

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 43-6-297 - VP	8492.00	215.59	2273.46	1766951.61	2209722.11	39.905455	-108.317252	Circle (Radius: 100.00)
RGU 43-6-297 - PBHL	12272.00	215.59	2273.46	1766951.61	2209722.11	39.905455	-108.317252	Point

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well RGU 43-6-297 - Slot RGU 43-6-297, True North
 Vertical (TVD) Reference: KB=30' @ 6252.00usft (H&P #329)
 Section (VS) Reference: Slot - RGU 43-6-297(0.00N, 0.00E)
 Measured Depth Reference: KB=30' @ 6252.00usft (H&P #329)
 Calculation Method: Minimum Curvature

ANNOTATIONS

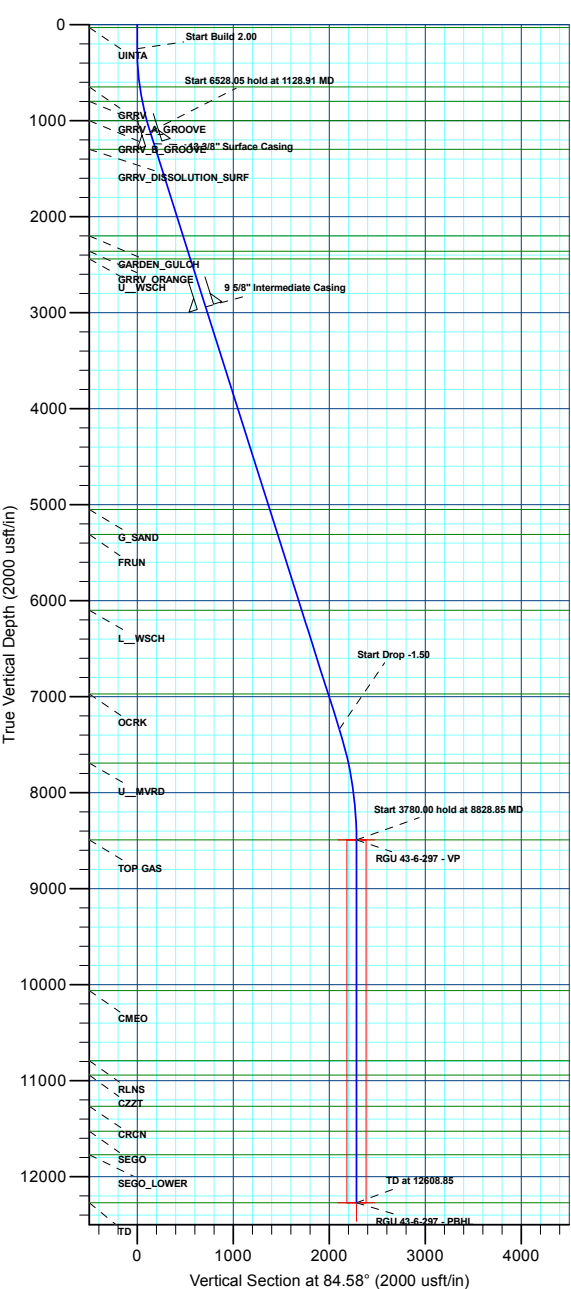
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	Start Build 2.00
1128.91	17.58	84.58	1115.19	12.63	133.17	133.77	133.77	Start 6528.05 hold at 1128.91 MD
7656.96	17.58	84.58	7338.41	198.75	2095.89	2105.29	2105.29	Start Drop -1.50
8828.85	0.00	0.00	8492.00	215.59	2273.46	2283.65	2283.65	Start 3780.00 hold at 8828.85 MD
12608.85	0.00	0.00	12272.00	215.59	2273.46	2283.65	2283.65	TD at 12608.85

WELL DETAILS: RGU 43-6-297

+N/-S	+E/-W	Northing	Ground Elev:	Latitude	Longitude	Slot
0.00	0.00	1766806.82	6222.00	39.904864	-108.325356	RGU 43-6-297

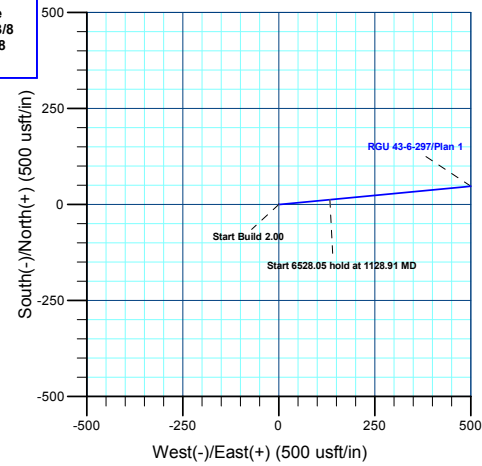
CASING DETAILS

TVD	MD	Name	Size
1240.00	1259.84	13 3/8" Surface Casing	13-3/8
2940.00	3043.11	9 5/8" Intermediate Casing	9-5/8



FORMATION TOP DETAILS

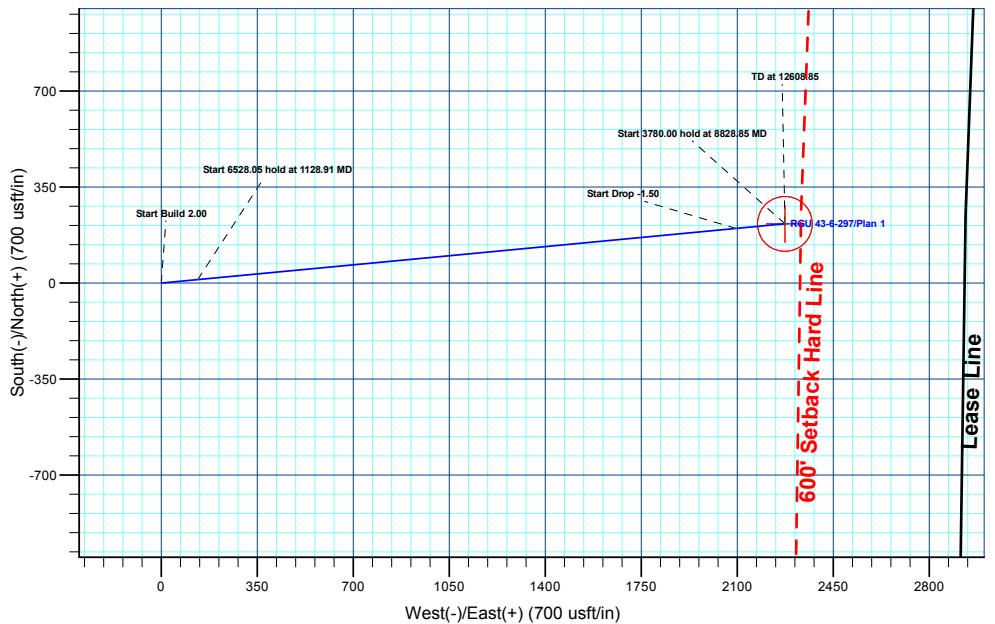
TVDPath	MDPath	Formation
30.00	30.00	UINTA
650.00	651.31	GRRV
800.00	803.44	GRRV_A_GROOVE
1000.00	1008.84	GRRV_B_GROOVE
1300.00	1322.78	GRRV_DISSOLUTION_SURF
2200.00	2266.86	GARDEN_GULCH
2360.00	2434.70	GRRV_ORANGE
2440.00	2518.61	U_WSCH
5050.00	5256.46	G_SAND
5310.00	5529.19	FRUN
6100.00	6357.89	L_WSCH
6972.00	7272.60	OCRK
7692.00	8022.88	U_MVRD
8492.00	8828.85	TOP GAS
10062.00	10398.85	CMEO
10792.00	11128.85	RLNS
10942.00	11278.85	CZZT
11267.00	11603.85	CRCN
11527.00	11863.85	SEGO
11772.00	12108.85	SEGO_LOWER
12272.00	12608.85	TD



Compass Rose

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 43-6-297 - Slot RGU 43-6-297

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 43-6-297 - Slot RGU 43-6-297
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 43-6-297	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 43-6-297 - Slot RGU 43-6-297					
Well Position	+N/-S	-37.74 usft	Northing:	1,766,806.82 usft	Latitude:	39.904864
	+E/-W	9.02 usft	Easting:	2,207,443.05 usft	Longitude:	-108.325356
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	84.58

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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,128.91	17.58	84.58	1,115.19	12.63	133.17	2.00	2.00	0.00	84.58	
7,656.96	17.58	84.58	7,338.41	198.75	2,095.89	0.00	0.00	0.00	0.00	
8,828.85	0.00	0.00	8,492.00	215.59	2,273.46	1.50	-1.50	0.00	180.00	RGU 43-6-297 - VP
12,608.85	0.00	0.00	12,272.00	215.59	2,273.46	0.00	0.00	0.00	0.00	RGU 43-6-297 - PBHI

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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 43-6-297	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	0.00
UINTA										
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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	1.00	84.58	300.00	0.04	0.43	0.44	2.00	2.00	0.00	0.00
400.00	3.00	84.58	399.93	0.37	3.91	3.93	2.00	2.00	0.00	0.00
500.00	5.00	84.58	499.68	1.03	10.85	10.90	2.00	2.00	0.00	0.00
600.00	7.00	84.58	599.13	2.02	21.26	21.35	2.00	2.00	0.00	0.00
GRRV										
651.31	8.03	84.58	650.00	2.65	27.94	28.06	2.00	2.00	0.00	0.00
700.00	9.00	84.58	698.15	3.33	35.11	35.27	2.00	2.00	0.00	0.00
800.00	11.00	84.58	796.63	4.97	52.40	52.63	2.00	2.00	0.00	0.00
GRRV_A_GROOVE										
803.44	11.07	84.58	800.00	5.03	53.05	53.29	2.00	2.00	0.00	0.00
900.00	13.00	84.58	894.44	6.93	73.10	73.42	2.00	2.00	0.00	0.00
1,000.00	15.00	84.58	991.46	9.22	97.18	97.62	2.00	2.00	0.00	0.00
GRRV_B_GROOVE										
1,008.84	15.18	84.58	1,000.00	9.43	99.47	99.92	2.00	2.00	0.00	0.00
1,100.00	17.00	84.58	1,087.58	11.82	124.62	125.18	2.00	2.00	0.00	0.00
Start 6528.05 hold at 1128.91 MD										
1,128.91	17.58	84.58	1,115.19	12.63	133.17	133.77	2.00	2.00	0.00	0.00
1,200.00	17.58	84.58	1,182.96	14.66	154.55	155.24	0.00	0.00	0.00	0.00
13 3/8" Surface Casing										
1,259.84	17.58	84.58	1,240.00	16.36	172.54	173.31	0.00	0.00	0.00	0.00
1,300.00	17.58	84.58	1,278.29	17.51	184.61	185.44	0.00	0.00	0.00	0.00
GRRV DISSOLUTION_SURF										
1,322.78	17.58	84.58	1,300.00	18.16	191.46	192.32	0.00	0.00	0.00	0.00
1,400.00	17.58	84.58	1,373.62	20.36	214.68	215.64	0.00	0.00	0.00	0.00
1,500.00	17.58	84.58	1,468.95	23.21	244.74	245.84	0.00	0.00	0.00	0.00
1,600.00	17.58	84.58	1,564.28	26.06	274.81	276.04	0.00	0.00	0.00	0.00
1,700.00	17.58	84.58	1,659.61	28.91	304.88	306.24	0.00	0.00	0.00	0.00
1,800.00	17.58	84.58	1,754.94	31.76	334.94	336.44	0.00	0.00	0.00	0.00
1,900.00	17.58	84.58	1,850.27	34.61	365.01	366.64	0.00	0.00	0.00	0.00
2,000.00	17.58	84.58	1,945.60	37.46	395.07	396.85	0.00	0.00	0.00	0.00
2,100.00	17.58	84.58	2,040.93	40.32	425.14	427.05	0.00	0.00	0.00	0.00
2,200.00	17.58	84.58	2,136.26	43.17	455.21	457.25	0.00	0.00	0.00	0.00
GARDEN_GULCH										
2,266.86	17.58	84.58	2,200.00	45.07	475.31	477.44	0.00	0.00	0.00	0.00
2,300.00	17.58	84.58	2,231.59	46.02	485.27	487.45	0.00	0.00	0.00	0.00
2,400.00	17.58	84.58	2,326.92	48.87	515.34	517.65	0.00	0.00	0.00	0.00
GRRV_ORANGE										
2,434.70	17.58	84.58	2,360.00	49.86	525.77	528.13	0.00	0.00	0.00	0.00
2,500.00	17.58	84.58	2,422.25	51.72	545.40	547.85	0.00	0.00	0.00	0.00
U_WSCH										
2,518.61	17.58	84.58	2,440.00	52.25	551.00	553.47	0.00	0.00	0.00	0.00
2,600.00	17.58	84.58	2,517.58	54.57	575.47	578.05	0.00	0.00	0.00	0.00
2,700.00	17.58	84.58	2,612.92	57.42	605.53	608.25	0.00	0.00	0.00	0.00
2,800.00	17.58	84.58	2,708.25	60.27	635.60	638.45	0.00	0.00	0.00	0.00
2,900.00	17.58	84.58	2,803.58	63.12	665.67	668.65	0.00	0.00	0.00	0.00
3,000.00	17.58	84.58	2,898.91	65.98	695.73	698.85	0.00	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 43-6-297	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)
9 5/8" Intermediate Casing									
3,043.11	17.58	84.58	2,940.00	67.20	708.69	711.87	0.00	0.00	0.00
3,100.00	17.58	84.58	2,994.24	68.83	725.80	729.05	0.00	0.00	0.00
3,200.00	17.58	84.58	3,089.57	71.68	755.86	759.26	0.00	0.00	0.00
3,300.00	17.58	84.58	3,184.90	74.53	785.93	789.46	0.00	0.00	0.00
3,400.00	17.58	84.58	3,280.23	77.38	816.00	819.66	0.00	0.00	0.00
3,500.00	17.58	84.58	3,375.56	80.23	846.06	849.86	0.00	0.00	0.00
3,600.00	17.58	84.58	3,470.89	83.08	876.13	880.06	0.00	0.00	0.00
3,700.00	17.58	84.58	3,566.22	85.93	906.19	910.26	0.00	0.00	0.00
3,800.00	17.58	84.58	3,661.55	88.78	936.26	940.46	0.00	0.00	0.00
3,900.00	17.58	84.58	3,756.88	91.64	966.33	970.66	0.00	0.00	0.00
4,000.00	17.58	84.58	3,852.21	94.49	996.39	1,000.86	0.00	0.00	0.00
4,100.00	17.58	84.58	3,947.54	97.34	1,026.46	1,031.06	0.00	0.00	0.00
4,200.00	17.58	84.58	4,042.87	100.19	1,056.52	1,061.26	0.00	0.00	0.00
4,300.00	17.58	84.58	4,138.20	103.04	1,086.59	1,091.46	0.00	0.00	0.00
4,400.00	17.58	84.58	4,233.53	105.89	1,116.66	1,121.67	0.00	0.00	0.00
4,500.00	17.58	84.58	4,328.87	108.74	1,146.72	1,151.87	0.00	0.00	0.00
4,600.00	17.58	84.58	4,424.20	111.59	1,176.79	1,182.07	0.00	0.00	0.00
4,700.00	17.58	84.58	4,519.53	114.44	1,206.85	1,212.27	0.00	0.00	0.00
4,800.00	17.58	84.58	4,614.86	117.30	1,236.92	1,242.47	0.00	0.00	0.00
4,900.00	17.58	84.58	4,710.19	120.15	1,266.99	1,272.67	0.00	0.00	0.00
5,000.00	17.58	84.58	4,805.52	123.00	1,297.05	1,302.87	0.00	0.00	0.00
5,100.00	17.58	84.58	4,900.85	125.85	1,327.12	1,333.07	0.00	0.00	0.00
5,200.00	17.58	84.58	4,996.18	128.70	1,357.18	1,363.27	0.00	0.00	0.00
G_SAND									
5,256.46	17.58	84.58	5,050.00	130.31	1,374.16	1,380.32	0.00	0.00	0.00
5,300.00	17.58	84.58	5,091.51	131.55	1,387.25	1,393.47	0.00	0.00	0.00
5,400.00	17.58	84.58	5,186.84	134.40	1,417.32	1,423.67	0.00	0.00	0.00
5,500.00	17.58	84.58	5,282.17	137.25	1,447.38	1,453.87	0.00	0.00	0.00
FRUN									
5,529.19	17.58	84.58	5,310.00	138.09	1,456.16	1,462.69	0.00	0.00	0.00
5,600.00	17.58	84.58	5,377.50	140.10	1,477.45	1,484.07	0.00	0.00	0.00
5,700.00	17.58	84.58	5,472.83	142.96	1,507.51	1,514.28	0.00	0.00	0.00
5,800.00	17.58	84.58	5,568.16	145.81	1,537.58	1,544.48	0.00	0.00	0.00
5,900.00	17.58	84.58	5,663.49	148.66	1,567.64	1,574.68	0.00	0.00	0.00
6,000.00	17.58	84.58	5,758.82	151.51	1,597.71	1,604.88	0.00	0.00	0.00
6,100.00	17.58	84.58	5,854.15	154.36	1,627.78	1,635.08	0.00	0.00	0.00
6,200.00	17.58	84.58	5,949.48	157.21	1,657.84	1,665.28	0.00	0.00	0.00
6,300.00	17.58	84.58	6,044.81	160.06	1,687.91	1,695.48	0.00	0.00	0.00
L_WSCH									
6,357.89	17.58	84.58	6,100.00	161.71	1,705.31	1,712.96	0.00	0.00	0.00
6,400.00	17.58	84.58	6,140.15	162.91	1,717.97	1,725.68	0.00	0.00	0.00
6,500.00	17.58	84.58	6,235.48	165.76	1,748.04	1,755.88	0.00	0.00	0.00
6,600.00	17.58	84.58	6,330.81	168.62	1,778.11	1,786.08	0.00	0.00	0.00
6,700.00	17.58	84.58	6,426.14	171.47	1,808.17	1,816.28	0.00	0.00	0.00
6,800.00	17.58	84.58	6,521.47	174.32	1,838.24	1,846.48	0.00	0.00	0.00
6,900.00	17.58	84.58	6,616.80	177.17	1,868.30	1,876.69	0.00	0.00	0.00
7,000.00	17.58	84.58	6,712.13	180.02	1,898.37	1,906.89	0.00	0.00	0.00
7,100.00	17.58	84.58	6,807.46	182.87	1,928.44	1,937.09	0.00	0.00	0.00
7,200.00	17.58	84.58	6,902.79	185.72	1,958.50	1,967.29	0.00	0.00	0.00
OCRK									
7,272.60	17.58	84.58	6,972.00	187.79	1,980.33	1,989.21	0.00	0.00	0.00
7,300.00	17.58	84.58	6,998.12	188.57	1,988.57	1,997.49	0.00	0.00	0.00

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Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 43-6-297	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)
7,400.00	17.58	84.58	7,093.45	191.42	2,018.63	2,027.69	0.00	0.00	0.00
7,500.00	17.58	84.58	7,188.78	194.28	2,048.70	2,057.89	0.00	0.00	0.00
7,600.00	17.58	84.58	7,284.11	197.13	2,078.77	2,088.09	0.00	0.00	0.00
Start Drop -1.50									
7,656.96	17.58	84.58	7,338.41	198.75	2,095.89	2,105.29	0.00	0.00	0.00
7,700.00	16.93	84.58	7,379.51	199.96	2,108.60	2,118.06	1.50	-1.50	0.00
7,800.00	15.43	84.58	7,475.55	202.59	2,136.35	2,145.93	1.50	-1.50	0.00
7,900.00	13.93	84.58	7,572.28	204.98	2,161.58	2,171.28	1.50	-1.50	0.00
8,000.00	12.43	84.58	7,669.64	207.13	2,184.28	2,194.08	1.50	-1.50	0.00
U_MVRD									
8,022.88	12.09	84.58	7,692.00	207.59	2,189.12	2,198.94	1.50	-1.50	0.00
8,100.00	10.93	84.58	7,767.57	209.04	2,204.44	2,214.33	1.50	-1.50	0.00
8,200.00	9.43	84.58	7,865.99	210.71	2,222.04	2,232.01	1.50	-1.50	0.00
8,300.00	7.93	84.58	7,964.84	212.14	2,237.07	2,247.10	1.50	-1.50	0.00
8,400.00	6.43	84.58	8,064.05	213.32	2,249.51	2,259.61	1.50	-1.50	0.00
8,500.00	4.93	84.58	8,163.56	214.25	2,259.37	2,269.51	1.50	-1.50	0.00
8,600.00	3.43	84.58	8,263.29	214.94	2,266.63	2,276.80	1.50	-1.50	0.00
8,700.00	1.93	84.58	8,363.18	215.38	2,271.29	2,281.48	1.50	-1.50	0.00
8,800.00	0.43	84.58	8,463.15	215.58	2,273.35	2,283.55	1.50	-1.50	0.00
Start 3780.00 hold at 8828.85 MD - TOP GAS									
8,828.85	0.00	0.00	8,492.00	215.59	2,273.46	2,283.65	1.50	-1.50	0.00
8,900.00	0.00	0.00	8,563.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,000.00	0.00	0.00	8,663.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,100.00	0.00	0.00	8,763.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,200.00	0.00	0.00	8,863.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,300.00	0.00	0.00	8,963.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,400.00	0.00	0.00	9,063.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,500.00	0.00	0.00	9,163.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,600.00	0.00	0.00	9,263.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,700.00	0.00	0.00	9,363.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,800.00	0.00	0.00	9,463.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
9,900.00	0.00	0.00	9,563.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,000.00	0.00	0.00	9,663.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,100.00	0.00	0.00	9,763.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,200.00	0.00	0.00	9,863.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,300.00	0.00	0.00	9,963.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
CMEO									
10,398.85	0.00	0.00	10,062.00	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,400.00	0.00	0.00	10,063.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,500.00	0.00	0.00	10,163.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,600.00	0.00	0.00	10,263.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,700.00	0.00	0.00	10,363.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,800.00	0.00	0.00	10,463.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
10,900.00	0.00	0.00	10,563.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
11,000.00	0.00	0.00	10,663.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
11,100.00	0.00	0.00	10,763.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
RLNS									
11,128.85	0.00	0.00	10,792.00	215.59	2,273.46	2,283.65	0.00	0.00	0.00
11,200.00	0.00	0.00	10,863.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
CZZT									
11,278.85	0.00	0.00	10,942.00	215.59	2,273.46	2,283.65	0.00	0.00	0.00
11,300.00	0.00	0.00	10,963.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00
11,400.00	0.00	0.00	11,063.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 43-6-297 - Slot RGU 43-6-297
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 43-6-297	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)	
11,500.00	0.00	0.00	11,163.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,263.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
CRCN										
11,603.85	0.00	0.00	11,267.00	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,363.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,463.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
SEGO										
11,863.85	0.00	0.00	11,527.00	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,563.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,663.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,763.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
SEGO_LOWER										
12,108.85	0.00	0.00	11,772.00	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,863.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
12,300.00	0.00	0.00	11,963.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
12,400.00	0.00	0.00	12,063.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
12,500.00	0.00	0.00	12,163.15	215.59	2,273.46	2,283.65	0.00	0.00	0.00	
TD at 12608.85 - TD										
12,608.85	0.00	0.00	12,272.00	215.59	2,273.46	2,283.65	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 43-6-297 - VP - hit/miss target - Shape	0.00	0.00	8,492.00	215.59	2,273.46	1,766,951.61	2,209,722.11	39.905455	-108.317252	
RGU 43-6-297 - PBHL - plan hits target center - Circle (radius 100.00)										
RGU 43-6-297 - PBHL - plan hits target center - Point	0.00	0.00	12,272.00	215.59	2,273.46	1,766,951.61	2,209,722.11	39.905455	-108.317252	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,259.84	1,240.00	13 3/8" Surface Casing	13-3/8	17-1/2		
3,043.11	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 43-6-297 - Slot RGU 43-6-297
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 43-6-297	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				
651.31	650.00	GRRV				
803.44	800.00	GRRV_A_GROOVE				
1,008.84	1,000.00	GRRV_B_GROOVE				
1,322.78	1,300.00	GRRV DISSOLUTION_SURF				
2,266.86	2,200.00	GARDEN_GULCH				
2,434.70	2,360.00	GRRV_ORANGE				
2,518.61	2,440.00	U_WSCH				
5,256.46	5,050.00	G_SAND				
5,529.19	5,310.00	FRUN				
6,357.89	6,100.00	L_WSCH				
7,272.60	6,972.00	OCRK				
8,022.88	7,692.00	U_MVRD				
8,828.85	8,492.00	TOP GAS				
10,398.85	10,062.00	CMEO				
11,128.85	10,792.00	RLNS				
11,278.85	10,942.00	CZZT				
11,603.85	11,267.00	CRCN				
11,863.85	11,527.00	SEGO				
12,108.85	11,772.00	SEGO_LOWER				
12,608.85	12,272.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
250.00	250.00	0.00	0.00	Start Build 2.00	
1,128.91	1,115.19	12.63	133.17	Start 6528.05 hold at 1128.91 MD	
7,656.96	7,338.41	198.75	2,095.89	Start Drop -1.50	
8,828.85	8,492.00	215.59	2,273.46	Start 3780.00 hold at 8828.85 MD	
12,608.85	12,272.00	215.59	2,273.46	TD at 12608.85	