

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 Resources

Form C-104
Revised August 1, 2011

Oil 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 - 025-46487	⁵ Pool Name WC-025 G-09 S263504N; WOLFCAMP	⁶ Pool Code 98117
⁷ Property Code 326320	⁸ Property Name CHARLIE MURPHY 6 WA FEDERAL COM	⁹ Well Number 18H

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	1111	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
E -A	7	26S	35E		101	SOUTH	394	EAST	LEA
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

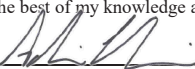
III. Oil and Gas Transporters

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

IV. Well Completion Data

²¹ Spud Date 12/20/2019	²² Ready Date 9/13/2021	²³ TD 22979' MD	²⁴ PBTB 22914' MD	²⁵ Perforations 12,546' - 22,778'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8", 54.5#, J55, STC	1170'	1175		
9-7/8"	7-5/8", 29.7#, P110, BTC	11875'	675		
6-3/4"	5-1/2", 23#, P110, TWL	22967'	1590		

V. Well Test Data

³¹ Date New Oil 9/21/2021	³² Gas Delivery Date 9/21/2021	³³ Test Date 9/22/2021	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 3339
³⁷ Choke Size 18/64	³⁸ Oil 230	³⁹ Water 2731	⁴⁰ Gas 206		⁴¹ Test Method Flowing
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Adrian Covarrubias			Approved by: <i>PATRICIA MARTINEZ</i>		
Title: Regulatory Professional			Title: <i>NMOCD</i>		
E-mail Address: acovarrubias@marathonoil.com			Approval Date: <i>1/31/2022</i>		
Date: 9/23/2021	Phone: 713-296-3368				

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 Road, Aztec, NM 87410
 Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505
 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
 Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Revised August 1, 2011
 Submit one copy to appropriate
 District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-46487	² Pool Code 98117	³ Pool Name WC-025 G-09 S263504N; WOLFCAMP
⁴ Property Code 326320	Property Name CHARLIE MURPHY 6 WA FEDERAL COM	
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁶ Well Number 18H
		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	1111	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
A P	7	26S	35E		101	SOUTH	394	EAST	LEA

¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 831020.60' / Y: 393959.45' B - X: 831048.36' / Y: 391316.79' C - X: 831074.50' / Y: 388675.34' D - X: 831129.70' / Y: 383390.47' E - X: 828491.21' / Y: 383378.93' F - X: 828462.97' / Y: 386016.82' G - X: 828434.68' / Y: 388658.54' H - X: 828405.91' / Y: 391299.52' I - X: 828377.14' / Y: 393941.11'</p> <p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 789833.21' / Y: 393901.73' B - X: 789860.85' / Y: 391259.15' C - X: 789886.87' / Y: 388617.77' D - X: 789941.84' / Y: 383333.04' E - X: 787303.38' / Y: 383321.52' F - X: 787275.25' / Y: 385959.34' G - X: 787247.09' / Y: 388600.99' H - X: 787218.44' / Y: 391241.90' I - X: 787189.78' / Y: 393883.42'</p> <p>SURFACE HOLE LOCATION 272' FNL 1111' FEL, SECTION 6 NAD 83, SPCS NM EAST X: 829912.65' / Y: 393679.61' LAT: 32.07887921N / LON: 103.40162941W NAD 27, SPCS NM EAST X: 788725.26' / Y: 393621.91' LAT: 32.07875311N / LON: 103.40116598W</p> <p>KICK OFF POINT 100' FNL 534' FEL, SECTION 6 12376' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 830487.79' / Y: 393856.28' LAT: 32.07935117N / LON: 103.39976777W NAD 27, SPCS NM EAST X: 789300.40' / Y: 393798.58' LAT: 32.07922504N / LON: 103.39930438W</p> <p>FIRST TAKE POINT 159' FNL 562' FEL, SECTION 6 12536' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 830460.17' / Y: 393798.62' LAT: 32.07918783N / LON: 103.39985862W NAD 27, SPCS NM EAST X: 789272.78' / Y: 393738.92' LAT: 32.07906171N / LON: 103.39939523W</p> <p>LAST TAKE POINT/BHL 101' FSL 394' FEL, SECTION 7 22979' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 830734.35' / Y: 383489.66' LAT: 32.05085148N / LON: 103.39926148W NAD 27, SPCS NM EAST X: 789546.50' / Y: 383432.22' LAT: 32.05072520N / LON: 103.39879974W</p>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>[Signature]</i> 8/17/2021 Signature Date Adrian Covarrubias Printed Name E-mail Address</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>AUGUST 13, 2021 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number DAVID W. MYERS 11403</p>
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Distances/areas relative to NAD 83 Combined Scale Factor: 0.99985058 Convergence Angle: 00°29'34.804752"

☐ Horizontal Spacing Unit



Marathon Oil Permian LLC

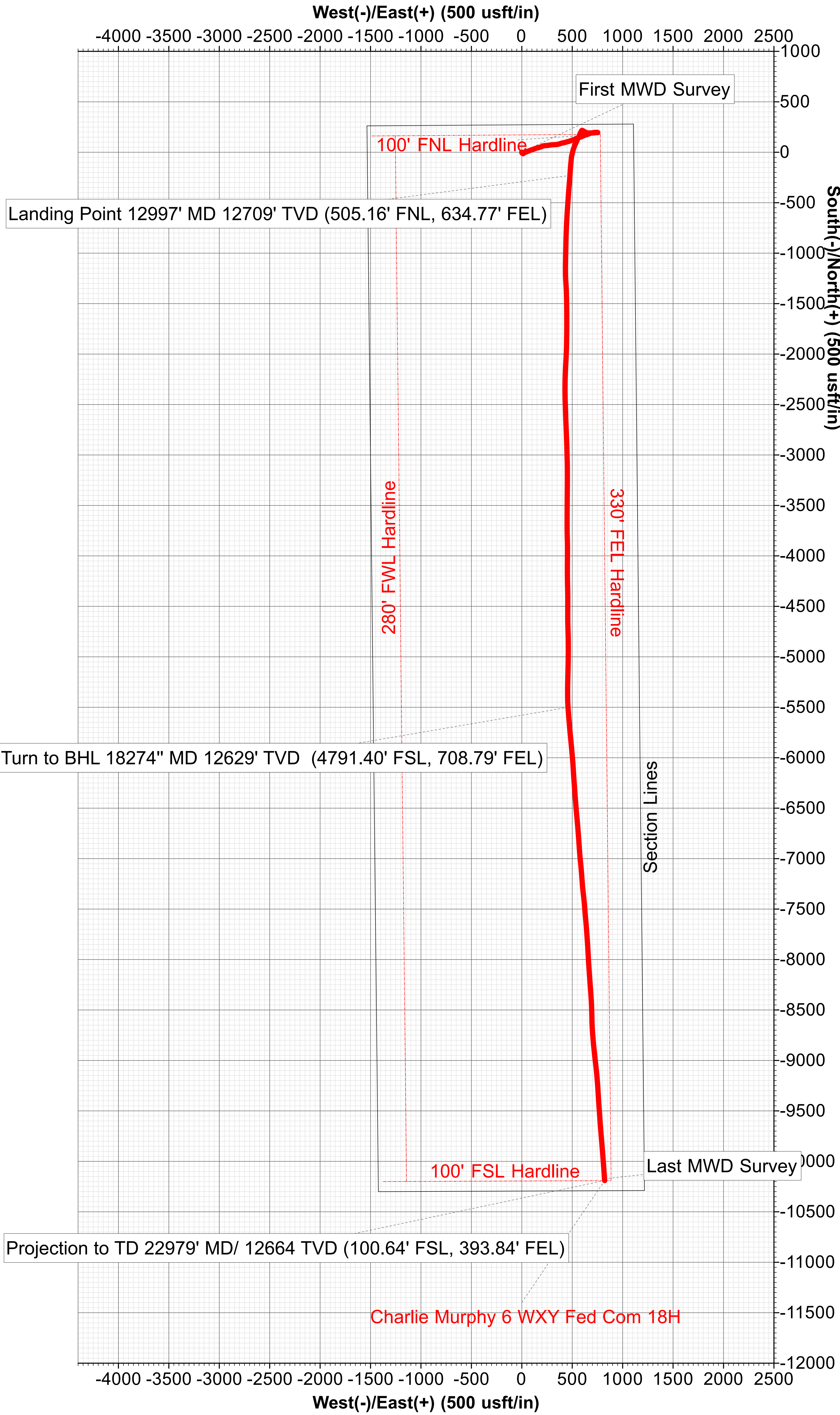
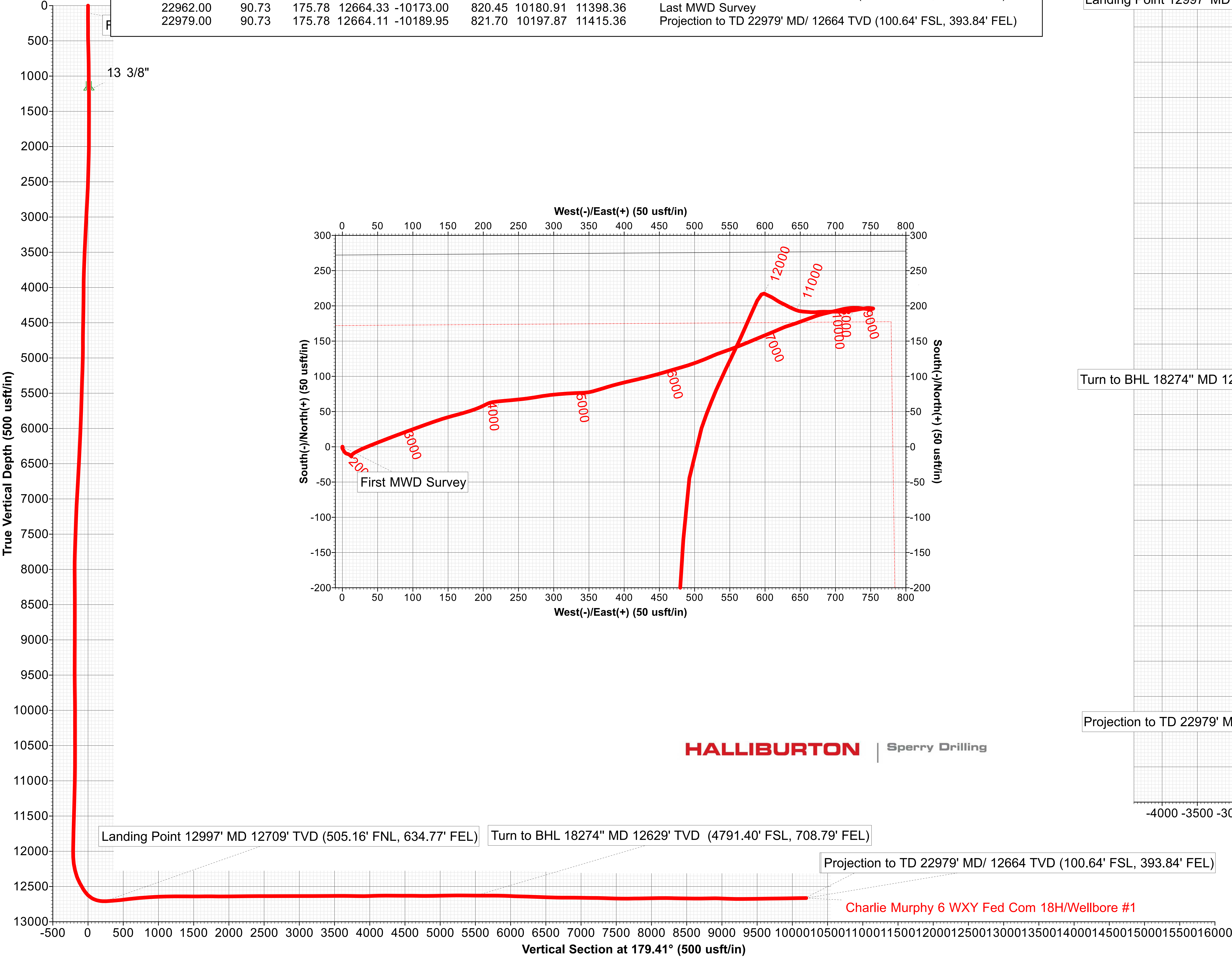
RKB (Precision 601) 25' + GL(3270') @ 3295.00usft
3270.00

Project: Lea County, New Mexico (NAD27)
Site: Charlie Murphy 6 Pad (Grid)
Well: Charlie Murphy 6 WXY Fed Com 18H
Wellbore: Wellbore #1
Design: Actual Drilled
Rig:

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

Azimuths to Grid North
True North: -0.50°
Magnetic North: 6.04°
Magnetic Field
Strength: 47671.0nT
Dip Angle: 59.67°
Date: 12/1/2019
Model: HDGM_2019

WELL DETAILS								
3270.00								
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
	0.00	0.00	393621.91	788725.26	32.07875311	-103.40116599		
SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
107.00	0.30	359.80	107.00	0.23	0.00	-0.23	0.23	First MWD Survey
12997.00	90.05	184.91	12709.40	-229.71	478.38	234.63	1437.81	Landing Point 12997' MD 12709' TVD (505.16' FNL, 634.77' FEL)
18274.00	89.31	176.53	12629.74	-5500.73	458.53	5505.16	6711.41	Turn to BHL 18274" MD 12629' TVD (4791.40' FSL, 708.79' FEL)
22962.00	90.73	175.78	12664.33	-10173.00	820.45	10180.91	11398.36	Last MWD Survey
22979.00	90.73	175.78	12664.11	-10189.95	821.70	10197.87	11415.36	Projection to TD 22979' MD/ 12664 TVD (100.64' FSL, 393.84' FEL)



HALLIBURTON | Sperry Drilling

Marathon Oil Permian LLC

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

API#

Charlie Murphy 6 WXY Fed Com 18H

SHL: (272' FNL, 1111' FEL)

Wellbore #1

Design: Actual Drilled

Sperry Drilling Services

Combo Report

24 February, 2020

Well Coordinates: 32.07875312
-103.40116599

NAD 1927 (NADCON CONUS)
New Mexico East 3001
393,621.91 N
788,725.26 E

Ground Level: 3,270.00 usft

Local Coordinate Origin:

Centered on Well Charlie Murphy 6 WXY Fed Com 18H

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

HALLIBURTON

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Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 WXY Fed Com 18H - 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	393,621.91	788,725.26	0.00	0.00	0.00	LP WP6 - 18H KOP/FTP (100' FNL - 380' FEL) - 18H LTP/BHL (100' FSL - 380' FEL)
20.00	0.00	0.00	20.00	0.00 N	0.00 E	393,621.91	788,725.26	0.00	0.00	0.00	
107.00	0.30	359.80	107.00	0.23 N	0.00 W	393,622.14	788,725.26	0.34	-0.23	359.80	First MWD Survey
191.00	0.40	148.60	191.00	0.20 N	0.15 E	393,622.11	788,725.41	0.80	-0.20	162.12	
292.00	0.80	161.00	291.99	0.77 S	0.56 E	393,621.14	788,725.82	0.41	0.78	24.25	
379.00	1.00	302.00	378.99	0.94 S	0.12 E	393,620.97	788,725.38	1.95	0.94	158.24	
466.00	1.30	161.90	465.98	1.48 S	0.22 W	393,620.43	788,725.04	2.49	1.48	-157.34	
511.00	1.50	154.30	510.97	2.49 S	0.20 E	393,619.42	788,725.46	0.61	2.50	-46.72	
552.00	1.50	151.38	551.95	3.45 S	0.68 E	393,618.46	788,725.94	0.19	3.46	-91.46	
597.00	1.63	149.71	596.94	4.52 S	1.29 E	393,617.39	788,726.55	0.31	4.53	-20.17	
641.00	1.67	149.19	640.92	5.61 S	1.93 E	393,616.30	788,727.19	0.10	5.63	-20.78	
686.00	1.80	146.50	685.90	6.76 S	2.66 E	393,615.15	788,727.92	0.34	6.79	-33.42	
732.00	1.60	145.40	731.88	7.89 S	3.42 E	393,614.02	788,728.68	0.44	7.93	-171.28	
822.00	1.10	113.10	821.85	9.27 S	4.93 E	393,612.64	788,730.19	0.99	9.32	-138.75	
866.00	1.10	108.80	865.85	9.57 S	5.72 E	393,612.34	788,730.98	0.19	9.63	-92.15	
956.00	1.60	107.61	955.82	10.23 S	7.73 E	393,611.68	788,732.99	0.56	10.31	-3.80	
1,001.00	1.10	111.48	1,000.81	10.57 S	8.74 E	393,611.34	788,734.00	1.13	10.66	171.60	
1,046.00	1.10	122.20	1,045.80	10.96 S	9.50 E	393,610.95	788,734.76	0.46	11.06	95.36	
1,080.00	1.00	134.86	1,079.79	11.35 S	9.99 E	393,610.56	788,735.25	0.74	11.45	119.56	
1,200.00	1.19	130.37	1,199.77	12.89 S	11.68 E	393,609.02	788,736.94	0.18	13.01	-26.32	13 3/8"
1,223.00	1.23	129.67	1,222.77	13.21 S	12.06 E	393,608.70	788,737.32	0.18	13.33	-21.83	
1,313.00	0.10	74.68	1,312.76	13.80 S	12.87 E	393,608.11	788,738.13	1.31	13.93	-176.00	
1,403.00	0.03	263.30	1,402.76	13.78 S	12.93 E	393,608.13	788,738.19	0.14	13.92	-178.01	
1,492.00	0.06	88.01	1,491.76	13.79 S	12.95 E	393,608.12	788,738.21	0.10	13.92	-176.86	
1,581.00	0.06	308.00	1,580.76	13.75 S	12.96 E	393,608.16	788,738.22	0.13	13.89	-160.00	
1,671.00	0.28	312.40	1,670.76	13.58 S	12.76 E	393,608.33	788,738.02	0.24	13.71	5.60	
1,760.00	0.35	322.91	1,759.76	13.21 S	12.44 E	393,608.70	788,737.70	0.10	13.34	44.87	
1,850.00	0.28	309.55	1,849.76	12.85 S	12.10 E	393,609.06	788,737.36	0.11	12.98	-140.17	
1,939.00	0.21	308.07	1,938.76	12.62 S	11.80 E	393,609.29	788,737.06	0.08	12.74	-175.57	
2,029.00	1.10	50.32	2,028.75	11.96 S	12.34 E	393,609.95	788,737.60	1.29	12.09	112.41	
2,118.00	2.26	55.24	2,117.71	10.42 S	14.44 E	393,611.49	788,739.70	1.31	10.56	9.55	
2,208.00	2.79	54.80	2,207.62	8.14 S	17.69 E	393,613.77	788,742.95	0.59	8.32	-2.31	
2,387.00	4.47	67.70	2,386.26	2.98 S	27.70 E	393,618.93	788,752.96	1.04	3.27	32.46	
2,477.00	4.72	68.14	2,475.97	0.27 S	34.38 E	393,621.64	788,759.64	0.28	0.63	8.24	
2,566.00	5.72	68.42	2,564.60	2.72 N	41.91 E	393,624.63	788,767.17	1.12	-2.29	1.60	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 WXY Fed Com 18H - 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)				
2,656.00	7.78	67.94	2,653.97	6.66 N	51.72 E	393,628.57	788,776.98	2.29	-6.13	-1.81	
2,746.00	8.09	68.73	2,743.11	11.24 N	63.27 E	393,633.15	788,788.53	0.37	-10.59	19.77	
2,835.00	8.52	69.67	2,831.18	15.81 N	75.29 E	393,637.72	788,800.55	0.51	-15.03	17.99	
2,925.00	8.78	69.52	2,920.15	20.53 N	87.97 E	393,642.44	788,813.23	0.29	-19.62	-5.03	
3,014.00	8.89	70.34	3,008.10	25.22 N	100.81 E	393,647.13	788,826.07	0.19	-24.18	49.27	
3,104.00	9.21	70.26	3,096.98	29.99 N	114.14 E	393,651.90	788,839.40	0.36	-28.81	-2.29	
3,194.00	9.60	70.23	3,185.77	34.96 N	127.98 E	393,656.87	788,853.24	0.43	-33.64	-0.73	
3,283.00	9.13	72.86	3,273.58	39.55 N	141.71 E	393,661.46	788,866.97	0.71	-38.09	138.97	
3,373.00	8.90	74.21	3,362.47	43.55 N	155.24 E	393,665.46	788,880.50	0.35	-41.95	138.06	
3,462.00	9.42	75.58	3,450.33	47.24 N	168.92 E	393,669.15	788,894.18	0.63	-45.49	23.43	
3,552.00	8.96	71.20	3,539.18	51.33 N	182.68 E	393,673.24	788,907.94	0.93	-49.45	-125.48	
3,641.00	5.37	67.42	3,627.47	55.16 N	193.09 E	393,677.07	788,918.35	4.07	-53.17	-174.39	
3,731.00	4.39	64.31	3,717.14	58.27 N	200.09 E	393,680.18	788,925.35	1.13	-56.21	-166.44	
3,820.00	4.43	63.77	3,805.88	61.27 N	206.24 E	393,683.18	788,931.50	0.06	-59.14	-46.34	
3,910.00	5.25	80.68	3,895.56	63.47 N	213.42 E	393,685.38	788,938.68	1.82	-61.27	68.72	
3,999.00	5.49	84.38	3,984.17	64.55 N	221.68 E	393,686.46	788,946.94	0.47	-62.26	57.13	
4,089.00	5.11	84.89	4,073.79	65.33 N	229.95 E	393,687.24	788,955.21	0.43	-62.96	173.19	
4,178.00	7.04	85.12	4,162.28	66.14 N	239.34 E	393,688.05	788,964.60	2.17	-63.68	0.84	
4,268.00	7.57	84.21	4,251.55	67.21 N	250.73 E	393,689.12	788,975.99	0.60	-64.63	-12.77	
4,357.00	7.44	82.39	4,339.79	68.57 N	262.27 E	393,690.48	788,987.53	0.30	-65.86	-119.57	
4,447.00	7.07	80.92	4,429.07	70.21 N	273.52 E	393,692.12	788,998.78	0.46	-67.39	-154.08	
4,536.00	6.85	79.89	4,517.41	72.01 N	284.15 E	393,693.92	789,009.41	0.28	-69.08	-150.94	
4,626.00	7.32	83.56	4,606.73	73.59 N	295.13 E	393,695.50	789,020.39	0.72	-70.55	45.75	
4,716.00	7.78	85.95	4,695.95	74.67 N	306.91 E	393,696.58	789,032.17	0.62	-71.50	35.51	
4,805.00	7.44	84.72	4,784.16	75.62 N	318.65 E	393,697.53	789,043.91	0.42	-72.34	-155.01	
4,894.00	7.97	89.55	4,872.36	76.20 N	330.56 E	393,698.11	789,055.82	0.94	-72.79	53.11	
4,984.00	7.94	86.26	4,961.49	76.66 N	343.00 E	393,698.57	789,068.26	0.51	-73.12	-95.40	
5,073.00	8.03	75.34	5,049.64	78.63 N	355.15 E	393,700.54	789,080.41	1.70	-74.97	-92.02	
5,163.00	7.45	72.75	5,138.82	81.95 N	366.81 E	393,703.86	789,092.07	0.75	-78.17	-150.26	
5,252.00	6.77	72.71	5,227.13	85.22 N	377.33 E	393,707.13	789,102.59	0.76	-81.33	-179.60	
5,342.00	6.21	75.38	5,316.55	88.03 N	387.10 E	393,709.94	789,112.36	0.71	-84.04	153.00	
5,431.00	7.09	75.73	5,404.95	90.60 N	397.08 E	393,712.51	789,122.34	0.99	-86.50	2.81	
5,521.00	7.68	77.30	5,494.21	93.29 N	408.33 E	393,715.20	789,133.59	0.69	-89.08	19.66	
5,610.00	8.04	76.96	5,582.37	96.00 N	420.20 E	393,717.91	789,145.46	0.41	-91.67	-7.53	
5,700.00	7.91	75.45	5,671.50	98.97 N	432.32 E	393,720.88	789,157.58	0.27	-94.52	-122.57	
5,789.00	7.72	75.18	5,759.67	102.04 N	444.03 E	393,723.95	789,169.29	0.22	-97.46	-169.20	
5,879.00	7.36	73.51	5,848.90	105.22 N	455.40 E	393,727.13	789,180.66	0.47	-100.53	-149.50	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 WXY Fed Com 18H - Actual Drilled

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)	Rate (°/100usft)	Section (usft)	Angle (°)	
5,968.00	7.30	73.33	5,937.17	108.46 N	466.28 E	393,730.37	789,191.54	0.07	-103.66	-159.14	
6,058.00	8.66	74.47	6,026.29	111.92 N	478.29 E	393,733.83	789,203.55	1.52	-106.99	7.20	
6,147.00	8.67	72.22	6,114.28	115.76 N	491.13 E	393,737.67	789,216.39	0.38	-110.70	-89.42	
6,237.00	8.29	69.80	6,203.30	120.07 N	503.68 E	393,741.98	789,228.94	0.58	-114.88	-137.99	
6,326.00	7.78	67.64	6,291.42	124.58 N	515.27 E	393,746.49	789,240.53	0.67	-119.27	-150.44	
6,416.00	7.17	65.65	6,380.66	129.21 N	526.03 E	393,751.12	789,251.29	0.74	-123.79	-157.99	
6,505.00	8.56	71.11	6,468.82	133.65 N	537.35 E	393,755.56	789,262.61	1.77	-128.11	30.98	
6,595.00	8.71	70.09	6,557.80	138.14 N	550.10 E	393,760.05	789,275.36	0.24	-132.47	-46.10	
6,684.00	8.45	68.58	6,645.80	142.82 N	562.52 E	393,764.73	789,287.78	0.39	-137.02	-139.84	
6,774.00	8.52	67.45	6,734.82	147.79 N	574.83 E	393,769.70	789,300.09	0.20	-141.87	-67.79	
6,863.00	8.48	66.97	6,822.84	152.89 N	586.96 E	393,774.80	789,312.22	0.09	-146.84	-119.65	
6,953.00	8.62	68.35	6,911.84	157.97 N	599.34 E	393,779.88	789,324.60	0.28	-151.79	56.38	
7,042.00	8.43	67.05	6,999.86	162.98 N	611.54 E	393,784.89	789,336.80	0.30	-156.67	-135.24	
7,132.00	7.81	65.98	7,088.95	168.04 N	623.20 E	393,789.95	789,348.46	0.71	-161.61	-166.83	
7,221.00	7.10	73.66	7,177.20	172.05 N	634.01 E	393,793.96	789,359.27	1.37	-165.51	129.24	
7,311.00	6.60	69.91	7,266.56	175.39 N	644.20 E	393,797.30	789,369.46	0.75	-168.75	-140.04	
7,401.00	6.32	70.01	7,355.99	178.86 N	653.71 E	393,800.77	789,378.97	0.31	-172.12	177.75	
7,490.00	6.20	70.15	7,444.46	182.17 N	662.84 E	393,804.08	789,388.10	0.14	-175.33	172.82	
7,580.00	6.26	70.18	7,533.93	185.48 N	672.03 E	393,807.39	789,397.29	0.07	-178.55	3.12	
7,669.00	7.83	75.77	7,622.25	188.61 N	682.47 E	393,810.52	789,407.73	1.92	-181.58	26.38	
7,758.00	7.90	77.06	7,710.42	191.47 N	694.31 E	393,813.38	789,419.57	0.21	-184.32	69.01	
7,848.00	7.56	75.47	7,799.60	194.35 N	706.06 E	393,816.26	789,431.32	0.45	-187.06	-148.62	
7,938.00	6.23	82.88	7,888.95	196.44 N	716.64 E	393,818.35	789,441.90	1.77	-189.05	149.86	
8,027.00	5.15	88.24	7,977.51	197.16 N	725.43 E	393,819.07	789,450.69	1.35	-189.68	156.45	
8,117.00	3.75	94.26	8,067.23	197.06 N	732.40 E	393,818.97	789,457.66	1.64	-189.51	164.53	
8,206.00	2.86	100.32	8,156.09	196.45 N	737.49 E	393,818.36	789,462.75	1.07	-188.84	161.57	
8,296.00	2.76	94.81	8,245.98	195.86 N	741.85 E	393,817.77	789,467.11	0.32	-188.22	-113.05	
8,385.00	1.37	101.27	8,334.92	195.48 N	745.03 E	393,817.39	789,470.29	1.58	-187.79	173.71	
8,475.00	0.80	98.29	8,424.90	195.18 N	746.71 E	393,817.09	789,471.97	0.64	-187.48	-175.83	
8,565.00	0.86	96.91	8,514.89	195.00 N	748.00 E	393,816.91	789,473.26	0.07	-187.29	-19.12	
8,654.00	0.64	90.36	8,603.88	194.92 N	749.16 E	393,816.83	789,474.42	0.26	-187.20	-161.96	
8,744.00	0.62	77.31	8,693.88	195.02 N	750.14 E	393,816.93	789,475.40	0.16	-187.29	-104.43	
8,833.00	0.62	71.64	8,782.87	195.28 N	751.07 E	393,817.19	789,476.33	0.07	-187.54	-92.83	
8,923.00	0.52	72.18	8,872.87	195.56 N	751.92 E	393,817.47	789,477.18	0.11	-187.81	177.19	
9,012.00	0.44	78.00	8,961.87	195.76 N	752.64 E	393,817.67	789,477.90	0.11	-187.99	151.53	
9,102.00	0.38	68.05	9,051.86	195.94 N	753.25 E	393,817.85	789,478.51	0.10	-188.17	-135.02	
9,191.00	0.29	44.90	9,140.86	196.21 N	753.68 E	393,818.12	789,478.94	0.18	-188.44	-134.83	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 WXY Fed Com 18H - Actual Drilled

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)	Rate (°/100usft)	Section (usft)	Angle (°)	
9,281.00	1.39	272.72	9,230.85	196.42 N	752.75 E	393,818.33	789,478.01	1.78	-188.66	-139.90	
9,370.00	1.60	280.11	9,319.82	196.69 N	750.45 E	393,818.60	789,475.71	0.32	-188.95	46.29	
9,460.00	1.85	270.17	9,409.78	196.92 N	747.76 E	393,818.83	789,473.02	0.43	-189.21	-55.16	
9,549.00	2.24	268.68	9,498.73	196.88 N	744.59 E	393,818.79	789,469.85	0.44	-189.20	-8.51	
9,728.00	4.02	257.45	9,677.45	195.44 N	734.97 E	393,817.35	789,460.23	1.05	-187.86	-24.67	
9,818.00	4.10	259.48	9,767.23	194.16 N	728.72 E	393,816.07	789,453.98	0.18	-186.65	61.91	
9,907.00	3.84	262.93	9,856.02	193.22 N	722.64 E	393,815.13	789,447.90	0.40	-185.76	139.14	
9,997.00	3.87	260.33	9,945.81	192.33 N	716.65 E	393,814.24	789,441.91	0.20	-184.94	-81.56	
10,086.00	3.80	268.02	10,034.61	191.73 N	710.74 E	393,813.64	789,436.00	0.58	-184.40	101.58	
10,176.00	4.57	272.69	10,124.37	191.79 N	704.18 E	393,813.70	789,429.44	0.93	-184.53	26.21	
10,265.00	4.98	267.18	10,213.06	191.77 N	696.78 E	393,813.68	789,422.04	0.69	-184.58	-50.97	
10,355.00	4.31	270.12	10,302.77	191.58 N	689.50 E	393,813.49	789,414.76	0.79	-184.47	161.90	
10,444.00	3.74	270.68	10,391.55	191.63 N	683.25 E	393,813.54	789,408.51	0.64	-184.58	176.33	
10,534.00	3.79	266.15	10,481.35	191.46 N	677.35 E	393,813.37	789,402.61	0.34	-184.48	-82.72	
10,623.00	3.88	264.93	10,570.15	191.00 N	671.41 E	393,812.91	789,396.67	0.14	-184.07	-42.81	
10,713.00	4.08	275.39	10,659.94	191.03 N	665.19 E	393,812.94	789,390.45	0.84	-184.17	79.86	
10,802.00	3.88	273.36	10,748.72	191.50 N	659.04 E	393,813.41	789,384.30	0.27	-184.71	-145.85	
10,892.00	3.47	275.06	10,838.54	191.92 N	653.28 E	393,813.83	789,378.54	0.47	-185.18	165.96	
10,982.00	3.19	284.13	10,928.39	192.77 N	648.14 E	393,814.68	789,373.40	0.66	-186.09	122.47	
11,071.00	3.20	292.14	11,017.25	194.31 N	643.44 E	393,816.22	789,368.70	0.50	-187.68	92.72	
11,161.00	3.25	294.11	11,107.11	196.30 N	638.78 E	393,818.21	789,364.04	0.14	-189.71	66.70	
11,250.00	3.03	297.39	11,195.97	198.42 N	634.39 E	393,820.33	789,359.65	0.32	-191.87	142.39	
11,340.00	3.12	298.53	11,285.84	200.68 N	630.13 E	393,822.59	789,355.39	0.12	-194.18	34.77	
11,429.00	3.40	294.08	11,374.70	202.91 N	625.59 E	393,824.82	789,350.85	0.42	-196.46	-44.34	
11,519.00	2.99	298.34	11,464.56	205.12 N	621.09 E	393,827.03	789,346.35	0.53	-198.71	152.04	
11,608.00	2.73	302.99	11,553.45	207.37 N	617.27 E	393,829.28	789,342.53	0.39	-201.00	140.56	
11,698.00	3.17	304.26	11,643.33	209.94 N	613.41 E	393,831.85	789,338.67	0.49	-203.61	9.08	
11,787.00	3.18	297.58	11,732.19	212.47 N	609.19 E	393,834.38	789,334.45	0.42	-206.18	-91.79	
11,838.00	2.92	293.90	11,783.12	213.65 N	606.75 E	393,835.56	789,332.01	0.64	-207.39	-144.84	
11,953.00	2.39	296.02	11,898.00	215.89 N	601.92 E	393,837.80	789,327.18	0.47	-209.68	170.56	
12,048.00	1.89	298.09	11,992.93	217.49 N	598.76 E	393,839.40	789,324.02	0.53	-211.32	172.25	
12,141.00	4.03	230.99	12,085.82	216.16 N	594.86 E	393,838.07	789,320.12	4.01	-210.02	-94.91	
12,235.00	8.68	206.93	12,179.23	207.75 N	589.08 E	393,829.66	789,314.34	5.60	-201.67	-42.14	
12,330.00	15.45	202.92	12,272.08	189.68 N	580.89 E	393,811.59	789,306.15	7.18	-183.69	-9.03	
12,424.00	20.58	204.58	12,361.45	163.11 N	569.14 E	393,785.02	789,294.40	5.48	-157.24	6.51	
12,456.00	25.15	204.12	12,390.92	151.78 N	564.02 E	393,773.69	789,289.28	14.29	-145.97	-2.45	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 WXY Fed Com 18H - Actual Drilled

Measured		Grid	Vertical	Local Coordinates		Map Coordinates		Dogleg	Vertical	Toolface	Comments
Depth	Inclination	Azimuth	Depth	Northing	Easting	Northing	Easting	Rate	Section	Angle	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(usft)	(°)	
12,519.00	31.00	206.07	12,446.49	124.97 N	551.41 E	393,746.88	789,276.67	9.40	-119.28	9.78	
12,550.00	31.75	206.07	12,472.95	110.47 N	544.31 E	393,732.38	789,269.57	2.42	-104.86	0.00	
12,612.00	32.62	203.16	12,525.43	80.45 N	530.57 E	393,702.36	789,255.83	2.87	-74.98	-61.93	
12,643.00	36.37	201.51	12,550.98	64.21 N	523.91 E	393,686.12	789,249.17	12.47	-58.81	-14.68	
12,675.00	39.31	201.05	12,576.24	45.92 N	516.79 E	393,667.83	789,242.05	9.23	-40.60	-5.66	
12,707.00	41.41	198.23	12,600.63	26.40 N	509.84 E	393,648.31	789,235.10	8.70	-21.15	-42.09	
12,803.00	58.71	190.08	12,662.08	44.75 S	492.58 E	393,577.16	789,217.84	19.13	49.82	-22.61	
12,898.00	76.72	181.67	12,698.02	131.77 S	484.04 E	393,490.14	789,209.30	20.63	136.75	-25.11	
12,997.00	90.05	184.91	12,709.40	229.71 S	478.38 E	393,392.20	789,203.64	13.85	234.63	13.79	Landing Point 12997' MD 12709' TVD (505.16' FNL, 634.77' FEL)
13,021.00	93.28	185.68	12,708.70	253.60 S	476.16 E	393,368.31	789,201.42	13.85	258.49	13.41	
13,115.00	94.57	184.34	12,702.27	347.02 S	467.97 E	393,274.89	789,193.23	1.98	351.82	-45.98	
13,210.00	95.57	183.71	12,693.87	441.41 S	461.33 E	393,180.50	789,186.59	1.24	446.14	-32.08	
13,231.00	95.85	183.93	12,691.79	462.26 S	459.94 E	393,159.65	789,185.20	1.69	466.97	38.01	
13,308.00	97.56	184.37	12,682.80	538.53 S	454.40 E	393,083.38	789,179.66	2.29	543.18	14.31	
13,402.00	95.79	183.38	12,671.87	631.67 S	448.10 E	392,990.24	789,173.36	2.15	636.25	-150.89	
13,497.00	95.03	182.69	12,662.91	726.12 S	443.09 E	392,895.79	789,168.35	1.08	730.64	-137.86	
13,591.00	93.61	181.49	12,655.83	819.78 S	439.67 E	392,802.13	789,164.93	1.98	824.27	-139.83	
13,685.00	93.04	181.34	12,650.38	913.60 S	437.36 E	392,708.31	789,162.62	0.63	918.05	-165.28	
13,780.00	92.88	181.25	12,645.47	1,008.44 S	435.21 E	392,613.47	789,160.47	0.19	1,012.87	-150.67	
13,873.00	91.64	180.71	12,641.81	1,101.36 S	433.62 E	392,520.55	789,158.88	1.45	1,105.76	-156.47	
13,967.00	90.22	179.69	12,640.28	1,195.34 S	433.29 E	392,426.57	789,158.55	1.86	1,199.74	-144.30	
14,059.00	89.96	175.94	12,640.14	1,287.26 S	436.80 E	392,334.65	789,162.06	4.09	1,291.69	-93.96	
14,152.00	89.29	177.80	12,640.74	1,380.11 S	441.88 E	392,241.80	789,167.14	2.13	1,384.59	109.81	
14,246.00	90.40	179.41	12,641.00	1,474.08 S	444.17 E	392,147.83	789,169.43	2.08	1,478.57	55.42	
14,339.00	90.20	178.57	12,640.51	1,567.06 S	445.81 E	392,054.85	789,171.07	0.93	1,571.57	-103.39	
14,433.00	90.80	180.90	12,639.69	1,661.05 S	446.24 E	391,960.86	789,171.50	2.56	1,665.56	75.55	
14,526.00	89.20	179.99	12,639.69	1,754.04 S	445.52 E	391,867.87	789,170.78	1.98	1,758.54	-150.37	
14,620.00	89.07	180.51	12,641.11	1,848.03 S	445.11 E	391,773.88	789,170.37	0.57	1,852.52	104.04	
14,713.00	90.68	181.78	12,641.31	1,941.01 S	443.25 E	391,680.90	789,168.51	2.20	1,945.47	38.27	
14,807.00	90.81	183.05	12,640.09	2,034.91 S	439.29 E	391,587.00	789,164.55	1.36	2,039.33	84.15	
14,902.00	90.56	182.79	12,638.96	2,129.78 S	434.45 E	391,492.13	789,159.71	0.38	2,134.14	-133.88	
14,997.00	90.42	181.69	12,638.14	2,224.71 S	430.74 E	391,397.20	789,156.00	1.17	2,229.02	-97.25	
15,091.00	90.55	180.72	12,637.35	2,318.68 S	428.76 E	391,303.23	789,154.02	1.04	2,322.97	-82.36	
15,185.00	89.95	178.61	12,636.94	2,412.67 S	429.31 E	391,209.24	789,154.57	2.33	2,416.97	-105.87	
15,279.00	90.08	178.38	12,636.91	2,506.64 S	431.78 E	391,115.27	789,157.04	0.28	2,510.95	-60.52	
15,372.00	90.14	178.08	12,636.73	2,599.60 S	434.65 E	391,022.31	789,159.91	0.33	2,603.93	-78.69	

Design Report for Charlie Murphy 6 WXY Fed Com 18H - Actual Drilled

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
Northings	Easting	Northings	Easting								
15,467.00	90.16	177.86	12,636.49	2,694.54 S	438.02 E	390,927.37	789,163.28	0.23	2,698.90	-84.81	
15,561.00	90.23	177.51	12,636.17	2,788.46 S	441.81 E	390,833.45	789,167.07	0.38	2,792.86	-78.69	
15,655.00	90.02	177.98	12,635.96	2,882.38 S	445.51 E	390,739.53	789,170.77	0.55	2,886.82	114.07	
15,749.00	90.05	178.46	12,635.90	2,976.34 S	448.43 E	390,645.57	789,173.69	0.51	2,980.80	86.42	
15,843.00	90.09	179.00	12,635.79	3,070.32 S	450.52 E	390,551.59	789,175.78	0.58	3,074.79	85.76	
15,938.00	90.05	179.72	12,635.67	3,165.31 S	451.58 E	390,456.60	789,176.84	0.76	3,169.79	93.18	
16,032.00	90.26	180.22	12,635.42	3,259.31 S	451.63 E	390,362.60	789,176.89	0.58	3,263.79	67.22	
16,126.00	90.36	180.24	12,634.91	3,353.31 S	451.25 E	390,268.60	789,176.51	0.11	3,357.77	11.31	
16,217.00	90.42	180.40	12,634.29	3,444.30 S	450.74 E	390,177.61	789,176.00	0.19	3,448.76	69.44	
16,310.00	90.73	180.83	12,633.36	3,537.29 S	449.74 E	390,084.62	789,175.00	0.57	3,541.74	54.21	
16,405.00	89.24	179.73	12,633.38	3,632.29 S	449.28 E	389,989.62	789,174.54	1.95	3,636.72	-143.56	
16,499.00	89.24	180.02	12,634.63	3,726.28 S	449.48 E	389,895.63	789,174.74	0.31	3,730.71	90.00	
16,593.00	88.75	178.06	12,636.28	3,820.25 S	451.06 E	389,801.66	789,176.32	2.15	3,824.69	-104.05	
16,687.00	90.33	179.19	12,637.03	3,914.21 S	453.31 E	389,707.70	789,178.57	2.07	3,918.67	35.58	
16,781.00	92.37	181.21	12,634.82	4,008.17 S	452.99 E	389,613.74	789,178.25	3.05	4,012.63	44.69	
16,874.00	91.61	180.22	12,631.59	4,101.11 S	451.83 E	389,520.80	789,177.09	1.34	4,105.54	-127.51	
16,967.00	90.32	179.29	12,630.02	4,194.09 S	452.22 E	389,427.82	789,177.48	1.71	4,198.53	-144.21	
17,060.00	89.47	178.65	12,630.19	4,287.08 S	453.90 E	389,334.83	789,179.16	1.14	4,291.52	-143.02	
17,151.00	89.54	179.30	12,630.98	4,378.06 S	455.52 E	389,243.85	789,180.78	0.72	4,382.52	83.86	
17,245.00	89.68	179.80	12,631.62	4,472.05 S	456.26 E	389,149.86	789,181.52	0.55	4,476.51	74.36	
17,337.00	90.09	180.80	12,631.80	4,564.05 S	455.78 E	389,057.86	789,181.04	1.17	4,568.50	67.71	
17,431.00	88.86	178.75	12,632.66	4,658.04 S	456.15 E	388,963.87	789,181.41	2.54	4,662.49	-120.97	
17,524.00	89.42	178.27	12,634.06	4,751.00 S	458.57 E	388,870.91	789,183.83	0.79	4,755.47	-40.60	
17,616.00	90.76	179.10	12,633.92	4,842.97 S	460.68 E	388,778.94	789,185.94	1.71	4,847.46	31.77	
17,709.00	91.50	180.30	12,632.08	4,935.95 S	461.17 E	388,685.96	789,186.43	1.52	4,940.43	58.32	
17,802.00	90.63	180.53	12,630.35	5,028.93 S	460.49 E	388,592.98	789,185.75	0.97	5,033.40	165.19	
17,896.00	90.86	181.33	12,629.13	5,122.91 S	458.97 E	388,499.00	789,184.23	0.89	5,127.36	73.95	
17,991.00	90.59	181.67	12,627.93	5,217.87 S	456.48 E	388,404.04	789,181.74	0.46	5,222.29	128.45	
18,085.00	89.84	180.99	12,627.58	5,311.84 S	454.30 E	388,310.07	789,179.56	1.08	5,316.23	-137.80	
18,179.00	89.12	178.69	12,628.43	5,405.83 S	454.56 E	388,216.08	789,179.82	2.56	5,410.22	-107.39	
18,273.00	89.30	176.54	12,629.73	5,499.73 S	458.47 E	388,122.18	789,183.73	2.30	5,504.16	-85.23	
18,274.00	89.31	176.53	12,629.74	5,500.73 S	458.53 E	388,121.18	789,183.79	1.54	5,505.16	-51.10	Turn to BHL 18274" MD 12629' TVD (4791.40' FSL, 708.79' FEL)
18,368.00	90.22	175.40	12,630.12	5,594.49 S	465.15 E	388,027.42	789,190.41	1.54	5,598.99	-51.10	
18,462.00	89.69	174.75	12,630.20	5,688.14 S	473.22 E	387,933.77	789,198.48	0.89	5,692.72	-129.19	
18,557.00	89.98	174.59	12,630.47	5,782.73 S	482.04 E	387,839.18	789,207.30	0.35	5,787.39	-28.89	
18,651.00	88.86	174.83	12,631.42	5,876.33 S	490.71 E	387,745.58	789,215.97	1.22	5,881.07	167.91	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 WXY Fed Com 18H - 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)				
18,745.00	87.08	174.41	12,634.75	5,969.85 S	499.52 E	387,652.06	789,224.78	1.95	5,974.68	-166.74	
18,839.00	88.25	176.19	12,638.58	6,063.45 S	507.21 E	387,558.46	789,232.47	2.26	6,068.35	56.70	
18,933.00	88.77	176.59	12,641.03	6,157.23 S	513.13 E	387,464.68	789,238.39	0.70	6,162.19	37.56	
19,027.00	87.98	176.05	12,643.69	6,251.00 S	519.16 E	387,370.91	789,244.42	1.02	6,256.01	-145.66	
19,122.00	87.62	175.29	12,647.34	6,345.66 S	526.33 E	387,276.25	789,251.59	0.88	6,350.74	-115.38	
19,215.00	87.96	175.78	12,650.92	6,438.31 S	533.56 E	387,183.60	789,258.82	0.64	6,443.46	55.23	
19,310.00	88.11	174.98	12,654.18	6,532.94 S	541.21 E	387,088.97	789,266.47	0.86	6,538.17	-79.39	
19,403.00	88.45	174.66	12,656.97	6,625.52 S	549.60 E	386,996.39	789,274.86	0.50	6,630.83	-43.26	
19,497.00	89.95	175.60	12,658.29	6,719.17 S	557.58 E	386,902.74	789,282.84	1.88	6,724.55	32.08	
19,592.00	89.95	175.95	12,658.37	6,813.91 S	564.58 E	386,808.00	789,289.84	0.37	6,819.36	90.00	
19,686.00	89.48	175.92	12,658.84	6,907.67 S	571.24 E	386,714.24	789,296.50	0.50	6,913.19	-176.35	
19,781.00	89.02	174.63	12,660.08	7,002.34 S	579.07 E	386,619.57	789,304.33	1.44	7,007.93	-109.63	
19,875.00	89.02	174.37	12,661.69	7,095.89 S	588.07 E	386,526.02	789,313.33	0.28	7,101.57	-90.00	
19,969.00	89.83	176.18	12,662.63	7,189.56 S	595.82 E	386,432.35	789,321.08	2.11	7,195.32	65.90	
20,064.00	88.49	174.65	12,664.02	7,284.24 S	603.41 E	386,337.67	789,328.67	2.14	7,290.07	-131.22	
20,158.00	87.64	173.40	12,667.20	7,377.68 S	613.19 E	386,244.23	789,338.45	1.61	7,383.60	-124.25	
20,251.00	88.97	175.52	12,669.95	7,470.19 S	622.16 E	386,151.72	789,347.42	2.69	7,476.20	57.92	
20,345.00	88.74	174.48	12,671.83	7,563.82 S	630.35 E	386,058.09	789,355.61	1.13	7,569.91	-102.48	
20,440.00	90.97	175.46	12,672.07	7,658.44 S	638.68 E	385,963.47	789,363.94	2.56	7,664.61	23.73	
20,534.00	90.97	175.91	12,670.48	7,752.16 S	645.75 E	385,869.75	789,371.01	0.48	7,758.40	90.00	
20,629.00	90.70	176.46	12,669.09	7,846.94 S	652.07 E	385,774.97	789,377.33	0.64	7,853.24	116.15	
20,724.00	90.90	176.58	12,667.77	7,941.76 S	657.84 E	385,680.15	789,383.10	0.25	7,948.11	30.96	
20,819.00	91.45	177.16	12,665.82	8,036.59 S	663.02 E	385,585.32	789,388.28	0.84	8,043.00	46.51	
20,913.00	90.24	175.38	12,664.43	8,130.38 S	669.14 E	385,491.53	789,394.40	2.29	8,136.84	-124.19	
21,006.00	89.20	175.71	12,664.89	8,223.10 S	676.36 E	385,398.81	789,401.62	1.17	8,229.63	162.40	
21,099.00	88.80	175.92	12,666.51	8,315.83 S	683.15 E	385,306.08	789,408.41	0.49	8,322.43	152.31	
21,193.00	89.20	176.79	12,668.15	8,409.63 S	689.12 E	385,212.28	789,414.38	1.02	8,416.28	65.31	
21,288.00	88.90	178.03	12,669.72	8,504.52 S	693.41 E	385,117.39	789,418.67	1.34	8,511.21	103.61	
21,382.00	89.65	179.11	12,670.91	8,598.48 S	695.76 E	385,023.43	789,421.02	1.40	8,605.19	55.23	
21,476.00	90.58	176.40	12,670.73	8,692.40 S	699.44 E	384,929.51	789,424.70	3.05	8,699.14	-71.06	
21,571.00	91.30	174.86	12,669.17	8,787.10 S	706.68 E	384,834.81	789,431.94	1.79	8,793.91	-64.93	
21,664.00	90.36	174.33	12,667.82	8,879.68 S	715.44 E	384,742.23	789,440.70	1.16	8,886.57	-150.58	
21,758.00	87.54	173.35	12,669.54	8,973.11 S	725.52 E	384,648.80	789,450.78	3.18	8,980.10	-160.85	
21,853.00	87.82	173.89	12,673.39	9,067.44 S	736.07 E	384,554.47	789,461.33	0.64	9,074.54	62.58	
21,948.00	88.52	174.66	12,676.42	9,161.92 S	745.54 E	384,459.99	789,470.80	1.10	9,169.11	47.72	
22,042.00	90.05	176.03	12,677.59	9,255.60 S	753.17 E	384,366.31	789,478.43	2.18	9,262.86	41.85	
22,135.00	90.82	176.72	12,676.89	9,348.41 S	759.05 E	384,273.50	789,484.31	1.11	9,355.73	41.86	

HALLIBURTON

Lea County, New Mexico (NAD27)

Design Report for Charlie Murphy 6 WXY Fed Com 18H - Actual Drilled

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
22,226.00	91.07	176.47	12,675.39	9,439.23 S	764.45 E	384,182.68	789,489.71	0.39	9,446.61	-44.99	
22,321.00	91.48	175.83	12,673.27	9,534.00 S	770.83 E	384,087.91	789,496.09	0.80	9,541.43	-57.34	
22,415.00	90.40	175.34	12,671.73	9,627.70 S	778.07 E	383,994.21	789,503.33	1.26	9,635.20	-155.59	
22,508.00	90.43	175.33	12,671.06	9,720.39 S	785.63 E	383,901.52	789,510.89	0.03	9,727.97	-18.43	
22,601.00	90.94	175.14	12,669.95	9,813.06 S	793.35 E	383,808.85	789,518.61	0.59	9,820.71	-20.43	
22,695.00	91.04	175.71	12,668.32	9,906.75 S	800.85 E	383,715.16	789,526.11	0.62	9,914.47	80.04	
22,789.00	90.78	175.55	12,666.83	10,000.46 S	808.01 E	383,621.45	789,533.27	0.32	10,008.25	-148.39	
22,883.00	90.90	176.10	12,665.45	10,094.20 S	814.85 E	383,527.71	789,540.11	0.60	10,102.06	77.69	
22,962.00	90.73	175.78	12,664.33	10,173.00 S	820.45 E	383,448.91	789,545.71	0.46	10,180.91	-117.98	Last MWD Survey
22,979.00	90.73	175.78	12,664.11	10,189.95 S	821.70 E	383,431.96	789,546.96	0.00	10,197.87	0.00	Projection to TD 22979' MD/ 12664 TVD (100.64' FSL, 393.84' FEL)

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
107.00	107.00	0.23	0.00	First MWD Survey
12,997.00	12,709.40	-229.71	478.38	Landing Point 12997' MD 12709' TVD (505.16' FNL, 634.77' FEL)
18,274.00	12,629.74	-5,500.73	458.53	Turn to BHL 18274" MD 12629' TVD (4791.40' FSL, 708.79' FEL)
22,962.00	12,664.33	-10,173.00	820.45	Last MWD Survey
22,979.00	12,664.11	-10,189.95	821.70	Projection to TD 22979' MD/ 12664 TVD (100.64' FSL, 393.84' FEL)

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	179.41	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
20.00	22,962.00	MWD	3_MWD+HRGM+AX
22,979.00	22,979.00	Projection to TD	3_Blind

HALLIBURTON**Design Report for Charlie Murphy 6 WXY Fed Com 18H - Actual Drilled****Casing Details**

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,200.00	1,199.77	13 3/8"	13-3/8	17-1/2

Design Targets

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

Directional Difficulty Index

Average Dogleg over Survey:	1.31 °/100usft	Maximum Dogleg over Survey:	20.63 °/100usft at 12,898.00 usft
Net Tortousity applicable to Plans:	0.06 °/100usft	Directional Difficulty Index:	6.793

Audit Info

HALLIBURTON**North Reference Sheet for Charlie Murphy 6 Pad (Grid) - Charlie Murphy 6 WXY Fed Com 18H - 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 WXY Fed Com 18H

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: 1.00000457

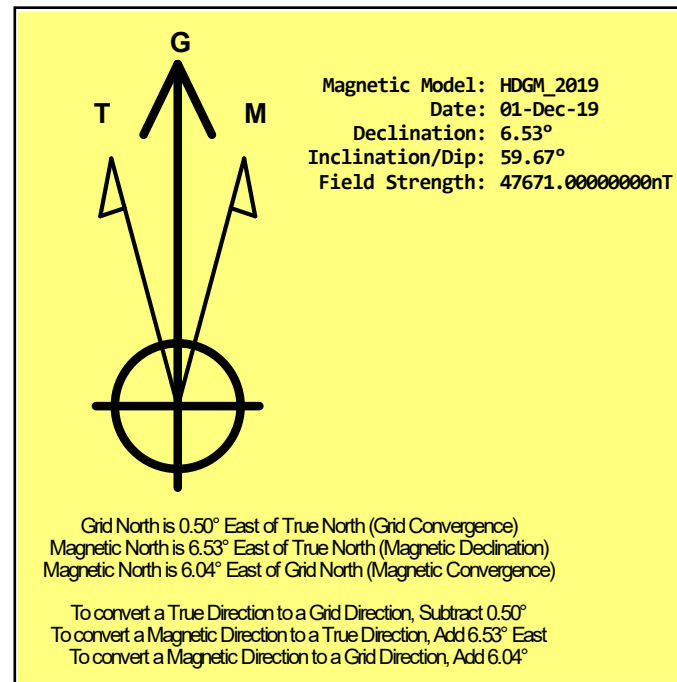
Grid Coordinates of Well: 393,621.91 usft N, 788,725.26 usft E

Geographical Coordinates of Well: 32.07875312, -103.40116599

Grid Convergence at Surface is: 0.50°

Based upon Minimum Curvature type calculations, at a Measured Depth of 22,979.00usft
the Bottom Hole Displacement is 10,223.03usft in the Direction of 175.39° (Grid).

Magnetic Convergence at surface is: -6.04° (1 December 2019, , HDGM_2019)



Submit Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-46486
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Charlie Murphy 6 WA Federal Com
8. Well Number 18H
9. OGRID Number 372098
10. Pool name or Wildcat WC-025 G-09 S263504N; Wolfcamp
4. Well Location Unit Letter <u>A</u> : <u>271</u> feet from the <u>NORTH</u> line and <u>1111</u> feet from the <u>EAST</u> line Section <u>6</u> Township <u>26S</u> Range <u>35E</u> NMPM County <u>LEA</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3270' GL

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Marathon Oil Permian LLC

3. Address of Operator
5555 San Felipe St., Houston, TX 77056

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>	P AND A <input type="checkbox"/>
CLOSED-LOOP SYSTEM <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: Completions <input checked="" type="checkbox"/>

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

8/12/2020 - Perform Production Casing Pressure Test to 13,000psi for 30 min. Held, good test.
8/13/2021 - MIRU
8/18/2021 - Started Frac Prep Operations
8/29/2021 - frac stages 1 - 34 with 2 shots per foot for a total of 1020 shots, 036-in. in size using 26,621,391 lbs of 100 Mesh. Stimulated with 4914 gal of 15% HCL Acid. Total production interval from 12,546' to 22,778'. End Frac on 9/11/2021. RDMO
9/13/2021 - Well Ready to Produce.
9/20/2021 - Turn well to production, start flowback

Spud Date:

12/20/2019

Rig Release Date:

2/24/2020

I hereby certify that the information above is true and complete to the best of my knowledge and belief.


SIGNATURE Adrian Covarrubias TITLE Regulatory Professional DATE 9/23/2021

Type or print name Adrian Covarrubias E-mail address: acovarrubias@marathonoil.com PHONE: 713-296-3368

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies 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 and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017				
1. WELL API NO. 30-025-46487										
2. Type of Lease <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> FED/INDIAN										
3. State Oil & Gas Lease No.										
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: <input checked="" type="checkbox"/> COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) <input type="checkbox"/> 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 WA Federal Com				
						6. Well Number: 18H				
7. Type of Completion: <input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> 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	1111	E	LEA
BH:	P	7	26S	35E		101	S	394	E	LEA
13. Date Spudded 12/20/2019	14. Date T.D. Reached 2/4/2020		15. Date Rig Released 2/24/2020		16. Date Completed (Ready to Produce) 9/13/2021			17. Elevations (DF and RKB, RT, GR, etc.) 3270' GL		
18. Total Measured Depth of Well 22979'			19. Plug Back Measured Depth 22914'		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 12,546' - 22,778', 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		1170'		17 1/2"		1175		
7 5/8"		29.7#; P110, BTC		11875'		9 7/8"		675		
5 1/2"		23#; P110, TWL		22967'		6 3/4"		1590		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 12,546' - 22,778'; 0.36", 1020 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						12,546' - 22,778'		26,621,391 lbs propanat; 100 Mesh		
						12,546' - 22,778'		4914 gal - 15% HCl Acid		
						12,546' - 22,778'		503,739 bbls - Brackish Water		
28. PRODUCTION										
Date First Production 9/21/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Prod.				
Date of Test 9/22/2021	Hours Tested 24	Choke Size 18/64	Prod'n For Test Period	Oil - Bbl 230	Gas - MCF 206	Water - Bbl. 2731	Gas - Oil Ratio			
Flow Tubing Press. 0	Casing Pressure 3339	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			Title			Date	
			Adrian Covarrubias			Regulatory Professional			9/23/2021	
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 5436'	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 5143'	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 9347'	T. Todilto	
T. Abo	T. Castile 3586'	T. Entrada	
T. Wolfcamp 12536'	T. Lamar 5408'	T. Wingate	
T. Penn	T.	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

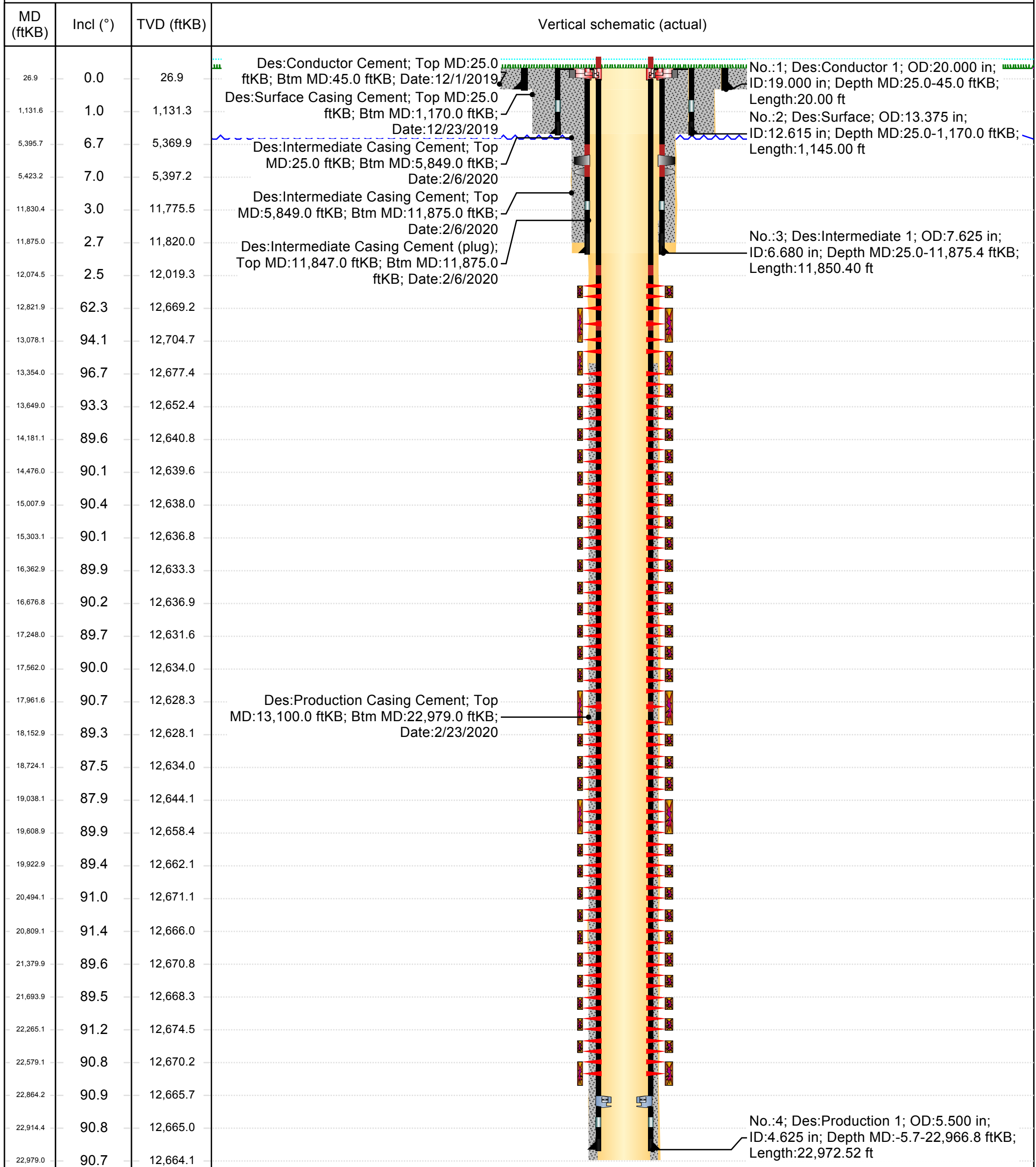


Wellbore Schematic

Well Name: CHARLIE MURPHY 6 WXY FEDERAL COM 018H

State/Province NEW MEXICO	Country UNITED STATES	Field Name DOGIE DRAW	Latitude (°) 32.07874880	Longitude (°) -103.40116390	North/South Distance (ft) 272.0	North/South Reference FNL
API/ IPO UWI 3002546487	KB-Ground Distance (ft) 25.00	KB-Mud Line Distance (ft)	Ground Elevation (ft) 3,270.00	Drilling Rig Spud Date 1/25/2020	Well Original Completion Date 9/15/2021	Well First Production Date

HORIZONTAL, CHARLIE MURPHY 6 WXY FEDERAL COM 018H, 9/16/2021 2:19:55 PM



Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM13647
2. Name of Operator MARATHON OIL PERMIAN LLC		6. If Indian, Allottee or Tribe Name
Contact: ADRIAN COVARRUBIAS E-Mail: acovarrubias@marathonoil.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 5555 SAN FELIPE STREET HOUSTON, TX 77056	3b. Phone No. (include area code) Ph: 713.296.3368	8. Well Name and No. CHARLIE MURPHY 6 WXY FC 18H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T26S R35E NENE 272FNL 1201FEL 32.078880 N Lat, 103.401627 W Lon		9. API Well No. 30-025-46487-00-X1
		10. Field and Pool or Exploratory Area WC025G09S263504N-WOLFCAMP
		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

MIRU. 12/18/2019 ? Notify BLM of intent to spud. 12/20 ? Spud well. Drill 17-1/2? hole to 1170?. 12/23 ? Run 13-3/8? csg, 54.5#, J55, STC to 1170?. Cement casing by pumping 50 bbls of spacer, 830 sks of lead cement, and 345 sks of tail cement with 576 sks of cement to surface. 1/25/2020 ? Notify BLM of intent to test BOPE. Perform BOPE test. 1/26 ? Pressure test 13-3/8? csg to 1600 psi for 30 min, held, good test. Drill float equipment, shoe track, and 10? of new formation to 1180?. 1/27 ? Drill 9-7/8? vertical to 9589?. 1/31 ? Flow check well and circulate bottoms up. TOH with vertical assembly to BHA. Change to new vertical BHA, test and TIH. 2/1 ? Continue drilling 9-7/8? vertical to 10077?. Flow check and circulate bottoms up. TOH to BHA. Change BHA. TIH with new vertical assembly. Drill 9-7/8? vertical to 11885?. 2/4 ? Circulate hole and flow check. 2/5 ? Run 7-5/8? csg, 29.7#, P110, Buttress to 11875?. 2/6 ? Cement 1st stage of 7-5/8? csg by pumping 20 bbls of spacer, 460 sks of lead cement, and 215 sks, of tail cement with no cement to surface. Perform 2nd stage of cementing 7-5/8? csg by pumping 60 bbls of spacer, 400 sks of lead cement, and

14. I hereby certify that the foregoing is true and correct. Electronic Submission #504522 verified by the BLM Well Information System For MARATHON OIL PERMIAN LLC, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 02/26/2020 (20PP1424SE)	
Name (Printed/Typed) ADRIAN COVARRUBIAS	Title REGULATORY PROFESSIONAL
Signature (Electronic Submission)	Date 02/26/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JONATHON SHEPARD Title PETROELUM ENGINEER	Date 02/27/2020
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #504522 that would not fit on the form

32. Additional remarks, continued

120 sks of tail cement, with 78 sks of cement to surface. 2/7 ? Pressure test 7-5/8? csg to 6000 psi for 30 min, held, good test. 2/8 ? Drill flow equipment, shoe track, and 10? of new formation to 11895?. Drill 6-3/4? vertical section to 12096?. Drill 6-3/4? curve section to 12610?. 2/9 ? Flow check well and circulate bottoms up. TOOH to BHA and change curve assembly. TIH with new curve assembly. Re-log gamma from 12498? to 12610?. Continue to drill 6-3/4? curve to 12748?. 2/10 ? Flow check. TOH with curve assembly to BHA. Change curve assembly. TIH. Re-log gamma from 12650 to 12748?. 2/11 ? Drill 6-3/4? curve to 12979?. TOH to BHA and pick up lateral assembly. TIH. Re-log gamma from 12820? to 12979?. 12/13 ? Drill 6-3/4? lateral to 13280?. Flow check and circulate. TOH to BHA. Change lateral assembly and TIH. Re-log gamma from 13120? to 13280?. 2/14 ? Continue drilling 6-3/4? lateral to 22979?. 2/20 ? Flow check and circulate. TOH to BHA. 2/22 ? Run 5-1/2? csg, 23#, P110, TLW to 22967?. 2/23 ? Cement casing by pumping 30 bbls of spacer, 575 sks of lead cement, and 1015 sks of tail cement, with no cement to surface. Pressure test of 5-1/2? csg will be performed during completions. RDMO 2/24/2020.

Revisions to Operator-Submitted EC Data for Sundry Notice #504522

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	DRG SR	DRG SR
Lease:	NMNM013647	NMNM13647
Agreement:		
Operator:	MARATHON OIL PERMIAN LLC 5555 SAN FELIPE ST HOUSTON, TX 77056 Ph: 713-296-3368	MARATHON OIL PERMIAN LLC 5555 SAN FELIPE STREET HOUSTON, TX 77056
Admin Contact:	ADRIAN COVARRUBIAS REGULATORY PROFESSIONAL E-Mail: acovarrubias@marathonoil.com Ph: 713-296-3368	ADRIAN COVARRUBIAS REGULATORY PROFESSIONAL E-Mail: acovarrubias@marathonoil.com Ph: 713.296.3368
Tech Contact:	ADRIAN COVARRUBIAS REGULATORY PROFESSIONAL E-Mail: acovarrubias@marathonoil.com Ph: 713-296-3368	ADRIAN COVARRUBIAS REGULATORY PROFESSIONAL E-Mail: acovarrubias@marathonoil.com Ph: 713.296.3368
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	WC025 G09 S263504N; WOLFC	WC025G09S263504N-WOLFCAMP
Well/Facility:	CHARLIE MURPHY 6 WXY FC 18H Sec 6 T26S R35E Mer NMP NENE 272FNL 1111FEL	CHARLIE MURPHY 6 WXY FC 18H Sec 6 T26S R35E NENE 272FNL 1201FEL 32.078880 N Lat, 103.401627 W Lon

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION TO CONSIDER:**

**CASE NO. 16424
ORDER NO. R-20306**

**APPLICATION OF MARATHON OIL PERMIAN LLC FOR APPROVAL OF A
NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY
POOLING, LEA COUNTY, NEW MEXICO.**

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on September 20, 2018, at Santa Fe, New Mexico, before Examiner William V. Jones.

NOW, on this 31st day of December, 2018, the Division Director, having considered the testimony, the record and the recommendations of the Examiner,

FINDS THAT

(1) Due public notice has been given and the Division has jurisdiction of this case and the subject matter.

(2) Cases No. 16424 and 16425 were consolidated at the hearing for testimony; however, a separate order will be issued for each case.

(3) The Applicant, Marathon Oil Permian LLC, seeks to compulsory pool all uncommitted oil and gas interests within a spacing unit ("the Unit") described as follows:

A Horizontal Spacing Unit comprising 640 acres (more or less) within the Wildcat Wolfcamp Oil Pool (Pool code 98117) and all other pools hereafter defined within the Wolfcamp formation in the E/2 of Section 6 and E/2 of Section 7, Township 26 South, Range 35 East, NMPM, Lea County, New Mexico.

(4) Applicant also seeks approval of the above described lands as a non-standard Horizontal Spacing Unit.

(5) The Unit will be dedicated to the following well(s):

Charlie Murphy 6 WXY FC Well No. 12H, API No. 30-025-Pending

SHL: 271 feet from the North line and 1201 feet from the East line,
(Unit A) of Section 6, Township 26 South, Range 35 East, NMPM.
BHL: 100 feet from the South line and 1979 feet from the East line,
(Unit O) of Section 7, Township 26 South, Range 35 East, NMPM.

Charlie Murphy 6 WA FC Well No. 15H, API No. 30-025-Pending

SHL: 272 feet from the North line and 1141 feet from the East line,
(Unit A) of Section 6, Township 26 South, Range 35 East, NMPM.
BHL: 100 feet from the South line and 989 feet from the East line,
(Unit P) of Section 7, Township 26 South, Range 35 East, NMPM.

Charlie Murphy 6 WXY FC Well No. 18H, API No. 30-025-Pending

SHL: 272 feet from the North line and 1111 feet from the East line,
(Unit A) of Section 6, Township 26 South, Range 35 East, NMPM.
BHL: 100 feet from the South line and 330 feet from the East line,
(Unit P) of Section 7, Township 26 South, Range 35 East, NMPM.

(6) The Wildcat Wolfcamp Oil Pool is governed by Division Rule 19.15.15.9(A) NMAC, which specifies 40-acre spacing and proration units [vertical wells], each comprising a governmental quarter-quarter section.

(7) The allowed setback footage distance for the proposed horizontal Oil well(s) is specified in Paragraph (1) of Subsection C of 19.15.16.15 NMAC effective June 26, 2018. Said rules allow the first or last take points to be no closer than 100 feet to the nearest unit boundary, and the setbacks measured perpendicular to the well path to be a minimum of 330 feet from the outer boundary of the horizontal spacing unit

(8) Devon Energy Production Company, L.P. appeared at the hearing. No other party entered an appearance in this case or otherwise opposed this application.

(9) Applicant appeared at the hearing through counsel and presented evidence to the effect that:

- (a) The Wolfcamp formation in this area is suitable for development by horizontal drilling.
- (b) The orientation of the horizontal well(s) is appropriate for the Unit.
- (c) The target drilling depth will be within the Wolfcamp Y and A members of the Wolfcamp formation.
- (d) The Well No. 15H is located within the E/2 E/2 of both Sections but is closer than 330 feet to the W/2 E/2 of each Section, therefore this is the well which defines the E/2 spacing unit.

- (e) Notice by certified mail was provided to all uncommitted interest owners in the proposed Unit whose interests were evidenced by a conveyance instrument, either of record or known to Applicant when the Application was filed, and to heirs known to Applicant of deceased persons who appear as owners in such instruments.
- (f) All affected parties were successfully contacted and provided with notice.
- (g) Notice to affected parties was posted in a newspaper of general circulation in the county as provided in Rule 19.15.4.12.B NMAC.

The Division finds and concludes that

(10) The application in this case was filed, and the Well(s) were permitted, on or after the June 26, 2018 date on which amendments to 19.15.16.7 and 19.15.16.15 NMAC (prescribing new spacing rules for horizontal wells) became effective (see Order No. R-14689). Hence the Well(s) must be spaced, permitted and drilled pursuant 19.15.16.15 NMAC, as amended effective June 26, 2018.

(11) Provided that the Unit constitutes a standard horizontal spacing unit for each of the Well(s) under now effective rules, no non-standard spacing unit approval is needed. If, however, the Unit is not a standard horizontal spacing unit for any of the Well(s), the operator must obtain approval of a non-standard horizontal spacing unit pursuant to 19.15.16.15.B(5) prior to producing such well.

(12) The portion of the case asking for a non-standard spacing and proration unit is no longer needed and should be dismissed.

(13) If the location of any of the Well(s) is unorthodox when the well is completed under the spacing rules then in effect and applicable to the well, the operator must obtain a non-standard location approval prior to producing the well.

(14) Marathon Oil Permian LLC (OGRID 372098) should be designated the operator of the Well(s) and of the Unit.

(15) Two or more separately owned tracts are embraced within the Unit, and/or there are royalty interests and/or undivided interests in oil and gas minerals in one or more tracts included in the Unit that are separately owned.

(16) Applicant is owner of an oil and gas working interest within the Unit. Applicant has the right to drill and proposes to drill the Well(s) to a common source of supply within the Unit at the described depths and location(s). Applicant should be allowed a one year period to complete at least one of the Well(s) after commencing drilling of the Well(s).

(17) There are interest owners in the Unit that have not agreed to pool their interests.

(18) To avoid the drilling of unnecessary wells, protect correlative rights, prevent waste and afford to the owner of each interest in the Unit the opportunity to recover or receive without unnecessary expense a just and fair share of hydrocarbons, this application should be approved by pooling all uncommitted interests, whatever they may be, in the oil and gas in the Wolfcamp formation within the Unit.

(19) To ensure protection of correlative rights, any pooled working interest owner whose address is known, and who has elected to participate under the terms of this order should be notified before the Division grants any extension of the time provided herein for commencing drilling. Any such owner may file an application, with notice to the operator, requesting that the extension be denied.

(20) Infill wells within the Unit should be subject to Division Rules 19.15.13.9 NMAC through 19.15.13.10 NMAC, and to the terms and conditions of this order.

(21) Any pooled working interest owner who does not pay its share of estimated well costs of any well should have withheld from production from such well its share of reasonable well costs plus an additional 200% thereof as a reasonable charge for the risk involved in drilling the Well(s).

(22) Reasonable charges for supervision (combined fixed rates) should be fixed at \$7000 per month, per well, while drilling and \$700 per month, per well, while producing, provided that these rates should be adjusted annually pursuant to the COPAS form titled "Accounting Procedure-Joint Operations."

IT IS THEREFORE ORDERED THAT

(1) All uncommitted interests, whatever they may be, in the oil and gas within the following described spacing unit ("the Unit") are hereby pooled:

A Horizontal Spacing Unit comprising 640 acres (more or less) within the Wildcat Wolfcamp Oil Pool (Pool code 98117) and all other pools hereafter defined within the Wolfcamp formation in the E/2 of Section 6 and E/2 of Section 7, Township 26 South, Range 35 East, NMPM, Lea County, New Mexico.

(2) The portion of the application in this case asking for approval of a non-standard spacing and proration unit is dismissed.

(3) The Unit shall be dedicated to the following "Well(s)":

Charlie Murphy 6 WXY FC Well No. 12H, API No. 30-025-Pending

SHL: 271 feet from the North line and 1201 feet from the East line,
(Unit A) of Section 6, Township 26 South, Range 35 East, NMPM.

BHL: 100 feet from the South line and 1979 feet from the East line,
(Unit O) of Section 7, Township 26 South, Range 35 East, NMPM.

Charlie Murphy 6 WA FC Well No. 15H, API No. 30-025-Pending

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SHL: 272 feet from the North line and 1141 feet from the East line,
(Unit A) of Section 6, Township 26 South, Range 35 East, NMPM.
BHL: 100 feet from the South line and 989 feet from the East line,
(Unit P) of Section 7, Township 26 South, Range 35 East, NMPM.

Charlie Murphy 6 WXY FC Well No. 18H, API No. 30-025-Pending

SHL: 272 feet from the North line and 1111 feet from the East line,
(Unit A) of Section 6, Township 26 South, Range 35 East, NMPM.
BHL: 100 feet from the South line and 330 feet from the East line,
(Unit P) of Section 7, Township 26 South, Range 35 East, NMPM.

(4) The Well(s) will be drilled horizontally and will target the Wolfcamp Y and A members of the Wolfcamp formation.

(5) Marathon Oil Permian LLC (OGRID 372098) is hereby designated the operator of the Well(s) and of the Unit.

(6) If any of the Well(s) is completed at an unorthodox location under applicable rules in effect at the time such well is completed, the operator shall provide notice and apply administratively for a location exception prior to producing the well.

(7) The operator of the Unit shall commence drilling the Well(s) on or before December 31, 2019 and shall thereafter continue drilling the Well(s) with due diligence to test the Wolfcamp formation at or about the proposed true vertical and measured depths.

(8) In the event the operator does not commence drilling the Well(s) on or before the date provided in the foregoing paragraph, the compulsory pooling provision of this order shall be of no effect, unless the operator obtains a written time extension from the Division Director pursuant to a written request stating its reasons for such extension and attaching satisfactory evidence.

(9) In the event the operator does not commence completion operations within one year after commencement of drilling operations pursuant to this order, then the compulsory pooling provisions of this order shall be of no effect unless operator obtains a written time extension from the Division Director pursuant to a written request stating its reasons for such extension and attaching satisfactory evidence.

(10) The operator shall provide a copy of any request for extension of time to drill or complete any well filed with the Director pursuant to this order to each pooled working interest owner who has elected to participate in the drilling of any well that is the subject of the request. Such copy shall be sent at the same time the request is sent to the Director.

(11) Upon final plugging and abandonment of the Well(s) and any other well drilled on the Unit pursuant to Division Rule 19.15.13.9 NMAC, the pooled unit created

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by this order shall terminate unless this order has been amended to authorize further operations.

(12) Infill wells within the Unit shall be subject to Division Rule 19.15.13.9 NMAC and to the terms and conditions of this order.

(13) After pooling, uncommitted working interest owners are referred to as pooled working interest owners. ("Pooled working interest owners" are owners of working interests in the Unit, including unleased mineral interests, who are not parties to an operating agreement governing the Unit.) After the effective date of this order, the operator shall furnish the Division and each known pooled working interest owner in the Unit separate itemized schedules of estimated costs of drilling, completing and equipping each of the Well(s) ("well costs").

(14) Within 30 days from the date the schedule of estimated well costs for any well is furnished, any pooled working interest owner shall have the right to elect to pay its share of estimated well costs to the operator in lieu of paying its share of reasonable well costs out of production as hereinafter provided. Payment shall be rendered within 90 days after expiration of the 30-day election period and any such owner who pays its share of estimated well costs as provided above for any well shall remain liable for operating costs but shall not be liable for risk charges to the extent computed based on costs of such well. Pooled working interest owners who do not elect to pay their share of estimated well costs, or who do not render timely payment to the operator, as provided in this paragraph shall thereafter be referred to as "non-consenting working interest owners."

(15) The operator shall furnish the Division and each known pooled working interest owner (including non-consenting working interest owners) an itemized schedule of actual well costs of each well within 180 days following completion of the proposed well. If no objection to the actual well costs for any well is received by the Division, and the Division has not objected, within 45 days following receipt of the schedule for such well, the actual well costs shall be deemed to be the reasonable well costs. If there is an objection to actual well costs within the 45-day period, the Division will determine reasonable well costs for such well after public notice and hearing.

(16) Within 60 days following determination of reasonable well costs for any well, any pooled working interest owner who has paid its share of estimated costs of such well in advance as provided above shall pay to the operator its share of the amount that reasonable well costs exceed estimated well costs and shall receive from the operator the amount, if any, that the estimated well costs it has paid for such well exceed its share of reasonable well costs.

(17) The operator is hereby authorized to withhold the following costs and charges from each non-consenting working interest owner's share of production from each well:

(a) the proportionate share of reasonable well costs attributable to the non-consenting working interest owner; and

(b) as a charge for the risk involved in drilling the well, 200% of the above costs.

(18) During the cost recovery period, the operator shall furnish to the Division and to each known non-consenting pooled working interest owner, annually, and within 90 days after payout occurs, a schedule of all revenues attributable to each proposed well, and all charges for supervision and operating costs charged against such revenues. Operating costs shall include all reasonable costs actually incurred for the maintenance and operation of the well, except for "well costs" reported pursuant to prior ordering paragraphs, that are properly chargeable to the joint account pursuant to COPAS procedures. If no objection to the operating costs is received by the Division, and the Division has not objected, within 45 days following receipt of any schedule, the costs shall be deemed to be the reasonable operating costs. If there is an objection to the accuracy or reasonableness of operating costs reported within the 45-day period, the Division will determine reasonable operating costs after public notice and hearing.

(19) The operator shall distribute the costs and charges withheld from production, proportionately, to the parties who advanced the well costs for such well.

(20) Reasonable charges for supervision (combined fixed rates) are hereby fixed at \$7000 per month, per well, while drilling and \$700 per month, per well, while producing, provided that these rates shall be adjusted annually pursuant to the COPAS form titled "Accounting Procedure-Joint Operations." The operator is authorized to withhold from production from each well the proportionate share of both the supervision charges and the actual expenditures required for operating of such well, not more than what are reasonable, attributable to pooled working interest owners.

(21) Except as provided in the foregoing paragraphs, all proceeds from production from the Well(s) that are not disbursed for any reason shall be held for the account of the person or persons entitled thereto pursuant to the Oil and Gas Proceeds Payment Act (NMSA 1978 Sections 70-10-1 through 70-10-6, as amended). If not sooner disbursed, such proceeds shall be turned over to the appropriate authority as and when required by the Uniform Unclaimed Property Act (NMSA 1978 Sections 7-8A-1 through 70-8A-31, as amended).

(22) Any unleased mineral interest shall be considered a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest for allocating costs and charges under this order. Any costs that are to be paid out of production shall be withheld only from the working interests' share of production, and no costs or charges shall be withheld from production attributable to royalty interests.

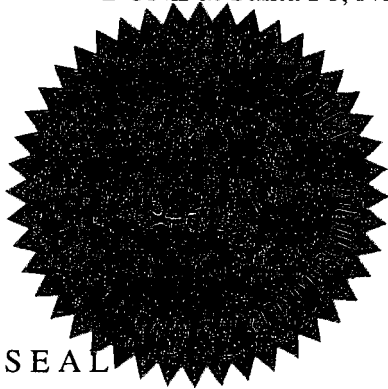
(23) Should all the parties to this compulsory pooling order reach voluntary agreement after entry of this order, this order shall thereafter be of no further effect.

Case No. 16424
Order No. R-20306
Page 8 of 8

(24) The operator of the wells and Unit shall notify the Division in writing of the subsequent voluntary agreement of any party subject to the compulsory pooling provisions of this order.

(25) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


HEATHER RILEY
Director

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

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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 51454

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 51454
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 51454

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 51454
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days to NMOCD after BLM approval.	1/31/2022