

## 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 23-13-298 - Slot RG 23-13-298, True North  
 Vertical (TVD) Reference: KB=30' @ 6648.00usft (H&P #329)  
 Section (VS) Reference: Slot - RG 23-13-298(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 23-13-298 - VP	7838.00	-2035.97	393.60	1756666.30	2201573.20	39.876538	-108.345135	Circle (Radius: 100.00)
RG 23-13-298 - PBHL	11618.00	-2035.97	393.60	1756666.30	2201573.20	39.876538	-108.345135	Point

## ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 2.00
370.00	5.00	155.00	369.68	-9.88	4.61	10.57	10.90	Start DLS 2.00 TFO 19.89
990.69	17.20	169.32	977.70	-125.02	33.16	129.04	129.73	Start 5999.12 hold at 990.69 MD
6989.81	17.20	169.32	6708.57	-1868.13	361.94	1902.87	1903.58	Start Drop -1.50
8136.38	0.00	0.00	7838.00	-2035.97	393.60	2073.67	2074.37	Start 3780.00 hold at 8136.38 MD
11916.38	0.00	0.00	11618.00	-2035.97	393.60	2073.67	2074.37	TD at 11916.38

## WELL DETAILS: RG 23-13-298

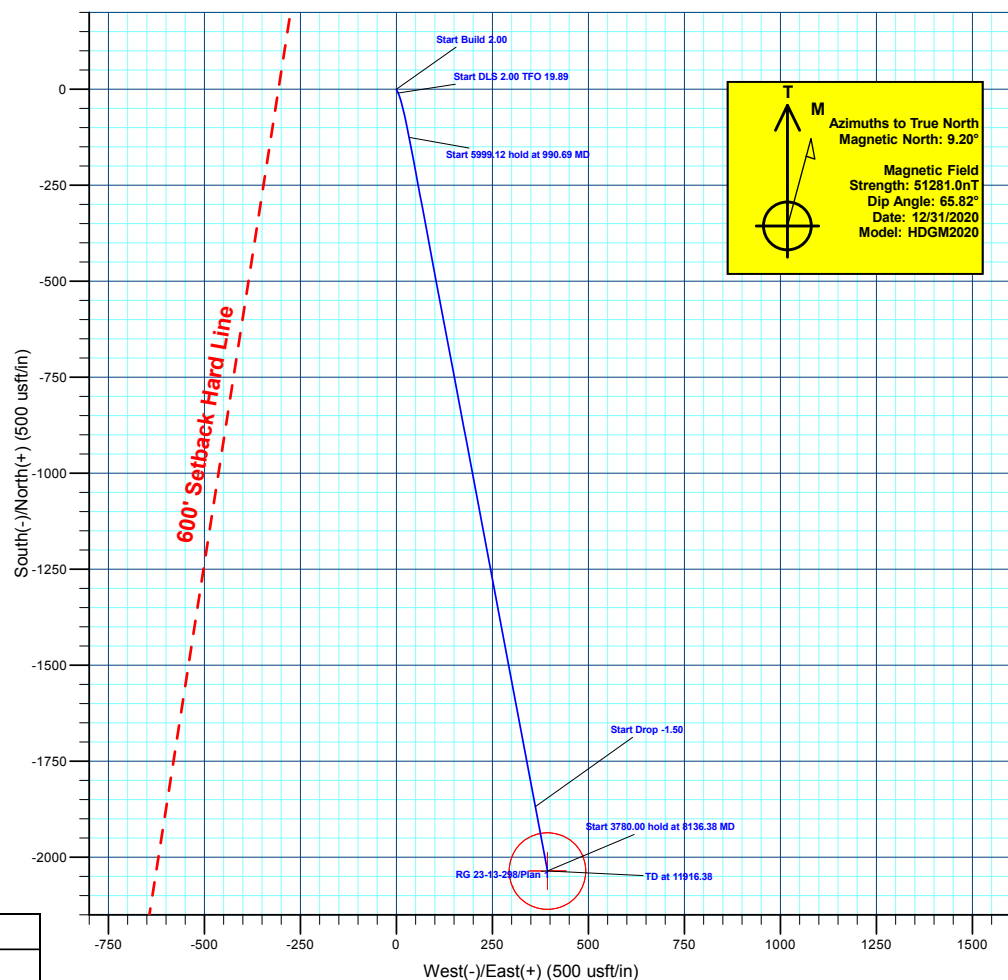
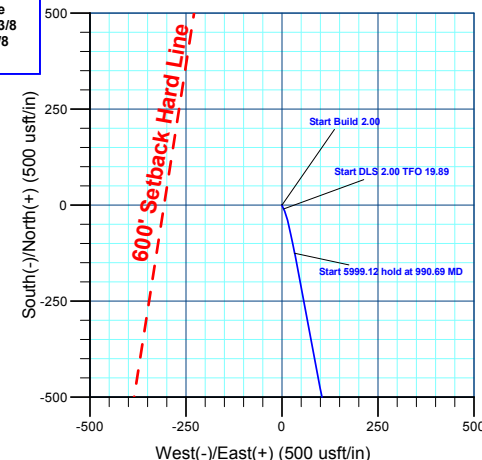
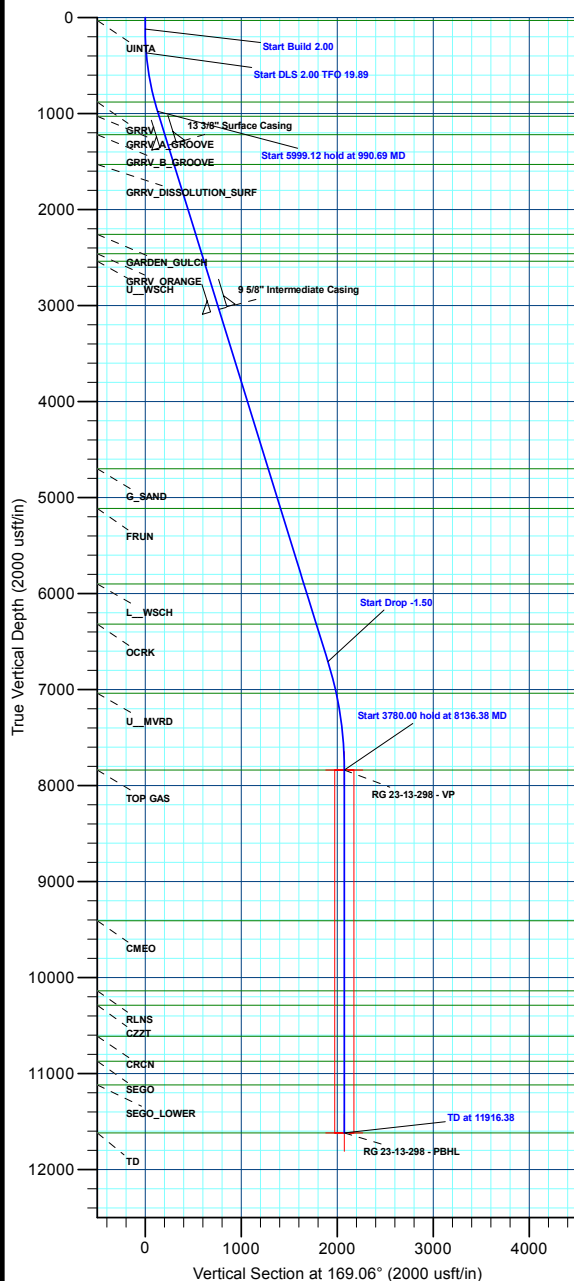
+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1758713.60	6618.00	39.882127	-108.346538	RG 23-13-298

## CASING DETAILS

TVD	MD	Name	Size
1330.00	1359.49	13 3/8" Surface Casing	13-3/8
3040.00	3149.53	9 5/8" Intermediate Casing	9-5/8

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UINTA
880.00	888.96	GRRV
1030.00	1045.44	GRRV_A_GROOVE
1220.00	1244.34	GRRV_B_GROOVE
1530.00	1568.85	GRRV DISSOLUTION_SURF
2260.00	2333.02	GARDEN_GULCH
2460.00	2542.38	GRRV_ORANGE
2540.00	2626.12	U_WSCH
4700.00	4887.23	G_SAND
5115.00	5321.65	FRUN
5900.00	6143.40	L_WSCH
6318.00	6580.96	OCRK
7038.00	7330.42	U_MVRD
7838.00	8136.38	TOP GAS
9408.00	9706.38	CMEO
10138.00	10436.38	RLNS
10288.00	10586.38	CZZT
10613.00	10911.38	CRCN
10873.00	11171.38	SEGO
11118.00	11416.38	SEGO_LOWER
11618.00	11916.38	TD



Plan: Plan 1 (RG 23-13-298/Wellbore #1)

Created By: Chase Chambers Date: 8:29, May 04 2022



# **Terra Energy Partners, LLP**

**Rio Blanco County, CO**

**RG 11-13-298**

**RG 23-13-298 - Slot RG 23-13-298**

**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 23-13-298 - Slot RG 23-13-298
<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 23-13-298	<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		

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

<b>Well</b>	RG 23-13-298 - Slot RG 23-13-298			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,758,713.60 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,201,243.58 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 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	169.06

<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	155.00	369.68	-9.88	4.61	2.00	2.00	0.00	155.00	
990.69	17.20	169.32	977.70	-125.02	33.16	2.00	1.97	2.31	19.89	
6,989.81	17.20	169.32	6,708.57	-1,868.13	361.94	0.00	0.00	0.00	0.00	
8,136.38	0.00	0.00	7,838.00	-2,035.97	393.60	1.50	-1.50	0.00	180.00	RG 23-13-298 - VP
11,916.38	0.00	0.00	11,618.00	-2,035.97	393.60	0.00	0.00	0.00	0.00	RG 23-13-298 - PBHL

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<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 23-13-298	<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	155.00	199.99	-1.01	0.47	1.08	2.00	2.00	0.00
300.00	3.60	155.00	299.88	-5.12	2.39	5.48	2.00	2.00	0.00
<b>Start DLS 2.00 TFO 19.89</b>									
370.00	5.00	155.00	369.68	-9.88	4.61	10.57	2.00	2.00	0.00
400.00	5.57	157.10	399.56	-12.41	5.73	13.27	2.00	1.89	7.01
500.00	7.50	161.79	498.90	-23.07	9.65	24.49	2.00	1.93	4.69
600.00	9.46	164.56	597.81	-37.19	13.88	39.15	2.00	1.96	2.77
700.00	11.43	166.38	696.14	-54.74	18.40	57.23	2.00	1.97	1.82
800.00	13.41	167.67	793.80	-75.70	23.21	78.73	2.00	1.98	1.29
<b>GRRV</b>									
888.96	15.18	168.54	880.00	-97.19	27.72	100.68	2.00	1.99	0.98
900.00	15.39	168.63	890.65	-100.04	28.30	103.59	2.00	1.99	0.85
<b>Start 5999.12 hold at 990.69 MD</b>									
990.69	17.20	169.32	977.70	-125.02	33.16	129.04	2.00	1.99	0.76
1,000.00	17.20	169.32	986.59	-127.72	33.67	131.79	0.00	0.00	0.00
<b>GRRV_A_GROOVE</b>									
1,045.44	17.20	169.32	1,030.00	-140.93	36.16	145.23	0.00	0.00	0.00
1,100.00	17.20	169.32	1,082.12	-156.78	39.15	161.36	0.00	0.00	0.00
1,200.00	17.20	169.32	1,177.65	-185.84	44.63	190.93	0.00	0.00	0.00
<b>GRRV_B_GROOVE</b>									
1,244.34	17.20	169.32	1,220.00	-198.72	47.06	204.04	0.00	0.00	0.00
1,300.00	17.20	169.32	1,273.17	-214.89	50.11	220.50	0.00	0.00	0.00
<b>13 3/8" Surface Casing</b>									
1,359.49	17.20	169.32	1,330.00	-232.18	53.37	238.09	0.00	0.00	0.00
1,400.00	17.20	169.32	1,368.70	-243.95	55.59	250.07	0.00	0.00	0.00
1,500.00	17.20	169.32	1,464.23	-273.00	61.07	279.63	0.00	0.00	0.00
<b>GRRV DISSOLUTION SURF</b>									
1,568.85	17.20	169.32	1,530.00	-293.01	64.84	299.99	0.00	0.00	0.00
1,600.00	17.20	169.32	1,559.76	-302.06	66.55	309.20	0.00	0.00	0.00
1,700.00	17.20	169.32	1,655.29	-331.12	72.03	338.77	0.00	0.00	0.00
1,800.00	17.20	169.32	1,750.82	-360.17	77.51	368.34	0.00	0.00	0.00
1,900.00	17.20	169.32	1,846.35	-389.23	82.99	397.91	0.00	0.00	0.00
2,000.00	17.20	169.32	1,941.87	-418.29	88.47	427.47	0.00	0.00	0.00
2,100.00	17.20	169.32	2,037.40	-447.34	93.95	457.04	0.00	0.00	0.00
2,200.00	17.20	169.32	2,132.93	-476.40	99.43	486.61	0.00	0.00	0.00
2,300.00	17.20	169.32	2,228.46	-505.45	104.92	516.18	0.00	0.00	0.00
<b>GARDEN_GULCH</b>									
2,333.02	17.20	169.32	2,260.00	-515.05	106.72	525.94	0.00	0.00	0.00
2,400.00	17.20	169.32	2,323.99	-534.51	110.40	545.75	0.00	0.00	0.00
2,500.00	17.20	169.32	2,419.52	-563.57	115.88	575.32	0.00	0.00	0.00
<b>GRRV_ORANGE</b>									
2,542.38	17.20	169.32	2,460.00	-575.88	118.20	587.85	0.00	0.00	0.00
2,600.00	17.20	169.32	2,515.05	-592.62	121.36	604.88	0.00	0.00	0.00
<b>U_WSCH</b>									
2,626.12	17.20	169.32	2,540.00	-600.21	122.79	612.61	0.00	0.00	0.00
2,700.00	17.20	169.32	2,610.57	-621.68	126.84	634.45	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 23-13-298	<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	17.20	169.32	2,706.10	-650.73	132.32	664.02	0.00	0.00	0.00
2,900.00	17.20	169.32	2,801.63	-679.79	137.80	693.59	0.00	0.00	0.00
3,000.00	17.20	169.32	2,897.16	-708.85	143.28	723.16	0.00	0.00	0.00
3,100.00	17.20	169.32	2,992.69	-737.90	148.76	752.72	0.00	0.00	0.00
<b>9 5/8" Intermediate Casing</b>									
3,149.53	17.20	169.32	3,040.00	-752.29	151.47	767.37	0.00	0.00	0.00
3,200.00	17.20	169.32	3,088.22	-766.96	154.24	782.29	0.00	0.00	0.00
3,300.00	17.20	169.32	3,183.75	-796.02	159.72	811.86	0.00	0.00	0.00
3,400.00	17.20	169.32	3,279.27	-825.07	165.20	841.43	0.00	0.00	0.00
3,500.00	17.20	169.32	3,374.80	-854.13	170.68	871.00	0.00	0.00	0.00
3,600.00	17.20	169.32	3,470.33	-883.18	176.16	900.57	0.00	0.00	0.00
3,700.00	17.20	169.32	3,565.86	-912.24	181.64	930.13	0.00	0.00	0.00
3,800.00	17.20	169.32	3,661.39	-941.30	187.12	959.70	0.00	0.00	0.00
3,900.00	17.20	169.32	3,756.92	-970.35	192.60	989.27	0.00	0.00	0.00
4,000.00	17.20	169.32	3,852.45	-999.41	198.08	1,018.84	0.00	0.00	0.00
4,100.00	17.20	169.32	3,947.97	-1,028.46	203.56	1,048.41	0.00	0.00	0.00
4,200.00	17.20	169.32	4,043.50	-1,057.52	209.04	1,077.97	0.00	0.00	0.00
4,300.00	17.20	169.32	4,139.03	-1,086.58	214.53	1,107.54	0.00	0.00	0.00
4,400.00	17.20	169.32	4,234.56	-1,115.63	220.01	1,137.11	0.00	0.00	0.00
4,500.00	17.20	169.32	4,330.09	-1,144.69	225.49	1,166.68	0.00	0.00	0.00
4,600.00	17.20	169.32	4,425.62	-1,173.75	230.97	1,196.25	0.00	0.00	0.00
4,700.00	17.20	169.32	4,521.15	-1,202.80	236.45	1,225.82	0.00	0.00	0.00
4,800.00	17.20	169.32	4,616.67	-1,231.86	241.93	1,255.38	0.00	0.00	0.00
<b>G_SAND</b>									
4,887.23	17.20	169.32	4,700.00	-1,257.20	246.71	1,281.17	0.00	0.00	0.00
4,900.00	17.20	169.32	4,712.20	-1,260.91	247.41	1,284.95	0.00	0.00	0.00
5,000.00	17.20	169.32	4,807.73	-1,289.97	252.89	1,314.52	0.00	0.00	0.00
5,100.00	17.20	169.32	4,903.26	-1,319.03	258.37	1,344.09	0.00	0.00	0.00
5,200.00	17.20	169.32	4,998.79	-1,348.08	263.85	1,373.66	0.00	0.00	0.00
5,300.00	17.20	169.32	5,094.32	-1,377.14	269.33	1,403.22	0.00	0.00	0.00
<b>FRUN</b>									
5,321.65	17.20	169.32	5,115.00	-1,383.43	270.52	1,409.63	0.00	0.00	0.00
5,400.00	17.20	169.32	5,189.85	-1,406.19	274.81	1,432.79	0.00	0.00	0.00
5,500.00	17.20	169.32	5,285.37	-1,435.25	280.29	1,462.36	0.00	0.00	0.00
5,600.00	17.20	169.32	5,380.90	-1,464.31	285.77	1,491.93	0.00	0.00	0.00
5,700.00	17.20	169.32	5,476.43	-1,493.36	291.25	1,521.50	0.00	0.00	0.00
5,800.00	17.20	169.32	5,571.96	-1,522.42	296.73	1,551.07	0.00	0.00	0.00
5,900.00	17.20	169.32	5,667.49	-1,551.48	302.21	1,580.63	0.00	0.00	0.00
6,000.00	17.20	169.32	5,763.02	-1,580.53	307.69	1,610.20	0.00	0.00	0.00
6,100.00	17.20	169.32	5,858.55	-1,609.59	313.17	1,639.77	0.00	0.00	0.00
<b>L_WSCH</b>									
6,143.40	17.20	169.32	5,900.00	-1,622.20	315.55	1,652.60	0.00	0.00	0.00
6,200.00	17.20	169.32	5,954.07	-1,638.64	318.65	1,669.34	0.00	0.00	0.00
6,300.00	17.20	169.32	6,049.60	-1,667.70	324.13	1,698.91	0.00	0.00	0.00
6,400.00	17.20	169.32	6,145.13	-1,696.76	329.62	1,728.47	0.00	0.00	0.00
6,500.00	17.20	169.32	6,240.66	-1,725.81	335.10	1,758.04	0.00	0.00	0.00
<b>OCRK</b>									
6,580.96	17.20	169.32	6,318.00	-1,749.34	339.53	1,781.98	0.00	0.00	0.00
6,600.00	17.20	169.32	6,336.19	-1,754.87	340.58	1,787.61	0.00	0.00	0.00
6,700.00	17.20	169.32	6,431.72	-1,783.92	346.06	1,817.18	0.00	0.00	0.00
6,800.00	17.20	169.32	6,527.25	-1,812.98	351.54	1,846.75	0.00	0.00	0.00
6,900.00	17.20	169.32	6,622.77	-1,842.04	357.02	1,876.32	0.00	0.00	0.00
<b>Start Drop -1.50</b>									

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<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 23-13-298	<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)
6,989.81	17.20	169.32	6,708.57	-1,868.13	361.94	1,902.87	0.00	0.00	0.00
7,000.00	17.05	169.32	6,718.31	-1,871.08	362.50	1,905.87	1.50	-1.50	0.00
7,100.00	15.55	169.32	6,814.29	-1,898.65	367.70	1,933.93	1.50	-1.50	0.00
7,200.00	14.05	169.32	6,910.97	-1,923.75	372.43	1,959.47	1.50	-1.50	0.00
7,300.00	12.55	169.32	7,008.28	-1,946.35	376.69	1,982.46	1.50	-1.50	0.00
<b>U_MVRD</b>									
7,330.42	12.09	169.32	7,038.00	-1,952.72	377.90	1,988.95	1.50	-1.50	0.00
7,400.00	11.05	169.32	7,106.17	-1,966.43	380.48	2,002.90	1.50	-1.50	0.00
7,500.00	9.55	169.32	7,204.56	-1,984.00	383.79	2,020.78	1.50	-1.50	0.00
7,600.00	8.05	169.32	7,303.38	-1,999.02	386.63	2,036.07	1.50	-1.50	0.00
7,700.00	6.55	169.32	7,402.57	-2,011.50	388.98	2,048.77	1.50	-1.50	0.00
7,800.00	5.05	169.32	7,502.05	-2,021.42	390.85	2,058.86	1.50	-1.50	0.00
7,900.00	3.55	169.32	7,601.77	-2,028.78	392.24	2,066.35	1.50	-1.50	0.00
8,000.00	2.05	169.32	7,701.65	-2,033.58	393.15	2,071.23	1.50	-1.50	0.00
8,100.00	0.55	169.32	7,801.62	-2,035.80	393.56	2,073.49	1.50	-1.50	0.00
<b>Start 3780.00 hold at 8136.38 MD - TOP GAS</b>									
8,136.38	0.00	0.00	7,838.00	-2,035.97	393.60	2,073.67	1.50	-1.50	0.00
8,200.00	0.00	0.00	7,901.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
8,300.00	0.00	0.00	8,001.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
8,400.00	0.00	0.00	8,101.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
8,500.00	0.00	0.00	8,201.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
8,600.00	0.00	0.00	8,301.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
8,700.00	0.00	0.00	8,401.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
8,800.00	0.00	0.00	8,501.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
8,900.00	0.00	0.00	8,601.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,000.00	0.00	0.00	8,701.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,100.00	0.00	0.00	8,801.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,200.00	0.00	0.00	8,901.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,300.00	0.00	0.00	9,001.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,400.00	0.00	0.00	9,101.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,500.00	0.00	0.00	9,201.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,600.00	0.00	0.00	9,301.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,700.00	0.00	0.00	9,401.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
<b>CME0</b>									
9,706.38	0.00	0.00	9,408.00	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,800.00	0.00	0.00	9,501.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
9,900.00	0.00	0.00	9,601.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,000.00	0.00	0.00	9,701.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,100.00	0.00	0.00	9,801.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,200.00	0.00	0.00	9,901.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,300.00	0.00	0.00	10,001.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,400.00	0.00	0.00	10,101.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
<b>RLNS</b>									
10,436.38	0.00	0.00	10,138.00	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,500.00	0.00	0.00	10,201.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
<b>CZZT</b>									
10,586.38	0.00	0.00	10,288.00	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,600.00	0.00	0.00	10,301.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,700.00	0.00	0.00	10,401.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,800.00	0.00	0.00	10,501.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
10,900.00	0.00	0.00	10,601.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
<b>CRCN</b>									
10,911.38	0.00	0.00	10,613.00	-2,035.97	393.60	2,073.67	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 23-13-298 - Slot RG 23-13-298
<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 23-13-298	<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)
11,000.00	0.00	0.00	10,701.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
11,100.00	0.00	0.00	10,801.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
<b>SEGO</b>									
11,171.38	0.00	0.00	10,873.00	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
11,200.00	0.00	0.00	10,901.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
11,300.00	0.00	0.00	11,001.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
11,400.00	0.00	0.00	11,101.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
<b>SEGO_LOWER</b>									
11,416.38	0.00	0.00	11,118.00	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
11,500.00	0.00	0.00	11,201.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
11,600.00	0.00	0.00	11,301.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
11,700.00	0.00	0.00	11,401.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
11,800.00	0.00	0.00	11,501.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
11,900.00	0.00	0.00	11,601.62	-2,035.97	393.60	2,073.67	0.00	0.00	0.00
<b>TD at 11916.38 - TD</b>									
11,916.38	0.00	0.00	11,618.00	-2,035.97	393.60	2,073.67	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RG 23-13-298 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	7,838.00	-2,035.97	393.60	1,756,666.30	2,201,573.20	39.876538	-108.345136
RG 23-13-298 - PBHL - plan hits target center - Point	0.00	0.00	11,618.00	-2,035.97	393.60	1,756,666.30	2,201,573.20	39.876538	-108.345136

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,359.49	1,330.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,149.53	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 23-13-298 - Slot RG 23-13-298
<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 23-13-298	<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				
888.96	880.00	GRRV				
1,045.44	1,030.00	GRRV_A_GROOVE				
1,244.34	1,220.00	GRRV_B_GROOVE				
1,568.85	1,530.00	GRRV_DISSOLUTION_SURF				
2,333.02	2,260.00	GARDEN_GULCH				
2,542.38	2,460.00	GRRV_ORANGE				
2,626.12	2,540.00	U__WSCH				
4,887.23	4,700.00	G_SAND				
5,321.65	5,115.00	FRUN				
6,143.40	5,900.00	L__WSCH				
6,580.96	6,318.00	OCRK				
7,330.42	7,038.00	U__MVRD				
8,136.38	7,838.00	TOP GAS				
9,706.38	9,408.00	CMEO				
10,436.38	10,138.00	RLNS				
10,586.38	10,288.00	CZZT				
10,911.38	10,613.00	CRCN				
11,171.38	10,873.00	SEGO				
11,416.38	11,118.00	SEGO_LOWER				
11,916.38	11,618.00	TD				

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	-9.88	4.61	Start DLS 2.00 TFO 19.89	
990.69	977.70	-125.02	33.16	Start 5999.12 hold at 990.69 MD	
6,989.81	6,708.57	-1,868.13	361.94	Start Drop -1.50	
8,136.38	7,838.00	-2,035.97	393.60	Start 3780.00 hold at 8136.38 MD	
11,916.38	11,618.00	-2,035.97	393.60	TD at 11916.38	