

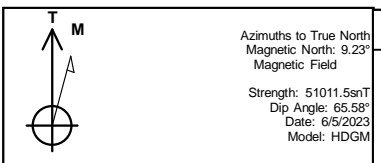


REFERENCE INFORMATION

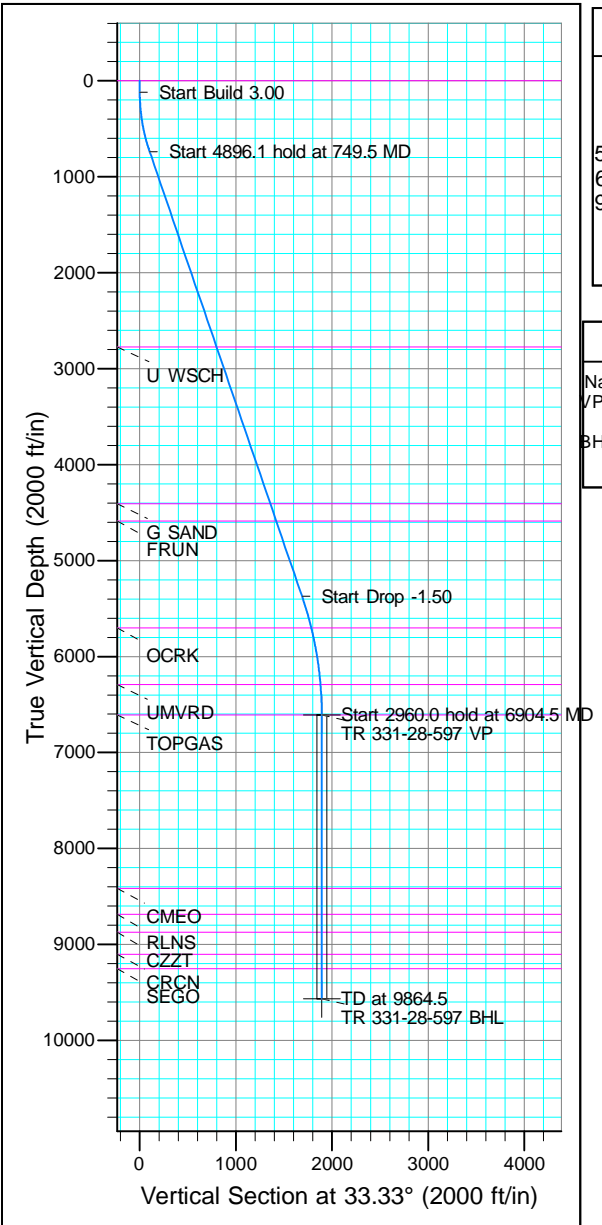
Co-ordinate (N/E) Reference: Well TR 331-28-597 - Slot TR 331-28-597, True North
Vertical (TVD) Reference: RKB @ 30' @ 8513.0ft
Section (VS) Reference: Slot - TR 331-28-597(0.0N, 0.0E)
Measured Depth Reference: RKB @ 30' @ 8513.0ft
Calculation Method: Minimum Curvature



Project: Garfield County, CO (Nad 83)
Site: TR 32-28-597 Pad
Well: TR 331-28-597
Wellbore: OWB
Design: Plan



WELL DETAILS: TR 331-28-597						
+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude
0.0	0.0	1650746.000	8483.0	2216040.800	39.587132	-108.282059
						Slot
						TR 331-28-597

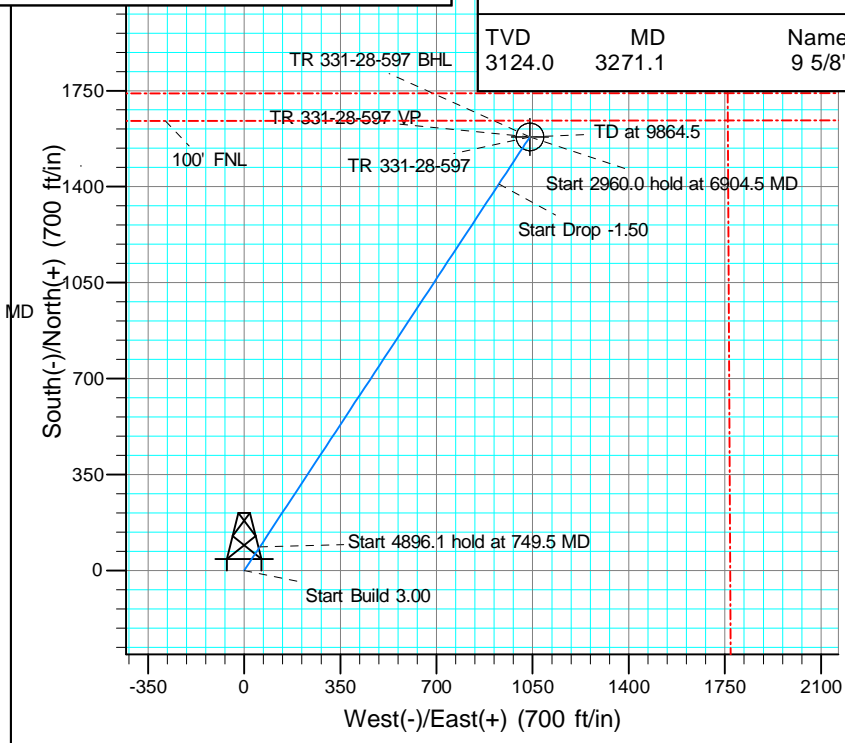
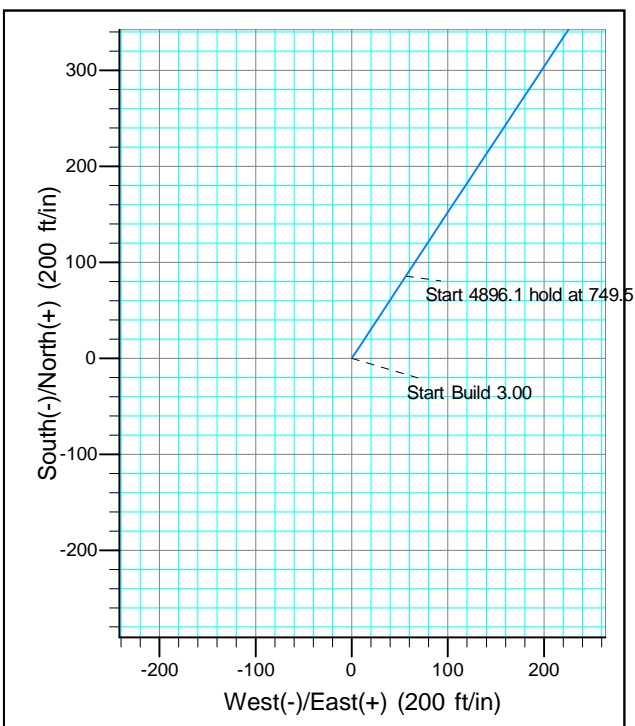


ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.00	
738.1	749.5	18.88	33.33	85.9	56.5	102.8	102.8	Start 4896.1 hold at 749.5 MD	
5370.7	5645.6	18.88	33.33	1409.8	927.3	1687.4	1687.4	Start Drop -1.50	
6607.0	6904.5	0.00	0.00	1581.6	1040.3	1893.0	1893.0	Start 2960.0 hold at 6904.5 MD	
9567.0	9864.5	0.00	0.00	1581.6	1040.3	1893.0	1893.0	TD at 9864.5	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
0.0	0.0	GRRV
2774.0	2901.1	U WSCH
4408.0	4628.1	G SAND
4587.0	4817.3	FRUN
5700.0	5988.8	OCKR
6290.0	6587.2	UMVRD
6607.0	6904.5	TOPGAS
8416.0	8713.5	CMEQ
8686.0	8983.5	RLNS
8873.0	9170.5	CZZT
9101.0	9398.5	CRCN
9251.0	9548.5	SEGO

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
VP	6607.0	1581.6	1040.3	1652295.000	2217129.000	39.591474	-108.278367	Point	
BHL	9567.0	1581.6	1040.3	1652295.000	2217129.000	39.591474	-108.278367	Circle (Radius: 50.0)	
- plan hits target center									

CASING DETAILS		
TVD	MD	Name
3124.0	3271.1	9 5/8"





Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

TR 32-28-597 Pad

TR 331-28-597 - Slot TR 331-28-597

OWB

Plan: Plan

Standard Planning Report

13 June, 2023



Database:	NN	Local Co-ordinate Reference:	Well TR 331-28-597 - Slot TR 331-28-597
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 331-28-597	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 331-28-597 - Slot TR 331-28-597				
Well Position	+N/-S	36.3 ft	Northing:	1,650,746.000 usft	Latitude:	39.587132
	+E/-W	-13.5 ft	Easting:	2,216,040.800 usft	Longitude:	-108.282059
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) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	33.33

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	
120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.00	0.00	0.00	
749.5	18.88	33.33	738.1	85.9	56.5	3.00	3.00	0.00	33.33	
5,645.6	18.88	33.33	5,370.7	1,409.8	927.3	0.00	0.00	0.00	0.00	
6,904.5	0.00	0.00	6,607.0	1,581.6	1,040.3	1.50	-1.50	0.00	180.00	
9,864.5	0.00	0.00	9,567.0	1,581.6	1,040.3	0.00	0.00	0.00	0.00	TR 331-28-597 BHL

Database:	NN	Local Co-ordinate Reference:	Well TR 331-28-597 - Slot TR 331-28-597
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 331-28-597	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
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 3.00									
200.0	2.40	33.33	200.0	1.4	0.9	1.7	3.00	3.00	0.00
300.0	5.40	33.33	299.7	7.1	4.7	8.5	3.00	3.00	0.00
400.0	8.40	33.33	399.0	17.1	11.3	20.5	3.00	3.00	0.00
500.0	11.40	33.33	497.5	31.5	20.7	37.7	3.00	3.00	0.00
600.0	14.40	33.33	595.0	50.1	33.0	60.0	3.00	3.00	0.00
700.0	17.40	33.33	691.1	73.0	48.0	87.4	3.00	3.00	0.00
749.5	18.88	33.33	738.1	85.9	56.5	102.8	3.00	3.00	0.00
Start 4896.1 hold at 749.5 MD									
800.0	18.88	33.33	785.9	99.5	65.5	119.2	0.00	0.00	0.00
900.0	18.88	33.33	880.6	126.6	83.3	151.5	0.00	0.00	0.00
1,000.0	18.88	33.33	975.2	153.6	101.0	183.9	0.00	0.00	0.00
1,100.0	18.88	33.33	1,069.8	180.7	118.8	216.2	0.00	0.00	0.00
1,200.0	18.88	33.33	1,164.4	207.7	136.6	248.6	0.00	0.00	0.00
1,300.0	18.88	33.33	1,259.0	234.8	154.4	281.0	0.00	0.00	0.00
1,400.0	18.88	33.33	1,353.7	261.8	172.2	313.3	0.00	0.00	0.00
1,500.0	18.88	33.33	1,448.3	288.8	190.0	345.7	0.00	0.00	0.00
1,600.0	18.88	33.33	1,542.9	315.9	207.8	378.1	0.00	0.00	0.00
1,700.0	18.88	33.33	1,637.5	342.9	225.5	410.4	0.00	0.00	0.00
1,800.0	18.88	33.33	1,732.1	370.0	243.3	442.8	0.00	0.00	0.00
1,900.0	18.88	33.33	1,826.7	397.0	261.1	475.2	0.00	0.00	0.00
2,000.0	18.88	33.33	1,921.4	424.0	278.9	507.5	0.00	0.00	0.00
2,100.0	18.88	33.33	2,016.0	451.1	296.7	539.9	0.00	0.00	0.00
2,200.0	18.88	33.33	2,110.6	478.1	314.5	572.3	0.00	0.00	0.00
2,300.0	18.88	33.33	2,205.2	505.2	332.3	604.6	0.00	0.00	0.00
2,400.0	18.88	33.33	2,299.8	532.2	350.0	637.0	0.00	0.00	0.00
2,500.0	18.88	33.33	2,394.4	559.2	367.8	669.4	0.00	0.00	0.00
2,600.0	18.88	33.33	2,489.1	586.3	385.6	701.7	0.00	0.00	0.00
2,700.0	18.88	33.33	2,583.7	613.3	403.4	734.1	0.00	0.00	0.00
2,800.0	18.88	33.33	2,678.3	640.4	421.2	766.5	0.00	0.00	0.00
2,900.0	18.88	33.33	2,772.9	667.4	439.0	798.8	0.00	0.00	0.00
3,000.0	18.88	33.33	2,867.5	694.4	456.8	831.2	0.00	0.00	0.00
3,100.0	18.88	33.33	2,962.1	721.5	474.5	863.6	0.00	0.00	0.00
3,200.0	18.88	33.33	3,056.8	748.5	492.3	895.9	0.00	0.00	0.00
3,300.0	18.88	33.33	3,151.4	775.6	510.1	928.3	0.00	0.00	0.00
3,400.0	18.88	33.33	3,246.0	802.6	527.9	960.6	0.00	0.00	0.00
3,500.0	18.88	33.33	3,340.6	829.6	545.7	993.0	0.00	0.00	0.00
3,600.0	18.88	33.33	3,435.2	856.7	563.5	1,025.4	0.00	0.00	0.00
3,700.0	18.88	33.33	3,529.9	883.7	581.3	1,057.7	0.00	0.00	0.00
3,800.0	18.88	33.33	3,624.5	910.8	599.0	1,090.1	0.00	0.00	0.00
3,900.0	18.88	33.33	3,719.1	937.8	616.8	1,122.5	0.00	0.00	0.00
4,000.0	18.88	33.33	3,813.7	964.8	634.6	1,154.8	0.00	0.00	0.00
4,100.0	18.88	33.33	3,908.3	991.9	652.4	1,187.2	0.00	0.00	0.00
4,200.0	18.88	33.33	4,002.9	1,018.9	670.2	1,219.6	0.00	0.00	0.00
4,300.0	18.88	33.33	4,097.6	1,046.0	688.0	1,251.9	0.00	0.00	0.00
4,400.0	18.88	33.33	4,192.2	1,073.0	705.8	1,284.3	0.00	0.00	0.00
4,500.0	18.88	33.33	4,286.8	1,100.1	723.5	1,316.7	0.00	0.00	0.00
4,600.0	18.88	33.33	4,381.4	1,127.1	741.3	1,349.0	0.00	0.00	0.00
4,700.0	18.88	33.33	4,476.0	1,154.1	759.1	1,381.4	0.00	0.00	0.00
4,800.0	18.88	33.33	4,570.6	1,181.2	776.9	1,413.8	0.00	0.00	0.00
4,900.0	18.88	33.33	4,665.3	1,208.2	794.7	1,446.1	0.00	0.00	0.00

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Project:	Garfield County, CO (Nad 83)	MD Reference:	RKB @ 30' @ 8513.0ft
Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 331-28-597	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	18.88	33.33	4,759.9	1,235.3	812.5	1,478.5	0.00	0.00	0.00	
5,100.0	18.88	33.33	4,854.5	1,262.3	830.2	1,510.9	0.00	0.00	0.00	
5,200.0	18.88	33.33	4,949.1	1,289.3	848.0	1,543.2	0.00	0.00	0.00	
5,300.0	18.88	33.33	5,043.7	1,316.4	865.8	1,575.6	0.00	0.00	0.00	
5,400.0	18.88	33.33	5,138.4	1,343.4	883.6	1,608.0	0.00	0.00	0.00	
5,500.0	18.88	33.33	5,233.0	1,370.5	901.4	1,640.3	0.00	0.00	0.00	
5,600.0	18.88	33.33	5,327.6	1,397.5	919.2	1,672.7	0.00	0.00	0.00	
5,645.6	18.88	33.33	5,370.7	1,409.8	927.3	1,687.4	0.00	0.00	0.00	
Start Drop -1.50										
5,700.0	18.07	33.33	5,422.3	1,424.2	936.8	1,704.7	1.50	-1.50	0.00	
5,800.0	16.57	33.33	5,517.8	1,449.1	953.1	1,734.5	1.50	-1.50	0.00	
5,900.0	15.07	33.33	5,614.0	1,471.9	968.1	1,761.7	1.50	-1.50	0.00	
6,000.0	13.57	33.33	5,710.9	1,492.5	981.7	1,786.4	1.50	-1.50	0.00	
6,100.0	12.07	33.33	5,808.4	1,511.1	993.9	1,808.6	1.50	-1.50	0.00	
6,200.0	10.57	33.33	5,906.5	1,527.5	1,004.7	1,828.2	1.50	-1.50	0.00	
6,300.0	9.07	33.33	6,005.0	1,541.7	1,014.0	1,845.3	1.50	-1.50	0.00	
6,400.0	7.57	33.33	6,103.9	1,553.8	1,022.0	1,859.8	1.50	-1.50	0.00	
6,500.0	6.07	33.33	6,203.2	1,563.7	1,028.5	1,871.6	1.50	-1.50	0.00	
6,600.0	4.57	33.33	6,302.8	1,571.5	1,033.6	1,880.9	1.50	-1.50	0.00	
6,700.0	3.07	33.33	6,402.6	1,577.0	1,037.3	1,887.6	1.50	-1.50	0.00	
6,800.0	1.57	33.33	6,502.5	1,580.4	1,039.5	1,891.6	1.50	-1.50	0.00	
6,900.0	0.07	33.33	6,602.5	1,581.6	1,040.3	1,893.0	1.50	-1.50	0.00	
6,904.5	0.00	0.00	6,607.0	1,581.6	1,040.3	1,893.0	1.50	-1.50	0.00	
Start 2960.0 hold at 6904.5 MD										
7,000.0	0.00	0.00	6,702.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,802.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	6,902.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,002.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,102.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,202.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,302.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,402.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,502.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,602.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,702.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,802.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	7,902.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,002.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,102.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,202.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,302.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,402.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,502.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,602.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,702.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,802.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	8,902.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,002.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,102.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,202.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,302.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,402.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,502.5	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	
9,864.5	0.00	0.00	9,567.0	1,581.6	1,040.3	1,893.0	0.00	0.00	0.00	

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Site:	TR 32-28-597 Pad	North Reference:	True
Well:	TR 331-28-597	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 9864.5									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
TR 331-28-597 VP	0.00	0.00	6,607.0	1,581.6	1,040.3	1,652,295.000	2,217,129.000	39.591474	-108.278368
- plan hits target center									
- Point									
TR 331-28-597 BHL	0.00	0.00	9,567.0	1,581.6	1,040.3	1,652,295.000	2,217,129.000	39.591474	-108.278368
- plan hits target center									
- Circle (radius 50.0)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
3,271.1	3,124.0	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	
2,901.1	2,774.0	U WSCH		0.00	
4,628.1	4,408.0	G SAND		0.00	
4,817.3	4,587.0	FRUN		0.00	
5,988.8	5,700.0	OCRK		0.00	
6,587.2	6,290.0	UMVRD		0.00	
6,904.5	6,607.0	TOPGAS		0.00	
8,713.5	8,416.0	CME0		0.00	
8,983.5	8,686.0	RLNS		0.00	
9,170.5	8,873.0	CZZT		0.00	
9,398.5	9,101.0	CRCN		0.00	
9,548.5	9,251.0	SEGO		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
120.0	120.0	0.0	0.0	Start Build 3.00
749.5	738.1	85.9	56.5	Start 4896.1 hold at 749.5 MD
5,645.6	5,370.7	1,409.8	927.3	Start Drop -1.50
6,904.5	6,607.0	1,581.6	1,040.3	Start 2960.0 hold at 6904.5 MD
9,864.5	9,567.0	1,581.6	1,040.3	TD at 9864.5