

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural ResourcesForm C-104
Revised August 1, 2011Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

¹ Operator name and Address Marathon Oil Permian LLC 5555 San Felipe St., Houston, TX 77056		² OGRID Number 372098
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 025-46484	⁵ Pool Name WC-025 G-08 S2535340; BONE SPRING	⁶ Pool Code 97088
⁷ Property Code 326318	⁸ Property Name CHARLIE MURPHY 6 TB FED COM	⁹ Well Number 14H

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
A	6	26S	35E		272	NORTH	1171	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
P	7	26S	35E		101	SOUTH	1313	EAST	LEA
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				
F	P								

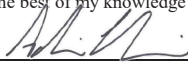
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
16587	ORYX ENERGY CO	O
24650	TARGA MIDSTREAM SERVICES LLC	G

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTB	²⁵ Perforations	²⁶ DHC, MC
12/17/2019	5/17/2020	22647' / 12518'	17129' / 12447'	12490' - 17044' and 18674' - 22647'	DHC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13-3/8", 54.5#, J55, STC	1171'	1175		
9-7/8"	7-5/8", 29.7#, P110, BTC	11848'	675		
6-1/8"	5-1/2", 23#, P110, TWL	17175'	510		
	2-3/8" Tubing	Set 12279'			

V. Well Test Data

³¹ Date New Oil 9/4/2020	³² Gas Delivery Date 9/4/2020	³³ Test Date 9/19/2020	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 180	³⁶ Csg. Pressure 1046
³⁷ Choke Size 64	³⁸ Oil 2604	³⁹ Water 2869	⁴⁰ Gas 3769		⁴¹ Test Method Gas Lift
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: 			OIL CONSERVATION DIVISION		
Printed name: Adrian Covarrubias			Approved by: KURT SIMMONS		
Title: Regulatory Professional			Title: NMOCD, SANTA FE		
E-mail Address: acovarrubias@marathonoil.com			Approval Date: 09/20/2021		
Date: 9/14/2021		Phone: 713-296-3368			

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		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 025-46484	⁵ Pool Name WC-025 G-09 S263504N; WOLFCAMP	⁶ Pool Code 98117
⁷ Property Code 326318	⁸ Property Name CHARLIE MURPHY 6 TB FED COM	⁹ Well Number 14H

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A	6	26S	35E		272	NORTH	1171	EAST	LEA

¹¹ Bottom Hole Location

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P	7	26S	35E		101	SOUTH	1313	EAST	LEA
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

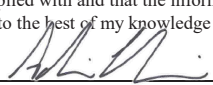
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IV. Well Completion Data

²¹ Spud Date 12/17/2019	²² Ready Date 5/17/2020	²³ TD 22647' / 12518'	²⁴ PBTB 17129' / 12447'	²⁵ Perforations 17852' - 18674'	²⁶ DHC, MC DHC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13-3/8", 54.5#, J55, STC	1171'	1175		
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6-1/8"	5-1/5", 23#, P110, TWL	17175'	510		
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³⁷ Choke Size 64	³⁸ Oil 196	³⁹ Water 284	⁴⁰ Gas 241		⁴¹ Test Method Gas Lift
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: 			OIL CONSERVATION DIVISION		
Printed name: Adrian Covarrubias			Approved by: KURT SIMMONS		
Title: Regulatory Professional			Title: NMOCD, SANTA FE		
E-mail Address: acovarrubias@marathonoil.com			Approval Date: 09/20/2021		
Date: 9/14/2021		Phone: 713-296-3368			

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
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OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised August 1, 2011
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-46484	² Pool Code 97088	³ Pool Name WC-025 G-08 S2535340; BONE SPRING
⁴ Property Code 326318	Property Name CHARLIE MURPHY 6 TB FED COM	⁶ Well Number 14H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3270'

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
A	6	26S	35E		272	NORTH	1171	EAST	LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	26S	35E		101	SOUTH	1313	EAST	LEA
¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 831074.50' / Y: 388675.34' B - X: 831129.70' / Y: 383390.47' C - X: 828491.21' / Y: 383378.93' D - X: 828434.68' / Y: 388658.54' E - X: 828377.14' / Y: 393941.11' F - X: 831020.60' / Y: 393959.45' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 789886.87' / Y: 388617.77' B - X: 789941.84' / Y: 383333.04' C - X: 787303.38' / Y: 383321.52' D - X: 787247.09' / Y: 388600.99' E - X: 787189.78' / Y: 393883.42' F - X: 789833.21' / Y: 393901.73' SURFACE HOLE LOCATION 272' FNL 1171' FEL, SECTION 6 0' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 829852.77' / Y: 393679.57' LAT: 32.07888054N / LON: 103.40182274W NAD 27, SPCS NM EAST X: 788665.38' / Y: 393621.88' LAT: 32.07875444N / LON: 103.40135930W KICK OFF/FIRST TAKE POINT1 309' FNL 1303' FEL, SECTION 6 12,480' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 829720.90' / Y: 393641.50' LAT: 32.07877903N / LON: 103.40224949W NAD 27, SPCS NM EAST X: 788533.52' / Y: 393583.81' LAT: 32.07865293N / LON: 103.40178604W LAST TAKE POINT1 389' FNL 1313' FEL, SECTION 7 17,852' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 829765.32' / Y: 388278.07' LAT: 32.06403600N / LON: 103.40225551W NAD 27, SPCS NM EAST X: 788577.69' / Y: 388220.52' LAT: 32.06390982N / LON: 103.40179291W FIRST TAKE POINT2 1210' FNL 1329' FEL, SECTION 7 18,674' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 829758.56' / Y: 387456.67' LAT: 32.06177845N / LON: 103.40230020W NAD 27, SPCS NM EAST X: 788570.90' / Y: 387399.14' LAT: 32.06165226N / LON: 103.40183773W LAST TAKE POINT2/BOTTOM HOLE LOCATION 101' FSL 1313' FEL, SECTION 7 22,647' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 829815.55' / Y: 383485.59' LAT: 32.05086212N / LON: 103.40222682W NAD 27, SPCS NM EAST X: 788627.71' / Y: 383428.17' LAT: 32.05073588N / LON: 103.40176498W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Adrian Covarrubias</i> Date: 9/14/2021 Printed Name: Adrian Covarrubias E-mail Address: ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. SEPTEMBER 7, 2021 Date of Survey Signature and Seal of Professional Surveyor: <i>David W. Myers</i> Certificate Number: DAVID W. MYERS 11403
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Distances/areas relative to NAD 83 Combined Scale Factor: 0.99985058 Convergence Angle: 00°29'34.8000"

☐ Horizontal Spacing Unit

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Form C-102
Revised August 1, 2011
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46484	² Pool Code 98117	³ Pool Name WC-025 G-09 S263504N; WOLFCAMP
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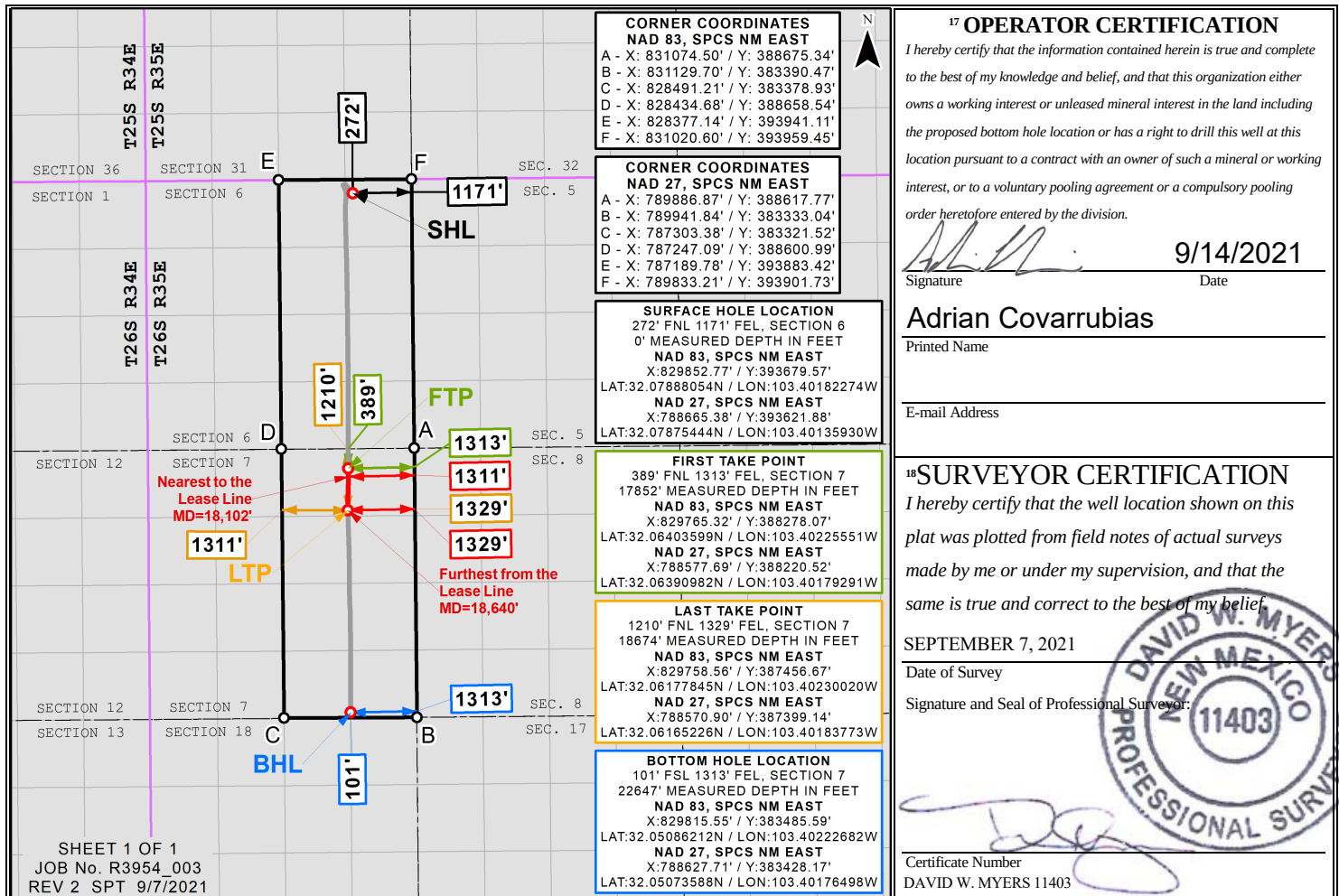
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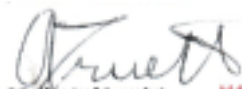


HALLIBURTON

3950 Interwood S. Pkwy • Houston, TX 77032
PHONE 281.986.4400 • FAX 281.986.4499

State of New Mexico, Lea

I, Austen Truett certify that I am employed by Halliburton Energy Services, Inc. (aka Sperry Drilling) and that on the dates of January 13, 2020 through April 15, 2020, I did conduct or supervise the taking of MWD directional surveys for the Charlie Murphy 6 TB Fed Com 14H well from a depth of 1223' MD to a depth of 22647' MD. This data is true, correct, complete and within the limitations of the tools as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling). I am authorized and qualified to make this report and these surveys were conducted at the request of Marathon Oil Permian LLC, for the Charlie Murphy 6 TB Fed Com 14H well in Lea . I have reviewed this report and find that it confirms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling.)



Austen Truett
Field Engineer

Marathon Oil Permian LLC

Lea County, New Mexico (NAD27) Charlie Murphy 6 Pad (Grid)

API#

Charlie Murphy 6 TB Fed Com 14H

SHL: (272' FNL - 1171' FEL)

Wellbore #1

Design: Actual Drilled

Sperry Drilling Services

Combo Report

16 April, 2020

Well Coordinates: 32.07875446
-103.40135930

NAD 1927 (NADCON CONUS)
New Mexico East 3001
393,621.88 N
788,665.38 E

Ground Level: 3,270.00 usft

Local Coordinate Origin:

Centered on Well Charlie Murphy 6 TB Fed Com 14H

Viewing Datum:

RKB (Precision 601) 25' + GL(3270') @ 3295.00usft

TVDs to System:

N

North Reference:

Grid

Unit System:

Midcon (2 decimal)

Version: 5000.15 Build: 91E

Report Version: Midcon Combo v1.15

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Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 TB Fed Com 14H - Actual Drilled

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
0.00	0.00	0.00	0.00	0.00 N	0.00 E	393,621.88	788,665.38	0.00	0.00	0.00	14H KOP/FTP (100' FNL - 1312' FEL) - 14H LTP/BHL (100' FSL - 1309' FEL)
96.00	0.01	80.10	96.00	0.00 N	0.01 E	393,621.88	788,665.39	0.01	0.00	80.10	
128.00	0.50	1.33	128.00	0.14 N	0.01 E	393,622.02	788,665.39	1.56	-0.14	-79.90	
156.00	0.50	145.57	156.00	0.16 N	0.09 E	393,622.04	788,665.47	3.40	-0.16	162.12	
182.00	0.60	147.58	182.00	0.05 S	0.22 E	393,621.83	788,665.60	0.39	0.04	11.93	
211.00	0.60	149.63	211.00	0.30 S	0.38 E	393,621.58	788,665.76	0.07	0.30	91.02	
240.00	0.60	149.76	239.99	0.57 S	0.53 E	393,621.31	788,665.91	0.00	0.57	90.06	
267.00	0.60	149.97	266.99	0.81 S	0.68 E	393,621.07	788,666.06	0.01	0.81	90.10	
312.00	0.70	153.21	311.99	1.26 S	0.92 E	393,620.62	788,666.30	0.24	1.26	21.81	
353.00	0.80	156.74	352.99	1.75 S	1.14 E	393,620.13	788,666.52	0.27	1.74	26.57	
398.00	1.00	160.61	397.98	2.41 S	1.40 E	393,619.47	788,666.78	0.46	2.40	18.85	
442.00	1.10	158.06	441.97	3.16 S	1.68 E	393,618.72	788,667.06	0.25	3.15	-26.32	
487.00	1.30	165.80	486.96	4.06 S	1.97 E	393,617.82	788,667.35	0.57	4.05	42.94	
532.00	1.63	165.01	531.95	5.17 S	2.26 E	393,616.71	788,667.64	0.73	5.16	-3.90	
577.00	1.67	171.25	576.93	6.44 S	2.53 E	393,615.44	788,667.91	0.41	6.43	80.58	
622.00	1.36	170.54	621.91	7.61 S	2.71 E	393,614.27	788,668.09	0.69	7.60	-176.89	
647.00	1.10	156.57	646.91	8.12 S	2.86 E	393,613.76	788,668.24	1.58	8.11	-137.77	
712.00	1.32	155.43	711.89	9.38 S	3.42 E	393,612.50	788,668.80	0.34	9.36	-6.81	
756.00	1.23	155.87	755.88	10.27 S	3.82 E	393,611.61	788,669.20	0.21	10.26	174.01	
801.00	1.19	153.67	800.87	11.13 S	4.23 E	393,610.75	788,669.61	0.14	11.11	-131.82	
844.00	1.10	160.40	843.87	11.92 S	4.56 E	393,609.96	788,669.94	0.38	11.90	127.13	
887.00	1.00	168.90	886.86	12.67 S	4.77 E	393,609.21	788,670.15	0.43	12.66	126.90	
976.00	1.10	163.50	975.84	14.26 S	5.17 E	393,607.62	788,670.55	0.16	14.24	-47.42	
1,021.00	1.00	158.00	1,020.84	15.03 S	5.44 E	393,606.85	788,670.82	0.32	15.02	-137.50	
1,067.00	0.92	145.67	1,066.83	15.71 S	5.79 E	393,606.17	788,671.17	0.48	15.69	-117.26	
1,111.00	0.97	161.00	1,110.82	16.35 S	6.11 E	393,605.53	788,671.49	0.58	16.33	86.54	
1,223.00	1.62	154.32	1,222.79	18.68 S	7.11 E	393,603.20	788,672.49	0.59	18.65	-16.43	
1,313.00	1.84	150.13	1,312.75	21.08 S	8.38 E	393,600.80	788,673.76	0.28	21.05	-32.00	
1,402.00	1.85	151.46	1,401.71	23.58 S	9.78 E	393,598.30	788,675.16	0.05	23.55	77.52	
1,492.00	1.67	146.81	1,491.66	25.95 S	11.19 E	393,595.93	788,676.57	0.26	25.91	-143.88	
1,581.00	1.49	147.44	1,580.63	28.01 S	12.52 E	393,593.87	788,677.90	0.20	27.97	174.80	
1,671.00	1.63	146.57	1,670.60	30.07 S	13.86 E	393,591.81	788,679.24	0.16	30.02	-10.04	
1,760.00	1.44	150.31	1,759.57	32.09 S	15.11 E	393,589.79	788,680.49	0.24	32.04	154.06	
1,850.00	1.51	152.28	1,849.54	34.13 S	16.22 E	393,587.75	788,681.60	0.10	34.07	36.91	
1,939.00	0.42	262.24	1,938.53	35.21 S	16.44 E	393,586.67	788,681.82	1.91	35.15	166.57	
2,029.00	1.43	307.93	2,028.51	34.56 S	15.23 E	393,587.32	788,680.61	1.31	34.51	60.50	

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Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 TB Fed Com 14H - Actual Drilled

Measured		Grid	Vertical	Local Coordinates		Map Coordinates		Dogleg	Vertical	Toolface	Comments
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)	Rate (°/100usft)	Section (usft)	Angle (°)	
2,118.00	1.44	309.99	2,117.49	33.16 S	13.50 E	393,588.72	788,678.88	0.06	33.12	80.06	
2,208.00	2.53	309.60	2,207.43	31.17 S	11.10 E	393,590.71	788,676.48	1.21	31.13	-0.90	
2,297.00	2.65	313.86	2,296.34	28.49 S	8.10 E	393,593.39	788,673.48	0.25	28.46	60.20	
2,387.00	2.54	320.33	2,386.25	25.51 S	5.33 E	393,596.37	788,670.71	0.35	25.50	113.79	
2,477.00	2.47	325.99	2,476.16	22.37 S	2.97 E	393,599.51	788,668.35	0.29	22.36	108.61	
2,566.00	2.56	328.75	2,565.08	19.08 S	0.87 E	393,602.80	788,666.25	0.17	19.08	54.77	
2,656.00	4.17	324.03	2,654.92	14.72 S	2.10 W	393,607.16	788,663.28	1.81	14.72	-12.13	
2,746.00	4.26	332.91	2,744.67	9.09 S	5.54 W	393,612.79	788,659.84	0.73	9.11	86.59	
2,835.00	4.17	337.87	2,833.43	3.15 S	8.26 W	393,618.73	788,657.12	0.42	3.18	106.33	
2,925.00	4.21	341.25	2,923.19	3.01 N	10.56 W	393,624.89	788,654.82	0.28	-2.97	82.49	
3,014.00	4.35	345.88	3,011.95	9.38 N	12.43 W	393,631.26	788,652.95	0.42	-9.33	70.26	
3,104.00	4.22	345.88	3,101.69	15.90 N	14.07 W	393,637.78	788,651.31	0.14	-15.85	180.00	
3,193.00	4.09	325.31	3,190.47	21.68 N	16.68 W	393,643.56	788,648.70	1.67	-21.63	-105.19	
3,283.00	4.40	333.11	3,280.22	27.40 N	20.07 W	393,649.28	788,645.31	0.73	-27.33	65.69	
3,372.00	5.04	335.97	3,368.92	34.02 N	23.20 W	393,655.90	788,642.18	0.77	-33.94	21.62	
3,462.00	4.61	336.00	3,458.60	40.93 N	26.28 W	393,662.81	788,639.10	0.48	-40.84	179.68	
3,552.00	4.36	337.12	3,548.32	47.39 N	29.09 W	393,669.27	788,636.29	0.29	-47.29	161.25	
3,641.00	3.64	317.46	3,637.11	52.59 N	32.31 W	393,674.47	788,633.07	1.73	-52.48	-127.27	
3,731.00	3.88	298.09	3,726.92	56.12 N	36.93 W	393,678.00	788,628.45	1.43	-56.00	-89.06	
3,820.00	3.88	299.31	3,815.71	59.02 N	42.21 W	393,680.90	788,623.17	0.09	-58.88	90.61	
3,910.00	4.06	299.60	3,905.50	62.08 N	47.64 W	393,683.96	788,617.74	0.20	-61.92	6.51	
3,999.00	4.25	297.88	3,994.27	65.18 N	53.29 W	393,687.06	788,612.09	0.26	-65.00	-34.12	
4,089.00	4.27	310.91	4,084.02	68.93 N	58.77 W	393,690.81	788,606.61	1.07	-68.74	95.32	
4,178.00	4.29	313.83	4,172.77	73.41 N	63.68 W	393,695.29	788,601.70	0.25	-73.20	86.21	
4,268.00	4.13	314.55	4,262.53	78.01 N	68.41 W	393,699.89	788,596.97	0.19	-77.79	162.08	
4,357.00	4.00	314.67	4,351.30	82.44 N	72.91 W	393,704.32	788,592.47	0.15	-82.20	176.32	
4,447.00	3.99	313.95	4,441.08	86.82 N	77.39 W	393,708.70	788,587.99	0.06	-86.57	-101.63	
4,536.00	3.53	320.03	4,529.89	91.07 N	81.38 W	393,712.95	788,584.00	0.68	-90.80	142.09	
4,626.00	2.64	334.34	4,619.76	95.06 N	84.06 W	393,716.94	788,581.32	1.30	-94.78	146.13	
4,715.00	2.29	347.91	4,708.68	98.65 N	85.32 W	393,720.53	788,580.06	0.76	-98.37	127.61	
4,805.00	2.99	322.01	4,798.59	102.26 N	87.14 W	393,724.14	788,578.24	1.52	-101.97	-72.96	
4,894.00	2.71	318.60	4,887.48	105.67 N	89.96 W	393,727.55	788,575.42	0.37	-105.37	-150.50	
4,984.00	2.14	330.43	4,977.40	108.72 N	92.20 W	393,730.60	788,573.18	0.84	-108.42	144.52	
5,073.00	3.48	326.45	5,066.29	112.42 N	94.51 W	393,734.30	788,570.87	1.52	-112.11	-10.28	
5,163.00	4.97	321.92	5,156.04	117.77 N	98.42 W	393,739.65	788,566.96	1.70	-117.44	-14.89	
5,252.00	4.83	321.03	5,244.72	123.71 N	103.16 W	393,745.59	788,562.22	0.18	-123.37	-151.94	
5,342.00	4.74	318.96	5,334.40	129.46 N	107.98 W	393,751.34	788,557.40	0.22	-129.11	-118.56	

HALLIBURTON

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Design Report for Charlie Murphy 6 TB Fed Com 14H - Actual Drilled

Measured		Grid	Vertical	Local Coordinates		Map Coordinates		Dogleg	Vertical	Toolface	Comments
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)	Rate (°/100usft)	Section (usft)	Angle (°)	
5,521.00	4.70	318.04	5,512.80	140.50 N	117.74 W	393,762.38	788,547.64	0.05	-140.10	-118.31	
5,610.00	4.99	317.16	5,601.48	146.05 N	122.81 W	393,767.93	788,542.57	0.34	-145.64	-14.81	
5,700.00	5.04	317.53	5,691.13	151.83 N	128.14 W	393,773.71	788,537.24	0.07	-151.41	33.08	
5,789.00	5.02	315.61	5,779.79	157.50 N	133.51 W	393,779.38	788,531.87	0.19	-157.05	-97.73	
5,879.00	3.34	318.54	5,869.55	162.28 N	138.00 W	393,784.16	788,527.38	1.88	-161.82	174.21	
5,968.00	1.63	320.26	5,958.46	165.19 N	140.52 W	393,787.07	788,524.86	1.92	-164.73	178.36	
6,057.00	1.75	318.39	6,047.42	167.18 N	142.24 W	393,789.06	788,523.14	0.15	-166.71	-25.62	
6,147.00	1.76	323.70	6,137.38	169.32 N	143.97 W	393,791.20	788,521.41	0.18	-168.85	89.14	
6,236.00	1.70	322.23	6,226.34	171.47 N	145.58 W	393,793.35	788,519.80	0.08	-170.99	-144.24	
6,326.00	1.64	314.19	6,316.30	173.42 N	147.32 W	393,795.30	788,518.06	0.27	-172.93	-108.36	
6,416.00	1.52	313.96	6,406.27	175.15 N	149.11 W	393,797.03	788,516.27	0.13	-174.65	-177.09	
6,505.00	0.69	289.19	6,495.25	176.14 N	150.46 W	393,798.02	788,514.92	1.06	-175.64	-162.07	
6,595.00	0.81	233.22	6,585.24	175.94 N	151.48 W	393,797.82	788,513.90	0.79	-175.44	-109.42	
6,684.00	0.74	232.34	6,674.24	175.21 N	152.44 W	393,797.09	788,512.94	0.08	-174.71	-170.79	
6,774.00	0.62	243.58	6,764.23	174.64 N	153.34 W	393,796.52	788,512.04	0.20	-174.13	137.50	
6,863.00	0.70	234.76	6,853.22	174.11 N	154.21 W	393,795.99	788,511.17	0.15	-173.60	-56.25	
6,953.00	0.85	224.31	6,943.22	173.32 N	155.13 W	393,795.20	788,510.25	0.23	-172.80	-48.60	
7,042.00	0.74	225.06	7,032.21	172.44 N	156.00 W	393,794.32	788,509.38	0.12	-171.92	174.97	
7,132.00	0.81	226.57	7,122.20	171.59 N	156.87 W	393,793.47	788,508.51	0.08	-171.07	17.02	
7,221.00	0.79	225.93	7,211.19	170.73 N	157.77 W	393,792.61	788,507.61	0.02	-170.21	-156.25	
7,229.00	0.78	225.01	7,219.19	170.66 N	157.85 W	393,792.54	788,507.53	0.18	-170.13	-117.54	Cross 100' FNL 7229' MD / 7219' TVD (100.00' FNL, 1316.69' FWL)
7,311.00	0.73	214.74	7,301.18	169.83 N	158.54 W	393,791.71	788,506.84	0.18	-169.30	-116.62	
7,400.00	0.80	212.87	7,390.17	168.84 N	159.20 W	393,790.72	788,506.18	0.08	-168.31	-20.57	
7,490.00	0.82	209.28	7,480.17	167.75 N	159.86 W	393,789.63	788,505.52	0.06	-167.22	-70.29	
7,579.00	0.79	205.50	7,569.16	166.64 N	160.43 W	393,788.52	788,504.95	0.07	-166.11	-121.34	
7,669.00	0.99	211.47	7,659.15	165.42 N	161.11 W	393,787.30	788,504.27	0.24	-164.89	27.88	
7,758.00	1.06	206.41	7,748.13	164.03 N	161.87 W	393,785.91	788,503.51	0.13	-163.49	-54.83	
7,848.00	0.61	185.67	7,838.12	162.81 N	162.29 W	393,784.69	788,503.09	0.59	-162.27	-156.19	
7,937.00	0.59	155.88	7,927.12	161.92 N	162.15 W	393,783.80	788,503.23	0.35	-161.38	-108.48	
8,027.00	0.50	175.62	8,017.11	161.10 N	161.93 W	393,782.98	788,503.45	0.23	-160.56	125.26	
8,116.00	0.44	192.79	8,106.11	160.38 N	161.98 W	393,782.26	788,503.40	0.17	-159.84	121.50	
8,206.00	0.58	203.79	8,196.11	159.63 N	162.24 W	393,781.51	788,503.14	0.19	-159.09	40.55	
8,296.00	0.62	200.34	8,286.10	158.75 N	162.59 W	393,780.63	788,502.79	0.06	-158.21	-43.82	
8,385.00	0.45	178.31	8,375.10	157.95 N	162.75 W	393,779.83	788,502.63	0.30	-157.41	-140.24	
8,475.00	0.34	192.50	8,465.10	157.34 N	162.80 W	393,779.22	788,502.58	0.16	-156.80	145.30	
8,564.00	0.19	162.22	8,554.10	156.94 N	162.81 W	393,778.82	788,502.57	0.23	-156.40	-151.43	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 TB Fed Com 14H - Actual Drilled

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
8,654.00	0.10	215.65	8,644.09	156.73 N	162.81 W	393,778.61	788,502.57	0.17	-156.19	148.38	
8,743.00	0.18	157.58	8,733.09	156.54 N	162.80 W	393,778.42	788,502.58	0.17	-156.00	-91.80	
8,833.00	0.18	187.50	8,823.09	156.27 N	162.76 W	393,778.15	788,502.62	0.10	-155.73	104.96	
8,923.00	0.19	226.36	8,913.09	156.03 N	162.89 W	393,777.91	788,502.49	0.14	-155.49	105.05	
9,012.00	0.15	209.19	9,002.09	155.82 N	163.05 W	393,777.70	788,502.33	0.07	-155.28	-136.51	
9,101.00	0.21	195.10	9,091.09	155.57 N	163.15 W	393,777.45	788,502.23	0.08	-155.02	-43.60	
9,191.00	0.12	229.09	9,181.09	155.34 N	163.27 W	393,777.22	788,502.11	0.14	-154.80	148.74	
9,281.00	0.20	192.90	9,271.09	155.13 N	163.37 W	393,777.01	788,502.01	0.14	-154.59	-70.68	
9,370.00	0.43	156.04	9,360.09	154.67 N	163.27 W	393,776.55	788,502.11	0.33	-154.13	-60.82	
9,460.00	0.35	155.72	9,450.09	154.11 N	163.02 W	393,775.99	788,502.36	0.09	-153.57	-178.60	
9,549.00	0.40	170.08	9,539.09	153.56 N	162.86 W	393,775.44	788,502.52	0.12	-153.02	69.29	
9,639.00	0.74	240.58	9,629.08	152.97 N	163.31 W	393,774.85	788,502.07	0.79	-152.42	102.37	
9,728.00	1.33	247.12	9,718.07	152.28 N	164.76 W	393,774.16	788,500.62	0.68	-151.73	14.60	
9,818.00	1.35	242.05	9,808.04	151.38 N	166.66 W	393,773.26	788,498.72	0.13	-150.82	-82.97	
9,907.00	1.18	237.42	9,897.02	150.39 N	168.36 W	393,772.27	788,497.02	0.22	-149.83	-151.28	
9,997.00	0.35	294.63	9,987.01	150.01 N	169.39 W	393,771.89	788,495.99	1.15	-149.45	163.45	
10,087.00	0.74	14.91	10,077.01	150.69 N	169.49 W	393,772.57	788,495.89	0.85	-150.12	107.15	
10,176.00	1.26	49.26	10,166.00	151.88 N	168.60 W	393,773.76	788,496.78	0.87	-151.32	67.10	
10,265.00	1.28	60.22	10,254.98	153.01 N	167.00 W	393,774.89	788,498.38	0.27	-152.46	90.79	
10,355.00	1.41	64.44	10,344.95	153.99 N	165.13 W	393,775.87	788,500.25	0.18	-153.44	39.43	
10,445.00	1.42	65.43	10,434.92	154.93 N	163.11 W	393,776.81	788,502.27	0.03	-154.39	68.25	
10,534.00	1.13	54.93	10,523.90	155.89 N	161.39 W	393,777.77	788,503.99	0.42	-155.36	-146.31	
10,624.00	0.84	40.95	10,613.89	156.90 N	160.23 W	393,778.78	788,505.15	0.42	-156.37	-147.20	
10,713.00	0.68	13.24	10,702.88	157.91 N	159.68 W	393,779.79	788,505.70	0.44	-157.38	-126.97	
10,803.00	0.56	7.25	10,792.88	158.86 N	159.51 W	393,780.74	788,505.87	0.15	-158.33	-154.60	
10,892.00	0.35	17.90	10,881.87	159.55 N	159.37 W	393,781.43	788,506.01	0.25	-159.02	163.33	
10,982.00	0.65	290.47	10,971.87	159.99 N	159.76 W	393,781.87	788,505.62	0.80	-159.46	-116.29	
11,072.00	0.46	277.57	11,061.87	160.22 N	160.60 W	393,782.10	788,504.78	0.25	-159.69	-153.01	
11,161.00	0.57	264.00	11,150.86	160.22 N	161.39 W	393,782.10	788,503.99	0.18	-159.68	-54.87	
11,251.00	0.94	277.77	11,240.85	160.27 N	162.57 W	393,782.15	788,502.81	0.46	-159.73	33.12	
11,430.00	2.69	276.68	11,419.76	160.96 N	168.20 W	393,782.84	788,497.18	0.98	-160.40	-1.68	
11,519.00	2.69	284.82	11,508.66	161.74 N	172.29 W	393,783.62	788,493.09	0.43	-161.17	94.07	
11,609.00	2.81	283.27	11,598.56	162.78 N	176.48 W	393,784.66	788,488.90	0.16	-162.20	-32.56	
11,698.00	2.75	287.92	11,687.45	163.94 N	180.63 W	393,785.82	788,484.75	0.26	-163.34	107.21	
11,799.00	2.35	290.99	11,788.35	165.43 N	184.87 W	393,787.31	788,480.51	0.42	-164.82	162.68	
11,888.00	1.64	269.52	11,877.30	166.07 N	187.85 W	393,787.95	788,477.53	1.15	-165.45	-143.92	

HALLIBURTON

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Design Report for Charlie Murphy 6 TB Fed Com 14H - Actual Drilled

Measured		Grid	Vertical	Local Coordinates		Map Coordinates		Dogleg	Vertical	Toolface	
Depth	Inclination	Azimuth	Depth	Northing	Easting	Northing	Easting	Rate	Section	Angle	Comments
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(usft)	(°)	
11,976.00	4.60	192.36	11,965.18	162.61 N	189.86 W	393,784.49	788,475.52	5.14	-161.98	-97.80	
12,037.00	6.07	177.62	12,025.92	157.00 N	190.25 W	393,778.88	788,475.13	3.28	-156.37	-50.49	
12,126.00	12.13	155.90	12,113.78	143.75 N	186.24 W	393,765.63	788,479.14	7.71	-143.13	-40.60	
12,216.00	22.13	151.42	12,199.69	120.17 N	174.23 W	393,742.05	788,491.15	11.20	-119.59	-9.68	
12,306.00	31.51	149.45	12,279.92	84.95 N	154.12 W	393,706.83	788,511.26	10.47	-84.44	-6.30	
12,394.00	47.71	168.95	12,347.74	32.65 N	136.01 W	393,654.53	788,529.37	23.03	-32.20	45.48	
12,484.00	64.60	182.94	12,397.86	41.40 S	131.67 W	393,580.48	788,533.71	22.71	41.84	38.71	
12,574.00	77.36	183.49	12,427.13	126.18 S	136.44 W	393,495.70	788,528.94	14.19	126.63	2.43	
12,663.00	88.67	182.56	12,437.93	214.25 S	141.09 W	393,407.63	788,524.29	12.75	214.72	-4.73	
12,720.00	90.00	181.61	12,438.60	271.21 S	143.16 W	393,350.67	788,522.22	2.87	271.68	-35.54	Landing Point 90° Inc 12720' MD / 12438' TVD (541.96' FNL, 1316.58' FEL)
12,786.00	91.54	180.51	12,437.71	337.19 S	144.38 W	393,284.69	788,521.00	2.87	337.66	-35.53	
12,905.00	90.07	179.37	12,436.04	456.17 S	144.26 W	393,165.71	788,521.12	1.56	456.65	-142.20	
12,995.00	89.98	178.56	12,436.00	546.15 S	142.63 W	393,075.73	788,522.75	0.91	546.62	-96.34	
13,084.00	89.97	178.22	12,436.04	635.12 S	140.13 W	392,986.76	788,525.25	0.38	635.58	-91.68	
13,174.00	90.28	179.00	12,435.84	725.09 S	137.95 W	392,896.79	788,527.43	0.93	725.54	68.32	
13,263.00	90.63	178.76	12,435.13	814.07 S	136.21 W	392,807.81	788,529.17	0.48	814.52	-34.44	
13,352.00	90.39	178.51	12,434.34	903.04 S	134.09 W	392,718.84	788,531.29	0.39	903.48	-133.83	
13,442.00	90.39	178.30	12,433.73	993.01 S	131.59 W	392,628.87	788,533.79	0.23	993.44	-90.00	
13,532.00	90.19	178.59	12,433.27	1,082.97 S	129.14 W	392,538.91	788,536.24	0.39	1,083.39	124.59	
13,621.00	90.58	178.88	12,432.67	1,171.95 S	127.18 W	392,449.93	788,538.20	0.55	1,172.36	36.63	
13,711.00	90.42	178.18	12,431.89	1,261.91 S	124.87 W	392,359.97	788,540.51	0.80	1,262.32	-102.87	
13,801.00	90.14	178.38	12,431.45	1,351.87 S	122.17 W	392,270.01	788,543.21	0.38	1,352.27	144.46	
13,891.00	90.26	178.17	12,431.14	1,441.83 S	119.46 W	392,180.05	788,545.92	0.27	1,442.22	-60.25	
13,980.00	90.46	178.52	12,430.58	1,530.79 S	116.89 W	392,091.09	788,548.49	0.45	1,531.17	60.25	
14,070.00	88.97	179.09	12,431.02	1,620.77 S	115.01 W	392,001.11	788,550.37	1.77	1,621.14	159.07	
14,160.00	89.95	179.13	12,431.87	1,710.75 S	113.61 W	391,911.13	788,551.77	1.09	1,711.12	2.34	
14,249.00	90.35	178.63	12,431.64	1,799.73 S	111.87 W	391,822.15	788,553.51	0.72	1,800.09	-51.34	
14,339.00	90.29	178.89	12,431.14	1,889.71 S	109.93 W	391,732.17	788,555.45	0.30	1,890.07	102.99	
14,429.00	90.05	179.13	12,430.87	1,979.70 S	108.37 W	391,642.18	788,557.01	0.38	1,980.05	135.00	
14,518.00	89.89	178.98	12,430.92	2,068.69 S	106.90 W	391,553.19	788,558.48	0.25	2,069.03	-136.85	
14,607.00	90.28	179.24	12,430.78	2,157.67 S	105.52 W	391,464.21	788,559.86	0.53	2,158.01	33.69	
14,696.00	90.40	179.49	12,430.26	2,246.67 S	104.54 W	391,375.21	788,560.84	0.31	2,247.00	64.36	
14,786.00	89.88	178.93	12,430.04	2,336.66 S	103.29 W	391,285.22	788,562.09	0.85	2,336.99	-132.88	
14,875.00	90.64	179.50	12,429.63	2,425.65 S	102.08 W	391,196.23	788,563.30	1.07	2,425.97	36.87	
14,965.00	90.22	179.52	12,428.96	2,515.64 S	101.31 W	391,106.24	788,564.07	0.47	2,515.96	177.27	
15,055.00	90.34	179.80	12,428.52	2,605.64 S	100.77 W	391,016.24	788,564.61	0.34	2,605.96	66.80	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 TB Fed Com 14H - Actual Drilled

Measured		Grid	Vertical	Local Coordinates		Map Coordinates		Dogleg	Vertical	Toolface	Comments
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)	Rate (°/100usft)	Section (usft)	Angle (°)	
15,144.00	90.24	179.21	12,428.07	2,694.63 S	100.00 W	390,927.25	788,565.38	0.67	2,694.95	-99.62	
15,234.00	90.52	179.12	12,427.47	2,784.62 S	98.69 W	390,837.26	788,566.69	0.33	2,784.93	-17.82	
15,324.00	90.00	179.37	12,427.06	2,874.61 S	97.51 W	390,747.27	788,567.87	0.64	2,874.92	154.32	
15,413.00	90.09	179.83	12,426.99	2,963.61 S	96.88 W	390,658.27	788,568.50	0.53	2,963.92	78.93	
15,503.00	90.45	179.47	12,426.57	3,053.61 S	96.33 W	390,568.27	788,569.05	0.57	3,053.91	-45.00	
15,592.00	90.04	178.82	12,426.19	3,142.60 S	95.01 W	390,479.28	788,570.37	0.86	3,142.89	-122.24	
15,682.00	88.86	178.96	12,427.05	3,232.57 S	93.26 W	390,389.31	788,572.12	1.32	3,232.86	173.23	
15,772.00	89.68	179.36	12,428.20	3,322.56 S	91.94 W	390,299.32	788,573.44	1.01	3,322.84	26.00	
15,862.00	89.28	179.44	12,429.01	3,412.55 S	91.00 W	390,209.33	788,574.38	0.45	3,412.83	168.69	
15,951.00	89.52	180.03	12,429.95	3,501.54 S	90.59 W	390,120.34	788,574.79	0.72	3,501.82	67.87	
16,041.00	89.77	179.32	12,430.50	3,591.54 S	90.08 W	390,030.34	788,575.30	0.84	3,591.82	-70.60	
16,131.00	87.95	179.07	12,432.29	3,681.51 S	88.81 W	389,940.37	788,576.57	2.04	3,681.78	-172.18	
16,221.00	87.51	179.74	12,435.86	3,771.43 S	87.88 W	389,850.45	788,577.50	0.89	3,771.70	123.33	
16,310.00	90.47	181.19	12,437.43	3,860.40 S	88.60 W	389,761.48	788,576.78	3.70	3,860.67	26.11	
16,399.00	90.81	180.18	12,436.43	3,949.39 S	89.67 W	389,672.49	788,575.71	1.20	3,949.66	-71.39	
16,489.00	89.74	179.73	12,436.00	4,039.38 S	89.60 W	389,582.50	788,575.78	1.29	4,039.66	-157.19	
16,579.00	90.13	180.08	12,436.10	4,129.38 S	89.45 W	389,492.50	788,575.93	0.58	4,129.66	41.91	
16,668.00	89.73	180.08	12,436.21	4,218.38 S	89.57 W	389,403.50	788,575.81	0.45	4,218.66	180.00	
16,758.00	89.85	180.13	12,436.54	4,308.38 S	89.74 W	389,313.50	788,575.64	0.14	4,308.66	22.62	
16,848.00	88.93	180.08	12,437.50	4,398.38 S	89.90 W	389,223.50	788,575.48	1.02	4,398.65	-176.89	
16,937.00	89.28	179.98	12,438.89	4,487.37 S	89.95 W	389,134.51	788,575.43	0.41	4,487.64	-15.94	
17,027.00	87.11	179.56	12,441.72	4,577.31 S	89.59 W	389,044.57	788,575.79	2.46	4,577.59	-169.06	
17,117.00	86.73	179.83	12,446.56	4,667.18 S	89.11 W	388,954.70	788,576.27	0.52	4,667.45	144.65	
17,206.00	86.74	180.19	12,451.63	4,756.04 S	89.12 W	388,865.84	788,576.26	0.40	4,756.31	88.42	
17,295.00	86.59	180.25	12,456.81	4,844.89 S	89.47 W	388,776.99	788,575.91	0.18	4,845.16	158.23	
17,385.00	86.58	180.21	12,462.17	4,934.73 S	89.83 W	388,687.15	788,575.55	0.05	4,935.00	-104.06	
17,475.00	89.13	180.77	12,465.54	5,024.65 S	90.60 W	388,597.23	788,574.78	2.90	5,024.93	12.39	
17,565.00	88.97	179.53	12,467.03	5,114.64 S	90.83 W	388,507.24	788,574.55	1.39	5,114.91	-97.36	
17,654.00	89.20	179.12	12,468.45	5,203.62 S	89.78 W	388,418.26	788,575.60	0.53	5,203.89	-60.71	
17,744.00	89.85	179.52	12,469.20	5,293.61 S	88.71 W	388,328.27	788,576.67	0.85	5,293.88	31.61	
17,834.00	87.78	179.28	12,471.06	5,383.58 S	87.77 W	388,238.30	788,577.61	2.32	5,383.84	-173.39	
17,923.00	87.89	178.60	12,474.42	5,472.50 S	86.13 W	388,149.38	788,579.25	0.77	5,472.76	-80.82	
18,012.00	87.28	178.06	12,478.17	5,561.38 S	83.54 W	388,060.50	788,581.84	0.92	5,561.63	-138.52	
18,102.00	91.01	180.95	12,479.51	5,651.35 S	82.76 W	387,970.53	788,582.62	5.24	5,651.59	37.80	
18,192.00	92.26	182.60	12,476.94	5,741.26 S	85.55 W	387,880.62	788,579.83	2.30	5,741.51	52.82	
18,281.00	89.00	181.80	12,475.97	5,830.18 S	88.96 W	387,791.70	788,576.42	3.77	5,830.44	-166.21	
18,371.00	89.29	182.84	12,477.31	5,920.09 S	92.60 W	387,701.79	788,572.78	1.20	5,920.37	74.43	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 TB Fed Com 14H - Actual Drilled

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
18,461.00	88.12	180.95	12,479.34	6,010.01 S	95.58 W	387,611.87	788,569.80	2.47	6,010.30	-121.78	
18,551.00	91.01	179.16	12,480.03	6,100.00 S	95.67 W	387,521.88	788,569.71	3.78	6,100.28	-31.78	
18,640.00	91.57	179.77	12,478.02	6,188.97 S	94.84 W	387,432.91	788,570.54	0.93	6,189.25	47.43	
18,729.00	89.22	178.15	12,477.41	6,277.95 S	93.22 W	387,343.93	788,572.16	3.21	6,278.22	-145.41	
18,819.00	90.45	178.66	12,477.67	6,367.91 S	90.71 W	387,253.97	788,574.67	1.48	6,368.17	22.52	
18,908.00	93.20	178.91	12,474.83	6,456.83 S	88.83 W	387,165.05	788,576.55	3.10	6,457.09	5.19	
18,998.00	92.99	178.42	12,469.98	6,546.68 S	86.73 W	387,075.20	788,578.65	0.59	6,546.93	-113.22	
19,089.00	91.81	177.96	12,466.16	6,637.55 S	83.86 W	386,984.33	788,581.52	1.39	6,637.79	-158.71	
19,178.00	91.21	178.29	12,463.82	6,726.47 S	80.95 W	386,895.41	788,584.43	0.77	6,726.70	151.19	
19,268.00	89.60	177.99	12,463.18	6,816.42 S	78.03 W	386,805.46	788,587.35	1.82	6,816.64	-169.44	
19,358.00	90.62	178.84	12,463.01	6,906.38 S	75.54 W	386,715.50	788,589.84	1.48	6,906.60	39.81	
19,447.00	88.90	178.34	12,463.38	6,995.35 S	73.35 W	386,626.53	788,592.03	2.01	6,995.56	-163.79	
19,537.00	89.50	178.50	12,464.64	7,085.31 S	70.87 W	386,536.57	788,594.51	0.69	7,085.50	14.93	
19,627.00	88.56	178.50	12,466.16	7,175.26 S	68.52 W	386,446.62	788,596.86	1.04	7,175.45	180.00	
19,716.00	88.11	178.64	12,468.75	7,264.20 S	66.29 W	386,357.68	788,599.09	0.53	7,264.38	162.73	
19,806.00	89.43	179.01	12,470.68	7,354.16 S	64.45 W	386,267.72	788,600.93	1.52	7,354.33	15.66	
19,895.00	89.06	178.89	12,471.85	7,443.13 S	62.82 W	386,178.75	788,602.56	0.44	7,443.30	-162.03	
19,984.00	89.61	180.38	12,472.89	7,532.12 S	62.25 W	386,089.76	788,603.13	1.78	7,532.29	69.75	
20,074.00	91.55	181.09	12,471.98	7,622.11 S	63.41 W	385,999.77	788,601.97	2.30	7,622.27	20.10	
20,162.00	90.93	180.74	12,470.07	7,710.07 S	64.81 W	385,911.81	788,600.57	0.81	7,710.25	-150.56	
20,252.00	89.79	178.30	12,469.51	7,800.06 S	64.06 W	385,821.82	788,601.32	2.99	7,800.23	-115.03	
20,342.00	88.86	178.25	12,470.57	7,890.01 S	61.35 W	385,731.87	788,604.03	1.03	7,890.17	-176.92	
20,431.00	88.50	178.36	12,472.62	7,978.95 S	58.72 W	385,642.93	788,606.66	0.42	7,979.10	163.01	
20,521.00	89.48	178.42	12,474.20	8,068.90 S	56.19 W	385,552.98	788,609.19	1.09	8,069.04	3.50	
20,610.00	88.11	177.08	12,476.07	8,157.81 S	52.70 W	385,464.07	788,612.68	2.15	8,157.94	-135.65	
20,700.00	89.65	178.14	12,477.83	8,247.71 S	48.94 W	385,374.17	788,616.44	2.08	8,247.82	34.55	
20,789.00	89.48	179.29	12,478.51	8,336.68 S	46.95 W	385,285.20	788,618.43	1.31	8,336.79	98.41	
20,879.00	89.07	179.20	12,479.65	8,426.67 S	45.76 W	385,195.21	788,619.62	0.47	8,426.77	-167.62	
20,969.00	88.91	179.13	12,481.23	8,516.64 S	44.45 W	385,105.24	788,620.93	0.19	8,516.74	-156.37	
21,059.00	89.75	179.50	12,482.29	8,606.63 S	43.37 W	385,015.25	788,622.01	1.02	8,606.72	23.77	
21,148.00	88.62	179.67	12,483.55	8,695.62 S	42.73 W	384,926.26	788,622.65	1.28	8,695.71	171.45	
21,238.00	88.71	179.90	12,485.65	8,785.59 S	42.39 W	384,836.29	788,622.99	0.27	8,785.68	68.63	
21,327.00	88.59	179.62	12,487.75	8,874.56 S	42.02 W	384,747.32	788,623.36	0.34	8,874.65	-113.21	
21,417.00	89.27	180.65	12,489.43	8,964.55 S	42.23 W	384,657.33	788,623.15	1.37	8,964.64	56.57	
21,507.00	89.72	179.18	12,490.22	9,054.54 S	42.10 W	384,567.34	788,623.28	1.71	9,054.63	-72.99	
21,597.00	89.07	179.72	12,491.17	9,144.53 S	41.23 W	384,477.35	788,624.15	0.94	9,144.62	140.29	
21,686.00	88.98	179.87	12,492.69	9,233.52 S	40.92 W	384,388.36	788,624.46	0.20	9,233.60	120.97	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 TB Fed Com 14H - Actual Drilled

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
21,775.00	90.19	180.09	12,493.33	9,322.51 S	40.89 W	384,299.37	788,624.49	1.38	9,322.60	10.31	
21,864.00	88.49	180.07	12,494.36	9,411.50 S	41.01 W	384,210.38	788,624.37	1.91	9,411.59	-179.33	
21,954.00	89.22	179.61	12,496.15	9,501.48 S	40.76 W	384,120.40	788,624.62	0.96	9,501.57	-32.22	
22,043.00	90.21	179.61	12,496.60	9,590.48 S	40.15 W	384,031.40	788,625.23	1.11	9,590.56	0.00	
22,134.00	89.35	179.87	12,496.95	9,681.48 S	39.74 W	383,940.40	788,625.64	0.99	9,681.56	163.18	
22,225.00	88.02	179.61	12,499.03	9,772.45 S	39.33 W	383,849.43	788,626.05	1.49	9,772.53	-168.94	
22,315.00	87.17	180.10	12,502.81	9,862.37 S	39.10 W	383,759.51	788,626.28	1.09	9,862.45	150.07	
22,406.00	87.02	179.80	12,507.42	9,953.25 S	39.02 W	383,668.63	788,626.36	0.37	9,953.33	-116.60	
22,497.00	87.58	179.80	12,511.71	10,044.15 S	38.70 W	383,577.73	788,626.68	0.62	10,044.22	0.00	
22,588.00	87.67	179.40	12,515.48	10,135.07 S	38.07 W	383,486.81	788,627.31	0.45	10,135.14	-77.32	
22,629.00	88.08	179.14	12,517.00	10,176.04 S	37.55 W	383,445.84	788,627.83	1.18	10,176.11	-32.37	
22,647.00	88.08	179.14	12,517.60	10,194.03 S	37.28 W	383,427.85	788,628.10	0.00	10,194.09	0.00	Projection to TD 22647' MD / 12517' TVD (100.54' FSL, 1312.69' FEL)

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,229.00	7,219.19	170.66	-157.85	Cross 100' FNL 7229' MD / 7219' TVD (100.00' FNL, 1316.69' FWL)
12,720.00	12,438.60	-271.21	-143.16	Landing Point 90° Inc 12720' MD / 12438' TVD (541.96' FNL, 1316.58' FEL)
22,647.00	12,517.60	-10,194.03	-37.28	Projection to TD 22647' MD / 12517' TVD (100.54' FSL, 1312.69' FEL)

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (usft)
				+N/_S (usft)	+E/-W (usft)	
User	No Target (Freehand)	180.19	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
96.00	1,111.00	MWD	3_MWD+HRGM
1,223.00	22,629.00	MWD HAL	3_MWD+HRGM+AX
22,647.00	22,647.00	Projection to TD	3_Blind

HALLIBURTON

Design Report for Charlie Murphy 6 TB Fed Com 14H - Actual Drilled

Design Targets

Target Name	Dip	Dip							
- hit/miss target	Angle	Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	()	()	()	()	()	()	()	Latitude	Longitude
()									

Directional Difficulty Index

Average Dogleg over Survey:	1.18 °/100usft	Maximum Dogleg over Survey:	23.03 °/100usft at 12,394.00 usft
Net Tortousity applicable to Plans:	0.00 °/100usft	Directional Difficulty Index:	6.716

Audit Info

HALLIBURTON**North Reference Sheet for Charlie Murphy 6 Pad (Grid) - Charlie Murphy 6 TB Fed Com 14H - Wellbore #1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to RKB (Precision 601) 25' + GL(3270') @ 3295.00usft. Northing and Easting are relative to Charlie Murphy 6 TB Fed Com 14H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33333333°, Longitude Origin:0.00000000°, Latitude Origin:0.00000000°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 1.00000453

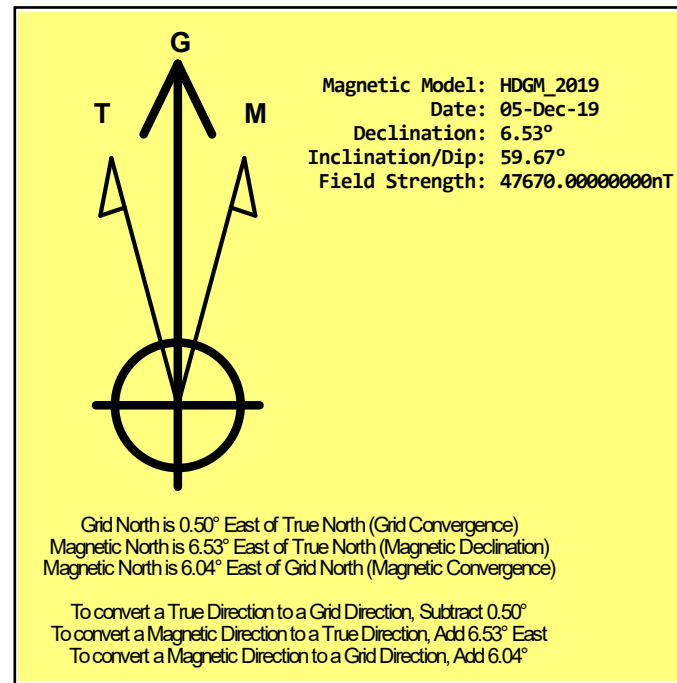
Grid Coordinates of Well: 393,621.88 usft N, 788,665.38 usft E

Geographical Coordinates of Well: 32.07875446, -103.40135930

Grid Convergence at Surface is: 0.50°

Based upon Minimum Curvature type calculations, at a Measured Depth of 22,647.00usft
the Bottom Hole Displacement is 10,194.09usft in the Direction of 180.21° (Grid).

Magnetic Convergence at surface is: -6.04° (5 December 2019, , HDGM_2019)



Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name Charlie Murphy 6 TB Fed Com				
						6. Well Number: 14H				
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Marathon Oil Permian LLC						9. OGRID 372098				
10. Address of Operator 5555 San Felipe St., Houston, TX 77056						11. Pool name or Wildcat WC-025 G-09 S263504N; Wolfcamp				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	A	6	26S	35E		272	N	1171	E	LEA
BH:	P	7	26S	35E		101	S	1313	E	LEA
13. Date Spudded 12/17/2019	14. Date T.D. Reached 4/14/2020		15. Date Rig Released 4/27/2020		16. Date Completed (Ready to Produce) 5/17/2020			17. Elevations (DF and RKB, RT, GR, etc.) 3270' GR		
18. Total Measured Depth of Well 22647'			19. Plug Back Measured Depth 17129'		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 17852' - 18674'; WOLFCAMP										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		54.5#; J55 STC		1171'		17 1/2"		1175		
7 5/8"		29.7#; P110, BTC		11848'		9 7/8"		675		
6 1/8"		23#; P110, TWL		17175'		5 1/2"		510		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
					2 3/8"	12279'				
26. Perforation record (interval, size, and number) 17852' - 18674' MD, Open Hole					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
					DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
					17852' - 18674'		146,252 lbs propanit; 40/70;100 Mesh			
					17852' - 18674'		221 gal - 15% HCl Acid			
					17852' - 18674'		2522 bbls - Brackish Water			
28. PRODUCTION										
Date First Production 9/4/2020		Production Method (Flowing, gas lift, pumping - Size and type pump) Gas Lift				Well Status (Prod. or Shut-in) Prod.				
Date of Test 9/19/2020	Hours Tested 24	Choke Size 64	Prod'n For Test Period	Oil - Bbl 196	Gas - MCF 241	Water - Bbl. 284	Gas - Oil Ratio			
Flow Tubing Press. 180	Casing Pressure 1046	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) sold							30. Test Witnessed By			
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude			Longitude			NAD83				
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature 			Printed Name Adrian Covarrubias			Title Regulatory Professional			Date 9/2/2021	
E-mail Address acovarrubias@marathonoil.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon 5426	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs 9337	T. Todilto	
T. Abo	T. Salado 3576'	T. Entrada	
T. Wolfcamp 17852	T. Castile 5133	T. Wingate	
T. Penn	T. Lamar 5398	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017													
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name Charlie Murphy 6 TB Fed Com										
								6. Well Number: 14H										
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER																		
8. Name of Operator Marathon Oil Permian LLC							9. OGRID 372098											
10. Address of Operator 5555 San Felipe St., Houston, TX 77056							11. Pool name or Wildcat WC-025 G-08 S2535340; Bone Spring											
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:	A	6	26S	35E		272	N	1171	E	LEA								
BH:	P	7	26S	35E		101	S	1313	E	LEA								
13. Date Spudded 12/17/2019	14. Date T.D. Reached 4/14/2020		15. Date Rig Released 4/27/2020			16. Date Completed (Ready to Produce) 5/17/2020		17. Elevations (DF and RKB, RT, GR, etc.) 3270' GR										
18. Total Measured Depth of Well 22647'			19. Plug Back Measured Depth 17129'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run GR										
22. Producing Interval(s), of this completion - Top, Bottom, Name 12,490' - 17044' & 18674' - 22647'; BONE SPRING																		
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
13 3/8"		54.5#; J55 STC		1171'		17 1/2"		1175										
7 5/8"		29.7#; P110, BTC		11848'		9 7/8"		675										
5 1/2"		23#; P110, TWL		17175'		61/8"		510										
24. LINER RECORD						25. TUBING RECORD												
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET											
					2 3/8"	12279'												
26. Perforation record (interval, size, and number) 12490' - 17044'; 036", 544 shots 18674' - 22647'; Open Hole						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>12490' - 17044</td> <td>12,243,460 lbs propanit; 40/70;100 Mesh</td> </tr> <tr> <td>12490' - 17044</td> <td>11907 gal - 15% HCl Acid</td> </tr> <tr> <td>12490' - 17044</td> <td>192,964 bbls - Brackish Water</td> </tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	12490' - 17044	12,243,460 lbs propanit; 40/70;100 Mesh	12490' - 17044	11907 gal - 15% HCl Acid	12490' - 17044	192,964 bbls - Brackish Water
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12490' - 17044	192,964 bbls - Brackish Water																	
28. PRODUCTION																		
Date First Production 9/4/2020		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Gas Lift				Well Status (<i>Prod. or Shut-in</i>) Prod.												
Date of Test 9/19/2020	Hours Tested 24	Choke Size 64	Prod'n For Test Period	Oil - Bbl 2604	Gas - MCF 3769	Water - Bbl. 2869	Gas - Oil Ratio											
Flow Tubing Press. 180	Casing Pressure 1046	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)												
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) sold							30. Test Witnessed By											
31. List Attachments																		
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:											
34. If an on-site burial was used at the well, report the exact location of the on-site burial:																		
Latitude			Longitude			NAD83												
<i>I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief</i>																		
Signature 			Printed Name Adrian Covarrubias			Title Regulatory Professional			Date 9/14/2021									
E-mail Address acovarrubias@marathonoil.com																		

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

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T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
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T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
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No. 1, from.....to.....
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No. 3, from.....to.....
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Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Section 27 Continued	
Depth Interval	Amount and Kind Material Used
18674' - 22647'	850648 lbs propant; 40/70;100 Mesh
18674' - 22647'	1260 gal - 15% HCl Acid
18674' - 22647'	14668 bbls - brackish water

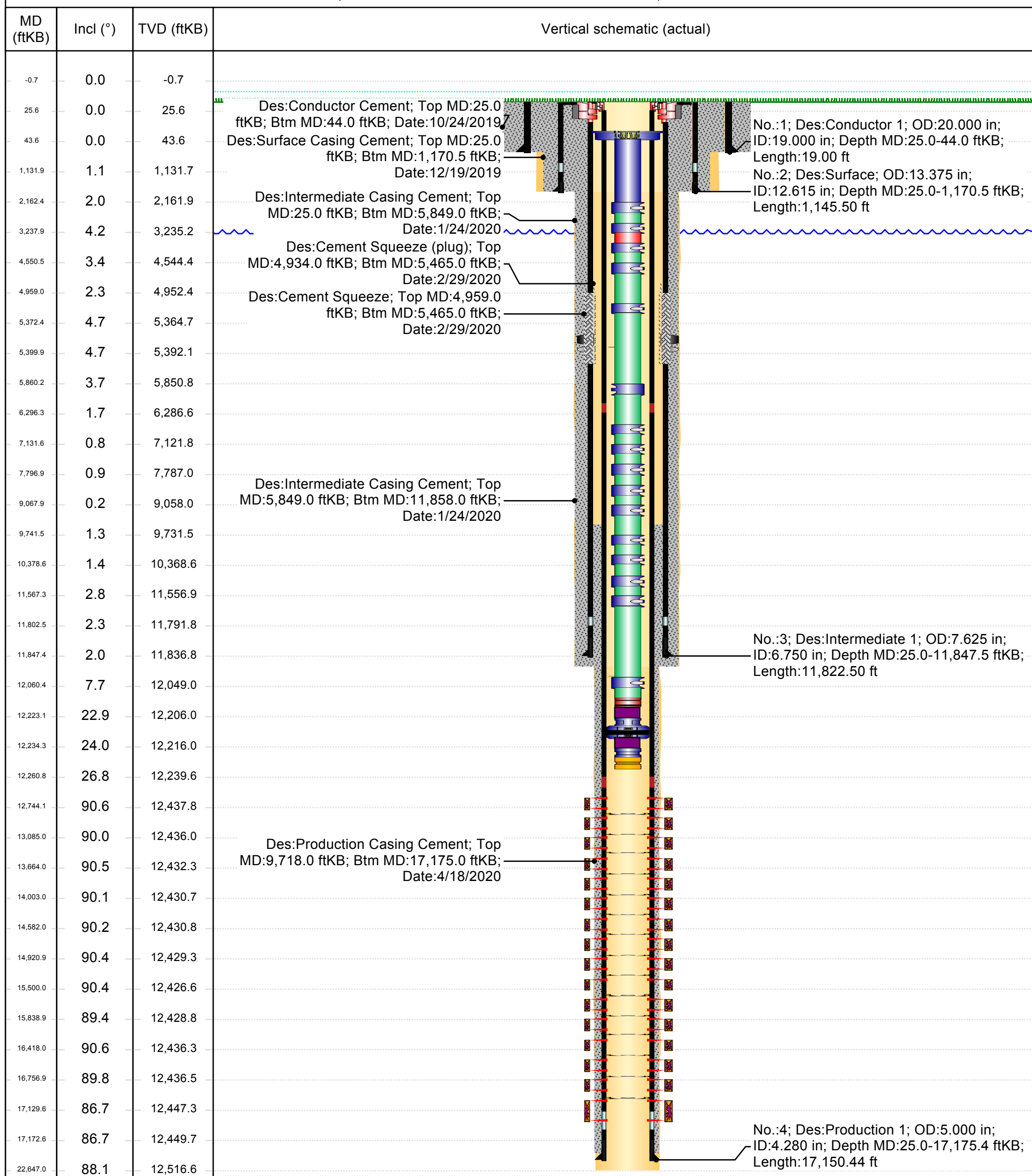


Wellbore Schematic

Well Name: CHARLIE MURPHY 6 TB FEDERAL COM 014H

State/Province NEW MEXICO	Country UNITED STATES	Field Name WILDCAT	Latitude (°) 32.07874890	Longitude (°) -103.40135770	North/South Distance (ft) 272.0	North/South Reference FNL
API/ IPO UWI 3002546484	KB-Ground Distance (ft) 25.00	KB-Mud Line Distance (ft)	Ground Elevation (ft) 3,270.00	Drilling Rig Spud Date 1/14/2020	Well Original Completion Date	Well First Production Date 9/4/2020

HORIZONTAL, CHARLIE MURPHY 6 TB FEDERAL COM 014H, 2/5/2021 8:52:47 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 48552

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056	OGRID: 372098
	Action Number: 48552
	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.

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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 48552

CONDITIONS

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	Action Number: 48552
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	9/20/2021