

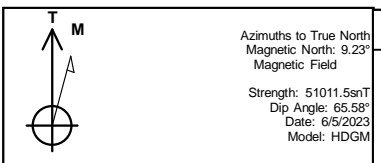


REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well TR 311-28-597 - Slot TR 311-28-597, True North
Vertical (TVD) Reference: rkb @ 8513.0ft
Section (VS) Reference: Slot - TR 311-28-597(0.0N, 0.0E)
Measured Depth Reference: rkb @ 8513.0ft
Calculation Method: Minimum Curvature



Project: Garfield County, CO (Nad 83)
Site: TR 32-28-597 Pad
Well: TR 311-28-597
Wellbore: OWB
Design: Plan

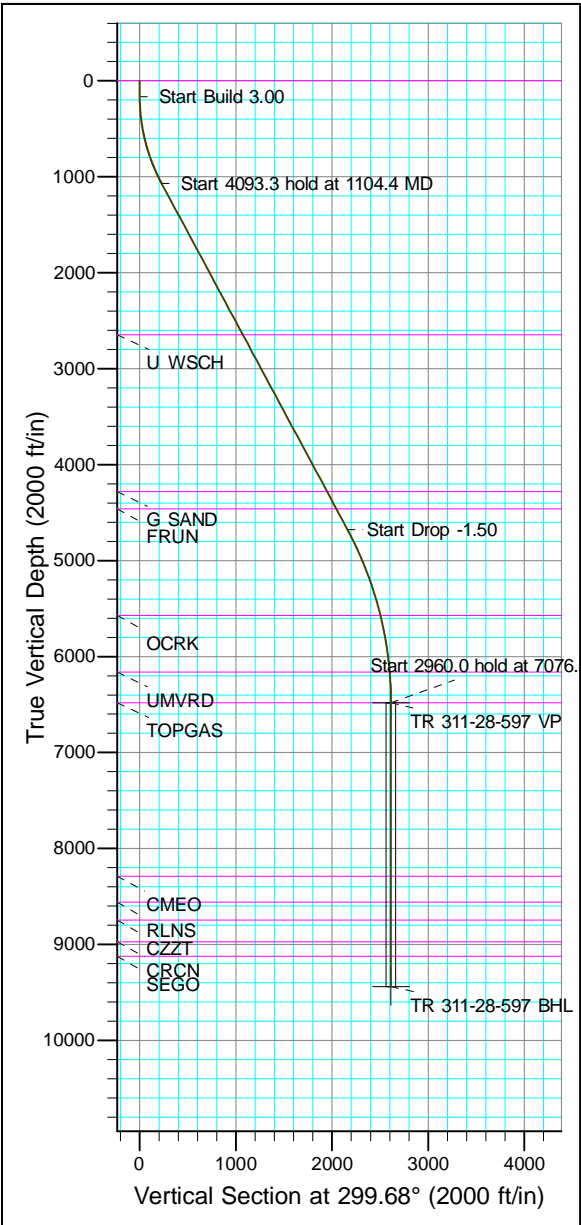


Azimuths to True North
Magnetic North: 9.23°
Magnetic Field

Strength: 51011.5nT
Dip Angle: 65.58°
Date: 6/5/2023
Model: HDGM

WELL DETAILS: TR 311-28-597

+N/-S	+E/-W	Northing	Ground Level: 8483.0	Easting	Latitude	Longitude	Slot
0.0	0.0	1650724.200	2216052.200	39.587073	-108.282016	TR 311-28-597	

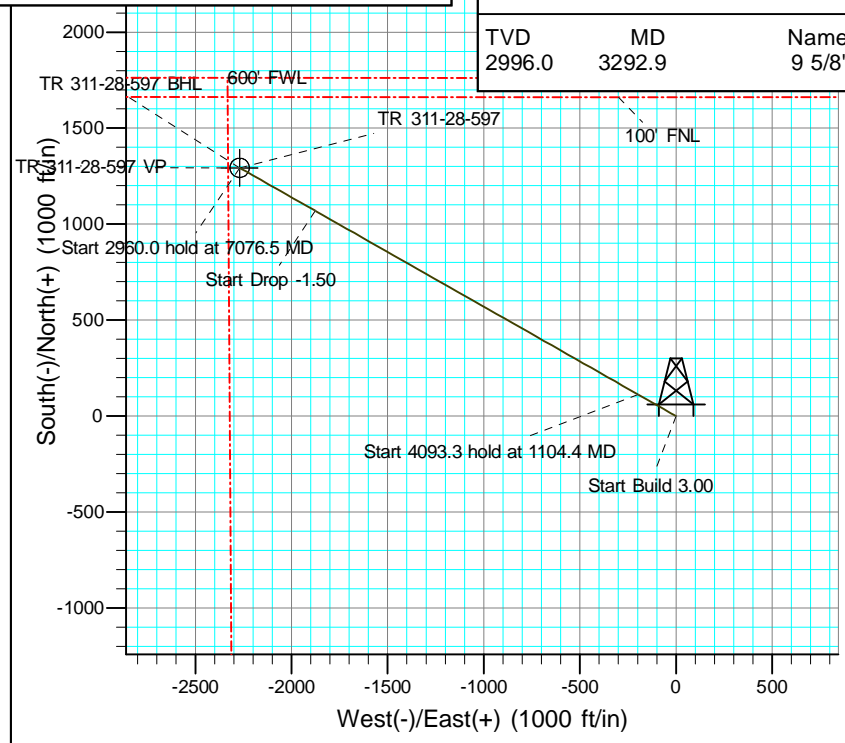
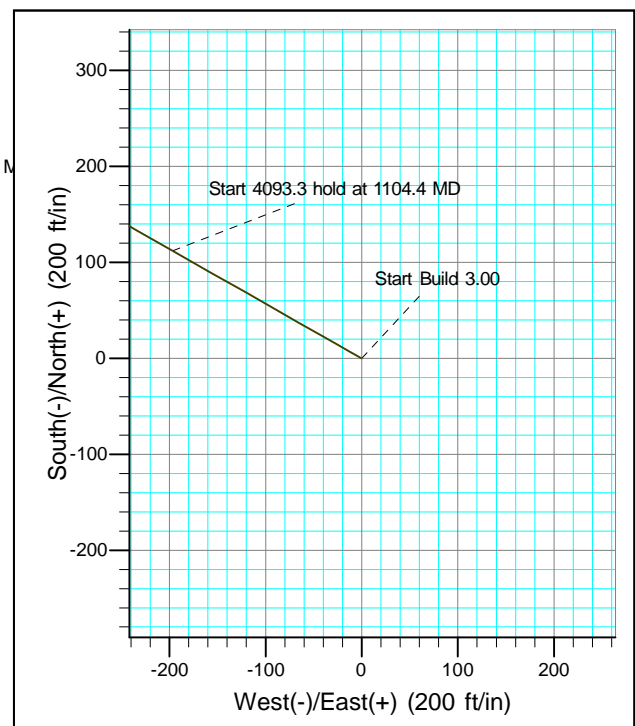


ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
165.0	165.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.00	
1067.0	1104.4	28.18	299.68	112.1	-196.7	226.4	226.4	Start 4093.3 hold at 1104.4 MD	
4675.0	5197.7	28.18	299.68	1069.5	-1876.2	2159.6	2159.6	Start Drop -1.50	
6479.0	7076.5	0.00	0.00	1293.7	-2269.6	2612.4	2612.4	Start 2960.0 hold at 7076.5 MD	
9439.0	10036.5	0.00	0.00	1293.7	-2269.6	2612.4	2612.4	TD at 10036.5	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
0.0	0.0	GRRV
2646.0	2895.8	U WSCH
4280.0	4749.6	G SAND
4459.0	4952.6	FRUN
5572.0	6160.8	OCRK
6162.0	6759.2	UMVRD
6479.0	7076.5	TOPGAS
8288.0	8885.5	CMEQ
8558.0	9155.5	RLNS
8745.0	9342.5	CZT
8973.0	9570.5	CRCN
9123.0	9720.5	SEGO

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
VP	6479.0	1293.7	-2269.6	1652086.800	2213823.300	39.590624	-108.290069	Point	- plan hits target center
BHL	9439.0	1293.7	-2269.6	1652086.800	2213823.300	39.590624	-108.290069	Circle (Radius: 50.0)	- plan hits target center

CASING DETAILS		
TVD	MD	Name
2996.0	3292.9	9 5/8"





Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

TR 32-28-597 Pad

TR 311-28-597 - Slot TR 311-28-597

OWB

Plan: Plan

Standard Planning Report

13 June, 2023



Database:	NN	Local Co-ordinate Reference:	Well TR 311-28-597 - Slot TR 311-28-597
Company:	Terra Energy Partners, LLP	TVD Reference:	rkb @ 8513.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	rkb @ 8513.0ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 311-28-597	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:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.75 °

Well	TR 311-28-597 - Slot TR 311-28-597					
Well Position	+N/-S	14.9 ft	Northing:	1,650,724.200 usft	Latitude:	39.587073
	+E/-W	-1.5 ft	Easting:	2,216,052.200 usft	Longitude:	-108.282016
Position Uncertainty		0.0 ft	Wellhead Elevation:	8,513.0 ft	Ground Level:	8,483.0 ft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/5/2023	9.23	65.58	51,012

Design	Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	299.68

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
165.0	0.00	0.00	165.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,104.4	28.18	299.68	1,067.0	112.1	-196.7	3.00	3.00	0.00	299.68	
5,197.7	28.18	299.68	4,675.0	1,069.5	-1,876.2	0.00	0.00	0.00	0.00	
7,076.5	0.00	0.00	6,479.0	1,293.7	-2,269.6	1.50	-1.50	0.00	180.00	
10,036.5	0.00	0.00	9,439.0	1,293.7	-2,269.6	0.00	0.00	0.00	0.00	TR 311-28-597 BHL

Database:	NN	Local Co-ordinate Reference:	Well TR 311-28-597 - Slot TR 311-28-597
Company:	Terra Energy Partners, LLP	TVD Reference:	rkb @ 8513.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	rkb @ 8513.0ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 311-28-597	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
165.0	0.00	0.00	165.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 3.00									
200.0	1.05	299.68	200.0	0.2	-0.3	0.3	3.00	3.00	0.00
300.0	4.05	299.68	299.9	2.4	-4.1	4.8	3.00	3.00	0.00
400.0	7.05	299.68	399.4	7.2	-12.5	14.4	3.00	3.00	0.00
500.0	10.05	299.68	498.3	14.5	-25.5	29.3	3.00	3.00	0.00
600.0	13.05	299.68	596.2	24.4	-42.9	49.3	3.00	3.00	0.00
700.0	16.05	299.68	693.0	36.9	-64.7	74.4	3.00	3.00	0.00
800.0	19.05	299.68	788.4	51.8	-90.9	104.6	3.00	3.00	0.00
900.0	22.05	299.68	882.0	69.2	-121.4	139.7	3.00	3.00	0.00
1,000.0	25.05	299.68	973.7	89.0	-156.1	179.6	3.00	3.00	0.00
1,100.0	28.05	299.68	1,063.1	111.1	-194.9	224.3	3.00	3.00	0.00
1,104.4	28.18	299.68	1,067.0	112.1	-196.7	226.4	3.00	3.00	0.00
Start 4093.3 hold at 1104.4 MD									
1,200.0	28.18	299.68	1,151.2	134.5	-235.9	271.6	0.00	0.00	0.00
1,300.0	28.18	299.68	1,239.4	157.9	-277.0	318.8	0.00	0.00	0.00
1,400.0	28.18	299.68	1,327.5	181.3	-318.0	366.0	0.00	0.00	0.00
1,500.0	28.18	299.68	1,415.7	204.6	-359.0	413.2	0.00	0.00	0.00
1,600.0	28.18	299.68	1,503.8	228.0	-400.0	460.5	0.00	0.00	0.00
1,700.0	28.18	299.68	1,592.0	251.4	-441.1	507.7	0.00	0.00	0.00
1,800.0	28.18	299.68	1,680.1	274.8	-482.1	554.9	0.00	0.00	0.00
1,900.0	28.18	299.68	1,768.3	298.2	-523.1	602.2	0.00	0.00	0.00
2,000.0	28.18	299.68	1,856.4	321.6	-564.2	649.4	0.00	0.00	0.00
2,100.0	28.18	299.68	1,944.5	345.0	-605.2	696.6	0.00	0.00	0.00
2,200.0	28.18	299.68	2,032.7	368.4	-646.2	743.8	0.00	0.00	0.00
2,300.0	28.18	299.68	2,120.8	391.8	-687.3	791.1	0.00	0.00	0.00
2,400.0	28.18	299.68	2,209.0	415.1	-728.3	838.3	0.00	0.00	0.00
2,500.0	28.18	299.68	2,297.1	438.5	-769.3	885.5	0.00	0.00	0.00
2,600.0	28.18	299.68	2,385.3	461.9	-810.3	932.7	0.00	0.00	0.00
2,700.0	28.18	299.68	2,473.4	485.3	-851.4	980.0	0.00	0.00	0.00
2,800.0	28.18	299.68	2,561.6	508.7	-892.4	1,027.2	0.00	0.00	0.00
2,900.0	28.18	299.68	2,649.7	532.1	-933.4	1,074.4	0.00	0.00	0.00
3,000.0	28.18	299.68	2,737.9	555.5	-974.5	1,121.7	0.00	0.00	0.00
3,100.0	28.18	299.68	2,826.0	578.9	-1,015.5	1,168.9	0.00	0.00	0.00
3,200.0	28.18	299.68	2,914.1	602.2	-1,056.5	1,216.1	0.00	0.00	0.00
3,300.0	28.18	299.68	3,002.3	625.6	-1,097.5	1,263.3	0.00	0.00	0.00
3,400.0	28.18	299.68	3,090.4	649.0	-1,138.6	1,310.6	0.00	0.00	0.00
3,500.0	28.18	299.68	3,178.6	672.4	-1,179.6	1,357.8	0.00	0.00	0.00
3,600.0	28.18	299.68	3,266.7	695.8	-1,220.6	1,405.0	0.00	0.00	0.00
3,700.0	28.18	299.68	3,354.9	719.2	-1,261.7	1,452.3	0.00	0.00	0.00
3,800.0	28.18	299.68	3,443.0	742.6	-1,302.7	1,499.5	0.00	0.00	0.00
3,900.0	28.18	299.68	3,531.2	766.0	-1,343.7	1,546.7	0.00	0.00	0.00
4,000.0	28.18	299.68	3,619.3	789.3	-1,384.8	1,593.9	0.00	0.00	0.00
4,100.0	28.18	299.68	3,707.5	812.7	-1,425.8	1,641.2	0.00	0.00	0.00
4,200.0	28.18	299.68	3,795.6	836.1	-1,466.8	1,688.4	0.00	0.00	0.00
4,300.0	28.18	299.68	3,883.7	859.5	-1,507.8	1,735.6	0.00	0.00	0.00
4,400.0	28.18	299.68	3,971.9	882.9	-1,548.9	1,782.8	0.00	0.00	0.00
4,500.0	28.18	299.68	4,060.0	906.3	-1,589.9	1,830.1	0.00	0.00	0.00
4,600.0	28.18	299.68	4,148.2	929.7	-1,630.9	1,877.3	0.00	0.00	0.00
4,700.0	28.18	299.68	4,236.3	953.1	-1,672.0	1,924.5	0.00	0.00	0.00
4,800.0	28.18	299.68	4,324.5	976.5	-1,713.0	1,971.8	0.00	0.00	0.00
4,900.0	28.18	299.68	4,412.6	999.8	-1,754.0	2,019.0	0.00	0.00	0.00

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Company:	Terra Energy Partners, LLP	TVD Reference:	rkb @ 8513.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	rkb @ 8513.0ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 311-28-597	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)
5,000.0	28.18	299.68	4,500.8	1,023.2	-1,795.1	2,066.2	0.00	0.00	0.00
5,100.0	28.18	299.68	4,588.9	1,046.6	-1,836.1	2,113.4	0.00	0.00	0.00
5,197.7	28.18	299.68	4,675.0	1,069.5	-1,876.2	2,159.6	0.00	0.00	0.00
Start Drop -1.50									
5,200.0	28.15	299.68	4,677.0	1,070.0	-1,877.1	2,160.7	1.50	-1.50	0.00
5,300.0	26.65	299.68	4,765.8	1,092.8	-1,917.1	2,206.7	1.50	-1.50	0.00
5,400.0	25.15	299.68	4,855.8	1,114.4	-1,955.0	2,250.4	1.50	-1.50	0.00
5,500.0	23.65	299.68	4,946.8	1,134.9	-1,990.9	2,291.7	1.50	-1.50	0.00
5,600.0	22.15	299.68	5,039.0	1,154.1	-2,024.7	2,330.6	1.50	-1.50	0.00
5,700.0	20.65	299.68	5,132.1	1,172.2	-2,056.4	2,367.1	1.50	-1.50	0.00
5,800.0	19.15	299.68	5,226.1	1,189.1	-2,086.0	2,401.1	1.50	-1.50	0.00
5,900.0	17.65	299.68	5,321.0	1,204.7	-2,113.4	2,432.6	1.50	-1.50	0.00
6,000.0	16.15	299.68	5,416.7	1,219.1	-2,138.7	2,461.7	1.50	-1.50	0.00
6,100.0	14.65	299.68	5,513.1	1,232.2	-2,161.7	2,488.3	1.50	-1.50	0.00
6,200.0	13.15	299.68	5,610.1	1,244.1	-2,182.6	2,512.3	1.50	-1.50	0.00
6,300.0	11.65	299.68	5,707.8	1,254.8	-2,201.2	2,533.8	1.50	-1.50	0.00
6,400.0	10.15	299.68	5,806.0	1,264.1	-2,217.7	2,552.7	1.50	-1.50	0.00
6,500.0	8.65	299.68	5,904.7	1,272.2	-2,231.9	2,569.0	1.50	-1.50	0.00
6,600.0	7.15	299.68	6,003.7	1,279.0	-2,243.8	2,582.7	1.50	-1.50	0.00
6,700.0	5.65	299.68	6,103.1	1,284.5	-2,253.5	2,593.9	1.50	-1.50	0.00
6,800.0	4.15	299.68	6,202.7	1,288.8	-2,260.9	2,602.4	1.50	-1.50	0.00
6,900.0	2.65	299.68	6,302.5	1,291.7	-2,266.0	2,608.3	1.50	-1.50	0.00
7,000.0	1.15	299.68	6,402.5	1,293.3	-2,268.9	2,611.6	1.50	-1.50	0.00
7,076.5	0.00	0.00	6,479.0	1,293.7	-2,269.6	2,612.4	1.50	-1.50	0.00
Start 2960.0 hold at 7076.5 MD									
7,100.0	0.00	0.00	6,502.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
7,200.0	0.00	0.00	6,602.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
7,300.0	0.00	0.00	6,702.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
7,400.0	0.00	0.00	6,802.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
7,500.0	0.00	0.00	6,902.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,002.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,102.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,202.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,302.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,402.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,100.0	0.00	0.00	7,502.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,200.0	0.00	0.00	7,602.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,300.0	0.00	0.00	7,702.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,400.0	0.00	0.00	7,802.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,500.0	0.00	0.00	7,902.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,002.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,102.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,202.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,302.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,402.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,100.0	0.00	0.00	8,502.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,200.0	0.00	0.00	8,602.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,300.0	0.00	0.00	8,702.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,400.0	0.00	0.00	8,802.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,500.0	0.00	0.00	8,902.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,002.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,102.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,202.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,302.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00

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Company:	Terra Energy Partners, LLP	TVD Reference:	rkb @ 8513.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	rkb @ 8513.0ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 311-28-597	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)	
10,000.0	0.00	0.00	9,402.5	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00	
10,036.5	0.00	0.00	9,439.0	1,293.7	-2,269.6	2,612.4	0.00	0.00	0.00	
TD at 10036.5										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
TR 311-28-597 VP - hit/miss target - Shape - Point	0.00	0.00	6,479.0	1,293.7	-2,269.6	1,652,086.800	2,213,823.300	39.590625	-108.290069	
TR 311-28-597 BHL - plan hits target center - Circle (radius 50.0)	0.00	0.00	9,439.0	1,293.7	-2,269.6	1,652,086.800	2,213,823.300	39.590625	-108.290069	

Casing Points									
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")					
3,292.9	2,996.0	9 5/8"	9-5/8	12-1/4					

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
0.0	0.0	GRRV		0.00		
2,895.8	2,646.0	U WSCH		0.00		
4,749.6	4,280.0	G SAND		0.00		
4,952.6	4,459.0	FRUN		0.00		
6,160.8	5,572.0	OCRK		0.00		
6,759.2	6,162.0	UMVRD		0.00		
7,076.5	6,479.0	TOPGAS		0.00		
8,885.5	8,288.0	CME0		0.00		
9,155.5	8,558.0	RLNS		0.00		
9,342.5	8,745.0	CZZT		0.00		
9,570.5	8,973.0	CRCN		0.00		
9,720.5	9,123.0	SEGO		0.00		

Database:	NN	Local Co-ordinate Reference:	Well TR 311-28-597 - Slot TR 311-28-597
Company:	Terra Energy Partners, LLP	TVD Reference:	rkb @ 8513.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	rkb @ 8513.0ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 311-28-597	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
165.0	165.0	0.0	0.0	Start Build 3.00
1,104.4	1,067.0	112.1	-196.7	Start 4093.3 hold at 1104.4 MD
5,197.7	4,675.0	1,069.5	-1,876.2	Start Drop -1.50
7,076.5	6,479.0	1,293.7	-2,269.6	Start 2960.0 hold at 7076.5 MD
10,036.5	9,439.0	1,293.7	-2,269.6	TD at 10036.5