



Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

Honea 19-05 Pad

WMC 532-19-793 - Slot WMC 532-19-793

ST01

Plan: Plan 1

Standard Planning Report

02 May, 2023



Database:	NN	Local Co-ordinate Reference:	Well WMC 532-19-793 - Slot WMC 532-19-793
Company:	Terra Energy Partners, LLP	TVD Reference:	KB @ 8593.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	KB @ 8593.0ft
Site:	Honea 19-05 Pad	North Reference:	True
Well:	WMC 532-19-793	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Project	Garfield County, CO (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Honea 19-05 Pad			
Site Position:		Northing:	1,588,561.791 usft	Latitude:	39.426341
From:	Map	Easting:	2,343,950.999 usft	Longitude:	-107.822717
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.46 °

Well	WMC 532-19-793 - Slot WMC 532-19-793					
Well Position	+N/-S	73.7 ft	Northing:	1,588,633.591 usft	Latitude:	39.426544
	+E/-W	74.7 ft	Easting:	2,344,027.599 usft	Longitude:	-107.822452
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	8,563.0 ft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/2/2023	8.82	65.35	50,978

Design	Plan 1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	4,740.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	66.97	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
4,740.0	22.85	68.70	4,426.9	558.3	1,532.6	0.00	0.00	0.00	0.00	
4,875.2	23.60	62.11	4,551.2	580.5	1,581.0	2.00	0.56	-4.87	-76.92	
6,564.0	23.60	62.11	6,098.7	896.8	2,178.6	0.00	0.00	0.00	0.00	
8,137.4	0.00	0.00	7,628.0	1,046.3	2,461.0	1.50	-1.50	0.00	180.00	WMC 532-19-793 Ne
11,393.0	0.00	0.00	10,883.6	1,046.3	2,461.0	0.00	0.00	0.00	0.00	

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Project:	Garfield County, CO (Nad 83)	MD Reference:	KB @ 8593.0ft
Site:	Honea 19-05 Pad	North Reference:	True
Well:	WMC 532-19-793	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	1.50	69.85	100.0	0.5	1.2	1.3	1.50	1.50	0.00	
200.0	3.02	69.77	199.9	1.8	4.9	5.2	1.52	1.52	-0.08	
300.0	6.35	66.68	299.6	5.0	12.5	13.4	3.33	3.33	-3.09	
400.0	9.19	69.76	398.6	9.9	25.1	27.0	2.87	2.84	3.08	
500.0	11.97	70.24	496.9	16.1	42.3	45.2	2.79	2.78	0.48	
600.0	15.15	70.31	594.1	24.0	64.4	68.6	3.18	3.18	0.07	
700.0	18.11	69.56	689.9	33.9	91.4	97.3	2.97	2.96	-0.75	
800.0	20.60	68.25	784.2	45.7	122.3	130.5	2.53	2.49	-1.31	
900.0	21.79	67.34	877.3	59.7	156.2	167.1	1.23	1.18	-0.91	
1,000.0	22.79	68.20	969.9	74.1	191.0	204.8	1.06	1.01	0.86	
1,100.0	24.06	68.44	1,061.6	88.7	228.0	244.6	1.27	1.26	0.25	
1,200.0	23.18	68.68	1,153.3	103.3	265.4	284.6	0.89	-0.88	0.24	
1,300.0	22.21	67.62	1,245.5	117.6	301.2	323.2	1.05	-0.97	-1.07	
1,400.0	21.40	66.87	1,338.4	132.0	335.2	360.2	0.85	-0.81	-0.75	
1,500.0	22.39	69.07	1,431.2	146.0	369.9	397.5	1.29	0.99	2.21	
1,600.0	22.58	70.67	1,523.5	159.1	406.0	435.9	0.64	0.19	1.60	
1,700.0	22.70	71.04	1,616.0	171.7	442.0	473.9	0.19	0.12	0.37	
1,800.0	22.96	69.91	1,707.9	184.5	479.1	513.1	0.51	0.26	-1.13	
1,900.0	22.66	69.60	1,800.2	198.2	515.1	551.6	0.32	-0.30	-0.31	
2,000.0	22.47	70.98	1,892.5	211.2	551.4	590.0	0.56	-0.19	1.38	
2,100.0	21.67	71.11	1,985.1	223.3	587.0	627.6	0.80	-0.80	0.13	
2,200.0	22.28	70.75	2,077.9	235.5	622.2	664.7	0.62	0.61	-0.36	
2,300.0	21.58	69.08	2,170.7	248.3	657.3	702.0	0.93	-0.69	-1.67	
2,400.0	22.62	71.04	2,263.3	261.0	692.9	739.8	1.27	1.03	1.96	
2,500.0	22.46	69.96	2,355.8	274.0	728.6	777.7	0.44	-0.16	-1.08	
2,600.0	23.43	71.53	2,447.7	286.7	765.9	817.0	1.15	0.97	1.58	
2,700.0	22.60	71.73	2,539.7	299.2	803.0	856.1	0.84	-0.84	0.20	
2,800.0	22.76	71.85	2,632.2	310.9	839.2	894.0	0.17	0.16	0.12	
2,900.0	22.67	71.40	2,724.2	323.3	876.3	932.9	0.20	-0.10	-0.45	
3,000.0	23.19	71.69	2,816.5	335.6	912.9	971.4	0.53	0.52	0.29	
3,100.0	22.57	71.94	2,908.5	347.8	950.1	1,010.4	0.63	-0.62	0.25	
3,200.0	23.49	71.35	3,000.6	360.0	987.1	1,049.2	0.95	0.92	-0.59	
3,300.0	22.89	70.60	3,092.5	372.9	1,024.3	1,088.6	0.66	-0.59	-0.75	
3,400.0	22.18	70.15	3,184.9	385.7	1,060.2	1,126.6	0.73	-0.71	-0.46	
3,500.0	22.67	70.11	3,277.3	398.8	1,096.3	1,165.0	0.48	0.48	-0.03	
3,600.0	21.88	70.38	3,369.8	411.6	1,132.1	1,202.8	0.79	-0.78	0.26	
3,700.0	22.05	69.74	3,462.7	424.1	1,166.8	1,239.7	0.29	0.17	-0.63	
3,800.0	22.66	69.57	3,555.1	437.5	1,202.7	1,278.0	0.61	0.61	-0.17	
3,900.0	21.99	69.35	3,647.5	450.9	1,238.5	1,316.1	0.68	-0.67	-0.22	
4,000.0	22.12	69.15	3,740.3	464.1	1,273.4	1,353.4	0.15	0.13	-0.20	
4,100.0	21.90	69.80	3,832.9	477.3	1,308.5	1,391.0	0.33	-0.22	0.65	
4,200.0	20.90	69.08	3,926.1	490.1	1,342.7	1,427.4	1.04	-1.00	-0.72	
4,300.0	21.68	69.95	4,019.2	502.8	1,376.7	1,463.7	0.84	0.78	0.86	
4,400.0	21.81	70.90	4,112.1	515.1	1,411.6	1,500.6	0.38	0.13	0.96	
4,500.0	22.33	70.59	4,204.8	527.6	1,447.0	1,538.1	0.54	0.53	-0.31	
4,600.0	22.20	70.72	4,297.2	540.2	1,483.2	1,576.3	0.14	-0.13	0.12	
4,700.0	22.27	69.41	4,390.0	552.8	1,518.3	1,613.5	0.50	0.07	-1.30	
4,740.0	22.85	68.70	4,426.9	558.3	1,532.6	1,628.8	1.61	1.46	-1.78	
4,800.0	23.15	65.73	4,482.2	567.4	1,554.2	1,652.3	2.00	0.50	-4.96	
4,875.2	23.60	62.11	4,551.2	580.5	1,581.0	1,682.1	2.00	0.60	-4.81	
4,900.0	23.60	62.11	4,573.9	585.1	1,589.8	1,692.0	0.00	0.00	0.00	
5,000.0	23.60	62.11	4,665.5	603.9	1,625.1	1,731.9	0.00	0.00	0.00	

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Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.0	23.60	62.11	4,757.2	622.6	1,660.5	1,771.7	0.00	0.00	0.00	
5,200.0	23.60	62.11	4,848.8	641.3	1,695.9	1,811.6	0.00	0.00	0.00	
5,300.0	23.60	62.11	4,940.4	660.0	1,731.3	1,851.5	0.00	0.00	0.00	
5,400.0	23.60	62.11	5,032.1	678.8	1,766.7	1,891.4	0.00	0.00	0.00	
5,500.0	23.60	62.11	5,123.7	697.5	1,802.1	1,931.3	0.00	0.00	0.00	
5,600.0	23.60	62.11	5,215.4	716.2	1,837.5	1,971.2	0.00	0.00	0.00	
5,700.0	23.60	62.11	5,307.0	735.0	1,872.8	2,011.1	0.00	0.00	0.00	
5,800.0	23.60	62.11	5,398.6	753.7	1,908.2	2,051.0	0.00	0.00	0.00	
5,900.0	23.60	62.11	5,490.3	772.4	1,943.6	2,090.9	0.00	0.00	0.00	
6,000.0	23.60	62.11	5,581.9	791.2	1,979.0	2,130.8	0.00	0.00	0.00	
6,100.0	23.60	62.11	5,673.5	809.9	2,014.4	2,170.7	0.00	0.00	0.00	
6,200.0	23.60	62.11	5,765.2	828.6	2,049.8	2,210.6	0.00	0.00	0.00	
6,300.0	23.60	62.11	5,856.8	847.3	2,085.2	2,250.5	0.00	0.00	0.00	
6,400.0	23.60	62.11	5,948.4	866.1	2,120.6	2,290.4	0.00	0.00	0.00	
6,500.0	23.60	62.11	6,040.1	884.8	2,155.9	2,330.3	0.00	0.00	0.00	
6,564.0	23.60	62.11	6,098.7	896.8	2,178.6	2,355.8	0.00	0.00	0.00	
6,600.0	23.06	62.11	6,131.8	903.5	2,191.2	2,370.0	1.50	-1.50	0.00	
6,700.0	21.56	62.11	6,224.3	921.2	2,224.7	2,407.8	1.50	-1.50	0.00	
6,800.0	20.06	62.11	6,317.8	937.8	2,256.1	2,443.2	1.50	-1.50	0.00	
6,900.0	18.56	62.11	6,412.1	953.3	2,285.4	2,476.2	1.50	-1.50	0.00	
7,000.0	17.06	62.11	6,507.3	967.6	2,312.4	2,506.6	1.50	-1.50	0.00	
7,100.0	15.56	62.11	6,603.3	980.8	2,337.2	2,534.6	1.50	-1.50	0.00	
7,200.0	14.06	62.11	6,700.0	992.7	2,359.8	2,560.1	1.50	-1.50	0.00	
7,300.0	12.56	62.11	6,797.3	1,003.5	2,380.2	2,583.0	1.50	-1.50	0.00	
7,400.0	11.06	62.11	6,895.2	1,013.1	2,398.3	2,603.4	1.50	-1.50	0.00	
7,500.0	9.56	62.11	6,993.6	1,021.4	2,414.1	2,621.3	1.50	-1.50	0.00	
7,600.0	8.06	62.11	7,092.4	1,028.6	2,427.6	2,636.5	1.50	-1.50	0.00	
7,700.0	6.56	62.11	7,191.6	1,034.6	2,438.9	2,649.2	1.50	-1.50	0.00	
7,800.0	5.06	62.11	7,291.0	1,039.3	2,447.8	2,659.3	1.50	-1.50	0.00	
7,900.0	3.56	62.11	7,390.8	1,042.8	2,454.4	2,666.8	1.50	-1.50	0.00	
8,000.0	2.06	62.11	7,490.6	1,045.1	2,458.8	2,671.7	1.50	-1.50	0.00	
8,100.0	0.56	62.11	7,590.6	1,046.2	2,460.8	2,674.0	1.50	-1.50	0.00	
8,137.4	0.00	0.00	7,628.0	1,046.3	2,461.0	2,674.1	1.50	-1.50	0.00	
8,200.0	0.00	0.00	7,690.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	7,790.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	7,890.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	7,990.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,090.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,190.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,290.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,390.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,490.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,590.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	8,690.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	8,790.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,400.0	0.00	0.00	8,890.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	8,990.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,090.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,190.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,290.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,390.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,490.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,590.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	

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Project:	Garfield County, CO (Nad 83)	MD Reference:	KB @ 8593.0ft
Site:	Honea 19-05 Pad	North Reference:	True
Well:	WMC 532-19-793	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,200.0	0.00	0.00	9,690.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
10,300.0	0.00	0.00	9,790.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
10,400.0	0.00	0.00	9,890.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
10,500.0	0.00	0.00	9,990.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,090.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,190.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,290.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,390.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,490.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
11,100.0	0.00	0.00	10,590.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
11,200.0	0.00	0.00	10,690.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
11,300.0	0.00	0.00	10,790.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	
11,393.0	0.00	0.00	10,883.6	1,046.3	2,461.0	2,674.1	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
WMC 532-19-793 New \	0.00	0.00	7,628.0	1,046.3	2,461.0	1,589,616.600	2,346,514.500	39.429416	-107.813740
- hit/miss target									
- Shape									
- Point									
WMC 532-19-793 New E	0.00	0.00	10,883.0	1,046.3	2,461.0	1,589,616.600	2,346,514.500	39.429416	-107.813740
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
0.0	0.0	GRRV				
300.4	300.0	U__WASATCH				
5,035.4	4,698.0	G_SAND				
6,224.9	5,788.0	FRUN				
7,156.7	6,658.0	L__WSCH				
7,605.7	7,098.0	OCRK				
8,137.4	7,628.0	U__MVRD				
8,137.4	7,628.0	TOPGAS				
10,222.4	9,713.0	CME0				
11,062.4	10,553.0	RLNS				