

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 543-6-297 - VP	8472.00	-817.26	2259.91	1765889.74	2209674.74	39.902538	-108.317304	Circle (Radius: 100.00)
RGU 543-6-297 - PBHL	12252.00	-817.26	2259.91	1765889.74	2209674.74	39.902538	-108.317304	Point

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well RGU 543-6-297 - Slot RGU 543-6-297, True North
 Vertical (TVD) Reference: KB=30' @ 6252.00usft (H&P #329)
 Section (VS) Reference: Slot - RGU 543-6-297(0.00N, 0.00E)
 Measured Depth Reference: KB=30' @ 6252.00usft (H&P #329)
 Calculation Method: Minimum Curvature

ANNOTATIONS

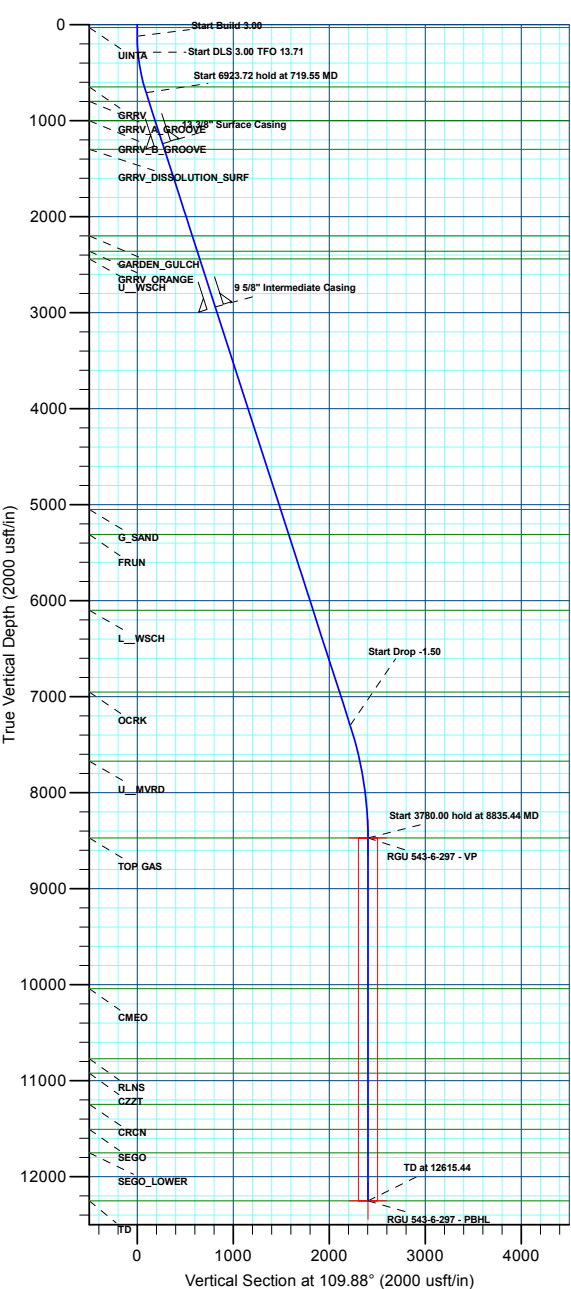
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 3.00
286.67	5.00	100.00	286.46	-1.26	7.16	7.16	7.27	Start DLS 3.00 TFO 13.71
719.55	17.88	109.99	709.87	-27.37	88.54	92.57	92.81	Start 6923.72 hold at 719.55 MD
7643.27	17.88	109.99	7299.10	-754.18	2086.49	2218.61	2218.85	Start Drop -1.50
8835.44	0.00	0.00	8472.00	-817.26	2259.91	2403.14	2403.38	Start 3780.00 hold at 8835.44 MD
12615.44	0.00	0.00	12252.00	-817.26	2259.91	2403.14	2403.38	TD at 12615.44

WELL DETAILS: RGU 543-6-297

+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1766776.88	6222.00 2207441.34	39.904781	-108.325358	RGU 543-6-297

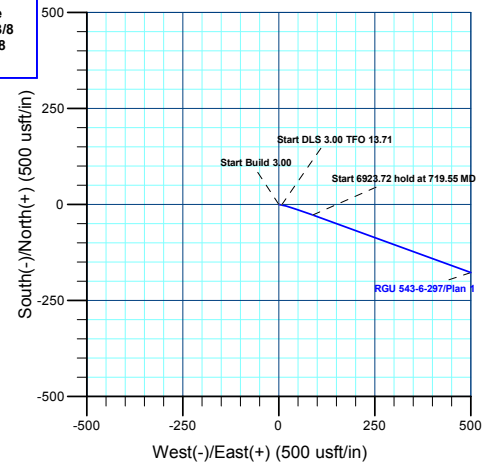
CASING DETAILS

TVD	MD	Name	Size
1240.00	1276.59	13 3/8" Surface Casing	13-3/8
2940.00	3062.89	9 5/8" Intermediate Casing	9-5/8



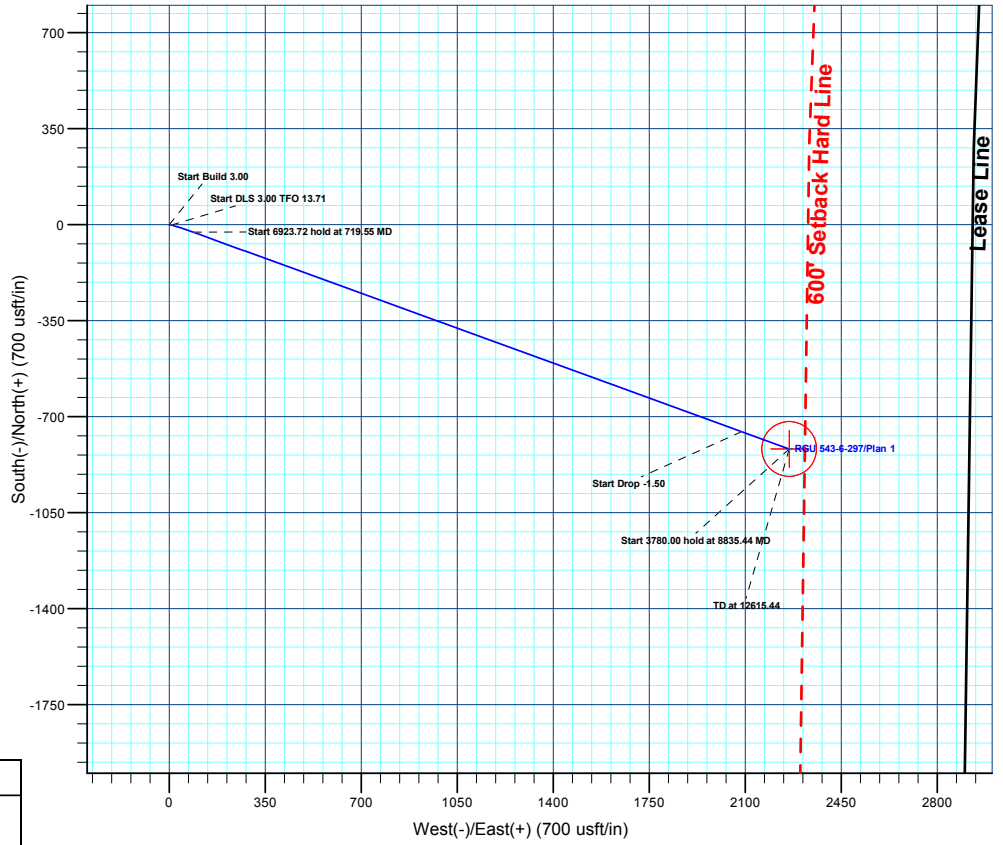
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UINTA
650.00	656.96	GRRV
800.00	814.25	GRRV_A_GROOVE
1000.00	1024.41	GRRV_B_GROOVE
1300.00	1339.64	GRRV_DISSOLUTION_SURF
2200.00	2285.32	GARDEN_GULCH
2360.00	2453.45	GRRV_ORANGE
2440.00	2537.51	U_WSCH
5050.00	5280.00	G_SAND
5310.00	5553.20	FRUN
6100.00	6383.30	L_WSCH
6952.00	7278.55	OCRK
7672.00	8029.47	U_MVRD
8472.00	8835.44	TOP GAS
10042.00	10405.44	CMEO
10772.00	11135.44	RLNS
10922.00	11285.44	CZZT
11247.00	11610.44	CRCN
11507.00	11870.44	SEGO
11752.00	12115.44	SEGO_LOWER
12252.00	12615.44	TD



Compass Rose

T M
 Azimuths to True North
 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 543-6-297 - Slot RGU 543-6-297

Wellbore #1

Plan: Plan 1

KLX Well Planning Report

10 May, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 543-6-297 - Slot RGU 543-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 543-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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

Site	RGU 23-6-297 Pad				
Site Position:	Northing:	1,766,844.82 usft	Latitude:	39.904967	
From: Map	Easting:	2,207,435.21 usft	Longitude:	-108.325388	
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.78 °

Well	RGU 543-6-297 - Slot RGU 543-6-297					
Well Position	+N/-S	-67.72 usft	Northing:	1,766,776.88 usft	Latitude:	39.904781
	+E/-W	8.24 usft	Easting:	2,207,441.34 usft	Longitude:	-108.325359
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,222.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	12/31/2020	9.20	65.83	51,291.50000000

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	109.88

Plan Sections										
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	
286.67	5.00	100.00	286.46	-1.26	7.16	3.00	3.00	0.00	100.00	
719.55	17.88	109.99	709.87	-27.37	88.54	3.00	2.98	2.31	13.71	
7,643.27	17.88	109.99	7,299.10	-754.18	2,086.49	0.00	0.00	0.00	0.00	
8,835.44	0.00	0.00	8,472.00	-817.26	2,259.91	1.50	-1.50	0.00	180.00	RGU 543-6-297 - VP
12,615.44	0.00	0.00	12,252.00	-817.26	2,259.91	0.00	0.00	0.00	0.00	RGU 543-6-297 - PBI

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 543-6-297 - Slot RGU 543-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 543-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
UINTA									
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
Start Build 3.00									
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	2.40	100.00	199.98	-0.29	1.65	1.65	3.00	3.00	0.00
Start DLS 3.00 TFO 13.71									
286.67	5.00	100.00	286.46	-1.26	7.16	7.16	3.00	3.00	0.00
300.00	5.39	101.01	299.73	-1.48	8.34	8.35	3.00	2.92	7.57
400.00	8.34	105.56	399.01	-4.33	19.94	20.23	3.00	2.95	4.55
500.00	11.32	107.74	497.53	-9.26	36.28	37.27	3.00	2.98	2.18
600.00	14.31	109.01	595.03	-16.28	57.32	59.44	3.00	2.99	1.28
GRRV									
656.96	16.01	109.53	650.00	-21.20	71.37	74.33	3.00	2.99	0.91
700.00	17.30	109.86	691.24	-25.36	82.99	86.66	3.00	2.99	0.76
Start 6923.72 hold at 719.55 MD									
719.55	17.88	109.99	709.87	-27.37	88.54	92.57	3.00	2.99	0.68
800.00	17.88	109.99	786.44	-35.82	111.76	117.28	0.00	0.00	0.00
GRRV_A_GROOVE									
814.25	17.88	109.99	800.00	-37.31	115.87	121.65	0.00	0.00	0.00
900.00	17.88	109.99	881.60	-46.31	140.61	147.98	0.00	0.00	0.00
1,000.00	17.88	109.99	976.77	-56.81	169.47	178.69	0.00	0.00	0.00
GRRV_B_GROOVE									
1,024.41	17.88	109.99	1,000.00	-59.37	176.51	186.18	0.00	0.00	0.00
1,100.00	17.88	109.99	1,071.94	-67.31	198.33	209.40	0.00	0.00	0.00
1,200.00	17.88	109.99	1,167.11	-77.80	227.18	240.10	0.00	0.00	0.00
13 3/8" Surface Casing									
1,276.59	17.88	109.99	1,240.00	-85.84	249.28	263.62	0.00	0.00	0.00
1,300.00	17.88	109.99	1,262.28	-88.30	256.04	270.81	0.00	0.00	0.00
GRRV DISSOLUTION SURF									
1,339.64	17.88	109.99	1,300.00	-92.46	267.48	282.98	0.00	0.00	0.00
1,400.00	17.88	109.99	1,357.45	-98.80	284.90	301.51	0.00	0.00	0.00
1,500.00	17.88	109.99	1,452.62	-109.30	313.75	332.22	0.00	0.00	0.00
1,600.00	17.88	109.99	1,547.79	-119.79	342.61	362.93	0.00	0.00	0.00
1,700.00	17.88	109.99	1,642.96	-130.29	371.47	393.63	0.00	0.00	0.00
1,800.00	17.88	109.99	1,738.12	-140.79	400.32	424.34	0.00	0.00	0.00
1,900.00	17.88	109.99	1,833.29	-151.29	429.18	455.05	0.00	0.00	0.00
2,000.00	17.88	109.99	1,928.46	-161.78	458.03	485.75	0.00	0.00	0.00
2,100.00	17.88	109.99	2,023.63	-172.28	486.89	516.46	0.00	0.00	0.00
2,200.00	17.88	109.99	2,118.80	-182.78	515.75	547.17	0.00	0.00	0.00
GARDEN_GULCH									
2,285.32	17.88	109.99	2,200.00	-191.73	540.37	573.37	0.00	0.00	0.00
2,300.00	17.88	109.99	2,213.97	-193.28	544.60	577.87	0.00	0.00	0.00
2,400.00	17.88	109.99	2,309.14	-203.77	573.46	608.58	0.00	0.00	0.00
GRRV_ORANGE									
2,453.45	17.88	109.99	2,360.00	-209.38	588.88	624.99	0.00	0.00	0.00
2,500.00	17.88	109.99	2,404.31	-214.27	602.32	639.29	0.00	0.00	0.00
U_WSCH									
2,537.51	17.88	109.99	2,440.00	-218.21	613.14	650.80	0.00	0.00	0.00
2,600.00	17.88	109.99	2,499.47	-224.77	631.17	669.99	0.00	0.00	0.00
2,700.00	17.88	109.99	2,594.64	-235.26	660.03	700.70	0.00	0.00	0.00

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Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 543-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	17.88	109.99	2,689.81	-245.76	688.89	731.41	0.00	0.00	0.00	
2,900.00	17.88	109.99	2,784.98	-256.26	717.74	762.11	0.00	0.00	0.00	
3,000.00	17.88	109.99	2,880.15	-266.76	746.60	792.82	0.00	0.00	0.00	
9 5/8" Intermediate Casing										
3,062.89	17.88	109.99	2,940.00	-273.36	764.75	812.13	0.00	0.00	0.00	
3,100.00	17.88	109.99	2,975.32	-277.25	775.46	823.53	0.00	0.00	0.00	
3,200.00	17.88	109.99	3,070.49	-287.75	804.31	854.23	0.00	0.00	0.00	
3,300.00	17.88	109.99	3,165.66	-298.25	833.17	884.94	0.00	0.00	0.00	
3,400.00	17.88	109.99	3,260.83	-308.75	862.03	915.65	0.00	0.00	0.00	
3,500.00	17.88	109.99	3,355.99	-319.24	890.88	946.35	0.00	0.00	0.00	
3,600.00	17.88	109.99	3,451.16	-329.74	919.74	977.06	0.00	0.00	0.00	
3,700.00	17.88	109.99	3,546.33	-340.24	948.60	1,007.76	0.00	0.00	0.00	
3,800.00	17.88	109.99	3,641.50	-350.74	977.45	1,038.47	0.00	0.00	0.00	
3,900.00	17.88	109.99	3,736.67	-361.23	1,006.31	1,069.18	0.00	0.00	0.00	
4,000.00	17.88	109.99	3,831.84	-371.73	1,035.17	1,099.88	0.00	0.00	0.00	
4,100.00	17.88	109.99	3,927.01	-382.23	1,064.02	1,130.59	0.00	0.00	0.00	
4,200.00	17.88	109.99	4,022.18	-392.73	1,092.88	1,161.30	0.00	0.00	0.00	
4,300.00	17.88	109.99	4,117.34	-403.22	1,121.74	1,192.00	0.00	0.00	0.00	
4,400.00	17.88	109.99	4,212.51	-413.72	1,150.59	1,222.71	0.00	0.00	0.00	
4,500.00	17.88	109.99	4,307.68	-424.22	1,179.45	1,253.42	0.00	0.00	0.00	
4,600.00	17.88	109.99	4,402.85	-434.71	1,208.30	1,284.12	0.00	0.00	0.00	
4,700.00	17.88	109.99	4,498.02	-445.21	1,237.16	1,314.83	0.00	0.00	0.00	
4,800.00	17.88	109.99	4,593.19	-455.71	1,266.02	1,345.54	0.00	0.00	0.00	
4,900.00	17.88	109.99	4,688.36	-466.21	1,294.87	1,376.24	0.00	0.00	0.00	
5,000.00	17.88	109.99	4,783.53	-476.70	1,323.73	1,406.95	0.00	0.00	0.00	
5,100.00	17.88	109.99	4,878.70	-487.20	1,352.59	1,437.66	0.00	0.00	0.00	
5,200.00	17.88	109.99	4,973.86	-497.70	1,381.44	1,468.36	0.00	0.00	0.00	
G_SAND										
5,280.00	17.88	109.99	5,050.00	-506.10	1,404.53	1,492.93	0.00	0.00	0.00	
5,300.00	17.88	109.99	5,069.03	-508.20	1,410.30	1,499.07	0.00	0.00	0.00	
5,400.00	17.88	109.99	5,164.20	-518.69	1,439.16	1,529.78	0.00	0.00	0.00	
5,500.00	17.88	109.99	5,259.37	-529.19	1,468.01	1,560.48	0.00	0.00	0.00	
FRUN										
5,553.20	17.88	109.99	5,310.00	-534.77	1,483.37	1,576.82	0.00	0.00	0.00	
5,600.00	17.88	109.99	5,354.54	-539.69	1,496.87	1,591.19	0.00	0.00	0.00	
5,700.00	17.88	109.99	5,449.71	-550.19	1,525.73	1,621.90	0.00	0.00	0.00	
5,800.00	17.88	109.99	5,544.88	-560.68	1,554.58	1,652.60	0.00	0.00	0.00	
5,900.00	17.88	109.99	5,640.05	-571.18	1,583.44	1,683.31	0.00	0.00	0.00	
6,000.00	17.88	109.99	5,735.21	-581.68	1,612.30	1,714.01	0.00	0.00	0.00	
6,100.00	17.88	109.99	5,830.38	-592.17	1,641.15	1,744.72	0.00	0.00	0.00	
6,200.00	17.88	109.99	5,925.55	-602.67	1,670.01	1,775.43	0.00	0.00	0.00	
6,300.00	17.88	109.99	6,020.72	-613.17	1,698.87	1,806.13	0.00	0.00	0.00	
L_WSCH										
6,383.30	17.88	109.99	6,100.00	-621.91	1,722.90	1,831.71	0.00	0.00	0.00	
6,400.00	17.88	109.99	6,115.89	-623.67	1,727.72	1,836.84	0.00	0.00	0.00	
6,500.00	17.88	109.99	6,211.06	-634.16	1,756.58	1,867.55	0.00	0.00	0.00	
6,600.00	17.88	109.99	6,306.23	-644.66	1,785.44	1,898.25	0.00	0.00	0.00	
6,700.00	17.88	109.99	6,401.40	-655.16	1,814.29	1,928.96	0.00	0.00	0.00	
6,800.00	17.88	109.99	6,496.57	-665.66	1,843.15	1,959.67	0.00	0.00	0.00	
6,900.00	17.88	109.99	6,591.73	-676.15	1,872.01	1,990.37	0.00	0.00	0.00	
7,000.00	17.88	109.99	6,686.90	-686.65	1,900.86	2,021.08	0.00	0.00	0.00	
7,100.00	17.88	109.99	6,782.07	-697.15	1,929.72	2,051.79	0.00	0.00	0.00	
7,200.00	17.88	109.99	6,877.24	-707.65	1,958.57	2,082.49	0.00	0.00	0.00	
OCRK										

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Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 543-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
7,278.55	17.88	109.99	6,952.00	-715.89	1,981.24	2,106.61	0.00	0.00	0.00
7,300.00	17.88	109.99	6,972.41	-718.14	1,987.43	2,113.20	0.00	0.00	0.00
7,400.00	17.88	109.99	7,067.58	-728.64	2,016.29	2,143.91	0.00	0.00	0.00
7,500.00	17.88	109.99	7,162.75	-739.14	2,045.14	2,174.61	0.00	0.00	0.00
7,600.00	17.88	109.99	7,257.92	-749.63	2,074.00	2,205.32	0.00	0.00	0.00
Start Drop -1.50									
7,643.27	17.88	109.99	7,299.10	-754.18	2,086.49	2,218.61	0.00	0.00	0.00
7,700.00	17.03	109.99	7,353.21	-759.99	2,102.48	2,235.62	1.50	-1.50	0.00
7,800.00	15.53	109.99	7,449.20	-769.58	2,128.83	2,263.66	1.50	-1.50	0.00
7,900.00	14.03	109.99	7,545.89	-778.30	2,152.80	2,289.17	1.50	-1.50	0.00
8,000.00	12.53	109.99	7,643.21	-786.15	2,174.39	2,312.14	1.50	-1.50	0.00
U_MVRD									
8,029.47	12.09	109.99	7,672.00	-788.30	2,180.29	2,318.43	1.50	-1.50	0.00
8,100.00	11.03	109.99	7,741.10	-793.13	2,193.58	2,332.56	1.50	-1.50	0.00
8,200.00	9.53	109.99	7,839.49	-799.24	2,210.35	2,350.41	1.50	-1.50	0.00
8,300.00	8.03	109.99	7,938.32	-804.45	2,224.70	2,365.68	1.50	-1.50	0.00
8,400.00	6.53	109.99	8,037.51	-808.79	2,236.61	2,378.35	1.50	-1.50	0.00
8,500.00	5.03	109.99	8,137.00	-812.23	2,246.07	2,388.42	1.50	-1.50	0.00
8,600.00	3.53	109.99	8,236.71	-814.78	2,253.09	2,395.89	1.50	-1.50	0.00
8,700.00	2.03	109.99	8,336.59	-816.44	2,257.65	2,400.74	1.50	-1.50	0.00
8,800.00	0.53	109.99	8,436.57	-817.21	2,259.75	2,402.98	1.50	-1.50	0.00
Start 3780.00 hold at 8835.44 MD - TOP GAS									
8,835.44	0.00	0.00	8,472.00	-817.26	2,259.91	2,403.14	1.50	-1.50	0.00
8,900.00	0.00	0.00	8,536.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,000.00	0.00	0.00	8,636.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,100.00	0.00	0.00	8,736.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,200.00	0.00	0.00	8,836.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,300.00	0.00	0.00	8,936.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,400.00	0.00	0.00	9,036.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,500.00	0.00	0.00	9,136.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,600.00	0.00	0.00	9,236.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,700.00	0.00	0.00	9,336.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,800.00	0.00	0.00	9,436.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
9,900.00	0.00	0.00	9,536.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,000.00	0.00	0.00	9,636.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,100.00	0.00	0.00	9,736.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,200.00	0.00	0.00	9,836.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,300.00	0.00	0.00	9,936.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,400.00	0.00	0.00	10,036.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
CMEO									
10,405.44	0.00	0.00	10,042.00	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,500.00	0.00	0.00	10,136.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,600.00	0.00	0.00	10,236.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,700.00	0.00	0.00	10,336.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,800.00	0.00	0.00	10,436.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
10,900.00	0.00	0.00	10,536.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
11,000.00	0.00	0.00	10,636.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
11,100.00	0.00	0.00	10,736.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
RLNS									
11,135.44	0.00	0.00	10,772.00	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
11,200.00	0.00	0.00	10,836.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00
CZZT									
11,285.44	0.00	0.00	10,922.00	-817.26	2,259.91	2,403.14	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 543-6-297 - Slot RGU 543-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 543-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)	
11,300.00	0.00	0.00	10,936.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,036.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,136.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,236.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
CRCN										
11,610.44	0.00	0.00	11,247.00	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,336.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,436.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
SEGO										
11,870.44	0.00	0.00	11,507.00	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,536.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,636.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,736.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
SEGO_LOWER										
12,115.44	0.00	0.00	11,752.00	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,836.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
12,300.00	0.00	0.00	11,936.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
12,400.00	0.00	0.00	12,036.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
12,500.00	0.00	0.00	12,136.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
12,600.00	0.00	0.00	12,236.56	-817.26	2,259.91	2,403.14	0.00	0.00	0.00	
TD at 12615.44 - TD										
12,615.44	0.00	0.00	12,252.00	-817.26	2,259.91	2,403.14	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 543-6-297 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	8,472.00	-817.26	2,259.91	1,765,889.74	2,209,674.74	39.902538	-108.317304	
RGU 543-6-297 - PBHL - plan hits target center - Point	0.00	0.00	12,252.00	-817.26	2,259.91	1,765,889.74	2,209,674.74	39.902538	-108.317304	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,276.59	1,240.00	13 3/8" Surface Casing	13-3/8	17-1/2		
3,062.89	2,940.00	9 5/8" Intermediate Casing	9-5/8	12-1/4		

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 543-6-297 - Slot RGU 543-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 543-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	UINTA				
656.96	650.00	GRRV				
814.25	800.00	GRRV_A_GROOVE				
1,024.41	1,000.00	GRRV_B_GROOVE				
1,339.64	1,300.00	GRRV DISSOLUTION_SURF				
2,285.32	2,200.00	GARDEN_GULCH				
2,453.45	2,360.00	GRRV_ORANGE				
2,537.51	2,440.00	U_WSCH				
5,280.00	5,050.00	G_SAND				
5,553.20	5,310.00	FRUN				
6,383.30	6,100.00	L_WSCH				
7,278.55	6,952.00	OCRK				
8,029.47	7,672.00	U_MVRD				
8,835.44	8,472.00	TOP GAS				
10,405.44	10,042.00	CMEO				
11,135.44	10,772.00	RLNS				
11,285.44	10,922.00	CZZT				
11,610.44	11,247.00	CRCN				
11,870.44	11,507.00	SEGO				
12,115.44	11,752.00	SEGO_LOWER				
12,615.44	12,252.00	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 3.00	
286.67	286.46	-1.26	7.16	Start DLS 3.00 TFO 13.71	
719.55	709.87	-27.37	88.54	Start 6923.72 hold at 719.55 MD	
7,643.27	7,299.10	-754.18	2,086.49	Start Drop -1.50	
8,835.44	8,472.00	-817.26	2,259.91	Start 3780.00 hold at 8835.44 MD	
12,615.44	12,252.00	-817.26	2,259.91	TD at 12615.44	