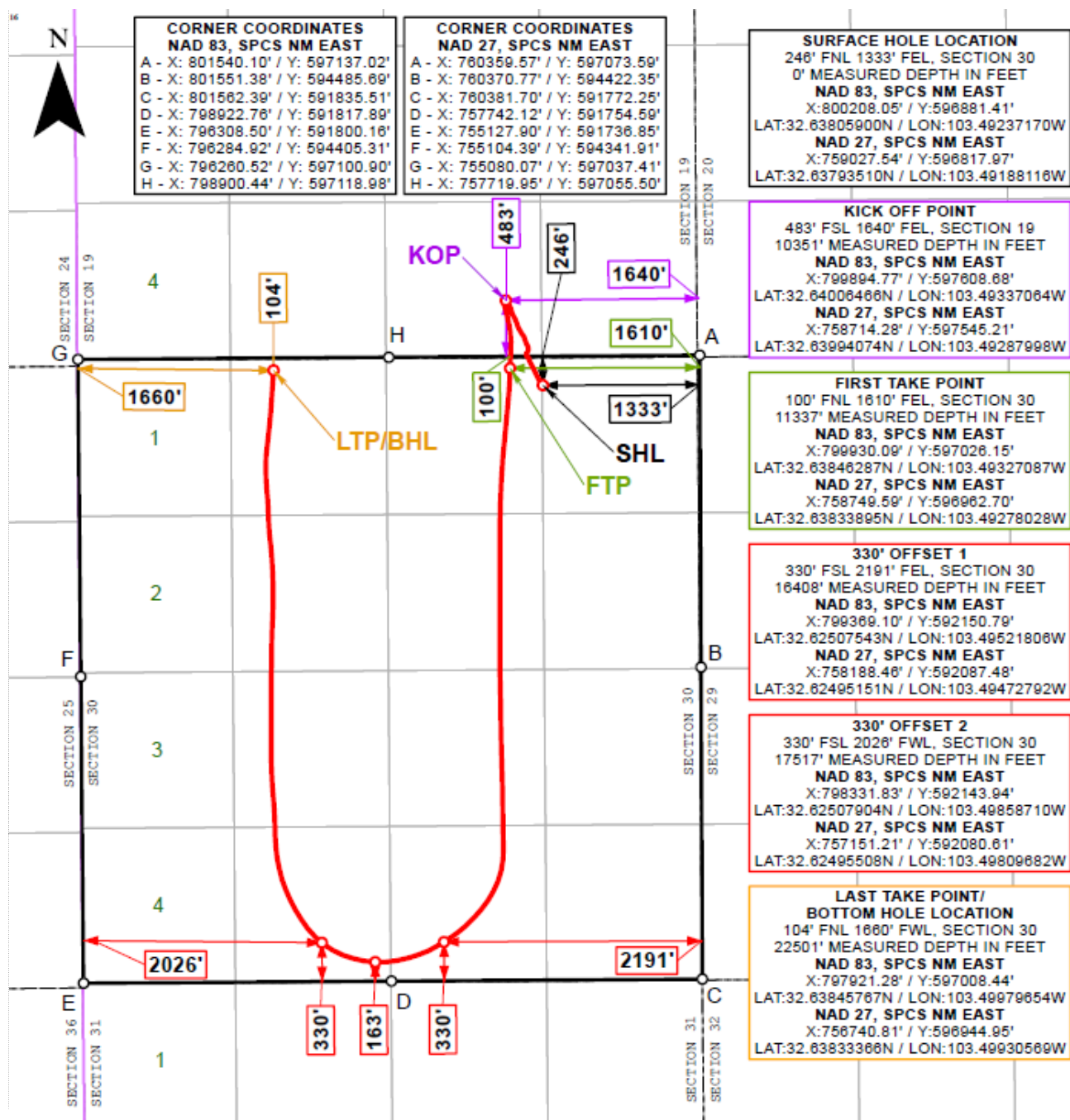
Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3809' KB
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge 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>		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> Per NMOCD Operator Guidance Summary Surveyor certification is only required when a SHL change.	
Signature <i>Adrian Covarrubias</i>	Date 08/05/2024	Signature and Seal of Professional Surveyor	
Printed Name Adrian Covarrubias	Email Address acovarrubias@marathonoil.com	Certificate Number	Date of Survey

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

**Lea County, NM (NAD27 NME)
Gong Worthy - Hefeweizen Pad
Gong Worthy State Com 601H**

ST01 / 73851

Design: Surveys (Cactus 171)

Standard Survey Report

29 February, 2024





Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Gong Worthy State Com 601H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3809.30usft (Cactus 171)
Site:	Gong Worthy - Hefeweizen Pad	MD Reference:	RKB @ 3809.30usft (Cactus 171)
Well:	Gong Worthy State Com 601H	North Reference:	Grid
Wellbore:	ST01 / 73851	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 171)	Database:	USAEDMDB

Project	Lea 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	Gong Worthy - Hefeweizen Pad		
Site Position:		Northing:	596,817.97 usft
From:	Map	Easting:	759,057.54 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 38' 16.564024 N
		Longitude:	103° 29' 30.421325 W

Well	Gong Worthy State Com 601H		
Well Position	+N/-S	0.00 usft	Northing: 596,817.97 usft
	+E/-W	0.00 usft	Easting: 759,027.54 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.454 °	Ground Level:	3,786.00 usft

Wellbore	ST01 / 73851				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IFR	2023-12-21	6.324	60.450	47,544.00000000

Design	Surveys (Cactus 171)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	5,766.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.76	

Survey Program	Date	2024-02-29			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
150.00	5,766.00	Phoenix MWD Surveys (OH / 73851)	MWD+IFR1+MS	OWSG Rev. 2 MWD + IFR1 + Multi-Station Corre	
5,877.00	22,501.00	Phoenix MWD Surveys - ST01 (ST01 / 73851)	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	
150.00	0.43	317.13	150.00	0.41	-0.38	-0.41	0.29	0.29	0.00	
First Phoenix MWD Survey - OH										
240.00	0.52	305.01	240.00	0.89	-0.95	-0.90	0.15	0.10	-13.47	
328.00	0.57	304.61	327.99	1.37	-1.63	-1.38	0.06	0.06	-0.45	
423.00	0.65	263.62	422.99	1.58	-2.56	-1.59	0.46	0.08	-43.15	
515.00	0.56	261.53	514.98	1.46	-3.52	-1.47	0.10	-0.10	-2.27	
608.00	0.70	272.43	607.98	1.41	-4.54	-1.43	0.20	0.15	11.72	
698.00	0.35	297.92	697.97	1.57	-5.33	-1.59	0.46	-0.39	28.32	



Survey Report



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Site:	Gong Worthy - Hefeweizen Pad	MD Reference:	RKB @ 3809.30usft (Cactus 171)
Well:	Gong Worthy State Com 601H	North Reference:	Grid
Wellbore:	ST01 / 73851	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)
790.00	0.40	302.65	789.97	1.87	-5.85	-1.89	0.06	0.05	5.14
882.00	0.55	263.27	881.97	1.99	-6.56	-2.02	0.38	0.16	-42.80
974.00	0.79	275.27	973.96	2.00	-7.63	-2.03	0.30	0.26	13.04
1,065.00	0.34	289.26	1,064.96	2.15	-8.51	-2.18	0.51	-0.49	15.37
1,157.00	0.56	308.77	1,156.95	2.52	-9.12	-2.55	0.29	0.24	21.21
1,248.00	0.73	298.11	1,247.95	3.07	-9.98	-3.11	0.23	0.19	-11.71
1,340.00	0.76	293.50	1,339.94	3.59	-11.05	-3.63	0.07	0.03	-5.01
1,435.00	0.71	280.65	1,434.93	3.95	-12.21	-4.00	0.18	-0.05	-13.53
1,531.00	0.74	302.00	1,530.92	4.39	-13.32	-4.44	0.28	0.03	22.24
1,625.00	0.72	267.75	1,624.92	4.68	-14.42	-4.74	0.46	-0.02	-36.44
1,721.00	0.74	290.29	1,720.91	4.88	-15.61	-4.94	0.30	0.02	23.48
1,816.00	0.65	299.69	1,815.90	5.36	-16.65	-5.43	0.15	-0.09	9.89
1,910.00	0.57	262.76	1,909.90	5.56	-17.58	-5.63	0.42	-0.09	-39.29
2,078.00	0.62	267.98	2,077.89	5.42	-19.32	-5.50	0.04	0.03	3.11
2,173.00	0.18	289.42	2,172.89	5.45	-19.97	-5.54	0.48	-0.46	22.57
2,267.00	0.09	153.54	2,266.89	5.44	-20.08	-5.52	0.27	-0.10	-144.55
2,362.00	0.14	125.70	2,361.89	5.30	-19.95	-5.39	0.08	0.05	-29.31
2,457.00	0.07	42.22	2,456.89	5.28	-19.82	-5.36	0.16	-0.07	-87.87
2,552.00	0.21	148.59	2,551.89	5.17	-19.69	-5.26	0.25	0.15	111.97
2,647.00	0.18	159.73	2,646.89	4.88	-19.54	-4.97	0.05	-0.03	11.73
2,741.00	0.19	111.13	2,740.88	4.69	-19.35	-4.77	0.16	0.01	-51.70
2,836.00	0.16	32.84	2,835.88	4.74	-19.13	-4.82	0.23	-0.03	-82.41
2,931.00	0.04	101.59	2,930.88	4.85	-19.02	-4.93	0.16	-0.13	72.37
3,025.00	0.19	53.33	3,024.88	4.94	-18.87	-5.01	0.18	0.16	-51.34
3,120.00	0.18	66.24	3,119.88	5.09	-18.60	-5.17	0.05	-0.01	13.59
3,214.00	0.21	19.99	3,213.88	5.31	-18.41	-5.39	0.17	0.03	-49.20
3,309.00	0.37	358.64	3,308.88	5.78	-18.36	-5.86	0.20	0.17	-22.47
3,404.00	2.26	343.47	3,403.85	7.88	-18.90	-7.96	2.01	1.99	-15.97
3,498.00	5.06	342.29	3,497.65	13.61	-20.69	-13.70	2.98	2.98	-1.26
3,592.00	7.87	339.18	3,591.04	23.58	-24.23	-23.68	3.01	2.99	-3.31
3,687.00	8.50	337.10	3,685.08	36.12	-29.28	-36.25	0.73	0.66	-2.19
3,781.00	7.79	334.64	3,778.13	48.28	-34.71	-48.43	0.84	-0.76	-2.62
3,876.00	6.77	333.62	3,872.36	59.11	-39.96	-59.28	1.08	-1.07	-1.07
3,971.00	6.09	332.75	3,966.76	68.61	-44.75	-68.80	0.72	-0.72	-0.92
4,065.00	6.36	333.75	4,060.21	77.71	-49.34	-77.92	0.31	0.29	1.06
4,160.00	6.28	334.60	4,154.63	87.13	-53.89	-87.35	0.13	-0.08	0.89
4,255.00	6.43	334.03	4,249.05	96.60	-58.45	-96.85	0.17	0.16	-0.60
4,351.00	6.92	334.27	4,344.40	106.65	-63.32	-106.91	0.51	0.51	0.25
4,445.00	7.02	334.97	4,437.70	116.95	-68.20	-117.24	0.14	0.11	0.74
4,539.00	6.75	334.85	4,531.02	127.16	-72.98	-127.46	0.29	-0.29	-0.13
4,633.00	7.53	334.90	4,624.29	137.73	-77.94	-138.06	0.83	0.83	0.05
4,728.00	7.80	332.91	4,718.45	149.11	-83.52	-149.46	0.40	0.28	-2.09
4,822.00	7.84	333.01	4,811.57	160.50	-89.33	-160.88	0.04	0.04	0.11



Survey Report



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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)
4,917.00	7.91	333.09	4,905.68	172.11	-95.23	-172.50	0.07	0.07	0.08
5,011.00	6.96	333.73	4,998.88	182.98	-100.68	-183.40	1.01	-1.01	0.68
5,106.00	6.73	333.46	5,093.21	193.12	-105.72	-193.56	0.24	-0.24	-0.28
5,199.00	5.92	333.52	5,185.64	202.29	-110.29	-202.75	0.87	-0.87	0.06
5,294.00	6.34	333.66	5,280.10	211.38	-114.80	-211.85	0.44	0.44	0.15
5,388.00	6.04	333.80	5,373.55	220.46	-119.29	-220.96	0.32	-0.32	0.15
5,482.00	6.52	333.57	5,466.98	229.68	-123.85	-230.20	0.51	0.51	-0.24
5,576.00	7.43	333.43	5,560.29	239.90	-128.94	-240.43	0.97	0.97	-0.15
5,671.00	7.75	333.56	5,654.46	251.13	-134.54	-251.69	0.34	0.34	0.14
5,766.00	7.43	334.95	5,748.62	262.43	-139.99	-263.01	0.39	-0.34	1.46
Tie In - ST01									
5,877.00	4.55	37.35	5,859.11	272.44	-140.36	-273.02	6.01	-2.59	56.22
First Phoenix MWD Survey - ST01									
5,951.00	5.03	46.22	5,932.85	277.02	-136.24	-277.58	1.19	0.65	11.99
6,046.00	6.40	35.28	6,027.38	284.22	-130.17	-284.76	1.84	1.44	-11.52
6,141.00	7.63	20.21	6,121.67	294.46	-124.94	-294.98	2.32	1.29	-15.86
6,235.00	8.47	0.07	6,214.76	307.24	-122.77	-307.76	3.11	0.89	-21.43
6,329.00	8.87	345.15	6,307.70	321.17	-124.62	-321.69	2.42	0.43	-15.87
6,424.00	7.72	332.32	6,401.71	333.91	-129.46	-334.45	2.29	-1.21	-13.51
6,519.00	7.86	330.47	6,495.84	345.21	-135.63	-345.77	0.30	0.15	-1.95
6,614.00	6.43	336.45	6,590.10	355.74	-140.95	-356.32	1.69	-1.51	6.29
6,708.00	6.34	340.37	6,683.52	365.45	-144.80	-366.05	0.47	-0.10	4.17
6,802.00	6.60	339.06	6,776.92	375.38	-148.48	-376.00	0.32	0.28	-1.39
6,897.00	6.47	342.66	6,871.30	385.59	-152.02	-386.23	0.45	-0.14	3.79
6,992.00	7.05	342.22	6,965.64	396.25	-155.40	-396.90	0.61	0.61	-0.46
7,086.00	7.17	341.71	7,058.92	407.32	-159.00	-407.98	0.14	0.13	-0.54
7,181.00	6.65	326.82	7,153.23	417.55	-163.87	-418.23	1.96	-0.55	-15.67
7,276.00	6.96	325.39	7,247.56	426.89	-170.15	-427.60	0.37	0.33	-1.51
7,371.00	7.52	327.39	7,341.81	436.87	-176.77	-437.60	0.65	0.59	2.11
7,465.00	8.01	331.14	7,434.95	447.78	-183.25	-448.55	0.75	0.52	3.99
7,560.00	6.83	326.49	7,529.15	458.29	-189.56	-459.08	1.39	-1.24	-4.89
7,654.00	6.48	326.14	7,622.52	467.36	-195.60	-468.17	0.37	-0.37	-0.37
7,749.00	6.49	331.68	7,716.91	476.53	-201.14	-477.37	0.66	0.01	5.83
7,843.00	6.86	334.92	7,810.27	486.29	-206.03	-487.15	0.56	0.39	3.45
7,937.00	6.81	340.47	7,903.60	496.63	-210.28	-497.51	0.70	-0.05	5.90
8,032.00	6.94	341.91	7,997.92	507.40	-213.94	-508.29	0.23	0.14	1.52
8,126.00	6.84	346.68	8,091.24	518.24	-217.00	-519.15	0.62	-0.11	5.07
8,221.00	6.21	334.24	8,185.63	528.37	-220.53	-529.29	1.62	-0.66	-13.09
8,315.00	6.12	334.73	8,279.09	537.48	-224.88	-538.42	0.11	-0.10	0.52
8,410.00	6.14	337.68	8,373.55	546.76	-228.97	-547.72	0.33	0.02	3.11
8,505.00	5.38	343.07	8,468.07	555.72	-232.20	-556.69	0.98	-0.80	5.67
8,599.00	5.72	331.30	8,561.63	564.05	-235.73	-565.03	1.26	0.36	-12.52
8,694.00	6.41	325.50	8,656.10	572.57	-241.01	-573.58	0.97	0.73	-6.11
8,788.00	6.05	332.95	8,749.54	581.31	-246.23	-582.33	0.94	-0.38	7.93



Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Gong Worthy State Com 601H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3809.30usft (Cactus 171)
Site:	Gong Worthy - Hefeweizen Pad	MD Reference:	RKB @ 3809.30usft (Cactus 171)
Well:	Gong Worthy State Com 601H	North Reference:	Grid
Wellbore:	ST01 / 73851	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)
8,884.00	4.94	336.35	8,845.10	589.60	-250.19	-590.64	1.20	-1.16	3.54
8,978.00	5.59	330.71	8,938.70	597.30	-254.06	-598.36	0.88	0.69	-6.00
9,073.00	5.50	338.31	9,033.26	605.57	-258.00	-606.64	0.78	-0.09	8.00
9,168.00	6.54	339.18	9,127.74	614.85	-261.61	-615.94	1.10	1.09	0.92
9,263.00	7.33	341.04	9,222.04	625.64	-265.50	-626.75	0.86	0.83	1.96
9,358.00	7.33	344.14	9,316.26	637.20	-269.13	-638.33	0.42	0.00	3.26
9,452.00	6.63	349.66	9,409.57	648.31	-271.74	-649.44	1.03	-0.74	5.87
9,546.00	6.65	336.85	9,502.94	658.65	-274.85	-659.80	1.57	0.02	-13.63
9,642.00	6.56	332.90	9,598.31	668.65	-279.54	-669.81	0.48	-0.09	-4.11
9,737.00	6.26	332.39	9,692.71	678.07	-284.41	-679.25	0.32	-0.32	-0.54
9,831.00	6.47	334.12	9,786.13	687.37	-289.09	-688.58	0.30	0.22	1.84
9,926.00	6.28	338.97	9,880.55	697.04	-293.30	-698.26	0.60	-0.20	5.11
10,020.00	5.86	340.31	9,974.02	706.36	-296.76	-707.59	0.47	-0.45	1.43
10,115.00	5.04	337.21	10,068.59	714.77	-300.01	-716.02	0.92	-0.86	-3.26
10,209.00	4.75	338.52	10,162.25	722.20	-303.03	-723.46	0.33	-0.31	1.39
10,228.00	4.47	337.82	10,181.18	723.62	-303.60	-724.88	1.50	-1.47	-3.68
10,351.00	7.36	264.03	10,303.66	727.24	-313.26	-728.55	6.07	2.35	-59.99
Lat: 32.6399407, Long: -103.4928800 - KOP: 10351.00' MD, 10303.66' TVD - ST01									
10,446.00	8.80	209.30	10,397.85	720.26	-322.88	-721.61	7.91	1.52	-57.61
10,541.00	15.01	182.68	10,490.82	701.60	-327.02	-702.97	8.57	6.54	-28.02
10,635.00	19.92	170.10	10,580.50	673.64	-324.83	-675.00	6.56	5.22	-13.38
10,729.00	27.09	162.81	10,666.66	637.36	-315.74	-638.68	8.22	7.63	-7.76
10,823.00	35.57	165.63	10,746.88	590.34	-302.61	-591.61	9.15	9.02	3.00
10,918.00	44.82	169.60	10,819.38	530.51	-289.67	-531.72	10.10	9.74	4.18
11,013.00	58.28	171.73	10,878.32	457.25	-277.76	-458.41	14.28	14.17	2.24
11,107.00	74.36	179.60	10,916.00	371.75	-271.65	-372.89	18.73	17.11	8.37
11,203.00	80.65	183.09	10,936.77	278.11	-273.88	-279.26	7.45	6.55	3.64
11,298.00	87.73	180.78	10,946.38	183.72	-277.06	-184.88	7.83	7.45	-2.43
11,337.16	89.75	181.25	10,947.24	144.58	-277.75	-145.74	5.30	5.16	1.19
Lat: 32.6383385, Long: -103.4927796 - FTP: 11337.16' MD, 10947.24' TVD - ST01									
11,392.00	92.58	181.90	10,946.13	89.78	-279.25	-90.95	5.30	5.16	1.19
11,444.00	92.04	182.62	10,944.03	37.86	-281.30	-39.04	1.73	-1.04	1.38
11,538.00	91.01	185.01	10,941.53	-55.89	-287.56	54.68	2.77	-1.10	2.54
11,633.00	91.20	185.20	10,939.70	-150.49	-296.01	149.25	0.28	0.20	0.20
11,728.00	91.06	185.33	10,937.82	-245.07	-304.72	243.80	0.20	-0.15	0.14
11,823.00	90.90	185.26	10,936.20	-339.66	-313.49	338.34	0.18	-0.17	-0.07
11,918.00	90.87	185.51	10,934.73	-434.22	-322.40	432.87	0.27	-0.03	0.26
12,013.00	90.98	185.09	10,933.20	-528.81	-331.18	527.41	0.46	0.12	-0.44
12,107.00	90.95	185.40	10,931.61	-622.40	-339.77	620.97	0.33	-0.03	0.33
12,202.00	90.03	183.07	10,930.80	-717.13	-346.78	715.67	2.64	-0.97	-2.45
12,296.00	90.06	182.69	10,930.73	-811.01	-351.51	809.53	0.41	0.03	-0.40
12,391.00	89.97	182.67	10,930.70	-905.91	-355.95	904.41	0.10	-0.09	-0.02
12,485.00	90.22	182.77	10,930.55	-999.80	-360.41	998.28	0.29	0.27	0.11
12,580.00	89.38	180.95	10,930.88	-1,094.74	-363.49	1,093.21	2.11	-0.88	-1.92



Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Gong Worthy State Com 601H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3809.30usft (Cactus 171)
Site:	Gong Worthy - Hefeweizen Pad	MD Reference:	RKB @ 3809.30usft (Cactus 171)
Well:	Gong Worthy State Com 601H	North Reference:	Grid
Wellbore:	ST01 / 73851	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)
12,674.00	89.58	179.95	10,931.73	-1,188.74	-364.23	1,187.20	1.08	0.21	-1.06
12,769.00	89.52	180.15	10,932.48	-1,283.73	-364.31	1,282.20	0.22	-0.06	0.21
12,864.00	89.58	180.14	10,933.22	-1,378.73	-364.55	1,377.19	0.06	0.06	-0.01
12,959.00	89.64	180.14	10,933.87	-1,473.73	-364.79	1,472.19	0.06	0.06	0.00
13,053.00	89.27	180.19	10,934.77	-1,567.72	-365.06	1,566.18	0.40	-0.39	0.05
13,147.00	89.19	179.57	10,936.03	-1,661.71	-364.86	1,660.17	0.66	-0.09	-0.66
13,242.00	89.66	180.09	10,936.98	-1,756.71	-364.58	1,755.17	0.74	0.49	0.55
13,336.00	89.89	180.07	10,937.35	-1,850.71	-364.71	1,849.16	0.25	0.24	-0.02
13,430.00	90.22	180.20	10,937.26	-1,944.71	-364.93	1,943.16	0.38	0.35	0.14
13,525.00	90.06	179.60	10,937.03	-2,039.71	-364.77	2,038.16	0.65	-0.17	-0.63
13,620.00	90.20	179.76	10,936.81	-2,134.70	-364.23	2,133.16	0.22	0.15	0.17
13,715.00	90.11	179.98	10,936.56	-2,229.70	-364.02	2,228.16	0.25	-0.09	0.23
13,810.00	89.97	180.12	10,936.49	-2,324.70	-364.10	2,323.16	0.21	-0.15	0.15
13,904.00	90.14	180.02	10,936.40	-2,418.70	-364.22	2,417.16	0.21	0.18	-0.11
13,999.00	88.04	178.93	10,937.91	-2,513.68	-363.35	2,512.14	2.49	-2.21	-1.15
14,094.00	88.21	178.43	10,941.02	-2,608.60	-361.16	2,607.07	0.56	0.18	-0.53
14,188.00	91.43	178.97	10,941.31	-2,702.57	-359.03	2,701.04	3.47	3.43	0.57
14,283.00	91.18	179.33	10,939.15	-2,797.53	-357.62	2,796.01	0.46	-0.26	0.38
14,378.00	91.20	178.95	10,937.18	-2,892.50	-356.19	2,890.98	0.40	0.02	-0.40
14,472.00	90.95	178.81	10,935.41	-2,986.47	-354.36	2,984.95	0.30	-0.27	-0.15
14,566.00	89.83	178.28	10,934.77	-3,080.43	-351.97	3,078.93	1.32	-1.19	-0.56
14,661.00	90.14	178.35	10,934.80	-3,175.39	-349.18	3,173.90	0.33	0.33	0.07
14,757.00	90.17	178.30	10,934.54	-3,271.35	-346.37	3,269.87	0.06	0.03	-0.05
14,852.00	90.11	178.61	10,934.30	-3,366.31	-343.81	3,364.84	0.33	-0.06	0.33
14,946.00	90.73	179.30	10,933.62	-3,460.29	-342.09	3,458.83	0.99	0.66	0.73
15,041.00	90.95	179.37	10,932.22	-3,555.28	-340.99	3,553.82	0.24	0.23	0.07
15,135.00	91.01	179.01	10,930.62	-3,649.25	-339.66	3,647.80	0.39	0.06	-0.38
15,230.00	91.57	179.06	10,928.48	-3,744.22	-338.06	3,742.77	0.59	0.59	0.05
15,325.00	91.76	179.01	10,925.72	-3,839.16	-336.46	3,837.72	0.21	0.20	-0.05
15,419.00	92.16	179.17	10,922.50	-3,933.10	-334.97	3,931.66	0.46	0.43	0.17
15,513.00	90.50	185.02	10,920.32	-4,026.96	-338.41	4,025.51	6.47	-1.77	6.22
15,607.00	90.11	192.42	10,919.82	-4,119.81	-352.65	4,118.30	7.88	-0.41	7.87
15,702.00	89.89	200.41	10,919.82	-4,210.86	-379.47	4,209.24	8.41	-0.23	8.41
15,798.00	89.55	207.46	10,920.29	-4,298.55	-418.39	4,296.76	7.35	-0.35	7.34
15,892.00	89.80	213.93	10,920.82	-4,379.34	-466.35	4,377.35	6.89	0.27	6.88
15,986.00	90.14	219.69	10,920.87	-4,454.57	-522.65	4,452.34	6.14	0.36	6.13
16,081.00	90.87	222.96	10,920.03	-4,525.90	-585.37	4,523.40	3.53	0.77	3.44
16,176.00	88.29	227.77	10,920.73	-4,592.62	-652.94	4,589.84	5.75	-2.72	5.06
16,270.00	88.01	232.69	10,923.76	-4,652.70	-725.13	4,649.62	5.24	-0.30	5.23
16,365.00	87.11	236.86	10,927.81	-4,707.43	-802.65	4,704.03	4.49	-0.95	4.39
16,408.13	87.78	238.02	10,929.74	-4,730.62	-838.96	4,727.06	3.11	1.55	2.70
Cross 330' HL: 16408.13' MD, 10929.73' TVD									
16,460.00	88.58	239.42	10,931.38	-4,757.53	-883.27	4,753.79	3.11	1.55	2.69



Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Gong Worthy State Com 601H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3809.30usft (Cactus 171)
Site:	Gong Worthy - Hefeweizen Pad	MD Reference:	RKB @ 3809.30usft (Cactus 171)
Well:	Gong Worthy State Com 601H	North Reference:	Grid
Wellbore:	ST01 / 73851	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)
16,554.00	88.52	243.79	10,933.76	-4,802.21	-965.92	4,798.12	4.65	-0.06	4.65
16,648.00	88.07	249.43	10,936.56	-4,839.50	-1,052.12	4,835.05	6.02	-0.48	6.00
16,744.00	87.93	255.11	10,939.92	-4,868.70	-1,143.46	4,863.87	5.91	-0.15	5.92
16,839.00	89.33	260.25	10,942.19	-4,888.96	-1,236.22	4,883.74	5.61	1.47	5.41
16,934.00	89.27	266.03	10,943.35	-4,900.30	-1,330.49	4,894.68	6.08	-0.06	6.08
17,027.00	89.83	272.44	10,944.08	-4,901.54	-1,423.43	4,895.54	6.92	0.60	6.89
17,121.00	90.36	278.97	10,943.93	-4,892.20	-1,516.91	4,885.80	6.97	0.56	6.95
17,215.00	89.55	285.35	10,944.00	-4,872.41	-1,608.76	4,865.63	6.84	-0.86	6.79
17,309.00	88.91	292.42	10,945.26	-4,842.01	-1,697.63	4,834.86	7.55	-0.68	7.52
17,404.00	88.57	299.68	10,947.36	-4,800.33	-1,782.90	4,792.82	7.65	-0.36	7.64
17,499.00	88.21	306.89	10,950.03	-4,748.25	-1,862.23	4,740.40	7.60	-0.38	7.59
17,516.67	88.22	308.31	10,950.58	-4,737.47	-1,876.23	4,729.57	8.03	0.04	8.03
Cross 330' HL: 17516.67' MD, 10950.58' TVD									
17,593.00	88.26	314.44	10,952.93	-4,687.07	-1,933.45	4,678.93	8.03	0.06	8.03
17,687.00	89.52	321.77	10,954.75	-4,617.16	-1,996.16	4,608.76	7.91	1.34	7.80
17,781.00	89.61	326.43	10,955.47	-4,541.04	-2,051.27	4,532.40	4.96	0.10	4.96
17,876.00	89.55	330.50	10,956.16	-4,460.09	-2,100.94	4,451.25	4.28	-0.06	4.28
17,970.00	89.78	334.34	10,956.71	-4,376.78	-2,144.45	4,367.76	4.09	0.24	4.09
18,065.00	89.83	338.57	10,957.04	-4,289.71	-2,182.39	4,280.53	4.45	0.05	4.45
18,160.00	89.19	342.67	10,957.85	-4,200.12	-2,213.91	4,190.81	4.37	-0.67	4.32
18,254.00	89.16	346.75	10,959.20	-4,109.47	-2,238.69	4,100.06	4.34	-0.03	4.34
18,349.00	89.80	351.19	10,960.06	-4,016.26	-2,256.86	4,006.77	4.72	0.67	4.67
18,443.00	91.57	355.50	10,958.94	-3,922.92	-2,267.75	3,913.39	4.96	1.88	4.59
18,538.00	92.27	358.05	10,955.76	-3,828.14	-2,273.09	3,818.58	2.78	0.74	2.68
18,632.00	92.66	358.27	10,951.71	-3,734.27	-2,276.11	3,724.70	0.48	0.41	0.23
18,740.00	90.56	357.51	10,948.68	-3,626.39	-2,280.08	3,616.81	2.07	-1.94	-0.70
18,834.00	90.49	354.66	10,947.82	-3,532.63	-2,286.50	3,523.02	3.03	-0.07	-3.03
18,929.00	89.98	355.17	10,947.43	-3,438.00	-2,294.92	3,428.36	0.76	-0.54	0.54
19,024.00	90.13	357.37	10,947.34	-3,343.21	-2,301.10	3,333.54	2.32	0.16	2.32
19,118.00	90.21	358.00	10,947.06	-3,249.29	-2,304.90	3,239.60	0.68	0.09	0.67
19,213.00	90.10	359.67	10,946.80	-3,154.31	-2,306.83	3,144.62	1.76	-0.12	1.76
19,308.00	91.12	0.21	10,945.79	-3,059.32	-2,306.93	3,049.63	1.21	1.07	0.57
19,403.00	91.19	359.93	10,943.88	-2,964.34	-2,306.81	2,954.65	0.30	0.07	-0.29
19,497.00	91.30	0.11	10,941.83	-2,870.36	-2,306.78	2,860.67	0.22	0.12	0.19
19,592.00	91.22	0.04	10,939.74	-2,775.38	-2,306.65	2,765.70	0.11	-0.08	-0.07
19,686.00	91.19	0.36	10,937.77	-2,681.40	-2,306.33	2,671.72	0.34	-0.03	0.34
19,780.00	91.76	0.06	10,935.35	-2,587.44	-2,305.98	2,577.75	0.69	0.61	-0.32
19,875.00	91.83	0.14	10,932.37	-2,492.48	-2,305.82	2,482.80	0.11	0.07	0.08
19,970.00	92.29	0.34	10,928.96	-2,397.55	-2,305.42	2,387.87	0.53	0.48	0.21
20,064.00	92.37	0.68	10,925.14	-2,303.63	-2,304.58	2,293.95	0.37	0.09	0.36
20,158.00	92.44	1.35	10,921.19	-2,209.72	-2,302.92	2,200.06	0.72	0.07	0.71
20,253.00	92.58	2.23	10,917.03	-2,114.86	-2,299.95	2,105.21	0.94	0.15	0.93
20,347.00	92.44	2.22	10,912.91	-2,021.02	-2,296.31	2,011.39	0.15	-0.15	-0.01
20,442.00	92.60	2.64	10,908.74	-1,926.20	-2,292.28	1,916.58	0.47	0.17	0.44



Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Gong Worthy State Com 601H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3809.30usft (Cactus 171)
Site:	Gong Worthy - Hefeweizen Pad	MD Reference:	RKB @ 3809.30usft (Cactus 171)
Well:	Gong Worthy State Com 601H	North Reference:	Grid
Wellbore:	ST01 / 73851	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)
20,536.00	92.77	0.41	10,904.33	-1,832.34	-2,289.79	1,822.74	2.38	0.18	-2.37
20,631.00	92.33	358.92	10,900.11	-1,737.44	-2,290.34	1,727.83	1.63	-0.46	-1.57
20,725.00	92.32	358.08	10,896.29	-1,643.55	-2,292.80	1,633.93	0.89	-0.01	-0.89
20,820.00	92.04	357.42	10,892.68	-1,548.70	-2,296.53	1,539.06	0.75	-0.29	-0.69
20,914.00	89.30	355.52	10,891.58	-1,454.89	-2,302.31	1,445.24	3.55	-2.91	-2.02
21,009.00	87.84	353.66	10,893.95	-1,360.35	-2,311.27	1,350.66	2.49	-1.54	-1.96
21,103.00	87.39	354.49	10,897.86	-1,266.94	-2,320.96	1,257.20	1.00	-0.48	0.88
21,197.00	88.98	357.65	10,900.84	-1,173.22	-2,327.40	1,163.46	3.76	1.69	3.36
21,291.00	90.13	357.62	10,901.57	-1,079.30	-2,331.28	1,069.53	1.22	1.22	-0.03
21,387.00	89.75	355.81	10,901.67	-983.47	-2,336.78	973.67	1.93	-0.40	-1.89
21,482.00	89.84	356.04	10,902.01	-888.71	-2,343.53	878.88	0.26	0.09	0.24
21,577.00	89.82	356.43	10,902.29	-793.91	-2,349.77	784.06	0.41	-0.02	0.41
21,672.00	89.31	359.83	10,903.01	-698.98	-2,352.87	689.12	3.62	-0.54	3.58
21,766.00	89.58	3.76	10,903.92	-605.05	-2,349.92	595.20	4.19	0.29	4.18
21,861.00	90.04	7.27	10,904.24	-510.50	-2,340.79	500.70	3.73	0.48	3.69
21,956.00	90.41	7.26	10,903.87	-416.27	-2,328.78	406.51	0.39	0.39	-0.01
22,051.00	90.56	5.11	10,903.06	-321.83	-2,318.55	312.12	2.27	0.16	-2.26
22,145.00	90.39	4.02	10,902.28	-228.13	-2,311.06	218.45	1.17	-0.18	-1.16
22,241.00	90.19	3.76	10,901.80	-132.36	-2,304.55	122.70	0.34	-0.21	-0.27
22,335.00	90.35	3.99	10,901.35	-38.57	-2,298.20	28.94	0.30	0.17	0.24
22,430.00	90.25	3.88	10,900.86	56.20	-2,291.68	-65.80	0.16	-0.11	-0.12
22,477.00	90.39	4.00	10,900.59	103.09	-2,288.45	-112.68	0.39	0.30	0.26
Final Phoenix MWD Survey - ST01									
22,501.00	90.39	4.00	10,900.43	127.03	-2,286.78	-136.61	0.00	0.00	0.00
Lat: 32.6383338, Long: -103.4993058 - Projection to TD - ST01									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
150.00	150.00	0.41	-0.38	First Phoenix MWD Survey - OH	
5,766.00	5,748.62	262.43	-139.99	Tie In - ST01	
5,877.00	5,859.11	272.44	-140.36	First Phoenix MWD Survey - ST01	
10,351.00	10,303.66	727.24	-313.26	Lat: 32.6399407, Long: -103.4928800	
10,351.00	10,303.66	727.24	-313.26	KOP: 10351.00' MD, 10303.66' TVD - ST01	
11,337.16	10,947.24	144.58	-277.75	Lat: 32.6383385, Long: -103.4927796	
11,337.16	10,947.24	144.58	-277.75	FTP: 11337.16' MD, 10947.24' TVD - ST01	
16,408.13	10,929.74	-4,730.62	-838.96	Cross 330' HL: 16408.13' MD, 10929.73' TVD	
17,516.67	10,950.58	-4,737.47	-1,876.23	Cross 330' HL: 17516.67' MD, 10950.58' TVD	
22,477.00	10,900.59	103.09	-2,288.45	Final Phoenix MWD Survey - ST01	
22,501.00	10,900.43	127.03	-2,286.78	Lat: 32.6383338, Long: -103.4993058	
22,501.00	10,900.43	127.03	-2,286.78	Projection to TD - ST01	



Survey Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Gong Worthy State Com 601H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3809.30usft (Cactus 171)
Site:	Gong Worthy - Hefeweizen Pad	MD Reference:	RKB @ 3809.30usft (Cactus 171)
Well:	Gong Worthy State Com 601H	North Reference:	Grid
Wellbore:	ST01 / 73851	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Cactus 171)	Database:	USAEDMDB

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 374307

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 374307
	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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CONDITIONS

Action 374307

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT C-104 Expires 90 days from ready date for a Horizontal well.	11/1/2024