



Project: Rio Blanco County, CO  
 Site: RGU 23-6-297 Pad  
 Well: RGU 444-6-297  
 Wellbore: Wellbore #1  
 Design: Plan 1  
 Latitude: 39.904720  
 Longitude: -108.325360  
 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 444-6-297 - VP	8442.00	-1857.59	2246.14	1764827.88	2209627.34	39.899620	-108.317355	Circle (Radius: 100.00)
RGU 444-6-297 - PBHL	12222.00	-1857.59	2246.14	1764827.88	2209627.34	39.899620	-108.317355	Point

**REFERENCE INFORMATION**  
 Co-ordinate (N/E) Reference: Well RGU 444-6-297 - Slot RGU 444-6-297, True North  
 Vertical (TVD) Reference: KB=30' @ 6252.00usft (H&P #329)  
 Section (VS) Reference: Slot - RGU 444-6-297(0.00N, 0.00E)  
 Measured Depth Reference: KB=30' @ 6252.00usft (H&P #329)  
 Calculation Method: Minimum Curvature

**ANNOTATIONS**

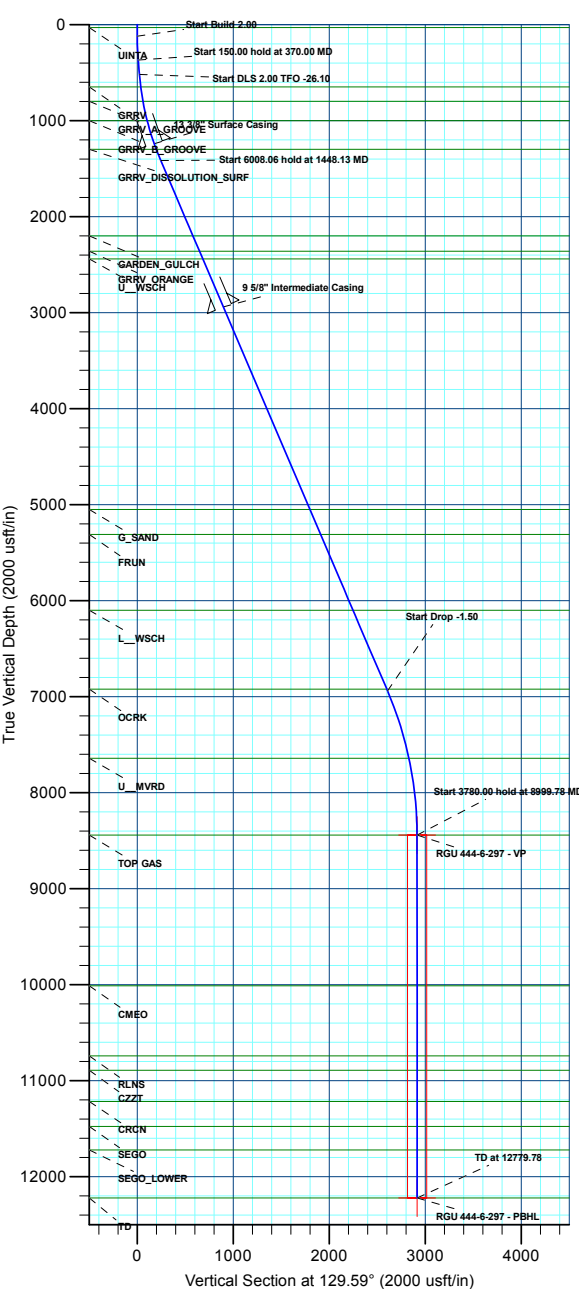
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 2.00
370.00	5.00	150.00	369.68	-9.44	5.45	10.22	10.90	Start 150.00 hold at 370.00 MD
520.00	5.00	150.00	519.11	-20.76	11.99	22.47	23.97	Start DLS 2.00 TFO -26.10
1448.13	23.15	129.14	1415.95	-172.29	175.17	244.79	247.26	Start 6008.06 hold at 1448.13 MD
7456.19	23.15	129.14	6940.08	-1663.40	2007.50	2607.09	2609.64	Start Drop -1.50
8999.78	0.00	0.00	8442.00	-1857.59	2246.14	2914.75	2917.31	Start 3780.00 hold at 8999.78 MD
12779.78	0.00	0.00	12222.00	-1857.59	2246.14	2914.75	2917.31	TD at 12779.78

**WELL DETAILS: RGU 444-6-297**

+N/-S	+E/-W	Northing	Ground Elev.	6222.00	Latitude	Longitude	Slot
0.00	0.00	1766754.42	2207440.05	39.904720	-108.325360	RGU 444-6-297	

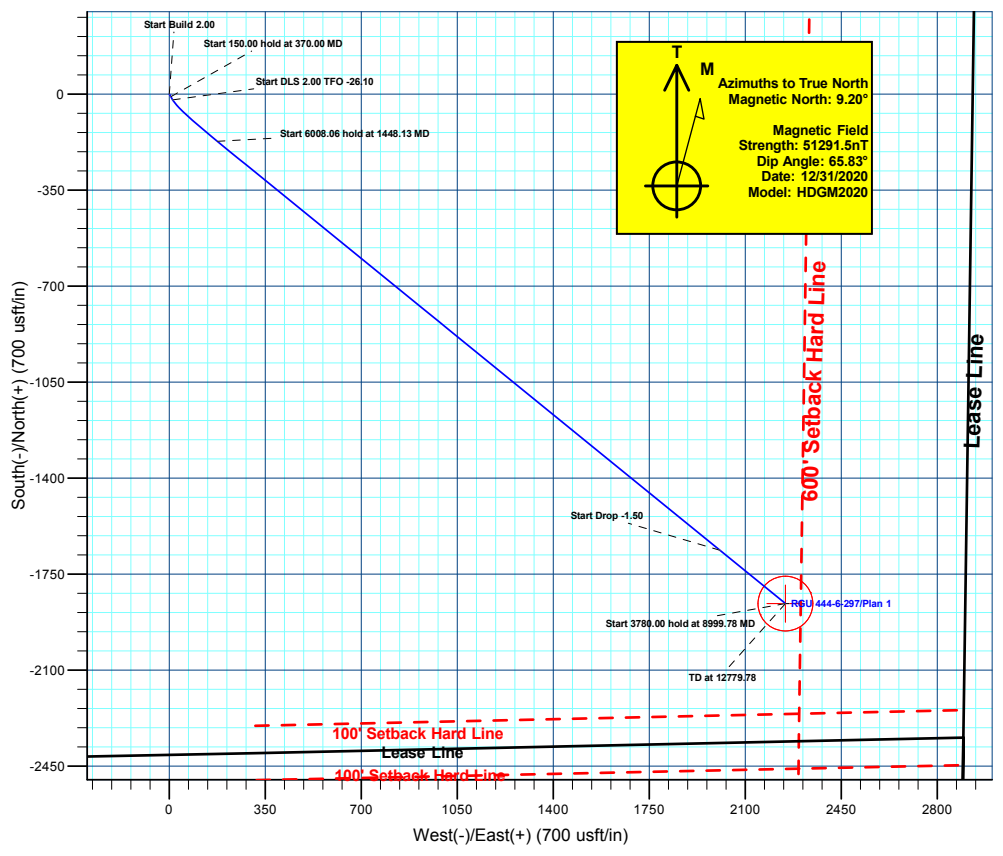
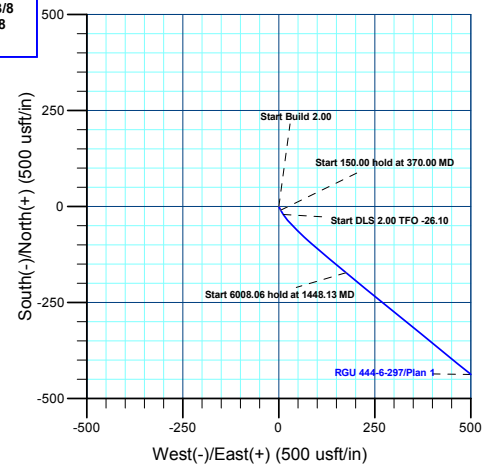
**CASING DETAILS**

TVD	MD	Name	Size
1240.00	1259.27	13 3/8" Surface Casing	13-3/8
2940.00	3105.69	9 5/8" Intermediate Casing	9-5/8



**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
30.00	30.00	UINTA
650.00	651.67	GRRV
800.00	803.52	GRRV_A_GROOVE
1000.00	1008.35	GRRV_B_GROOVE
1300.00	1323.14	GRRV_DISOLUTION_SURF
2200.00	2300.86	GARDEN_GULCH
2360.00	2474.88	GRRV_ORANGE
2440.00	2561.89	U_WSCH
5050.00	5400.53	G_SAND
5310.00	5683.31	FRUN
6100.00	6542.52	L_WSCH
6922.00	7436.53	OCRK
7642.00	8193.81	U_MVRD
8442.00	8999.78	TOP GAS
10012.00	10569.78	CMEO
10742.00	11299.78	RLNS
10892.00	11449.78	CZTZ
11217.00	11774.78	CRCN
11477.00	12034.78	SEGO
11722.00	12279.78	SEGO_LOWER
12222.00	12779.78	TD



**Compass Rose and Magnetic Data:**

- T: True North
- M: Magnetic North
- Azimuths to True North: 9.20°
- Magnetic North: 9.20°
- Magnetic Field Strength: 51291.5nT
- Dip Angle: 65.83°
- Date: 12/31/2020
- Model: HDGM2020



## **Terra Energy Partners, LLP**

**Rio Blanco County, CO**

**RGU 23-6-297 Pad**

**RGU 444-6-297 - Slot RGU 444-6-297**

**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 444-6-297 - Slot RGU 444-6-297
<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 444-6-297	<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 444-6-297 - Slot RGU 444-6-297					
<b>Well Position</b>	<b>+N/-S</b>	-90.21 usft	<b>Northing:</b>	1,766,754.42 usft	<b>Latitude:</b>	39.904720
	<b>+E/-W</b>	7.65 usft	<b>Easting:</b>	2,207,440.05 usft	<b>Longitude:</b>	-108.325361
<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	129.59

<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	150.00	369.68	-9.44	5.45	2.00	2.00	0.00	150.00	
520.00	5.00	150.00	519.11	-20.76	11.99	0.00	0.00	0.00	0.00	
1,448.13	23.15	129.14	1,415.95	-172.29	175.17	2.00	1.96	-2.25	-26.10	
7,456.19	23.15	129.14	6,940.08	-1,663.40	2,007.50	0.00	0.00	0.00	0.00	
8,999.78	0.00	0.00	8,442.00	-1,857.59	2,246.14	1.50	-1.50	0.00	180.00	RGU 444-6-297 - VP
12,779.78	0.00	0.00	12,222.00	-1,857.59	2,246.14	0.00	0.00	0.00	0.00	RGU 444-6-297 - PBt

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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 444-6-297	<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	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	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
200.00	1.60	150.00	199.99	-0.97	0.56	1.05	2.00	2.00	0.00	0.00
300.00	3.60	150.00	299.88	-4.90	2.83	5.30	2.00	2.00	0.00	0.00
<b>Start 150.00 hold at 370.00 MD</b>										
370.00	5.00	150.00	369.68	-9.44	5.45	10.22	2.00	2.00	0.00	0.00
400.00	5.00	150.00	399.57	-11.71	6.76	12.67	0.00	0.00	0.00	0.00
500.00	5.00	150.00	499.19	-19.25	11.12	20.84	0.00	0.00	0.00	0.00
<b>Start DLS 2.00 TFO -26.10</b>										
520.00	5.00	150.00	519.11	-20.76	11.99	22.47	0.00	0.00	0.00	0.00
600.00	6.48	143.75	598.71	-27.42	16.40	30.11	2.00	1.84	-7.82	
<b>GRRV</b>										
651.67	7.46	141.04	650.00	-32.38	20.23	36.22	2.00	1.90	-5.24	
700.00	8.38	139.08	697.87	-37.48	24.51	42.77	2.00	1.92	-4.05	
800.00	10.33	136.15	796.53	-49.45	35.49	58.87	2.00	1.94	-2.93	
<b>GRRV_A_GROOVE</b>										
803.53	10.40	136.06	800.00	-49.91	35.93	59.50	2.00	1.95	-2.37	
900.00	12.29	134.14	894.59	-63.32	49.34	78.38	2.00	1.96	-2.00	
1,000.00	14.26	132.67	991.91	-79.08	66.04	101.29	2.00	1.97	-1.46	
<b>GRRV_B_GROOVE</b>										
1,008.35	14.42	132.57	1,000.00	-80.48	67.56	103.35	2.00	1.98	-1.25	
1,100.00	16.24	131.56	1,088.39	-96.71	85.55	127.56	2.00	1.98	-1.10	
1,200.00	18.22	130.68	1,183.89	-116.18	107.87	157.17	2.00	1.98	-0.88	
<b>13 3/8" Surface Casing</b>										
1,259.27	19.40	130.25	1,240.00	-128.58	122.41	176.28	2.00	1.99	-0.74	
1,300.00	20.21	129.97	1,278.32	-137.47	132.97	190.07	2.00	1.99	-0.67	
<b>GRRV DISSOLUTION SURF</b>										
1,323.14	20.67	129.83	1,300.00	-142.65	139.17	198.15	2.00	1.99	-0.63	
1,400.00	22.20	129.39	1,371.55	-160.55	160.80	226.24	2.00	1.99	-0.57	
<b>Start 6008.06 hold at 1448.13 MD</b>										
1,448.13	23.15	129.14	1,415.95	-172.29	175.17	244.79	2.00	1.99	-0.52	
1,500.00	23.15	129.14	1,463.65	-185.16	190.99	265.19	0.00	0.00	0.00	
1,600.00	23.15	129.14	1,555.59	-209.98	221.49	304.50	0.00	0.00	0.00	
1,700.00	23.15	129.14	1,647.54	-234.80	251.99	343.82	0.00	0.00	0.00	
1,800.00	23.15	129.14	1,739.48	-259.62	282.48	383.14	0.00	0.00	0.00	
1,900.00	23.15	129.14	1,831.43	-284.44	312.98	422.46	0.00	0.00	0.00	
2,000.00	23.15	129.14	1,923.37	-309.26	343.48	461.78	0.00	0.00	0.00	
2,100.00	23.15	129.14	2,015.32	-334.08	373.98	501.10	0.00	0.00	0.00	
2,200.00	23.15	129.14	2,107.26	-358.89	404.47	540.42	0.00	0.00	0.00	
2,300.00	23.15	129.14	2,199.21	-383.71	434.97	579.74	0.00	0.00	0.00	
<b>GARDEN_GULCH</b>										
2,300.86	23.15	129.14	2,200.00	-383.93	435.24	580.07	0.00	0.00	0.00	
2,400.00	23.15	129.14	2,291.15	-408.53	465.47	619.06	0.00	0.00	0.00	
<b>GRRV_ORANGE</b>										
2,474.88	23.15	129.14	2,360.00	-427.11	488.31	648.50	0.00	0.00	0.00	
2,500.00	23.15	129.14	2,383.10	-433.35	495.97	658.37	0.00	0.00	0.00	
<b>U_WSCH</b>										
2,561.89	23.15	129.14	2,440.00	-448.71	514.84	682.71	0.00	0.00	0.00	
2,600.00	23.15	129.14	2,475.04	-458.17	526.47	697.69	0.00	0.00	0.00	

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<b>Site:</b>	RGU 23-6-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RGU 444-6-297	<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)	
2,700.00	23.15	129.14	2,566.99	-482.99	556.96	737.01	0.00	0.00	0.00	
2,800.00	23.15	129.14	2,658.94	-507.80	587.46	776.33	0.00	0.00	0.00	
2,900.00	23.15	129.14	2,750.88	-532.62	617.96	815.65	0.00	0.00	0.00	
3,000.00	23.15	129.14	2,842.83	-557.44	648.46	854.97	0.00	0.00	0.00	
3,100.00	23.15	129.14	2,934.77	-582.26	678.96	894.29	0.00	0.00	0.00	
<b>9 5/8" Intermediate Casing</b>										
3,105.69	23.15	129.14	2,940.00	-583.67	680.69	896.52	0.00	0.00	0.00	
3,200.00	23.15	129.14	3,026.72	-607.08	709.45	933.61	0.00	0.00	0.00	
3,300.00	23.15	129.14	3,118.66	-631.90	739.95	972.93	0.00	0.00	0.00	
3,400.00	23.15	129.14	3,210.61	-656.71	770.45	1,012.24	0.00	0.00	0.00	
3,500.00	23.15	129.14	3,302.55	-681.53	800.95	1,051.56	0.00	0.00	0.00	
3,600.00	23.15	129.14	3,394.50	-706.35	831.44	1,090.88	0.00	0.00	0.00	
3,700.00	23.15	129.14	3,486.44	-731.17	861.94	1,130.20	0.00	0.00	0.00	
3,800.00	23.15	129.14	3,578.39	-755.99	892.44	1,169.52	0.00	0.00	0.00	
3,900.00	23.15	129.14	3,670.33	-780.81	922.94	1,208.84	0.00	0.00	0.00	
4,000.00	23.15	129.14	3,762.28	-805.62	953.44	1,248.16	0.00	0.00	0.00	
4,100.00	23.15	129.14	3,854.22	-830.44	983.93	1,287.48	0.00	0.00	0.00	
4,200.00	23.15	129.14	3,946.17	-855.26	1,014.43	1,326.80	0.00	0.00	0.00	
4,300.00	23.15	129.14	4,038.11	-880.08	1,044.93	1,366.11	0.00	0.00	0.00	
4,400.00	23.15	129.14	4,130.06	-904.90	1,075.43	1,405.43	0.00	0.00	0.00	
4,500.00	23.15	129.14	4,222.00	-929.72	1,105.93	1,444.75	0.00	0.00	0.00	
4,600.00	23.15	129.14	4,313.95	-954.54	1,136.42	1,484.07	0.00	0.00	0.00	
4,700.00	23.15	129.14	4,405.89	-979.35	1,166.92	1,523.39	0.00	0.00	0.00	
4,800.00	23.15	129.14	4,497.84	-1,004.17	1,197.42	1,562.71	0.00	0.00	0.00	
4,900.00	23.15	129.14	4,589.79	-1,028.99	1,227.92	1,602.03	0.00	0.00	0.00	
5,000.00	23.15	129.14	4,681.73	-1,053.81	1,258.42	1,641.35	0.00	0.00	0.00	
5,100.00	23.15	129.14	4,773.68	-1,078.63	1,288.91	1,680.67	0.00	0.00	0.00	
5,200.00	23.15	129.14	4,865.62	-1,103.45	1,319.41	1,719.98	0.00	0.00	0.00	
5,300.00	23.15	129.14	4,957.57	-1,128.26	1,349.91	1,759.30	0.00	0.00	0.00	
5,400.00	23.15	129.14	5,049.51	-1,153.08	1,380.41	1,798.62	0.00	0.00	0.00	
<b>G_SAND</b>										
5,400.53	23.15	129.14	5,050.00	-1,153.21	1,380.57	1,798.83	0.00	0.00	0.00	
5,500.00	23.15	129.14	5,141.46	-1,177.90	1,410.90	1,837.94	0.00	0.00	0.00	
5,600.00	23.15	129.14	5,233.40	-1,202.72	1,441.40	1,877.26	0.00	0.00	0.00	
<b>FRUN</b>										
5,683.31	23.15	129.14	5,310.00	-1,223.40	1,466.81	1,910.02	0.00	0.00	0.00	
5,700.00	23.15	129.14	5,325.35	-1,227.54	1,471.90	1,916.58	0.00	0.00	0.00	
5,800.00	23.15	129.14	5,417.29	-1,252.36	1,502.40	1,955.90	0.00	0.00	0.00	
5,900.00	23.15	129.14	5,509.24	-1,277.17	1,532.90	1,995.22	0.00	0.00	0.00	
6,000.00	23.15	129.14	5,601.18	-1,301.99	1,563.39	2,034.54	0.00	0.00	0.00	
6,100.00	23.15	129.14	5,693.13	-1,326.81	1,593.89	2,073.86	0.00	0.00	0.00	
6,200.00	23.15	129.14	5,785.07	-1,351.63	1,624.39	2,113.17	0.00	0.00	0.00	
6,300.00	23.15	129.14	5,877.02	-1,376.45	1,654.89	2,152.49	0.00	0.00	0.00	
6,400.00	23.15	129.14	5,968.96	-1,401.27	1,685.39	2,191.81	0.00	0.00	0.00	
6,500.00	23.15	129.14	6,060.91	-1,426.08	1,715.88	2,231.13	0.00	0.00	0.00	
<b>L_WSCH</b>										
6,542.52	23.15	129.14	6,100.00	-1,436.64	1,728.85	2,247.85	0.00	0.00	0.00	
6,600.00	23.15	129.14	6,152.85	-1,450.90	1,746.38	2,270.45	0.00	0.00	0.00	
6,700.00	23.15	129.14	6,244.80	-1,475.72	1,776.88	2,309.77	0.00	0.00	0.00	
6,800.00	23.15	129.14	6,336.74	-1,500.54	1,807.38	2,349.09	0.00	0.00	0.00	
6,900.00	23.15	129.14	6,428.69	-1,525.36	1,837.87	2,388.41	0.00	0.00	0.00	
7,000.00	23.15	129.14	6,520.64	-1,550.18	1,868.37	2,427.73	0.00	0.00	0.00	
7,100.00	23.15	129.14	6,612.58	-1,575.00	1,898.87	2,467.04	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RGU 444-6-297 - Slot RGU 444-6-297
<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 444-6-297	<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)
7,200.00	23.15	129.14	6,704.53	-1,599.81	1,929.37	2,506.36	0.00	0.00	0.00
7,300.00	23.15	129.14	6,796.47	-1,624.63	1,959.87	2,545.68	0.00	0.00	0.00
7,400.00	23.15	129.14	6,888.42	-1,649.45	1,990.36	2,585.00	0.00	0.00	0.00
<b>OCRK</b>									
7,436.53	23.15	129.14	6,922.00	-1,658.52	2,001.50	2,599.36	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
7,456.19	23.15	129.14	6,940.08	-1,663.40	2,007.50	2,607.09	0.00	0.00	0.00
7,500.00	22.50	129.14	6,980.46	-1,674.12	2,020.68	2,624.09	1.50	-1.50	0.00
7,600.00	21.00	129.14	7,073.34	-1,697.51	2,049.42	2,661.14	1.50	-1.50	0.00
7,700.00	19.50	129.14	7,167.16	-1,719.35	2,076.26	2,695.74	1.50	-1.50	0.00
7,800.00	18.00	129.14	7,261.85	-1,739.64	2,101.19	2,727.88	1.50	-1.50	0.00
7,900.00	16.50	129.14	7,357.35	-1,758.35	2,124.18	2,757.52	1.50	-1.50	0.00
8,000.00	15.00	129.14	7,453.60	-1,775.48	2,145.23	2,784.66	1.50	-1.50	0.00
8,100.00	13.50	129.14	7,550.52	-1,791.01	2,164.32	2,809.27	1.50	-1.50	0.00
<b>U_MVRD</b>									
8,193.81	12.09	129.14	7,642.00	-1,804.12	2,180.43	2,830.04	1.50	-1.50	0.00
8,200.00	12.00	129.14	7,648.05	-1,804.94	2,181.43	2,831.33	1.50	-1.50	0.00
8,300.00	10.50	129.14	7,746.13	-1,817.25	2,196.56	2,850.83	1.50	-1.50	0.00
8,400.00	9.00	129.14	7,844.68	-1,827.93	2,209.69	2,867.76	1.50	-1.50	0.00
8,500.00	7.50	129.14	7,943.64	-1,836.99	2,220.81	2,882.11	1.50	-1.50	0.00
8,600.00	6.00	129.14	8,042.95	-1,844.40	2,229.93	2,893.85	1.50	-1.50	0.00
8,700.00	4.50	129.14	8,142.53	-1,850.17	2,237.02	2,903.00	1.50	-1.50	0.00
8,800.00	3.00	129.14	8,242.31	-1,854.30	2,242.09	2,909.53	1.50	-1.50	0.00
8,900.00	1.50	129.14	8,342.23	-1,856.77	2,245.13	2,913.45	1.50	-1.50	0.00
<b>Start 3780.00 hold at 8999.78 MD - TOP GAS</b>									
8,999.78	0.00	0.00	8,442.00	-1,857.59	2,246.14	2,914.75	1.50	-1.50	0.00
9,100.00	0.00	0.00	8,542.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
9,200.00	0.00	0.00	8,642.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
9,300.00	0.00	0.00	8,742.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
9,400.00	0.00	0.00	8,842.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
9,500.00	0.00	0.00	8,942.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
9,600.00	0.00	0.00	9,042.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
9,700.00	0.00	0.00	9,142.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
9,800.00	0.00	0.00	9,242.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
9,900.00	0.00	0.00	9,342.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,000.00	0.00	0.00	9,442.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,100.00	0.00	0.00	9,542.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,200.00	0.00	0.00	9,642.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,300.00	0.00	0.00	9,742.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,400.00	0.00	0.00	9,842.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,500.00	0.00	0.00	9,942.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
<b>CME0</b>									
10,569.78	0.00	0.00	10,012.00	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,600.00	0.00	0.00	10,042.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,700.00	0.00	0.00	10,142.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,800.00	0.00	0.00	10,242.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
10,900.00	0.00	0.00	10,342.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
11,000.00	0.00	0.00	10,442.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
11,100.00	0.00	0.00	10,542.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
11,200.00	0.00	0.00	10,642.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
<b>RLNS</b>									
11,299.78	0.00	0.00	10,742.00	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
11,300.00	0.00	0.00	10,742.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RGU 444-6-297 - Slot RGU 444-6-297
<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 444-6-297	<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)
11,400.00	0.00	0.00	10,842.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
<b>CZZT</b>									
11,449.78	0.00	0.00	10,892.00	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
11,500.00	0.00	0.00	10,942.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
11,600.00	0.00	0.00	11,042.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
11,700.00	0.00	0.00	11,142.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
<b>CRCN</b>									
11,774.78	0.00	0.00	11,217.00	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
11,800.00	0.00	0.00	11,242.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
11,900.00	0.00	0.00	11,342.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
12,000.00	0.00	0.00	11,442.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
<b>SEGO</b>									
12,034.78	0.00	0.00	11,477.00	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
12,100.00	0.00	0.00	11,542.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
12,200.00	0.00	0.00	11,642.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
<b>SEGO_LOWER</b>									
12,279.78	0.00	0.00	11,722.00	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
12,300.00	0.00	0.00	11,742.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
12,400.00	0.00	0.00	11,842.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
12,500.00	0.00	0.00	11,942.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
12,600.00	0.00	0.00	12,042.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
12,700.00	0.00	0.00	12,142.22	-1,857.59	2,246.14	2,914.75	0.00	0.00	0.00
<b>TD at 12779.78 - TD</b>									
12,779.78	0.00	0.00	12,222.00	-1,857.59	2,246.14	2,914.75	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
RGU 444-6-297 - VP - hit/miss target - Shape - plan hits target center - Circle (radius 100.00)	0.00	0.00	8,442.00	-1,857.59	2,246.14	1,764,827.88	2,209,627.34	39.899620	-108.317355
RGU 444-6-297 - PBHL - plan hits target center - Point	0.00	0.00	12,222.00	-1,857.59	2,246.14	1,764,827.88	2,209,627.34	39.899620	-108.317355

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,259.27	1,240.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,105.69	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 444-6-297 - Slot RGU 444-6-297
<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 444-6-297	<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				
651.67	650.00	GRRV				
803.53	800.00	GRRV_A_GROOVE				
1,008.35	1,000.00	GRRV_B_GROOVE				
1,323.14	1,300.00	GRRV DISSOLUTION_SURF				
2,300.86	2,200.00	GARDEN_GULCH				
2,474.88	2,360.00	GRRV_ORANGE				
2,561.89	2,440.00	U_WSCH				
5,400.53	5,050.00	G_SAND				
5,683.31	5,310.00	FRUN				
6,542.52	6,100.00	L_WSCH				
7,436.53	6,922.00	OCRK				
8,193.81	7,642.00	U_MVRD				
8,999.78	8,442.00	TOP GAS				
10,569.78	10,012.00	CMEO				
11,299.78	10,742.00	RLNS				
11,449.78	10,892.00	CZZT				
11,774.78	11,217.00	CRCN				
12,034.78	11,477.00	SEGO				
12,279.78	11,722.00	SEGO_LOWER				
12,779.78	12,222.00	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	
370.00	369.68	-9.44	5.45	Start 150.00 hold at 370.00 MD	
520.00	519.11	-20.76	11.99	Start DLS 2.00 TFO -26.10	
1,448.13	1,415.95	-172.29	175.17	Start 6008.06 hold at 1448.13 MD	
7,456.19	6,940.08	-1,663.40	2,007.50	Start Drop -1.50	
8,999.78	8,442.00	-1,857.59	2,246.14	Start 3780.00 hold at 8999.78 MD	
12,779.78	12,222.00	-1,857.59	2,246.14	TD at 12779.78	