



Project: Rio Blanco County, CO  
 Site: RGU 23-6-297 Pad  
 Well: RGU 442-6-297  
 Wellbore: Wellbore #1  
 Design: Plan 1  
 Latitude: 39.904905  
 Longitude: -108.325354  
 Ground Level: 6222.00  
 KB=30' @ 6252.00usft (H&P #329)



**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

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RGU 442-6-297 - VP	8512.00	909.15	2282.63	1767659.52	2209753.70	39.907400	-108.317218	Circle (Radius: 100.00)
RGU 442-6-297 - PBHL	12292.00	909.15	2282.63	1767659.52	2209753.70	39.907400	-108.317218	Point

**REFERENCE INFORMATION**  
 Co-ordinate (N/E) Reference: Well RGU 442-6-297 - Slot RGU 442-6-297, True North  
 Vertical (TVD) Reference: KB=30' @ 6252.00usft (H&P #329)  
 Section (VS) Reference: Slot - RGU 442-6-297(0.00N, 0.00E)  
 Measured Depth Reference: KB=30' @ 6252.00usft (H&P #329)  
 Calculation Method: Minimum Curvature

**ANNOTATIONS**

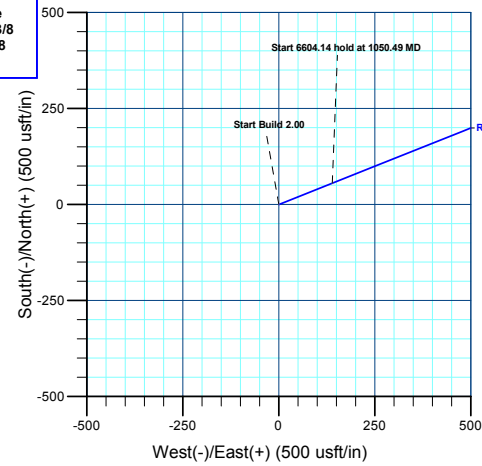
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 2.00
1050.49	18.61	68.28	1034.21	55.42	139.16	149.79	149.79	Start 6604.14 hold at 1050.49 MD
7654.63	18.61	68.28	7293.05	835.25	2097.09	2257.31	2257.31	Start Drop -1.50
8895.28	0.00	0.00	8512.00	909.15	2282.63	2457.02	2457.02	Start 3780.00 hold at 8895.28 MD
12675.28	0.00	0.00	12292.00	909.15	2282.63	2457.02	2457.02	TD at 12675.28

**WELL DETAILS: RGU 442-6-297**

+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1766821.79	6222.00	39.904905	-108.325354	RGU 442-6-297

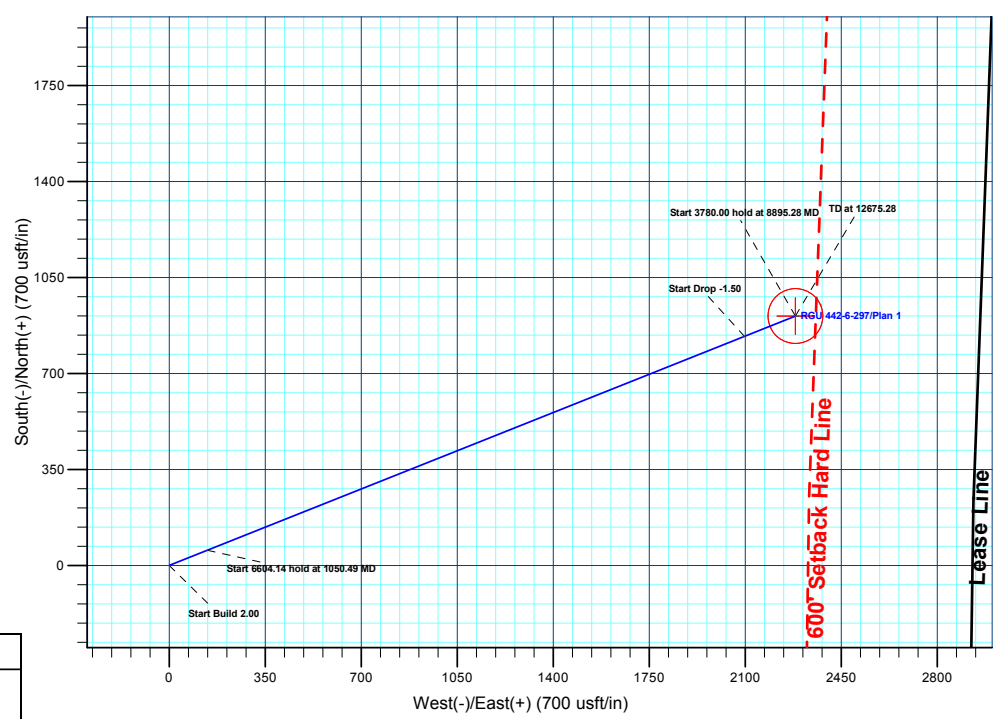
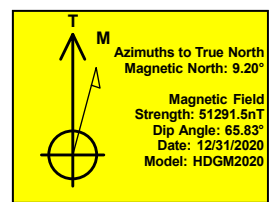
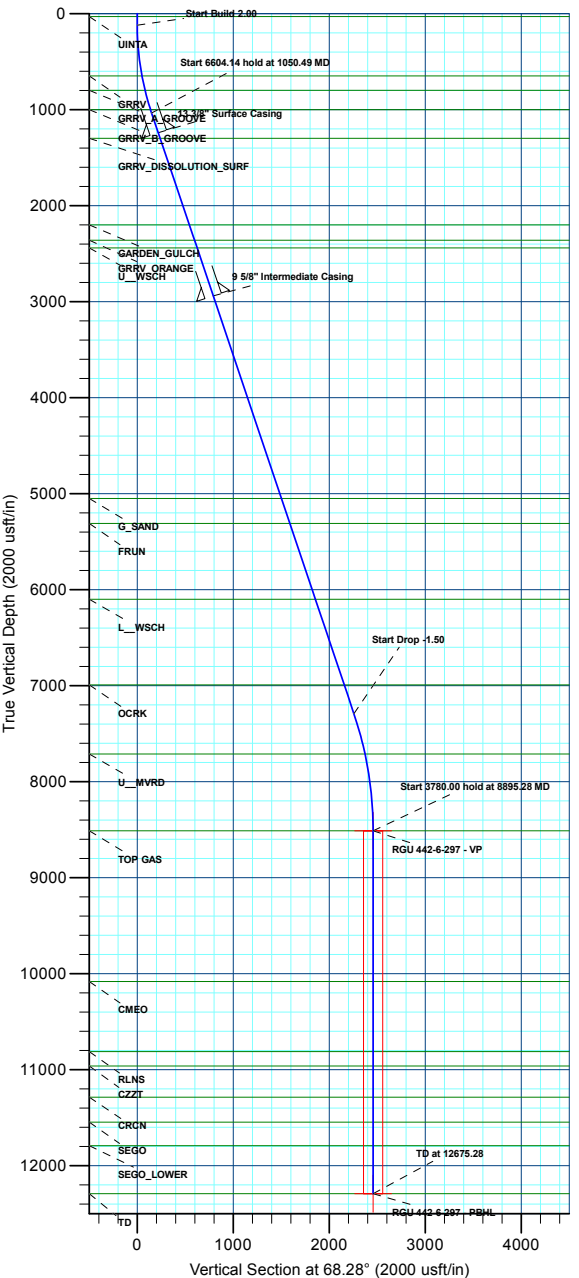
**CASING DETAILS**

TVD	MD	Name	Size
1240.00	1267.63	13 3/8" Surface Casing	13-3/8
2940.00	3061.42	9 5/8" Intermediate Casing	9-5/8



**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
30.00	30.00	UINTA
650.00	653.07	GRRV
800.00	806.55	GRRV_A_GROOVE
1000.00	1014.46	GRRV_B_GROOVE
1300.00	1330.94	GRRV_DISSOLUTION_SURF
2200.00	2280.59	GARDEN_GULCH
2360.00	2449.42	GRRV_ORANGE
2440.00	2533.83	U_WSCH
5050.00	5287.83	G_SAND
5310.00	5562.17	FRUN
6100.00	6395.76	L_WSCH
6992.00	7336.97	OCRK
7712.00	8089.31	U_MVRD
8512.00	8895.28	TOP GAS
10082.00	10465.28	CMEO
10812.00	11195.28	RLNS
10962.00	11345.28	CZZT
11287.00	11670.28	CRCN
11547.00	11930.28	SEGO
11792.00	12175.28	SEGO_LOWER
12292.00	12675.28	TD



Plan: Plan 1 (RGU 442-6-297/Wellbore #1)  
 Created By: Chase Chambers Date: 9:12, May 11 2022



## **Terra Energy Partners, LLP**

**Rio Blanco County, CO**

**RGU 23-6-297 Pad**

**RGU 442-6-297 - Slot RGU 442-6-297**

**Wellbore #1**

**Plan: Plan 1**

## **KLX Well Planning Report**

**10 May, 2022**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RGU 442-6-297 - Slot RGU 442-6-297
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Site:</b>	RGU 23-6-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RGU 442-6-297	<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>	RGU 23-6-297 Pad				
<b>Site Position:</b>	<b>Northing:</b>	1,766,844.82 usft	<b>Latitude:</b>	39.904967	
<b>From:</b> Map	<b>Easting:</b>	2,207,435.21 usft	<b>Longitude:</b>	-108.325388	
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-1.78 °

<b>Well</b>	RGU 442-6-297 - Slot RGU 442-6-297					
<b>Well Position</b>	<b>+N/-S</b>	-22.75 usft	<b>Northing:</b>	1,766,821.79 usft	<b>Latitude:</b>	39.904905
	<b>+E/-W</b>	9.40 usft	<b>Easting:</b>	2,207,443.90 usft	<b>Longitude:</b>	-108.325354
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	6,222.00 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	65.83	51,291.50000000

<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	68.28

<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	
1,050.49	18.61	68.28	1,034.21	55.42	139.16	2.00	2.00	0.00	68.28	
7,654.63	18.61	68.28	7,293.05	835.25	2,097.09	0.00	0.00	0.00	0.00	
8,895.28	0.00	0.00	8,512.00	909.15	2,282.63	1.50	-1.50	0.00	180.00	RGU 442-6-297 - VP
12,675.28	0.00	0.00	12,292.00	909.15	2,282.63	0.00	0.00	0.00	0.00	RGU 442-6-297 - PB

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<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Site:</b>	RGU 23-6-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RGU 442-6-297	<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	68.28	199.99	0.41	1.04	1.12	2.00	2.00	0.00
300.00	3.60	68.28	299.88	2.09	5.25	5.65	2.00	2.00	0.00
400.00	5.60	68.28	399.55	5.06	12.70	13.67	2.00	2.00	0.00
500.00	7.60	68.28	498.89	9.31	23.38	25.17	2.00	2.00	0.00
600.00	9.60	68.28	597.76	14.84	37.27	40.12	2.00	2.00	0.00
<b>GRRV</b>									
653.07	10.66	68.28	650.00	18.30	45.94	49.45	2.00	2.00	0.00
700.00	11.60	68.28	696.05	21.65	54.36	58.51	2.00	2.00	0.00
800.00	13.60	68.28	793.63	29.72	74.62	80.33	2.00	2.00	0.00
<b>GRRV_A_GROOVE</b>									
806.55	13.73	68.28	800.00	30.30	76.06	81.87	2.00	2.00	0.00
900.00	15.60	68.28	890.40	39.05	98.04	105.53	2.00	2.00	0.00
1,000.00	17.60	68.28	986.23	49.62	124.58	134.10	2.00	2.00	0.00
<b>GRRV_B_GROOVE</b>									
1,014.46	17.89	68.28	1,000.00	51.25	128.68	138.51	2.00	2.00	0.00
<b>Start 6604.14 hold at 1050.49 MD</b>									
1,050.49	18.61	68.28	1,034.21	55.42	139.16	149.79	2.00	2.00	0.00
1,100.00	18.61	68.28	1,081.14	61.27	153.84	165.59	0.00	0.00	0.00
1,200.00	18.61	68.28	1,175.91	73.08	183.48	197.50	0.00	0.00	0.00
<b>13 3/8" Surface Casing</b>									
1,267.63	18.61	68.28	1,240.00	81.06	203.53	219.08	0.00	0.00	0.00
1,300.00	18.61	68.28	1,270.68	84.89	213.13	229.41	0.00	0.00	0.00
<b>GRRV DISSOLUTION_SURF</b>									
1,330.94	18.61	68.28	1,300.00	88.54	222.30	239.29	0.00	0.00	0.00
1,400.00	18.61	68.28	1,365.45	96.70	242.78	261.32	0.00	0.00	0.00
1,500.00	18.61	68.28	1,460.22	108.50	272.42	293.24	0.00	0.00	0.00
1,600.00	18.61	68.28	1,554.99	120.31	302.07	325.15	0.00	0.00	0.00
1,700.00	18.61	68.28	1,649.77	132.12	331.72	357.06	0.00	0.00	0.00
1,800.00	18.61	68.28	1,744.54	143.93	361.37	388.97	0.00	0.00	0.00
1,900.00	18.61	68.28	1,839.31	155.74	391.01	420.89	0.00	0.00	0.00
2,000.00	18.61	68.28	1,934.08	167.54	420.66	452.80	0.00	0.00	0.00
2,100.00	18.61	68.28	2,028.85	179.35	450.31	484.71	0.00	0.00	0.00
2,200.00	18.61	68.28	2,123.62	191.16	479.95	516.62	0.00	0.00	0.00
<b>GARDEN_GULCH</b>									
2,280.59	18.61	68.28	2,200.00	200.68	503.85	542.34	0.00	0.00	0.00
2,300.00	18.61	68.28	2,218.39	202.97	509.60	548.53	0.00	0.00	0.00
2,400.00	18.61	68.28	2,313.17	214.78	539.25	580.45	0.00	0.00	0.00
<b>GRRV_ORANGE</b>									
2,449.42	18.61	68.28	2,360.00	220.61	553.90	596.22	0.00	0.00	0.00
2,500.00	18.61	68.28	2,407.94	226.58	568.89	612.36	0.00	0.00	0.00
<b>U_WSCH</b>									
2,533.83	18.61	68.28	2,440.00	230.58	578.93	623.15	0.00	0.00	0.00
2,600.00	18.61	68.28	2,502.71	238.39	598.54	644.27	0.00	0.00	0.00
2,700.00	18.61	68.28	2,597.48	250.20	628.19	676.18	0.00	0.00	0.00
2,800.00	18.61	68.28	2,692.25	262.01	657.84	708.09	0.00	0.00	0.00
2,900.00	18.61	68.28	2,787.02	273.82	687.48	740.01	0.00	0.00	0.00
3,000.00	18.61	68.28	2,881.79	285.63	717.13	771.92	0.00	0.00	0.00

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<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Site:</b>	RGU 23-6-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RGU 442-6-297	<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>9 5/8" Intermediate Casing</b>									
3,061.42	18.61	68.28	2,940.00	292.88	735.34	791.52	0.00	0.00	0.00
3,100.00	18.61	68.28	2,976.56	297.43	746.78	803.83	0.00	0.00	0.00
3,200.00	18.61	68.28	3,071.34	309.24	776.42	835.74	0.00	0.00	0.00
3,300.00	18.61	68.28	3,166.11	321.05	806.07	867.65	0.00	0.00	0.00
3,400.00	18.61	68.28	3,260.88	332.86	835.72	899.57	0.00	0.00	0.00
3,500.00	18.61	68.28	3,355.65	344.67	865.37	931.48	0.00	0.00	0.00
3,600.00	18.61	68.28	3,450.42	356.47	895.01	963.39	0.00	0.00	0.00
3,700.00	18.61	68.28	3,545.19	368.28	924.66	995.30	0.00	0.00	0.00
3,800.00	18.61	68.28	3,639.96	380.09	954.31	1,027.21	0.00	0.00	0.00
3,900.00	18.61	68.28	3,734.74	391.90	983.95	1,059.13	0.00	0.00	0.00
4,000.00	18.61	68.28	3,829.51	403.71	1,013.60	1,091.04	0.00	0.00	0.00
4,100.00	18.61	68.28	3,924.28	415.51	1,043.25	1,122.95	0.00	0.00	0.00
4,200.00	18.61	68.28	4,019.05	427.32	1,072.90	1,154.86	0.00	0.00	0.00
4,300.00	18.61	68.28	4,113.82	439.13	1,102.54	1,186.78	0.00	0.00	0.00
4,400.00	18.61	68.28	4,208.59	450.94	1,132.19	1,218.69	0.00	0.00	0.00
4,500.00	18.61	68.28	4,303.36	462.75	1,161.84	1,250.60	0.00	0.00	0.00
4,600.00	18.61	68.28	4,398.14	474.56	1,191.48	1,282.51	0.00	0.00	0.00
4,700.00	18.61	68.28	4,492.91	486.36	1,221.13	1,314.42	0.00	0.00	0.00
4,800.00	18.61	68.28	4,587.68	498.17	1,250.78	1,346.34	0.00	0.00	0.00
4,900.00	18.61	68.28	4,682.45	509.98	1,280.42	1,378.25	0.00	0.00	0.00
5,000.00	18.61	68.28	4,777.22	521.79	1,310.07	1,410.16	0.00	0.00	0.00
5,100.00	18.61	68.28	4,871.99	533.60	1,339.72	1,442.07	0.00	0.00	0.00
5,200.00	18.61	68.28	4,966.76	545.40	1,369.37	1,473.98	0.00	0.00	0.00
<b>G_SAND</b>									
5,287.83	18.61	68.28	5,050.00	555.77	1,395.40	1,502.01	0.00	0.00	0.00
5,300.00	18.61	68.28	5,061.54	557.21	1,399.01	1,505.90	0.00	0.00	0.00
5,400.00	18.61	68.28	5,156.31	569.02	1,428.66	1,537.81	0.00	0.00	0.00
5,500.00	18.61	68.28	5,251.08	580.83	1,458.31	1,569.72	0.00	0.00	0.00
<b>FRUN</b>									
5,562.17	18.61	68.28	5,310.00	588.17	1,476.74	1,589.56	0.00	0.00	0.00
5,600.00	18.61	68.28	5,345.85	592.64	1,487.95	1,601.63	0.00	0.00	0.00
5,700.00	18.61	68.28	5,440.62	604.44	1,517.60	1,633.54	0.00	0.00	0.00
5,800.00	18.61	68.28	5,535.39	616.25	1,547.25	1,665.46	0.00	0.00	0.00
5,900.00	18.61	68.28	5,630.16	628.06	1,576.90	1,697.37	0.00	0.00	0.00
6,000.00	18.61	68.28	5,724.94	639.87	1,606.54	1,729.28	0.00	0.00	0.00
6,100.00	18.61	68.28	5,819.71	651.68	1,636.19	1,761.19	0.00	0.00	0.00
6,200.00	18.61	68.28	5,914.48	663.49	1,665.84	1,793.10	0.00	0.00	0.00
6,300.00	18.61	68.28	6,009.25	675.29	1,695.48	1,825.02	0.00	0.00	0.00
<b>L_WSCH</b>									
6,395.76	18.61	68.28	6,100.00	686.60	1,723.87	1,855.58	0.00	0.00	0.00
6,400.00	18.61	68.28	6,104.02	687.10	1,725.13	1,856.93	0.00	0.00	0.00
6,500.00	18.61	68.28	6,198.79	698.91	1,754.78	1,888.84	0.00	0.00	0.00
6,600.00	18.61	68.28	6,293.56	710.72	1,784.43	1,920.75	0.00	0.00	0.00
6,700.00	18.61	68.28	6,388.34	722.53	1,814.07	1,952.67	0.00	0.00	0.00
6,800.00	18.61	68.28	6,483.11	734.33	1,843.72	1,984.58	0.00	0.00	0.00
6,900.00	18.61	68.28	6,577.88	746.14	1,873.37	2,016.49	0.00	0.00	0.00
7,000.00	18.61	68.28	6,672.65	757.95	1,903.01	2,048.40	0.00	0.00	0.00
7,100.00	18.61	68.28	6,767.42	769.76	1,932.66	2,080.31	0.00	0.00	0.00
7,200.00	18.61	68.28	6,862.19	781.57	1,962.31	2,112.23	0.00	0.00	0.00
7,300.00	18.61	68.28	6,956.96	793.37	1,991.95	2,144.14	0.00	0.00	0.00
<b>OCRK</b>									
7,336.97	18.61	68.28	6,992.00	797.74	2,002.92	2,155.94	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RGU 442-6-297 - Slot RGU 442-6-297
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Site:</b>	RGU 23-6-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RGU 442-6-297	<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)	
7,400.00	18.61	68.28	7,051.74	805.18	2,021.60	2,176.05	0.00	0.00	0.00	
7,500.00	18.61	68.28	7,146.51	816.99	2,051.25	2,207.96	0.00	0.00	0.00	
7,600.00	18.61	68.28	7,241.28	828.80	2,080.90	2,239.87	0.00	0.00	0.00	
<b>Start Drop -1.50</b>										
7,654.63	18.61	68.28	7,293.05	835.25	2,097.09	2,257.31	0.00	0.00	0.00	
7,700.00	17.93	68.28	7,336.13	840.51	2,110.31	2,271.53	1.50	-1.50	0.00	
7,800.00	16.43	68.28	7,431.67	851.44	2,137.74	2,301.07	1.50	-1.50	0.00	
7,900.00	14.93	68.28	7,527.95	861.44	2,162.85	2,328.09	1.50	-1.50	0.00	
8,000.00	13.43	68.28	7,624.90	870.50	2,185.61	2,352.58	1.50	-1.50	0.00	
<b>U_MVRD</b>										
8,089.31	12.09	68.28	7,712.00	877.80	2,203.93	2,372.31	1.50	-1.50	0.00	
8,100.00	11.93	68.28	7,722.46	878.63	2,206.00	2,374.53	1.50	-1.50	0.00	
8,200.00	10.43	68.28	7,820.56	885.80	2,224.01	2,393.92	1.50	-1.50	0.00	
8,300.00	8.93	68.28	7,919.13	892.02	2,239.63	2,410.73	1.50	-1.50	0.00	
8,400.00	7.43	68.28	8,018.11	897.28	2,252.84	2,424.96	1.50	-1.50	0.00	
8,500.00	5.93	68.28	8,117.43	901.59	2,263.65	2,436.59	1.50	-1.50	0.00	
8,600.00	4.43	68.28	8,217.02	904.93	2,272.04	2,445.62	1.50	-1.50	0.00	
8,700.00	2.93	68.28	8,316.81	907.30	2,278.00	2,452.03	1.50	-1.50	0.00	
8,800.00	1.43	68.28	8,416.73	908.71	2,281.53	2,455.84	1.50	-1.50	0.00	
<b>Start 3780.00 hold at 8895.28 MD - TOP GAS</b>										
8,895.28	0.00	0.00	8,512.00	909.15	2,282.63	2,457.02	1.50	-1.50	0.00	
8,900.00	0.00	0.00	8,516.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,616.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,716.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,200.00	0.00	0.00	8,816.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,300.00	0.00	0.00	8,916.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,016.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,116.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,216.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,316.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,416.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,516.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,616.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,716.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,200.00	0.00	0.00	9,816.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,300.00	0.00	0.00	9,916.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,016.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
<b>CME0</b>										
10,465.28	0.00	0.00	10,082.00	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,116.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,216.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,316.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,416.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,516.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,616.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
11,100.00	0.00	0.00	10,716.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
<b>RLNS</b>										
11,195.28	0.00	0.00	10,812.00	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
11,200.00	0.00	0.00	10,816.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
11,300.00	0.00	0.00	10,916.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
<b>CZTT</b>										
11,345.28	0.00	0.00	10,962.00	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,016.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RGU 442-6-297 - Slot RGU 442-6-297
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Site:</b>	RGU 23-6-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RGU 442-6-297	<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)	
11,500.00	0.00	0.00	11,116.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,216.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
<b>CRCN</b>										
11,670.28	0.00	0.00	11,287.00	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,316.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,416.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,516.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
<b>SEGO</b>										
11,930.28	0.00	0.00	11,547.00	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,616.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,716.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
<b>SEGO_LOWER</b>										
12,175.28	0.00	0.00	11,792.00	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,816.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
12,300.00	0.00	0.00	11,916.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
12,400.00	0.00	0.00	12,016.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
12,500.00	0.00	0.00	12,116.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
12,600.00	0.00	0.00	12,216.72	909.15	2,282.63	2,457.02	0.00	0.00	0.00	
<b>TD at 12675.28 - TD</b>										
12,675.28	0.00	0.00	12,292.00	909.15	2,282.63	2,457.02	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	
RGU 442-6-297 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	8,512.00	909.15	2,282.63	1,767,659.52	2,209,753.70	39.907400	-108.317218	
RGU 442-6-297 - PBHL - plan hits target center - Point	0.00	0.00	12,292.00	909.15	2,282.63	1,767,659.52	2,209,753.70	39.907400	-108.317218	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name			Casing Diameter (")	Hole Diameter (")
1,267.63	1,240.00	13 3/8" Surface Casing			13-3/8	17-1/2
3,061.42	2,940.00	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 RGU 442-6-297 - Slot RGU 442-6-297
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6252.00usft (H&P #329)
<b>Site:</b>	RGU 23-6-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RGU 442-6-297	<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				
653.07	650.00	GRRV				
806.55	800.00	GRRV_A_GROOVE				
1,014.46	1,000.00	GRRV_B_GROOVE				
1,330.94	1,300.00	GRRV DISSOLUTION_SURF				
2,280.59	2,200.00	GARDEN_GULCH				
2,449.42	2,360.00	GRRV_ORANGE				
2,533.83	2,440.00	U__WSCH				
5,287.83	5,050.00	G_SAND				
5,562.17	5,310.00	FRUN				
6,395.76	6,100.00	L__WSCH				
7,336.97	6,992.00	OCRK				
8,089.31	7,712.00	U__MVRD				
8,895.28	8,512.00	TOP GAS				
10,465.28	10,082.00	CMEO				
11,195.28	10,812.00	RLNS				
11,345.28	10,962.00	CZZT				
11,670.28	11,287.00	CRCN				
11,930.28	11,547.00	SEGO				
12,175.28	11,792.00	SEGO_LOWER				
12,675.28	12,292.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
120.00	120.00	0.00	0.00	Start Build 2.00	
1,050.49	1,034.21	55.42	139.16	Start 6604.14 hold at 1050.49 MD	
7,654.63	7,293.05	835.25	2,097.09	Start Drop -1.50	
8,895.28	8,512.00	909.15	2,282.63	Start 3780.00 hold at 8895.28 MD	
12,675.28	12,292.00	909.15	2,282.63	TD at 12675.28	