

## PROJECT DETAILS: Rio Blanco County, CO

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Central Zone  
 System Datum: Mean Sea Level

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well RG 21-13-298 - Slot RG 21-13-298, True North  
 Vertical (TVD) Reference: KB=30' @ 6648.00usft (H&P #329)  
 Section (VS) Reference: Slot - RG 21-13-298(0.00N, 0.00E)  
 Measured Depth Reference: KB=30' @ 6648.00usft (H&P #329)  
 Calculation Method: Minimum Curvature

## WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RG 21-13-298 - VP	8078.00	931.33	851.36	1759661.49	2202134.39	39.884804	-108.343471	Circle (Radius: 100.00)
RG 21-13-298 - PBHL	11858.00	931.33	851.36	1759661.49	2202134.39	39.884804	-108.343471	Point

## ANNOTATIONS

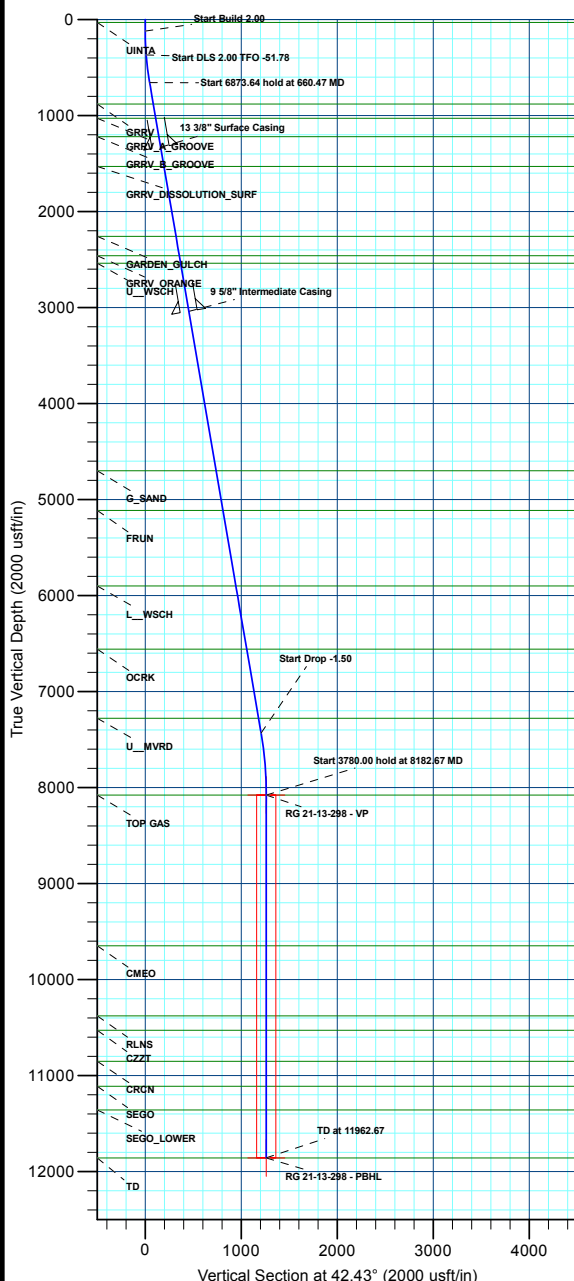
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSecDeparture	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	Start Build 2.00
370.00	5.00	70.00	369.68	3.73	10.24	9.66	Start DLS 2.00 TFO -51.78
660.47	9.73	41.93	657.76	26.34	38.56	47.52	Start 6873.64 hold at 660.47 MD
7534.11	9.73	41.93	7432.56	890.46	814.66	1206.89	Start Drop -1.50
8182.67	0.00	0.00	8078.00	931.33	851.36	1261.82	Start 3780.00 hold at 8182.67 MD
11962.67	0.00	0.00	11858.00	931.33	851.36	1263.93	TD at 11962.67

## WELL DETAILS: RG 21-13-298

+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1758757.29	6618.00	39.882248	-108.346504	RG 21-13-298

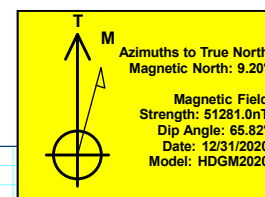
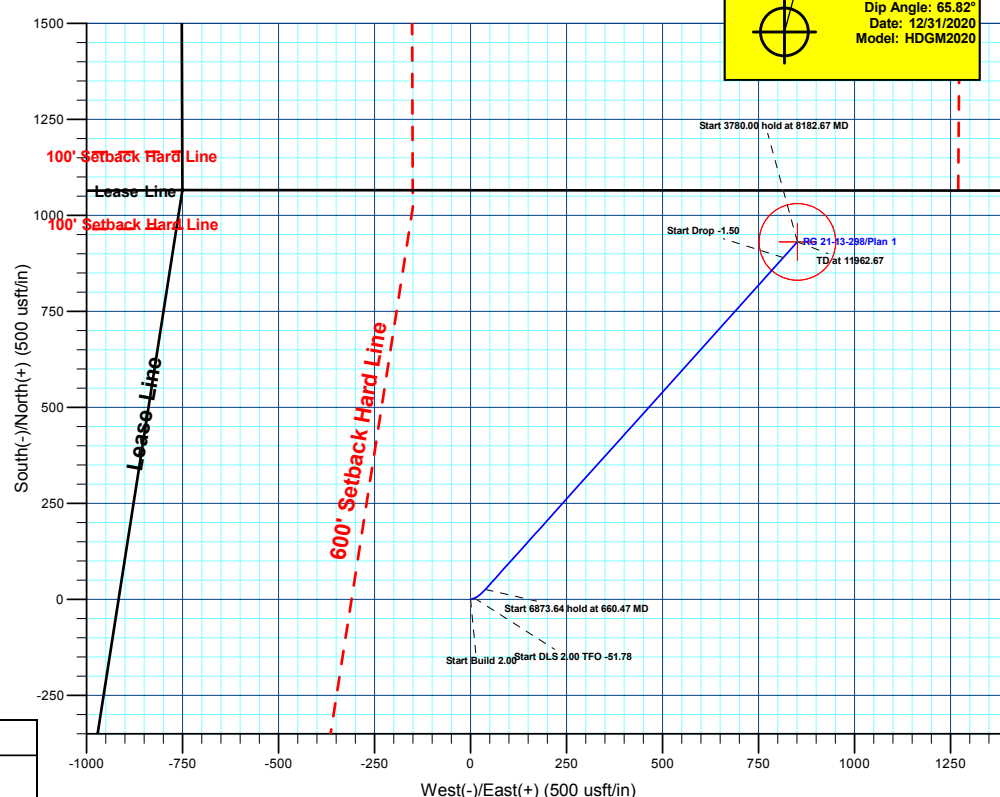
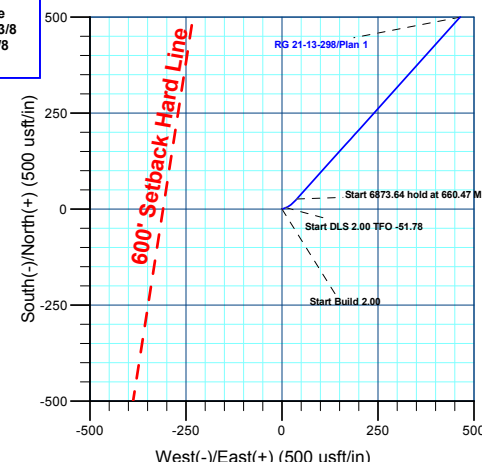
## CASING DETAILS

TVD	MD	Name	Size
1330.00	1342.52	13 3/8" Surface Casing	13-3/8
3040.00	3077.47	9 5/8" Intermediate Casing	9-5/8



## FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
30.00	30.00	UINTA
880.00	885.95	GRRV
1030.00	1038.14	GRRV_A_GROOVE
1220.00	1230.91	GRRV_B_GROOVE
1530.00	1545.44	GRRV DISSOLUTION_SURF
2260.00	2286.09	GARDEN_GULCH
2460.00	2469.01	GRRV_ORANGE
2540.00	2570.17	U_WSCH
4700.00	4761.69	G_SAND
5115.00	5182.74	FRUN
5900.00	5979.19	L_WSCH
6558.00	6646.79	OCRK
7278.00	7377.30	U_MVRD
8078.00	8182.67	TOP GAS
9648.00	9752.67	CMEO
10378.00	10482.67	RLNS
10528.00	10632.67	CZZT
10853.00	10957.67	CRCN
11113.00	11217.67	SEGO
11358.00	11462.67	SEGO_LOWER



## Plan: Plan 1 (RG 21-13-298/Wellbore #1)

Created By: Chase Chambers Date: 19:44, May 03 2022



# **Terra Energy Partners, LLP**

**Rio Blanco County, CO**

**RG 11-13-298**

**RG 21-13-298 - Slot RG 21-13-298**

**Wellbore #1**

**Plan: Plan 1**

## **KLX Well Planning Report**

**03 May, 2022**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 21-13-298 - Slot RG 21-13-298
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6648.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6648.00usft (H&P #329)
<b>Site:</b>	RG 11-13-298	<b>North Reference:</b>	True
<b>Well:</b>	RG 21-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

<b>Project</b>	Rio Blanco County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site		RG 11-13-298			
Site Position:		Northing:	1,758,713.60 usft	Latitude:	39.882127
From:	Map	Easting:	2,201,243.58 usft	Longitude:	-108.346538
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.80

Well	RG 21-13-298 - Slot RG 21-13-298					
Well Position	+N/-S	44.00 usft	Northing:	1,758,757.29 usft	Latitude:	39.882248
	+E/-W	9.32 usft	Easting:	2,201,254.27 usft	Longitude:	-108.346505
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,618.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2020	12/31/2020	9.20	65.82	51,281.00000000

<b>Design</b>	Plan 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	42.43

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	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	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
370.00	5.00	70.00	369.68	3.73	10.24	2.00	2.00	0.00	70.00	
660.47	9.73	41.93	657.76	26.34	38.56	2.00	1.63	-9.66	-51.78	
7,534.11	9.73	41.93	7,432.56	890.46	814.66	0.00	0.00	0.00	0.00	
8,182.67	0.00	0.00	8,078.00	931.33	851.36	1.50	-1.50	0.00	180.00	RG 21-13-298 - VP
11,962.67	0.00	0.00	11,858.00	931.33	851.36	0.00	0.00	0.00	0.00	RG 21-13-298 - PBHL

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<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6648.00usft (H&P #329)
<b>Site:</b>	RG 11-13-298	<b>North Reference:</b>	True
<b>Well:</b>	RG 21-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	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
<b>UINTA</b>									
30.00	0.00	0.00	30.00	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
<b>Start Build 2.00</b>									
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.60	70.00	199.99	0.38	1.05	0.99	2.00	2.00	0.00
300.00	3.60	70.00	299.88	1.93	5.31	5.01	2.00	2.00	0.00
<b>Start DLS 2.00 TFO -51.78</b>									
370.00	5.00	70.00	369.68	3.73	10.24	9.66	2.00	2.00	0.00
400.00	5.39	64.98	399.56	4.77	12.75	12.12	2.00	1.31	-16.74
500.00	6.92	52.79	498.98	10.40	21.80	22.39	2.00	1.52	-12.19
600.00	8.64	45.19	598.06	19.33	31.93	35.81	2.00	1.72	-7.59
<b>Start 6873.64 hold at 660.47 MD</b>									
660.47	9.73	41.93	657.76	26.34	38.56	45.46	2.00	1.81	-5.40
700.00	9.73	41.93	696.72	31.31	43.02	52.13	0.00	0.00	0.00
800.00	9.73	41.93	795.28	43.88	54.32	69.03	0.00	0.00	0.00
<b>GRRV</b>									
885.95	9.73	41.93	880.00	54.68	64.02	83.56	0.00	0.00	0.00
900.00	9.73	41.93	893.84	56.45	65.61	85.93	0.00	0.00	0.00
1,000.00	9.73	41.93	992.41	69.02	76.90	102.83	0.00	0.00	0.00
<b>GRRV_A_GROOVE</b>									
1,038.14	9.73	41.93	1,030.00	73.82	81.20	109.27	0.00	0.00	0.00
1,100.00	9.73	41.93	1,090.97	81.59	88.19	119.72	0.00	0.00	0.00
1,200.00	9.73	41.93	1,189.53	94.16	99.48	136.62	0.00	0.00	0.00
<b>GRRV_B_GROOVE</b>									
1,230.91	9.73	41.93	1,220.00	98.05	102.97	141.84	0.00	0.00	0.00
1,300.00	9.73	41.93	1,288.09	106.73	110.77	153.52	0.00	0.00	0.00
<b>13 3/8" Surface Casing</b>									
1,342.52	9.73	41.93	1,330.00	112.08	115.57	160.70	0.00	0.00	0.00
1,400.00	9.73	41.93	1,386.65	119.31	122.06	170.41	0.00	0.00	0.00
1,500.00	9.73	41.93	1,485.22	131.88	133.35	187.31	0.00	0.00	0.00
<b>GRRV DISSOLUTION SURF</b>									
1,545.44	9.73	41.93	1,530.00	137.59	138.48	194.99	0.00	0.00	0.00
1,600.00	9.73	41.93	1,583.78	144.45	144.64	204.21	0.00	0.00	0.00
1,700.00	9.73	41.93	1,682.34	157.02	155.93	221.10	0.00	0.00	0.00
1,800.00	9.73	41.93	1,780.90	169.59	167.22	238.00	0.00	0.00	0.00
1,900.00	9.73	41.93	1,879.46	182.16	178.52	254.90	0.00	0.00	0.00
2,000.00	9.73	41.93	1,978.03	194.74	189.81	271.80	0.00	0.00	0.00
2,100.00	9.73	41.93	2,076.59	207.31	201.10	288.69	0.00	0.00	0.00
2,200.00	9.73	41.93	2,175.15	219.88	212.39	305.59	0.00	0.00	0.00
<b>GARDEN_GULCH</b>									
2,286.09	9.73	41.93	2,260.00	230.70	222.11	320.14	0.00	0.00	0.00
2,300.00	9.73	41.93	2,273.71	232.45	223.68	322.49	0.00	0.00	0.00
2,400.00	9.73	41.93	2,372.27	245.02	234.97	339.38	0.00	0.00	0.00
<b>GRRV_ORANGE</b>									
2,489.01	9.73	41.93	2,460.00	256.21	245.02	354.42	0.00	0.00	0.00
2,500.00	9.73	41.93	2,470.84	257.59	246.26	356.28	0.00	0.00	0.00
<b>U_WSCH</b>									
2,570.17	9.73	41.93	2,540.00	266.42	254.18	368.14	0.00	0.00	0.00
2,600.00	9.73	41.93	2,569.40	270.17	257.55	373.18	0.00	0.00	0.00
2,700.00	9.73	41.93	2,667.96	282.74	268.84	390.07	0.00	0.00	0.00

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<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6648.00usft (H&P #329)
<b>Site:</b>	RG 11-13-298	<b>North Reference:</b>	True
<b>Well:</b>	RG 21-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,800.00	9.73	41.93	2,766.52	295.31	280.13	406.97	0.00	0.00	0.00
2,900.00	9.73	41.93	2,865.08	307.88	291.42	423.87	0.00	0.00	0.00
3,000.00	9.73	41.93	2,963.65	320.45	302.72	440.77	0.00	0.00	0.00
<b>9 5/8" Intermediate Casing</b>									
3,077.47	9.73	41.93	3,040.00	330.19	311.46	453.86	0.00	0.00	0.00
3,100.00	9.73	41.93	3,062.21	333.02	314.01	457.66	0.00	0.00	0.00
3,200.00	9.73	41.93	3,160.77	345.60	325.30	474.56	0.00	0.00	0.00
3,300.00	9.73	41.93	3,259.33	358.17	336.59	491.46	0.00	0.00	0.00
3,400.00	9.73	41.93	3,357.89	370.74	347.88	508.35	0.00	0.00	0.00
3,500.00	9.73	41.93	3,456.46	383.31	359.17	525.25	0.00	0.00	0.00
3,600.00	9.73	41.93	3,555.02	395.88	370.46	542.15	0.00	0.00	0.00
3,700.00	9.73	41.93	3,653.58	408.45	381.75	559.04	0.00	0.00	0.00
3,800.00	9.73	41.93	3,752.14	421.03	393.04	575.94	0.00	0.00	0.00
3,900.00	9.73	41.93	3,850.70	433.60	404.33	592.84	0.00	0.00	0.00
4,000.00	9.73	41.93	3,949.27	446.17	415.63	609.74	0.00	0.00	0.00
4,100.00	9.73	41.93	4,047.83	458.74	426.92	626.63	0.00	0.00	0.00
4,200.00	9.73	41.93	4,146.39	471.31	438.21	643.53	0.00	0.00	0.00
4,300.00	9.73	41.93	4,244.95	483.88	449.50	660.43	0.00	0.00	0.00
4,400.00	9.73	41.93	4,343.51	496.46	460.79	677.32	0.00	0.00	0.00
4,500.00	9.73	41.93	4,442.08	509.03	472.08	694.22	0.00	0.00	0.00
4,600.00	9.73	41.93	4,540.64	521.60	483.37	711.12	0.00	0.00	0.00
4,700.00	9.73	41.93	4,639.20	534.17	494.66	728.01	0.00	0.00	0.00
<b>G_SAND</b>									
4,761.69	9.73	41.93	4,700.00	541.92	501.63	738.44	0.00	0.00	0.00
4,800.00	9.73	41.93	4,737.76	546.74	505.95	744.91	0.00	0.00	0.00
4,900.00	9.73	41.93	4,836.32	559.31	517.24	761.81	0.00	0.00	0.00
5,000.00	9.73	41.93	4,934.89	571.88	528.53	778.71	0.00	0.00	0.00
5,100.00	9.73	41.93	5,033.45	584.46	539.83	795.60	0.00	0.00	0.00
<b>FRUN</b>									
5,182.74	9.73	41.93	5,115.00	594.86	549.17	809.58	0.00	0.00	0.00
5,200.00	9.73	41.93	5,132.01	597.03	551.12	812.50	0.00	0.00	0.00
5,300.00	9.73	41.93	5,230.57	609.60	562.41	829.40	0.00	0.00	0.00
5,400.00	9.73	41.93	5,329.13	622.17	573.70	846.29	0.00	0.00	0.00
5,500.00	9.73	41.93	5,427.70	634.74	584.99	863.19	0.00	0.00	0.00
5,600.00	9.73	41.93	5,526.26	647.31	596.28	880.09	0.00	0.00	0.00
5,700.00	9.73	41.93	5,624.82	659.89	607.57	896.98	0.00	0.00	0.00
5,800.00	9.73	41.93	5,723.38	672.46	618.86	913.88	0.00	0.00	0.00
5,900.00	9.73	41.93	5,821.94	685.03	630.15	930.78	0.00	0.00	0.00
<b>L_WSCH</b>									
5,979.19	9.73	41.93	5,900.00	694.99	639.09	944.16	0.00	0.00	0.00
6,000.00	9.73	41.93	5,920.51	697.60	641.44	947.68	0.00	0.00	0.00
6,100.00	9.73	41.93	6,019.07	710.17	652.73	964.57	0.00	0.00	0.00
6,200.00	9.73	41.93	6,117.63	722.74	664.03	981.47	0.00	0.00	0.00
6,300.00	9.73	41.93	6,216.19	735.32	675.32	998.37	0.00	0.00	0.00
6,400.00	9.73	41.93	6,314.75	747.89	686.61	1,015.26	0.00	0.00	0.00
6,500.00	9.73	41.93	6,413.32	760.46	697.90	1,032.16	0.00	0.00	0.00
6,600.00	9.73	41.93	6,511.88	773.03	709.19	1,049.06	0.00	0.00	0.00
<b>OCRK</b>									
6,646.79	9.73	41.93	6,558.00	778.91	714.47	1,056.96	0.00	0.00	0.00
6,700.00	9.73	41.93	6,610.44	785.60	720.48	1,065.95	0.00	0.00	0.00
6,800.00	9.73	41.93	6,709.00	798.17	731.77	1,082.85	0.00	0.00	0.00
6,900.00	9.73	41.93	6,807.56	810.75	743.06	1,099.75	0.00	0.00	0.00
7,000.00	9.73	41.93	6,906.13	823.32	754.35	1,116.65	0.00	0.00	0.00
7,100.00	9.73	41.93	7,004.69	835.89	765.64	1,133.54	0.00	0.00	0.00

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<b>Design:</b>	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,200.00	9.73	41.93	7,103.25	848.46	776.93	1,150.44	0.00	0.00	0.00
7,300.00	9.73	41.93	7,201.81	861.03	788.23	1,167.34	0.00	0.00	0.00
<b>U_MVRD</b>									
7,377.30	9.73	41.93	7,278.00	870.75	796.95	1,180.40	0.00	0.00	0.00
7,400.00	9.73	41.93	7,300.37	873.60	799.52	1,184.23	0.00	0.00	0.00
7,500.00	9.73	41.93	7,398.94	886.18	810.81	1,201.13	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
7,534.11	9.73	41.93	7,432.56	890.46	814.66	1,206.89	0.00	0.00	0.00
7,600.00	8.74	41.93	7,497.59	898.33	821.72	1,217.47	1.50	-1.50	0.00
7,700.00	7.24	41.93	7,596.62	908.67	831.01	1,231.37	1.50	-1.50	0.00
7,800.00	5.74	41.93	7,695.97	917.08	838.56	1,242.67	1.50	-1.50	0.00
7,900.00	4.24	41.93	7,795.59	923.55	844.38	1,251.37	1.50	-1.50	0.00
8,000.00	2.74	41.93	7,895.40	928.08	848.44	1,257.45	1.50	-1.50	0.00
8,100.00	1.24	41.93	7,995.34	930.66	850.76	1,260.93	1.50	-1.50	0.00
<b>Start 3780.00 hold at 8182.67 MD - TOP GAS</b>									
8,182.67	0.00	0.00	8,078.00	931.33	851.36	1,261.82	1.50	-1.50	0.00
8,200.00	0.00	0.00	8,095.33	931.33	851.36	1,261.82	0.00	0.00	0.00
8,300.00	0.00	0.00	8,195.33	931.33	851.36	1,261.82	0.00	0.00	0.00
8,400.00	0.00	0.00	8,295.33	931.33	851.36	1,261.82	0.00	0.00	0.00
8,500.00	0.00	0.00	8,395.33	931.33	851.36	1,261.82	0.00	0.00	0.00
8,600.00	0.00	0.00	8,495.33	931.33	851.36	1,261.82	0.00	0.00	0.00
8,700.00	0.00	0.00	8,595.33	931.33	851.36	1,261.82	0.00	0.00	0.00
8,800.00	0.00	0.00	8,695.33	931.33	851.36	1,261.82	0.00	0.00	0.00
8,900.00	0.00	0.00	8,795.33	931.33	851.36	1,261.82	0.00	0.00	0.00
9,000.00	0.00	0.00	8,895.33	931.33	851.36	1,261.82	0.00	0.00	0.00
9,100.00	0.00	0.00	8,995.33	931.33	851.36	1,261.82	0.00	0.00	0.00
9,200.00	0.00	0.00	9,095.33	931.33	851.36	1,261.82	0.00	0.00	0.00
9,300.00	0.00	0.00	9,195.33	931.33	851.36	1,261.82	0.00	0.00	0.00
9,400.00	0.00	0.00	9,295.33	931.33	851.36	1,261.82	0.00	0.00	0.00
9,500.00	0.00	0.00	9,395.33	931.33	851.36	1,261.82	0.00	0.00	0.00
9,600.00	0.00	0.00	9,495.33	931.33	851.36	1,261.82	0.00	0.00	0.00
9,700.00	0.00	0.00	9,595.33	931.33	851.36	1,261.82	0.00	0.00	0.00
<b>CMEO</b>									
9,752.67	0.00	0.00	9,648.00	931.33	851.36	1,261.82	0.00	0.00	0.00
9,800.00	0.00	0.00	9,695.33	931.33	851.36	1,261.82	0.00	0.00	0.00
9,900.00	0.00	0.00	9,795.33	931.33	851.36	1,261.82	0.00	0.00	0.00
10,000.00	0.00	0.00	9,895.33	931.33	851.36	1,261.82	0.00	0.00	0.00
10,100.00	0.00	0.00	9,995.33	931.33	851.36	1,261.82	0.00	0.00	0.00
10,200.00	0.00	0.00	10,095.33	931.33	851.36	1,261.82	0.00	0.00	0.00
10,300.00	0.00	0.00	10,195.33	931.33	851.36	1,261.82	0.00	0.00	0.00
10,400.00	0.00	0.00	10,295.33	931.33	851.36	1,261.82	0.00	0.00	0.00
<b>RLNS</b>									
10,482.67	0.00	0.00	10,378.00	931.33	851.36	1,261.82	0.00	0.00	0.00
10,500.00	0.00	0.00	10,395.33	931.33	851.36	1,261.82	0.00	0.00	0.00
10,600.00	0.00	0.00	10,495.33	931.33	851.36	1,261.82	0.00	0.00	0.00
<b>CZZT</b>									
10,632.67	0.00	0.00	10,528.00	931.33	851.36	1,261.82	0.00	0.00	0.00
10,700.00	0.00	0.00	10,595.33	931.33	851.36	1,261.82	0.00	0.00	0.00
10,800.00	0.00	0.00	10,695.33	931.33	851.36	1,261.82	0.00	0.00	0.00
10,900.00	0.00	0.00	10,795.33	931.33	851.36	1,261.82	0.00	0.00	0.00
<b>CRCN</b>									
10,957.67	0.00	0.00	10,853.00	931.33	851.36	1,261.82	0.00	0.00	0.00
11,000.00	0.00	0.00	10,895.33	931.33	851.36	1,261.82	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 21-13-298 - Slot RG 21-13-298
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6648.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6648.00usft (H&P #329)
<b>Site:</b>	RG 11-13-298	<b>North Reference:</b>	True
<b>Well:</b>	RG 21-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,100.00	0.00	0.00	10,995.33	931.33	851.36	1,261.82	0.00	0.00	0.00
11,200.00	0.00	0.00	11,095.33	931.33	851.36	1,261.82	0.00	0.00	0.00
<b>SEGO</b>									
11,217.67	0.00	0.00	11,113.00	931.33	851.36	1,261.82	0.00	0.00	0.00
11,300.00	0.00	0.00	11,195.33	931.33	851.36	1,261.82	0.00	0.00	0.00
11,400.00	0.00	0.00	11,295.33	931.33	851.36	1,261.82	0.00	0.00	0.00
<b>SEGO_LOWER</b>									
11,462.67	0.00	0.00	11,358.00	931.33	851.36	1,261.82	0.00	0.00	0.00
11,500.00	0.00	0.00	11,395.33	931.33	851.36	1,261.82	0.00	0.00	0.00
11,600.00	0.00	0.00	11,495.33	931.33	851.36	1,261.82	0.00	0.00	0.00
11,700.00	0.00	0.00	11,595.33	931.33	851.36	1,261.82	0.00	0.00	0.00
11,800.00	0.00	0.00	11,695.33	931.33	851.36	1,261.82	0.00	0.00	0.00
11,900.00	0.00	0.00	11,795.33	931.33	851.36	1,261.82	0.00	0.00	0.00
<b>TD at 11962.67</b>									
11,962.67	0.00	0.00	11,858.00	931.33	851.36	1,261.82	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RG 21-13-298 - VP	0.00	0.00	8,078.00	931.33	851.36	1,759,661.49	2,202,134.39	39.884804	-108.343471
- plan hits target center									
- Circle (radius 100.00)									
RG 21-13-298 - PBHL	0.00	0.00	11,858.00	931.33	851.36	1,759,661.49	2,202,134.39	39.884804	-108.343471
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,342.52	1,330.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,077.47	3,040.00	9 5/8" Intermediate Casing	9-5/8	12-1/4	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 21-13-298 - Slot RG 21-13-298
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6648.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6648.00usft (H&P #329)
<b>Site:</b>	RG 11-13-298	<b>North Reference:</b>	True
<b>Well:</b>	RG 21-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	UINTA				
885.95	880.00	GRRV				
1,038.14	1,030.00	GRRV_A_GROOVE				
1,230.91	1,220.00	GRRV_B_GROOVE				
1,545.44	1,530.00	GRRV_DISSOLUTION_SURF				
2,286.09	2,260.00	GARDEN_GULCH				
2,489.01	2,460.00	GRRV_ORANGE				
2,570.17	2,540.00	U__WSCH				
4,761.69	4,700.00	G_SAND				
5,182.74	5,115.00	FRUN				
5,979.19	5,900.00	L__WSCH				
6,646.79	6,558.00	OCRK				
7,377.30	7,278.00	U__MVRD				
8,182.67	8,078.00	TOP GAS				
9,752.67	9,648.00	CME0				
10,482.67	10,378.00	RLNS				
10,632.67	10,528.00	CZZT				
10,957.67	10,853.00	CRCN				
11,217.67	11,113.00	SEGO				
11,462.67	11,358.00	SEGO_LOWER				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.00	0.00	Start Build 2.00	
370.00	369.68	3.73	10.24	Start DLS 2.00 TFO -51.78	
660.47	657.76	26.34	38.56	Start 6873.64 hold at 660.47 MD	
7,534.11	7,432.56	890.46	814.66	Start Drop -1.50	
8,182.67	8,078.00	931.33	851.36	Start 3780.00 hold at 8182.67 MD	
11,962.67	11,858.00	931.33	851.36	TD at 11962.67	