

## 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 323-13-298 - Slot RG 323-13-298, True North  
 Vertical (TVD) Reference: KB=30' @ 6648.00usft (H&P #329)  
 Section (VS) Reference: Slot - RG 323-13-298(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 323-13-298 - VP	7808.00	-2429.12	341.88	1756291.90	2201503.04	39.875505	-108.345343	Circle (Radius: 100.00)
RG 323-13-298 - PBHL	11588.00	-2429.12	341.88	1756291.90	2201503.04	39.875505	-108.345343	Point

## ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSecDeparture	Annotation
260.00	0.00	0.00	260.00	0.00	0.00	0.00	Start Build 2.00
1325.15	21.30	171.99	1300.78	-193.83	27.28	195.74	Start 5494.98 hold at 1325.15 MD
6820.13	21.30	171.99	6420.30	-2170.68	305.50	2192.07	Start Drop -1.50
8240.33	0.00	0.00	7808.00	-2429.12	341.88	2453.06	Start 3780.00 hold at 8240.33 MD
12020.33	0.00	0.00	11588.00	-2429.12	341.88	2453.06	TD at 12020.33

## WELL DETAILS: RG 323-13-298

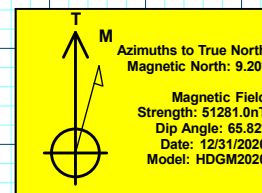
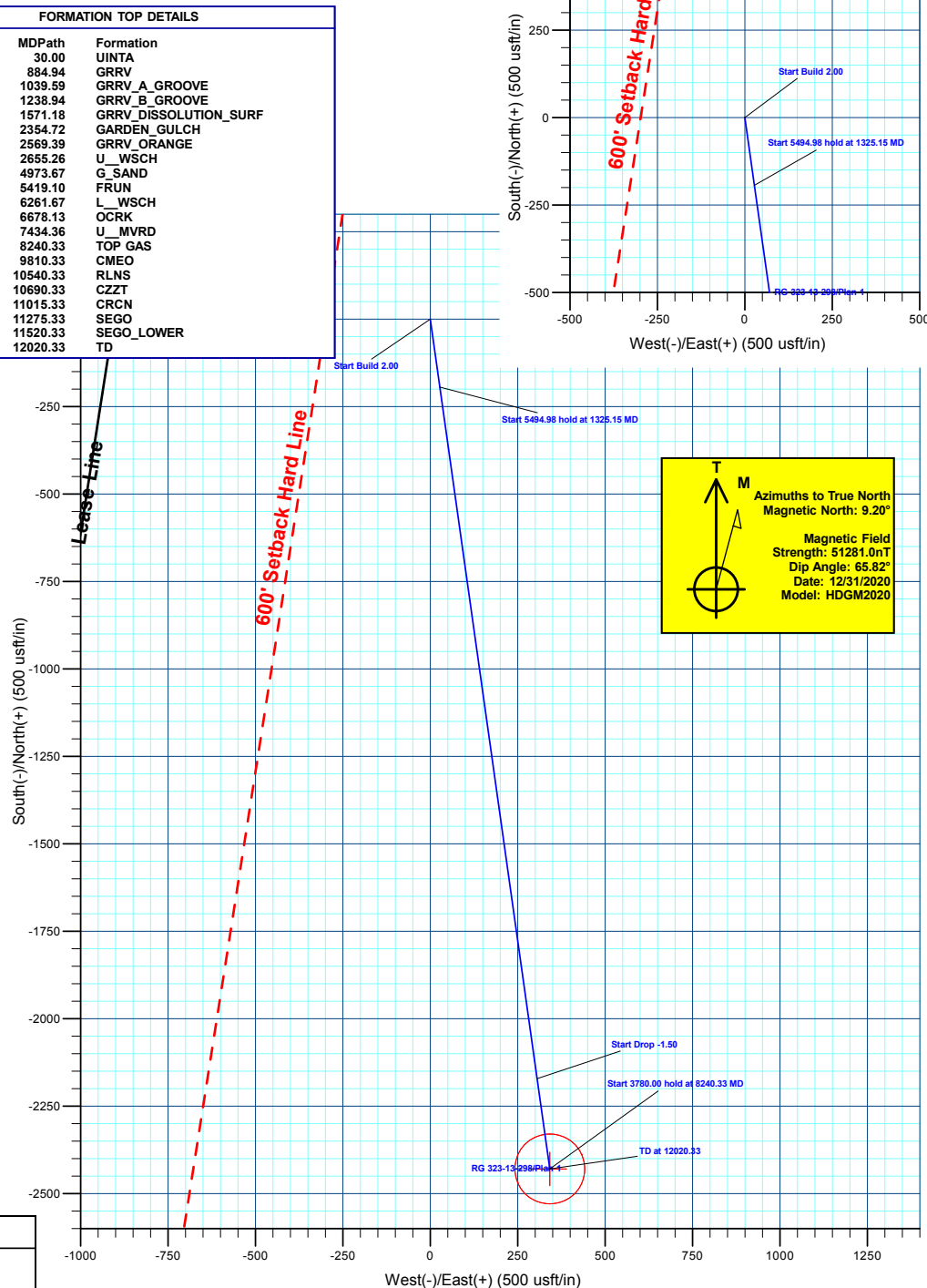
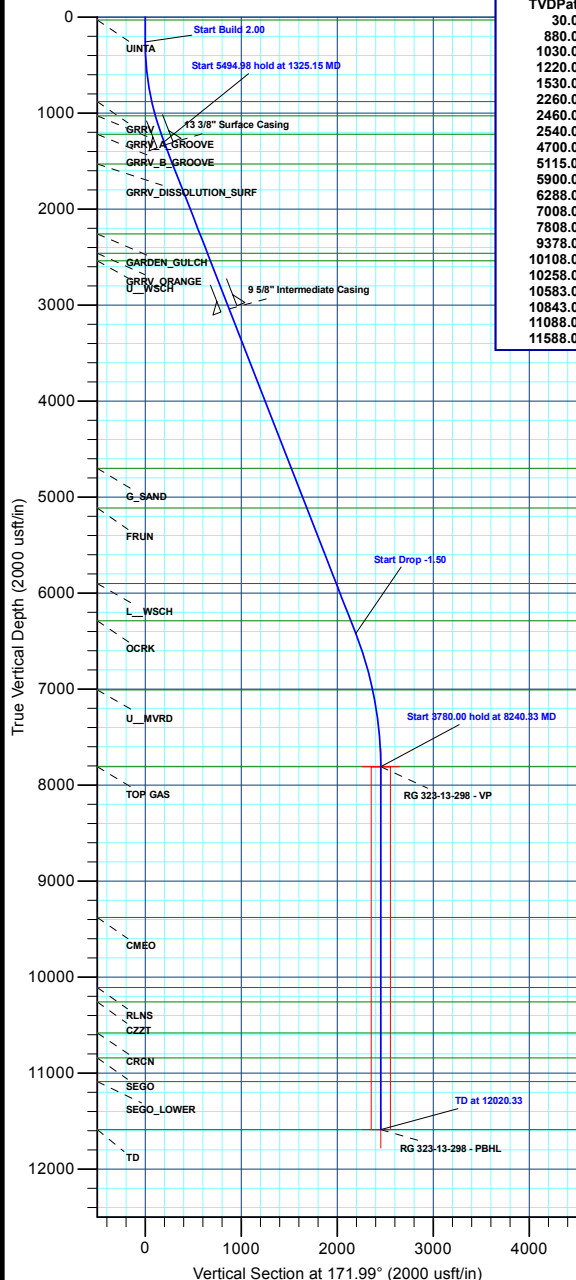
+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1758730.54	6618.00	39.882173	-108.346561	RG 323-13-298

## CASING DETAILS

TVD	MD	Name	Size
1330.00	1356.52	13 3/8" Surface Casing	13-3/8
3040.00	3191.92	9 5/8" Intermediate Casing	9-5/8

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UINTA
880.00	884.94	GRRV
1030.00	1039.59	GRRV_A_GROOVE
1220.00	1238.94	GRRV_B_GROOVE
1530.00	1571.18	GRRV DISSOLUTION_SURF
2260.00	2354.72	GARDEN_GULCH
2460.00	2569.39	GRRV_ORANGE
2540.00	2655.26	U_WSCH
4700.00	4973.67	G_SAND
5115.00	5419.10	FRUN
5900.00	6261.67	L_WSCH
6288.00	6678.13	OCRK
7008.00	7434.36	U_MVRD
7808.00	8240.33	TOP GAS
9378.00	9810.33	CMEO
10108.00	10540.33	RLNS
10258.00	10690.33	CZZT
10583.00	11015.33	CRCN
10843.00	11275.33	SEGO
11088.00	11520.33	SEGO_LOWER
11588.00	12020.33	TD





## **Terra Energy Partners, LLP**

**Rio Blanco County, CO**

**RG 11-13-298**

**RG 323-13-298 - Slot RG 323-13-298**

**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 323-13-298 - Slot RG 323-13-298
<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 323-13-298	<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 °

Well	RG 323-13-298 - Slot RG 323-13-298					
Well Position	+N/-S	16.74 usft	Northing:	1,758,730.54 usft	Latitude:	39.882173
	+E/-W	-6.68 usft	Easting:	2,201,237.43 usft	Longitude:	-108.346562
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	171.99

<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	
260.00	0.00	0.00	260.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,325.15	21.30	171.99	1,300.78	-193.83	27.28	2.00	2.00	0.00	171.99	
6,820.13	21.30	171.99	6,420.30	-2,170.68	305.50	0.00	0.00	0.00	0.00	
8,240.33	0.00	0.00	7,808.00	-2,429.12	341.88	1.50	-1.50	0.00	180.00	RG 323-13-298 - VP
12,020.33	0.00	0.00	11,588.00	-2,429.12	341.88	0.00	0.00	0.00	0.00	RG 323-13-298 - PBH

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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 323-13-298	<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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
260.00	0.00	0.00	260.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.80	171.99	300.00	-0.28	0.04	0.28	2.00	2.00	0.00
400.00	2.80	171.99	399.94	-3.39	0.48	3.42	2.00	2.00	0.00
500.00	4.80	171.99	499.72	-9.95	1.40	10.05	2.00	2.00	0.00
600.00	6.80	171.99	599.20	-19.96	2.81	20.15	2.00	2.00	0.00
700.00	8.80	171.99	698.27	-33.39	4.70	33.72	2.00	2.00	0.00
800.00	10.80	171.99	796.81	-50.25	7.07	50.74	2.00	2.00	0.00
<b>GRRV</b>									
884.94	12.50	171.99	880.00	-67.23	9.46	67.90	2.00	2.00	0.00
900.00	12.80	171.99	894.69	-70.50	9.92	71.19	2.00	2.00	0.00
1,000.00	14.80	171.99	991.80	-94.12	13.25	95.04	2.00	2.00	0.00
<b>GRRV_A_GROOVE</b>									
1,039.59	15.59	171.99	1,030.00	-104.39	14.69	105.42	2.00	2.00	0.00
1,100.00	16.80	171.99	1,088.02	-121.08	17.04	122.27	2.00	2.00	0.00
1,200.00	18.80	171.99	1,183.22	-151.35	21.30	152.84	2.00	2.00	0.00
<b>GRRV_B_GROOVE</b>									
1,238.94	19.58	171.99	1,220.00	-164.02	23.08	165.64	2.00	2.00	0.00
1,300.00	20.80	171.99	1,277.31	-184.89	26.02	186.71	2.00	2.00	0.00
<b>Start 5494.98 hold at 1325.15 MD</b>									
1,325.15	21.30	171.99	1,300.78	-193.83	27.28	195.74	2.00	2.00	0.00
<b>13 3/8" Surface Casing</b>									
1,356.52	21.30	171.99	1,330.00	-205.12	28.87	207.14	0.00	0.00	0.00
1,400.00	21.30	171.99	1,370.51	-220.76	31.07	222.94	0.00	0.00	0.00
1,500.00	21.30	171.99	1,463.68	-256.74	36.13	259.27	0.00	0.00	0.00
<b>GRRV DISSOLUTION SURF</b>									
1,571.18	21.30	171.99	1,530.00	-282.35	39.74	285.13	0.00	0.00	0.00
1,600.00	21.30	171.99	1,556.85	-292.71	41.20	295.60	0.00	0.00	0.00
1,700.00	21.30	171.99	1,650.02	-328.69	46.26	331.93	0.00	0.00	0.00
1,800.00	21.30	171.99	1,743.18	-364.66	51.32	368.26	0.00	0.00	0.00
1,900.00	21.30	171.99	1,836.35	-400.64	56.39	404.59	0.00	0.00	0.00
2,000.00	21.30	171.99	1,929.52	-436.61	61.45	440.92	0.00	0.00	0.00
2,100.00	21.30	171.99	2,022.68	-472.59	66.51	477.25	0.00	0.00	0.00
2,200.00	21.30	171.99	2,115.85	-508.57	71.58	513.58	0.00	0.00	0.00
2,300.00	21.30	171.99	2,209.02	-544.54	76.64	549.91	0.00	0.00	0.00
<b>GARDEN_GULCH</b>									
2,354.72	21.30	171.99	2,260.00	-564.23	79.41	569.79	0.00	0.00	0.00
2,400.00	21.30	171.99	2,302.19	-580.52	81.70	586.24	0.00	0.00	0.00
2,500.00	21.30	171.99	2,395.35	-616.49	86.77	622.57	0.00	0.00	0.00
<b>GRRV_ORANGE</b>									
2,569.39	21.30	171.99	2,460.00	-641.45	90.28	647.78	0.00	0.00	0.00
2,600.00	21.30	171.99	2,488.52	-652.47	91.83	658.90	0.00	0.00	0.00
<b>U_WSCH</b>									
2,655.26	21.30	171.99	2,540.00	-672.35	94.63	678.97	0.00	0.00	0.00
2,700.00	21.30	171.99	2,581.69	-688.44	96.89	695.23	0.00	0.00	0.00
2,800.00	21.30	171.99	2,674.85	-724.42	101.96	731.56	0.00	0.00	0.00
2,900.00	21.30	171.99	2,768.02	-760.39	107.02	767.89	0.00	0.00	0.00
3,000.00	21.30	171.99	2,861.19	-796.37	112.08	804.22	0.00	0.00	0.00

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<b>Site:</b>	RG 11-13-298	<b>North Reference:</b>	True
<b>Well:</b>	RG 323-13-298	<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)
3,100.00	21.30	171.99	2,954.36	-832.34	117.15	840.55	0.00	0.00	0.00
<b>9 5/8" Intermediate Casing</b>									
3,191.92	21.30	171.99	3,040.00	-865.41	121.80	873.94	0.00	0.00	0.00
3,200.00	21.30	171.99	3,047.52	-868.32	122.21	876.88	0.00	0.00	0.00
3,300.00	21.30	171.99	3,140.69	-904.30	127.27	913.21	0.00	0.00	0.00
3,400.00	21.30	171.99	3,233.86	-940.27	132.34	949.54	0.00	0.00	0.00
3,500.00	21.30	171.99	3,327.03	-976.25	137.40	985.87	0.00	0.00	0.00
3,600.00	21.30	171.99	3,420.19	-1,012.22	142.46	1,022.20	0.00	0.00	0.00
3,700.00	21.30	171.99	3,513.36	-1,048.20	147.53	1,058.53	0.00	0.00	0.00
3,800.00	21.30	171.99	3,606.53	-1,084.17	152.59	1,094.86	0.00	0.00	0.00
3,900.00	21.30	171.99	3,699.69	-1,120.15	157.65	1,131.19	0.00	0.00	0.00
4,000.00	21.30	171.99	3,792.86	-1,156.12	162.71	1,167.52	0.00	0.00	0.00
4,100.00	21.30	171.99	3,886.03	-1,192.10	167.78	1,203.85	0.00	0.00	0.00
4,200.00	21.30	171.99	3,979.20	-1,228.07	172.84	1,240.18	0.00	0.00	0.00
4,300.00	21.30	171.99	4,072.36	-1,264.05	177.90	1,276.51	0.00	0.00	0.00
4,400.00	21.30	171.99	4,165.53	-1,300.02	182.97	1,312.84	0.00	0.00	0.00
4,500.00	21.30	171.99	4,258.70	-1,336.00	188.03	1,349.17	0.00	0.00	0.00
4,600.00	21.30	171.99	4,351.86	-1,371.98	193.09	1,385.50	0.00	0.00	0.00
4,700.00	21.30	171.99	4,445.03	-1,407.95	198.16	1,421.83	0.00	0.00	0.00
4,800.00	21.30	171.99	4,538.20	-1,443.93	203.22	1,458.16	0.00	0.00	0.00
4,900.00	21.30	171.99	4,631.37	-1,479.90	208.28	1,494.49	0.00	0.00	0.00
<b>G_SAND</b>									
4,973.67	21.30	171.99	4,700.00	-1,506.40	212.01	1,521.25	0.00	0.00	0.00
5,000.00	21.30	171.99	4,724.53	-1,515.88	213.35	1,530.82	0.00	0.00	0.00
5,100.00	21.30	171.99	4,817.70	-1,551.85	218.41	1,567.15	0.00	0.00	0.00
5,200.00	21.30	171.99	4,910.87	-1,587.83	223.47	1,603.48	0.00	0.00	0.00
5,300.00	21.30	171.99	5,004.04	-1,623.80	228.54	1,639.81	0.00	0.00	0.00
5,400.00	21.30	171.99	5,097.20	-1,659.78	233.60	1,676.14	0.00	0.00	0.00
<b>FRUN</b>									
5,419.10	21.30	171.99	5,115.00	-1,666.65	234.57	1,683.08	0.00	0.00	0.00
5,500.00	21.30	171.99	5,190.37	-1,695.75	238.66	1,712.47	0.00	0.00	0.00
5,600.00	21.30	171.99	5,283.54	-1,731.73	243.73	1,748.80	0.00	0.00	0.00
5,700.00	21.30	171.99	5,376.70	-1,767.71	248.79	1,785.13	0.00	0.00	0.00
5,800.00	21.30	171.99	5,469.87	-1,803.68	253.85	1,821.46	0.00	0.00	0.00
5,900.00	21.30	171.99	5,563.04	-1,839.66	258.92	1,857.79	0.00	0.00	0.00
6,000.00	21.30	171.99	5,656.21	-1,875.63	263.98	1,894.12	0.00	0.00	0.00
6,100.00	21.30	171.99	5,749.37	-1,911.61	269.04	1,930.45	0.00	0.00	0.00
6,200.00	21.30	171.99	5,842.54	-1,947.58	274.11	1,966.78	0.00	0.00	0.00
<b>L_WSCH</b>									
6,261.67	21.30	171.99	5,900.00	-1,969.77	277.23	1,989.18	0.00	0.00	0.00
6,300.00	21.30	171.99	5,935.71	-1,983.56	279.17	2,003.11	0.00	0.00	0.00
6,400.00	21.30	171.99	6,028.88	-2,019.53	284.23	2,039.44	0.00	0.00	0.00
6,500.00	21.30	171.99	6,122.04	-2,055.51	289.30	2,075.77	0.00	0.00	0.00
6,600.00	21.30	171.99	6,215.21	-2,091.48	294.36	2,112.10	0.00	0.00	0.00
<b>OCRK</b>									
6,678.13	21.30	171.99	6,288.00	-2,119.59	298.32	2,140.48	0.00	0.00	0.00
6,700.00	21.30	171.99	6,308.38	-2,127.46	299.42	2,148.43	0.00	0.00	0.00
6,800.00	21.30	171.99	6,401.54	-2,163.43	304.49	2,184.76	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
6,820.13	21.30	171.99	6,420.30	-2,170.68	305.50	2,192.07	0.00	0.00	0.00
6,900.00	20.10	171.99	6,495.01	-2,198.64	309.44	2,220.31	1.50	-1.50	0.00
7,000.00	18.60	171.99	6,589.35	-2,231.46	314.06	2,253.45	1.50	-1.50	0.00
7,100.00	17.10	171.99	6,684.54	-2,261.82	318.33	2,284.11	1.50	-1.50	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 323-13-298	<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)
7,200.00	15.60	171.99	6,780.49	-2,289.70	322.26	2,312.27	1.50	-1.50	0.00
7,300.00	14.10	171.99	6,877.14	-2,315.09	325.83	2,337.90	1.50	-1.50	0.00
7,400.00	12.60	171.99	6,974.43	-2,337.96	329.05	2,361.00	1.50	-1.50	0.00
<b>U_MVRD</b>									
7,434.36	12.09	171.99	7,008.00	-2,345.23	330.07	2,368.35	1.50	-1.50	0.00
7,500.00	11.10	171.99	7,072.30	-2,358.30	331.91	2,381.54	1.50	-1.50	0.00
7,600.00	9.60	171.99	7,170.67	-2,376.10	334.42	2,399.52	1.50	-1.50	0.00
7,700.00	8.10	171.99	7,269.47	-2,391.34	336.56	2,414.91	1.50	-1.50	0.00
7,800.00	6.60	171.99	7,368.65	-2,404.02	338.35	2,427.71	1.50	-1.50	0.00
7,900.00	5.10	171.99	7,468.12	-2,414.12	339.77	2,437.91	1.50	-1.50	0.00
8,000.00	3.60	171.99	7,567.83	-2,421.64	340.83	2,445.50	1.50	-1.50	0.00
8,100.00	2.10	171.99	7,667.70	-2,426.57	341.52	2,450.48	1.50	-1.50	0.00
8,200.00	0.60	171.99	7,767.67	-2,428.91	341.85	2,452.85	1.50	-1.50	0.00
<b>Start 3780.00 hold at 8240.33 MD - TOP GAS</b>									
8,240.33	0.00	0.00	7,808.00	-2,429.12	341.88	2,453.06	1.50	-1.50	0.00
8,300.00	0.00	0.00	7,867.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
8,400.00	0.00	0.00	7,967.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
8,500.00	0.00	0.00	8,067.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
8,600.00	0.00	0.00	8,167.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
8,700.00	0.00	0.00	8,267.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
8,800.00	0.00	0.00	8,367.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
8,900.00	0.00	0.00	8,467.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,000.00	0.00	0.00	8,567.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,100.00	0.00	0.00	8,667.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,200.00	0.00	0.00	8,767.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,300.00	0.00	0.00	8,867.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,400.00	0.00	0.00	8,967.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,500.00	0.00	0.00	9,067.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,600.00	0.00	0.00	9,167.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,700.00	0.00	0.00	9,267.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,800.00	0.00	0.00	9,367.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
<b>CMEO</b>									
9,810.33	0.00	0.00	9,378.00	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
9,900.00	0.00	0.00	9,467.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,000.00	0.00	0.00	9,567.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,100.00	0.00	0.00	9,667.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,200.00	0.00	0.00	9,767.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,300.00	0.00	0.00	9,867.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,400.00	0.00	0.00	9,967.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,500.00	0.00	0.00	10,067.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
<b>RLNS</b>									
10,540.33	0.00	0.00	10,108.00	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,600.00	0.00	0.00	10,167.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
<b>CZZT</b>									
10,690.33	0.00	0.00	10,258.00	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,700.00	0.00	0.00	10,267.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,800.00	0.00	0.00	10,367.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
10,900.00	0.00	0.00	10,467.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,000.00	0.00	0.00	10,567.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
<b>CRCN</b>									
11,015.33	0.00	0.00	10,583.00	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,100.00	0.00	0.00	10,667.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,200.00	0.00	0.00	10,767.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 323-13-298 - Slot RG 323-13-298
<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 323-13-298	<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)
<b>SEGO</b>									
11,275.33	0.00	0.00	10,843.00	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,300.00	0.00	0.00	10,867.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,400.00	0.00	0.00	10,967.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,500.00	0.00	0.00	11,067.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
<b>SEGO_LOWER</b>									
11,520.33	0.00	0.00	11,088.00	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,600.00	0.00	0.00	11,167.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,700.00	0.00	0.00	11,267.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,800.00	0.00	0.00	11,367.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
11,900.00	0.00	0.00	11,467.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
12,000.00	0.00	0.00	11,567.67	-2,429.12	341.88	2,453.06	0.00	0.00	0.00
<b>TD at 12020.33 - TD</b>									
12,020.33	0.00	0.00	11,588.00	-2,429.12	341.88	2,453.06	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 323-13-298 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	7,808.00	-2,429.12	341.88	1,756,291.90	2,201,503.04	39.875505	-108.345344
RG 323-13-298 - PBHL - plan hits target center - Point	0.00	0.00	11,588.00	-2,429.12	341.88	1,756,291.90	2,201,503.04	39.875505	-108.345344

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,356.52	1,330.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,191.92	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 323-13-298 - Slot RG 323-13-298
<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 323-13-298	<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				
884.94	880.00	GRRV				
1,039.59	1,030.00	GRRV_A_GROOVE				
1,238.94	1,220.00	GRRV_B_GROOVE				
1,571.18	1,530.00	GRRV DISSOLUTION_SURF				
2,354.72	2,260.00	GARDEN_GULCH				
2,569.39	2,460.00	GRRV_ORANGE				
2,655.26	2,540.00	U__WSCH				
4,973.67	4,700.00	G_SAND				
5,419.10	5,115.00	FRUN				
6,261.67	5,900.00	L__WSCH				
6,678.13	6,288.00	OCRK				
7,434.36	7,008.00	U__MVRD				
8,240.33	7,808.00	TOP GAS				
9,810.33	9,378.00	CMEO				
10,540.33	10,108.00	RLNS				
10,690.33	10,258.00	CZZT				
11,015.33	10,583.00	CRCN				
11,275.33	10,843.00	SEGO				
11,520.33	11,088.00	SEGO_LOWER				
12,020.33	11,588.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
260.00	260.00	0.00	0.00	Start Build 2.00	
1,325.15	1,300.78	-193.83	27.28	Start 5494.98 hold at 1325.15 MD	
6,820.13	6,420.30	-2,170.68	305.50	Start Drop -1.50	
8,240.33	7,808.00	-2,429.12	341.88	Start 3780.00 hold at 8240.33 MD	
12,020.33	11,588.00	-2,429.12	341.88	TD at 12020.33	