

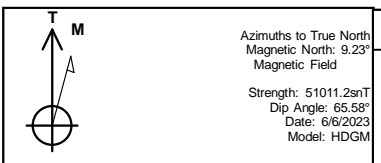


REFERENCE INFORMATION

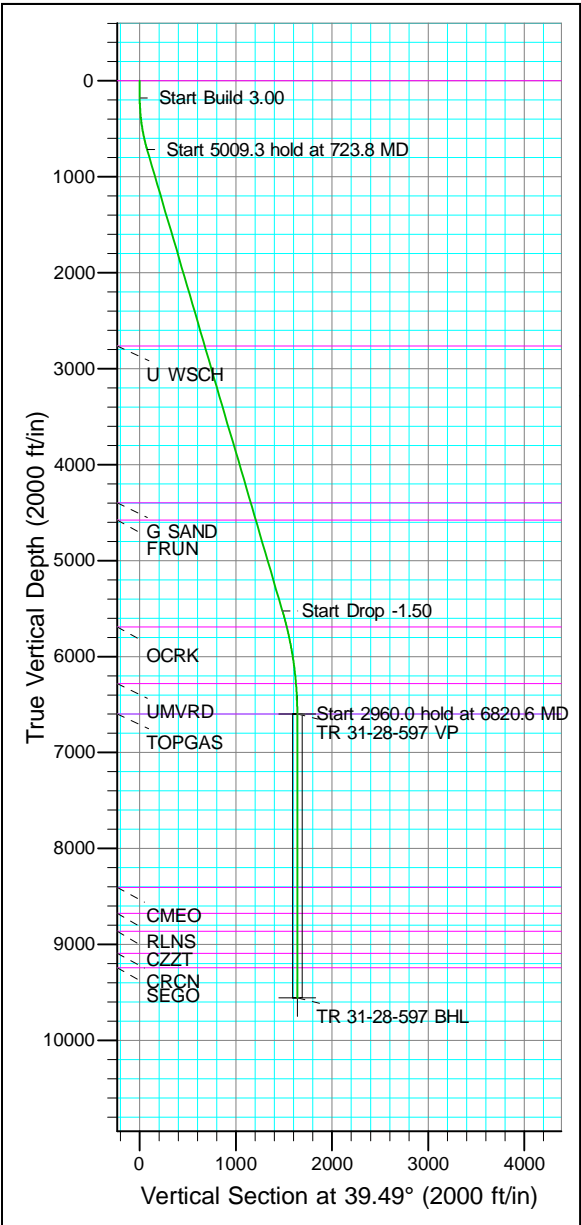
Co-ordinate (N/E) Reference: Well TR 31-28-597 - Slot TR 31-28-597, True North
Vertical (TVD) Reference: RKB @ 30' @ 8513.0ft
Section (VS) Reference: Slot - TR 31-28-597(0.0N, 0.0E)
Measured Depth Reference: RKB @ 30' @ 8513.0ft
Calculation Method: Minimum Curvature



Project: Garfield County, CO (Nad 83)
Site: TR 32-28-597 Pad
Well: TR 31-28-597
Wellbore: OWB
Design: Plan



WELL DETAILS: TR 31-28-597					
+N/-S	+E/-W	Northing	Ground Level: 8483.0 Easting	Latitude	Longitude
0.0	0.0	1650738.600	2216041.300	39.587112	-108.282056
				Slot	TR 31-28-597

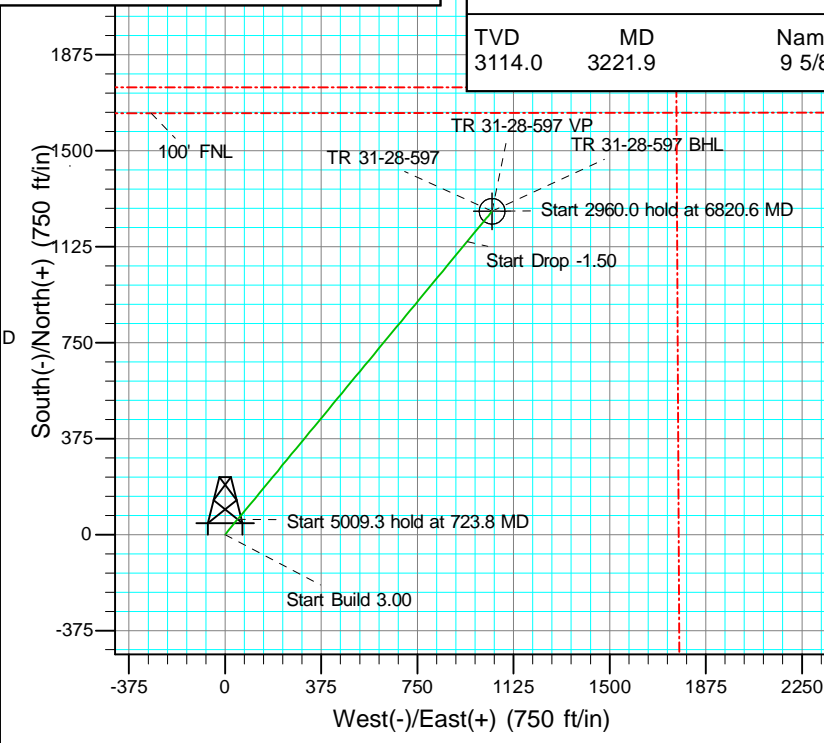
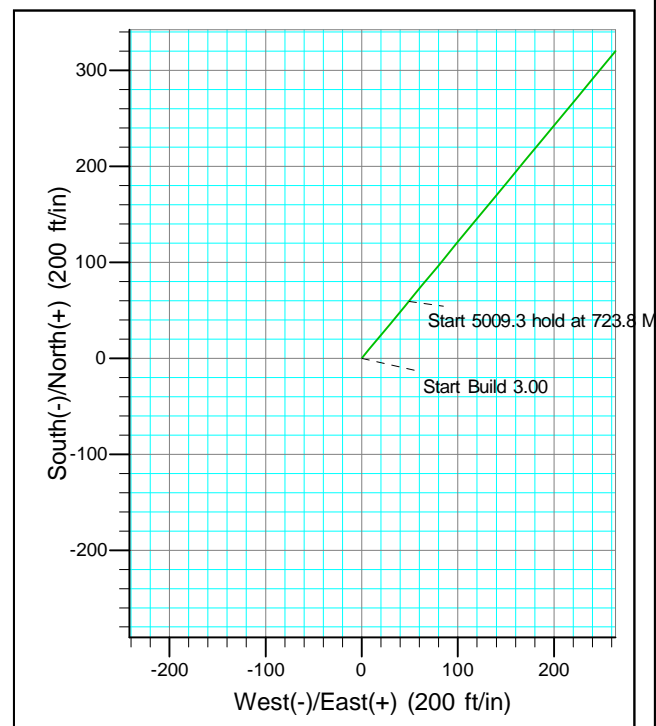


ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
180.0	180.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.00	
716.5	723.8	16.31	39.49	59.3	48.9	76.9	76.9	Start 5009.3 hold at 723.8 MD	
5524.1	5733.1	16.31	39.49	1145.2	943.7	1483.9	1483.9	Start Drop -1.50	
6597.0	6820.6	0.00	0.00	1263.9	1041.5	1637.7	1637.7	Start 2960.0 hold at 6820.6 MD	
9557.0	9780.6	0.00	0.00	1263.9	1041.5	1637.7	1637.7	TD at 9780.6	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
0.0	0.0	GRRV
2764.0	2857.2	U WSCH
4398.0	4559.7	G SAND
4577.0	4746.3	FRUN
5690.0	5904.9	OCRK
6280.0	6503.3	UMVRD
6597.0	6820.6	TOPGAS
8406.0	8629.6	CMEQ
8676.0	8899.6	RLNS
8863.0	9086.6	CZZT
9091.0	9314.6	CRCN
9241.0	9464.6	SEGO

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
VP	6597.0	1263.9	1041.5	1651970.000	2217121.000	39.590581	-108.278361	Point	
BHL	9557.0	1263.9	1041.5	1651970.000	2217121.000	39.590581	-108.278361	Circle (Radius: 50.0)	
- plan hits target center									

CASING DETAILS		
TVD	MD	Name
3114.0	3221.9	9 5/8"





Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

TR 32-28-597 Pad

TR 31-28-597 - Slot TR 31-28-597

OWB

Plan: Plan

Standard Planning Report

13 June, 2023



Database:	NN	Local Co-ordinate Reference:	Well TR 31-28-597 - Slot TR 31-28-597
Company:	Terra Energy Partners, LLP	TVD Reference:	RKB @ 30' @ 8513.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	RKB @ 30' @ 8513.0ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 31-28-597	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 31-28-597 - Slot TR 31-28-597					
Well Position	+N/-S	28.9 ft	Northing:	1,650,738.600 usft	Latitude:	39.587112
	+E/-W	-12.8 ft	Easting:	2,216,041.300 usft	Longitude:	-108.282056
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	6/6/2023	9.23	65.58	51,011

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	39.49

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	
180.0	0.00	0.00	180.0	0.0	0.0	0.00	0.00	0.00	0.00	
723.8	16.31	39.49	716.5	59.3	48.9	3.00	3.00	0.00	39.49	
5,733.1	16.31	39.49	5,524.1	1,145.2	943.7	0.00	0.00	0.00	0.00	
6,820.6	0.00	0.00	6,597.0	1,263.9	1,041.5	1.50	-1.50	0.00	180.00	
9,780.6	0.00	0.00	9,557.0	1,263.9	1,041.5	0.00	0.00	0.00	0.00	TR 31-28-597 BHL

Database:	NN	Local Co-ordinate Reference:	Well TR 31-28-597 - Slot TR 31-28-597
Company:	Terra Energy Partners, LLP	TVD Reference:	RKB @ 30' @ 8513.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	RKB @ 30' @ 8513.0ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 31-28-597	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
180.0	0.00	0.00	180.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 3.00									
200.0	0.60	39.49	200.0	0.1	0.1	0.1	3.00	3.00	0.00
300.0	3.60	39.49	299.9	2.9	2.4	3.8	3.00	3.00	0.00
400.0	6.60	39.49	399.5	9.8	8.0	12.7	3.00	3.00	0.00
500.0	9.60	39.49	498.5	20.6	17.0	26.7	3.00	3.00	0.00
600.0	12.60	39.49	596.6	35.5	29.3	46.0	3.00	3.00	0.00
700.0	15.60	39.49	693.6	54.3	44.7	70.4	3.00	3.00	0.00
723.8	16.31	39.49	716.5	59.3	48.9	76.9	3.00	3.00	0.00
Start 5009.3 hold at 723.8 MD									
800.0	16.31	39.49	789.6	75.9	62.5	98.3	0.00	0.00	0.00
900.0	16.31	39.49	885.6	97.5	80.4	126.4	0.00	0.00	0.00
1,000.0	16.31	39.49	981.6	119.2	98.2	154.5	0.00	0.00	0.00
1,100.0	16.31	39.49	1,077.5	140.9	116.1	182.6	0.00	0.00	0.00
1,200.0	16.31	39.49	1,173.5	162.6	134.0	210.7	0.00	0.00	0.00
1,300.0	16.31	39.49	1,269.5	184.2	151.8	238.7	0.00	0.00	0.00
1,400.0	16.31	39.49	1,365.5	205.9	169.7	266.8	0.00	0.00	0.00
1,500.0	16.31	39.49	1,461.4	227.6	187.6	294.9	0.00	0.00	0.00
1,600.0	16.31	39.49	1,557.4	249.3	205.4	323.0	0.00	0.00	0.00
1,700.0	16.31	39.49	1,653.4	271.0	223.3	351.1	0.00	0.00	0.00
1,800.0	16.31	39.49	1,749.4	292.6	241.1	379.2	0.00	0.00	0.00
1,900.0	16.31	39.49	1,845.3	314.3	259.0	407.3	0.00	0.00	0.00
2,000.0	16.31	39.49	1,941.3	336.0	276.9	435.4	0.00	0.00	0.00
2,100.0	16.31	39.49	2,037.3	357.7	294.7	463.5	0.00	0.00	0.00
2,200.0	16.31	39.49	2,133.3	379.3	312.6	491.5	0.00	0.00	0.00
2,300.0	16.31	39.49	2,229.2	401.0	330.5	519.6	0.00	0.00	0.00
2,400.0	16.31	39.49	2,325.2	422.7	348.3	547.7	0.00	0.00	0.00
2,500.0	16.31	39.49	2,421.2	444.4	366.2	575.8	0.00	0.00	0.00
2,600.0	16.31	39.49	2,517.1	466.0	384.0	603.9	0.00	0.00	0.00
2,700.0	16.31	39.49	2,613.1	487.7	401.9	632.0	0.00	0.00	0.00
2,800.0	16.31	39.49	2,709.1	509.4	419.8	660.1	0.00	0.00	0.00
2,900.0	16.31	39.49	2,805.1	531.1	437.6	688.2	0.00	0.00	0.00
3,000.0	16.31	39.49	2,901.0	552.8	455.5	716.3	0.00	0.00	0.00
3,100.0	16.31	39.49	2,997.0	574.4	473.4	744.3	0.00	0.00	0.00
3,200.0	16.31	39.49	3,093.0	596.1	491.2	772.4	0.00	0.00	0.00
3,300.0	16.31	39.49	3,189.0	617.8	509.1	800.5	0.00	0.00	0.00
3,400.0	16.31	39.49	3,284.9	639.5	526.9	828.6	0.00	0.00	0.00
3,500.0	16.31	39.49	3,380.9	661.1	544.8	856.7	0.00	0.00	0.00
3,600.0	16.31	39.49	3,476.9	682.8	562.7	884.8	0.00	0.00	0.00
3,700.0	16.31	39.49	3,572.9	704.5	580.5	912.9	0.00	0.00	0.00
3,800.0	16.31	39.49	3,668.8	726.2	598.4	941.0	0.00	0.00	0.00
3,900.0	16.31	39.49	3,764.8	747.9	616.3	969.0	0.00	0.00	0.00
4,000.0	16.31	39.49	3,860.8	769.5	634.1	997.1	0.00	0.00	0.00
4,100.0	16.31	39.49	3,956.8	791.2	652.0	1,025.2	0.00	0.00	0.00
4,200.0	16.31	39.49	4,052.7	812.9	669.8	1,053.3	0.00	0.00	0.00
4,300.0	16.31	39.49	4,148.7	834.6	687.7	1,081.4	0.00	0.00	0.00
4,400.0	16.31	39.49	4,244.7	856.2	705.6	1,109.5	0.00	0.00	0.00
4,500.0	16.31	39.49	4,340.7	877.9	723.4	1,137.6	0.00	0.00	0.00
4,600.0	16.31	39.49	4,436.6	899.6	741.3	1,165.7	0.00	0.00	0.00
4,700.0	16.31	39.49	4,532.6	921.3	759.2	1,193.8	0.00	0.00	0.00
4,800.0	16.31	39.49	4,628.6	942.9	777.0	1,221.8	0.00	0.00	0.00
4,900.0	16.31	39.49	4,724.6	964.6	794.9	1,249.9	0.00	0.00	0.00

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Company:	Terra Energy Partners, LLP	TVD Reference:	RKB @ 30' @ 8513.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	RKB @ 30' @ 8513.0ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 31-28-597	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	16.31	39.49	4,820.5	986.3	812.7	1,278.0	0.00	0.00	0.00
5,100.0	16.31	39.49	4,916.5	1,008.0	830.6	1,306.1	0.00	0.00	0.00
5,200.0	16.31	39.49	5,012.5	1,029.7	848.5	1,334.2	0.00	0.00	0.00
5,300.0	16.31	39.49	5,108.4	1,051.3	866.3	1,362.3	0.00	0.00	0.00
5,400.0	16.31	39.49	5,204.4	1,073.0	884.2	1,390.4	0.00	0.00	0.00
5,500.0	16.31	39.49	5,300.4	1,094.7	902.1	1,418.5	0.00	0.00	0.00
5,600.0	16.31	39.49	5,396.4	1,116.4	919.9	1,446.6	0.00	0.00	0.00
5,700.0	16.31	39.49	5,492.3	1,138.0	937.8	1,474.6	0.00	0.00	0.00
5,733.1	16.31	39.49	5,524.1	1,145.2	943.7	1,483.9	0.00	0.00	0.00
Start Drop -1.50									
5,800.0	15.31	39.49	5,588.5	1,159.3	955.3	1,502.2	1.50	-1.50	0.00
5,900.0	13.81	39.49	5,685.3	1,178.7	971.3	1,527.3	1.50	-1.50	0.00
6,000.0	12.31	39.49	5,782.7	1,196.1	985.6	1,549.9	1.50	-1.50	0.00
6,100.0	10.81	39.49	5,880.6	1,211.6	998.4	1,569.9	1.50	-1.50	0.00
6,200.0	9.31	39.49	5,979.1	1,225.1	1,009.5	1,587.4	1.50	-1.50	0.00
6,300.0	7.81	39.49	6,078.0	1,236.5	1,019.0	1,602.3	1.50	-1.50	0.00
6,400.0	6.31	39.49	6,177.2	1,246.0	1,026.8	1,614.6	1.50	-1.50	0.00
6,500.0	4.81	39.49	6,276.8	1,253.5	1,032.9	1,624.3	1.50	-1.50	0.00
6,600.0	3.31	39.49	6,376.5	1,259.0	1,037.4	1,631.3	1.50	-1.50	0.00
6,700.0	1.81	39.49	6,476.4	1,262.4	1,040.3	1,635.8	1.50	-1.50	0.00
6,800.0	0.31	39.49	6,576.4	1,263.8	1,041.5	1,637.7	1.50	-1.50	0.00
6,820.6	0.00	0.00	6,597.0	1,263.9	1,041.5	1,637.7	1.50	-1.50	0.00
Start 2960.0 hold at 6820.6 MD									
6,900.0	0.00	0.00	6,676.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,776.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,100.0	0.00	0.00	6,876.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,200.0	0.00	0.00	6,976.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,076.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,176.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,276.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,376.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,476.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,576.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,676.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,776.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,100.0	0.00	0.00	7,876.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,200.0	0.00	0.00	7,976.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,076.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,176.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,276.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,376.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,476.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,576.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,676.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,776.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
9,100.0	0.00	0.00	8,876.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
9,200.0	0.00	0.00	8,976.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,076.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,176.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,276.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,376.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,476.4	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00
9,780.6	0.00	0.00	9,557.0	1,263.9	1,041.5	1,637.7	0.00	0.00	0.00

Database:	NN	Local Co-ordinate Reference:	Well TR 31-28-597 - Slot TR 31-28-597
Company:	Terra Energy Partners, LLP	TVD Reference:	RKB @ 30' @ 8513.0ft
Project:	Garfield County, CO (Nad 83)	MD Reference:	RKB @ 30' @ 8513.0ft
Site:	TR 31-28-597 Pad	North Reference:	True
Well:	TR 31-28-597	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)
TD at 9780.6									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TR 31-28-597 VP	0.00	0.00	6,597.0	1,263.9	1,041.5	1,651,970.000	2,217,121.000	39.590581	-108.278361
- plan hits target center									
- Point									
TR 31-28-597 BHL	0.00	0.00	9,557.0	1,263.9	1,041.5	1,651,970.000	2,217,121.000	39.590581	-108.278361
- plan hits target center									
- Circle (radius 50.0)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
3,221.9	3,114.0	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		
2,857.2	2,764.0	U WSCH		0.00		
4,559.7	4,398.0	G SAND		0.00		
4,746.3	4,577.0	FRUN		0.00		
5,904.9	5,690.0	OCRK		0.00		
6,503.3	6,280.0	UMVRD		0.00		
6,820.6	6,597.0	TOPGAS		0.00		
8,629.6	8,406.0	CME0		0.00		
8,899.6	8,676.0	RLNS		0.00		
9,086.6	8,863.0	CZZT		0.00		
9,314.6	9,091.0	CRCN		0.00		
9,464.6	9,241.0	SEGO		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
180.0	180.0	0.0	0.0	Start Build 3.00	
723.8	716.5	59.3	48.9	Start 5009.3 hold at 723.8 MD	
5,733.1	5,524.1	1,145.2	943.7	Start Drop -1.50	
6,820.6	6,597.0	1,263.9	1,041.5	Start 2960.0 hold at 6820.6 MD	
9,780.6	9,557.0	1,263.9	1,041.5	TD at 9780.6	