



Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

TR 32-28-597 Pad

TR 612-28-597RD - Slot TR 612-28-597RD

OWB

Plan: Plan

Standard Planning Report

28 May, 2025



Database:	NN	Local Co-ordinate Reference:	Well TR 612-28-597RD - Slot TR 612-28-597RD
Company:	Terra Energy Partners, LLP	TVD Reference:	RKB @ 30' @ 8513.00ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	RKB @ 30' @ 8513.00ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 612-28-597RD	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan		

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		TR 32-28-597 Pad, Sec 28, T5S, R97W			
Site Position:		Northing:	1,650,709.300 usft	Latitude:	39.587032
From:	Map	Easting:	2,216,053.200 usft	Longitude:	-108.282011
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.75 °

Well	TR 612-28-597RD - Slot TR 612-28-597RD					
Well Position	+N/-S	-30.83 ft	Northing:	1,650,678.700 usft	Latitude:	39.586948
	+E/-W	-7.16 ft	Easting:	2,216,045.100 usft	Longitude:	-108.282036
Position Uncertainty		0.00 ft	Wellhead Elevation:	8,513.00 ft	Ground Level:	8,483.00 ft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/28/2025	9.07	65.52	50,769

Design	Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	249.62

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
366.67	5.00	215.00	366.46	-5.95	-4.17	3.00	3.00	0.00	215.00	
566.67	5.00	215.00	565.69	-20.23	-14.17	0.00	0.00	0.00	0.00	
1,356.01	27.59	250.45	1,319.42	-110.87	-208.92	3.00	2.86	4.49	41.97	
5,092.43	27.59	250.45	4,630.97	-689.99	-1,839.59	0.00	0.00	0.00	0.00	
6,931.72	0.00	0.00	6,400.00	-835.35	-2,248.88	1.50	-1.50	0.00	180.00	TR 612-28-597RD VF
9,875.72	0.00	0.00	9,344.00	-835.35	-2,248.88	0.00	0.00	0.00	0.00	TR 612-28-597RD BH

Database:	NN	Local Co-ordinate Reference:	Well TR 612-28-597RD - Slot TR 612-28-597RD
Company:	Terra Energy Partners, LLP	TVD Reference:	RKB @ 30' @ 8513.00ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	RKB @ 30' @ 8513.00ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 612-28-597RD	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	3.00	215.00	299.95	-2.14	-1.50	2.15	3.00	3.00	0.00
366.67	5.00	215.00	366.46	-5.95	-4.17	5.98	3.00	3.00	0.00
400.00	5.00	215.00	399.66	-8.33	-5.83	8.37	0.00	0.00	0.00
500.00	5.00	215.00	499.28	-15.47	-10.83	15.54	0.00	0.00	0.00
566.67	5.00	215.00	565.69	-20.23	-14.17	20.32	0.00	0.00	0.00
600.00	5.78	221.65	598.88	-22.68	-16.12	23.00	3.00	2.35	19.96
700.00	8.41	233.60	698.11	-30.78	-25.35	34.48	3.00	2.63	11.95
800.00	11.22	239.75	796.64	-40.03	-39.65	51.10	3.00	2.81	6.15
900.00	14.11	243.44	894.20	-50.38	-58.97	72.82	3.00	2.89	3.68
1,000.00	17.04	245.88	990.51	-61.83	-83.25	99.57	3.00	2.93	2.45
1,100.00	19.99	247.63	1,085.33	-74.32	-112.44	131.29	3.00	2.95	1.74
1,200.00	22.95	248.94	1,178.38	-87.84	-146.45	167.88	3.00	2.96	1.31
1,300.00	25.92	249.96	1,269.41	-102.34	-185.19	209.24	3.00	2.97	1.03
1,356.01	27.59	250.45	1,319.42	-110.87	-208.92	234.45	3.00	2.97	0.86
1,400.00	27.59	250.45	1,358.41	-117.69	-228.12	254.82	0.00	0.00	0.00
1,500.00	27.59	250.45	1,447.03	-133.19	-271.76	301.13	0.00	0.00	0.00
1,600.00	27.59	250.45	1,535.66	-148.69	-315.40	347.44	0.00	0.00	0.00
1,700.00	27.59	250.45	1,624.29	-164.19	-359.05	393.75	0.00	0.00	0.00
1,800.00	27.59	250.45	1,712.92	-179.69	-402.69	440.06	0.00	0.00	0.00
1,900.00	27.59	250.45	1,801.55	-195.19	-446.33	486.36	0.00	0.00	0.00
2,000.00	27.59	250.45	1,890.18	-210.69	-489.97	532.67	0.00	0.00	0.00
2,100.00	27.59	250.45	1,978.81	-226.19	-533.62	578.98	0.00	0.00	0.00
2,200.00	27.59	250.45	2,067.44	-241.69	-577.26	625.29	0.00	0.00	0.00
2,300.00	27.59	250.45	2,156.07	-257.19	-620.90	671.60	0.00	0.00	0.00
2,400.00	27.59	250.45	2,244.70	-272.69	-664.54	717.91	0.00	0.00	0.00
2,500.00	27.59	250.45	2,333.32	-288.18	-708.19	764.21	0.00	0.00	0.00
2,600.00	27.59	250.45	2,421.95	-303.68	-751.83	810.52	0.00	0.00	0.00
2,700.00	27.59	250.45	2,510.58	-319.18	-795.47	856.83	0.00	0.00	0.00
2,800.00	27.59	250.45	2,599.21	-334.68	-839.11	903.14	0.00	0.00	0.00
2,900.00	27.59	250.45	2,687.84	-350.18	-882.76	949.45	0.00	0.00	0.00
3,000.00	27.59	250.45	2,776.47	-365.68	-926.40	995.76	0.00	0.00	0.00
3,100.00	27.59	250.45	2,865.10	-381.18	-970.04	1,042.06	0.00	0.00	0.00
3,200.00	27.59	250.45	2,953.73	-396.68	-1,013.68	1,088.37	0.00	0.00	0.00
3,300.00	27.59	250.45	3,042.36	-412.18	-1,057.33	1,134.68	0.00	0.00	0.00
3,400.00	27.59	250.45	3,130.99	-427.68	-1,100.97	1,180.99	0.00	0.00	0.00
3,500.00	27.59	250.45	3,219.62	-443.18	-1,144.61	1,227.30	0.00	0.00	0.00
3,600.00	27.59	250.45	3,308.24	-458.68	-1,188.25	1,273.60	0.00	0.00	0.00
3,700.00	27.59	250.45	3,396.87	-474.18	-1,231.90	1,319.91	0.00	0.00	0.00
3,800.00	27.59	250.45	3,485.50	-489.68	-1,275.54	1,366.22	0.00	0.00	0.00
3,900.00	27.59	250.45	3,574.13	-505.18	-1,319.18	1,412.53	0.00	0.00	0.00
4,000.00	27.59	250.45	3,662.76	-520.67	-1,362.82	1,458.84	0.00	0.00	0.00
4,100.00	27.59	250.45	3,751.39	-536.17	-1,406.47	1,505.15	0.00	0.00	0.00
4,200.00	27.59	250.45	3,840.02	-551.67	-1,450.11	1,551.45	0.00	0.00	0.00
4,300.00	27.59	250.45	3,928.65	-567.17	-1,493.75	1,597.76	0.00	0.00	0.00
4,400.00	27.59	250.45	4,017.28	-582.67	-1,537.39	1,644.07	0.00	0.00	0.00
4,500.00	27.59	250.45	4,105.91	-598.17	-1,581.04	1,690.38	0.00	0.00	0.00
4,600.00	27.59	250.45	4,194.53	-613.67	-1,624.68	1,736.69	0.00	0.00	0.00
4,700.00	27.59	250.45	4,283.16	-629.17	-1,668.32	1,782.99	0.00	0.00	0.00
4,800.00	27.59	250.45	4,371.79	-644.67	-1,711.96	1,829.30	0.00	0.00	0.00
4,900.00	27.59	250.45	4,460.42	-660.17	-1,755.61	1,875.61	0.00	0.00	0.00

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Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 612-28-597RD	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan		

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)
5,000.00	27.59	250.45	4,549.05	-675.67	-1,799.25	1,921.92	0.00	0.00	0.00
5,092.43	27.59	250.45	4,630.97	-689.99	-1,839.59	1,964.72	0.00	0.00	0.00
5,100.00	27.48	250.45	4,637.68	-691.16	-1,842.88	1,968.22	1.50	-1.50	0.00
5,200.00	25.98	250.45	4,727.00	-706.21	-1,885.26	2,013.19	1.50	-1.50	0.00
5,300.00	24.48	250.45	4,817.46	-720.48	-1,925.42	2,055.80	1.50	-1.50	0.00
5,400.00	22.98	250.45	4,909.00	-733.94	-1,963.34	2,096.03	1.50	-1.50	0.00
5,500.00	21.48	250.45	5,001.57	-746.60	-1,998.98	2,133.85	1.50	-1.50	0.00
5,600.00	19.98	250.45	5,095.10	-758.44	-2,032.33	2,169.24	1.50	-1.50	0.00
5,700.00	18.48	250.45	5,189.52	-769.46	-2,063.36	2,202.16	1.50	-1.50	0.00
5,800.00	16.98	250.45	5,284.77	-779.65	-2,092.05	2,232.60	1.50	-1.50	0.00
5,900.00	15.48	250.45	5,380.78	-789.00	-2,118.38	2,260.54	1.50	-1.50	0.00
6,000.00	13.98	250.45	5,477.49	-797.51	-2,142.33	2,285.96	1.50	-1.50	0.00
6,100.00	12.48	250.45	5,574.84	-805.17	-2,163.89	2,308.83	1.50	-1.50	0.00
6,200.00	10.98	250.45	5,672.75	-811.97	-2,183.04	2,329.15	1.50	-1.50	0.00
6,300.00	9.48	250.45	5,771.16	-817.91	-2,199.77	2,346.90	1.50	-1.50	0.00
6,400.00	7.98	250.45	5,870.00	-822.99	-2,214.06	2,362.07	1.50	-1.50	0.00
6,500.00	6.48	250.45	5,969.20	-827.20	-2,225.92	2,374.65	1.50	-1.50	0.00
6,600.00	4.98	250.45	6,068.70	-830.53	-2,235.32	2,384.62	1.50	-1.50	0.00
6,700.00	3.48	250.45	6,168.42	-833.00	-2,242.26	2,391.99	1.50	-1.50	0.00
6,800.00	1.98	250.45	6,268.31	-834.59	-2,246.74	2,396.75	1.50	-1.50	0.00
6,900.00	0.48	250.45	6,368.28	-835.31	-2,248.76	2,398.88	1.50	-1.50	0.00
6,931.72	0.00	0.00	6,400.00	-835.35	-2,248.88	2,399.02	1.50	-1.50	0.00
7,000.00	0.00	0.00	6,468.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
7,100.00	0.00	0.00	6,568.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
7,200.00	0.00	0.00	6,668.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
7,300.00	0.00	0.00	6,768.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
7,400.00	0.00	0.00	6,868.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
7,500.00	0.00	0.00	6,968.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
7,600.00	0.00	0.00	7,068.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
7,700.00	0.00	0.00	7,168.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
7,800.00	0.00	0.00	7,268.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
7,900.00	0.00	0.00	7,368.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,000.00	0.00	0.00	7,468.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,100.00	0.00	0.00	7,568.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,200.00	0.00	0.00	7,668.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,300.00	0.00	0.00	7,768.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,400.00	0.00	0.00	7,868.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,500.00	0.00	0.00	7,968.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,600.00	0.00	0.00	8,068.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,700.00	0.00	0.00	8,168.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,800.00	0.00	0.00	8,268.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
8,900.00	0.00	0.00	8,368.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,000.00	0.00	0.00	8,468.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,100.00	0.00	0.00	8,568.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,200.00	0.00	0.00	8,668.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,300.00	0.00	0.00	8,768.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,400.00	0.00	0.00	8,868.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,500.00	0.00	0.00	8,968.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,600.00	0.00	0.00	9,068.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,700.00	0.00	0.00	9,168.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,800.00	0.00	0.00	9,268.28	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00
9,875.72	0.00	0.00	9,344.00	-835.35	-2,248.88	2,399.02	0.00	0.00	0.00

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Project:	Garfield County, CO (Nad 83)	MD Reference:	RKB @ 30' @ 8513.00ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 612-28-597RD	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
TR 612-28-597RD VP	0.00	0.00	6,400.00	-835.35	-2,248.88	1,649,912.600	2,213,771.700	39.584654	-108.290016
- plan hits target center									
- Point									
TR 612-28-597RD BHL	0.00	0.00	9,344.00	-835.35	-2,248.88	1,649,912.600	2,213,771.700	39.584654	-108.290016
- plan hits target center									
- Circle (radius 75.00)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
915.28	909.00	GRRV_MAHOGANY (TVD)				
1,416.47	1,373.00	ANVIL_POINTS (TVD)				
1,928.71	1,827.00	GARDEN_GULCH (TVD)				
2,376.65	2,224.00	DOUGLAS_CREEK (TVD)				
2,763.66	2,567.00	U__WASATCH (TVD)				
4,607.30	4,201.00	G_SAND (TVD)				
4,809.26	4,380.00	FRUN (TVD)				
6,015.97	5,493.00	OCRK (TVD)				
6,814.70	6,283.00	U__MESAVERDE (TVD)				
6,931.72	6,400.00	PERFMIN (TVD)				
7,231.72	6,700.00	KMVGAS (TVD)				
8,740.72	8,209.00	CME0 (TVD)				
9,010.72	8,479.00	RLNS (TVD)				
9,197.72	8,666.00	CZZT (TVD)				
9,425.72	8,894.00	CRCN (TVD)				
9,575.72	9,044.00	SEGO (TVD)				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	Start Build 3.00
366.67	366.46	-5.95	-4.17	Start 200.00 hold at 366.67 MD
566.67	565.69	-20.23	-14.17	Start DLS 3.00 TFO 41.97
1,356.01	1,319.42	-110.87	-208.92	Start 3736.42 hold at 1356.01 MD
5,092.43	4,630.97	-689.99	-1,839.59	Start Drop -1.50
6,931.72	6,400.00	-835.35	-2,248.88	Start 2944.00 hold at 6931.72 MD
9,875.72	9,344.00	-835.35	-2,248.88	TD at 9875.72