



Project: Rio Blanco County, CO
 Site: RGU 23-6-297 Pad
 Well: RGU 344-6-297
 Wellbore: Wellbore #1
 Design: Plan 1
 Latitude: 39.904740
 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 344-6-297 - VP	8452.00	-1510.82	2250.74	1765181.83	2209643.15	39.900593	-108.317338	Circle (Radius: 100.00)
RGU 344-6-297 - PBHL	12232.00	-1510.82	2250.74	1765181.83	2209643.15	39.900593	-108.317338	Point

REFERENCE INFORMATION
 Co-ordinate (N/E) Reference: Well RGU 344-6-297 - Slot RGU 344-6-297, True North
 Vertical (TVD) Reference: KB=30' @ 6252.00usft (H&P #329)
 Section (VS) Reference: Slot - RGU 344-6-297(0.00N, 0.00E)
 Measured Depth Reference: KB=30' @ 6252.00usft (H&P #329)
 Calculation Method: Minimum Curvature

ANNOTATIONS

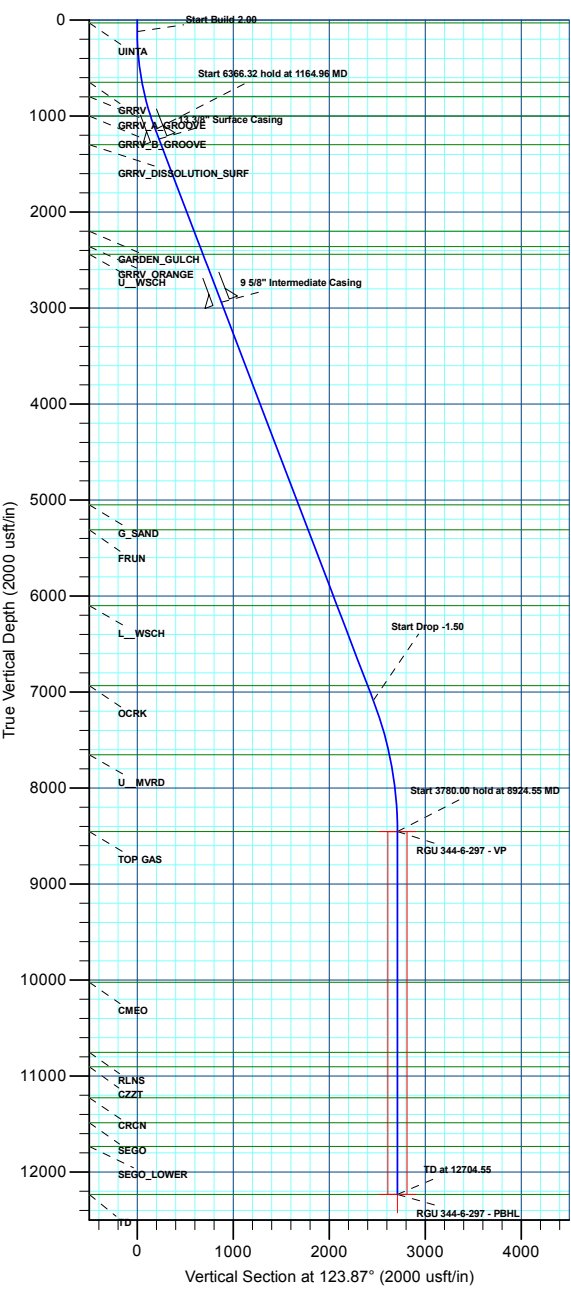
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 2.00
1164.96	20.90	123.87	1141.94	-105.04	156.49	188.48	188.48	Start 6366.32 hold at 1164.96 MD
7531.27	20.90	123.87	7089.41	-1370.76	2042.09	2459.49	2459.49	Start Drop -1.50
8924.55	0.00	0.00	8452.00	-1510.82	2250.74	2710.79	2710.79	Start 3780.00 hold at 8924.55 MD
12704.55	0.00	0.00	12232.00	-1510.82	2250.74	2710.79	2710.79	TD at 12704.55

WELL DETAILS: RGU 344-6-297

+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1766761.91	6222.00	39.904740	-108.325360	RGU 344-6-297

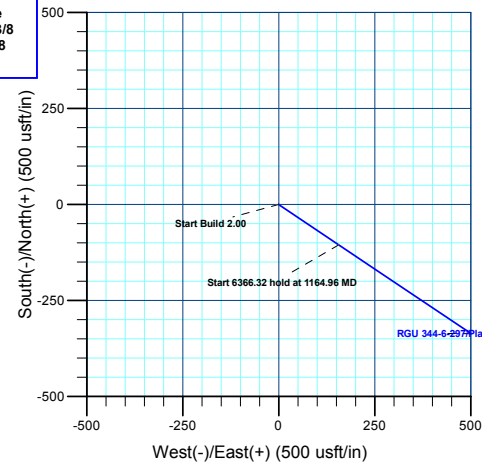
CASING DETAILS

TVD	MD	Name	Size
1240.00	1269.92	13 3/8" Surface Casing	13-3/8
2940.00	3089.64	9 5/8" Intermediate Casing	9-5/8

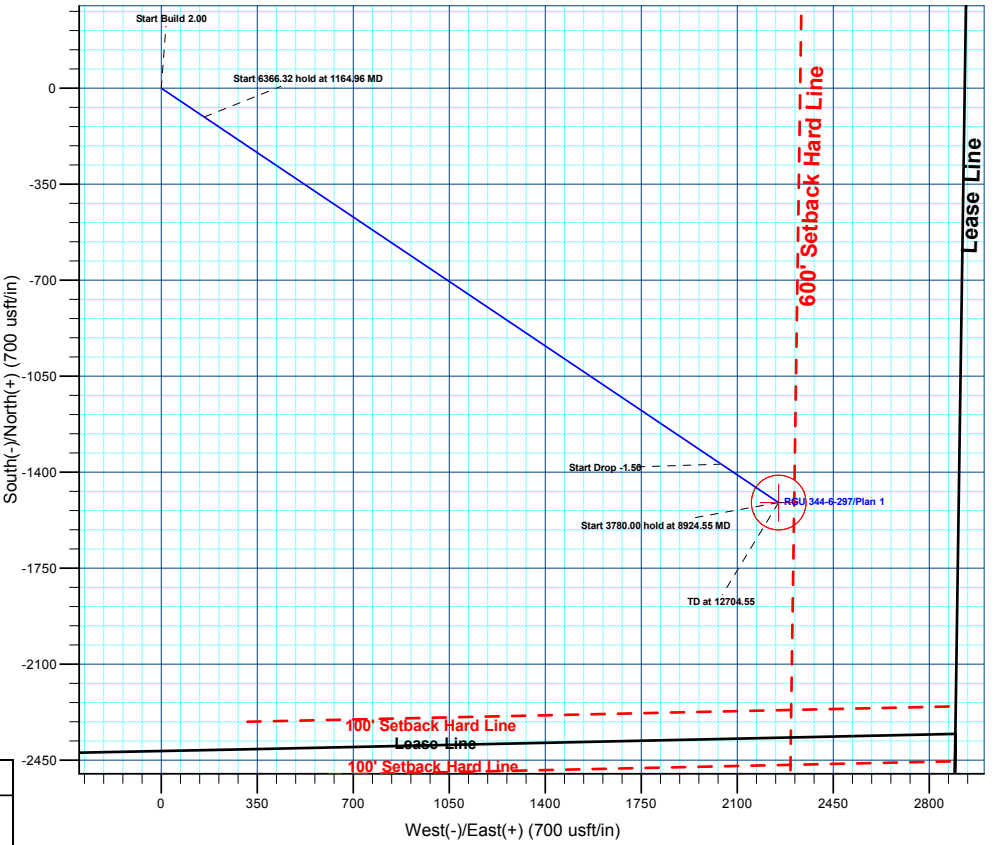


FORMATION TOP DETAILS

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	1334.15	GRRV_DISSOLUTION_SURF
2200.00	2297.53	GARDEN_GULCH
2360.00	2468.80	GRRV_ORANGE
2440.00	2554.43	U_WSCH
5050.00	5348.24	G_SAND
5310.00	5626.55	FRUN
6100.00	6472.18	L_WSCH
6932.00	7362.77	OCRK
7652.00	8118.58	U_MVRD
8452.00	8924.55	TOP GAS
10022.00	10494.55	CMEQ
10752.00	11224.55	RLNS
10902.00	11374.55	CZZT
11227.00	11699.55	CRCN
11487.00	11959.55	SEGO
11732.00	12204.55	SEGO_LOWER
12232.00	12704.55	TD



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



Plan: Plan 1 (RGU 344-6-297/Wellbore #1)
 Created By: Chase Chambers Date: 8:55, May 11 2022



Terra Energy Partners, LLP

Rio Blanco County, CO

RGU 23-6-297 Pad

RGU 344-6-297 - Slot RGU 344-6-297

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 344-6-297 - Slot RGU 344-6-297
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 344-6-297	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 344-6-297 - Slot RGU 344-6-297					
Well Position	+N/-S	-82.71 usft	Northing:	1,766,761.91 usft	Latitude:	39.904740
	+E/-W	7.85 usft	Easting:	2,207,440.48 usft	Longitude:	-108.325360
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	123.87

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	
1,164.96	20.90	123.87	1,141.94	-105.04	156.49	2.00	2.00	0.00	123.87	
7,531.27	20.90	123.87	7,089.41	-1,370.76	2,042.09	0.00	0.00	0.00	0.00	
8,924.55	0.00	0.00	8,452.00	-1,510.82	2,250.74	1.50	-1.50	0.00	180.00	RGU 344-6-297 - VP
12,704.55	0.00	0.00	12,232.00	-1,510.82	2,250.74	0.00	0.00	0.00	0.00	RGU 344-6-297 - PBH

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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 344-6-297	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
Start Build 2.00										
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	123.87	199.99	-0.62	0.93	1.12	2.00	2.00	2.00	0.00
300.00	3.60	123.87	299.88	-3.15	4.69	5.65	2.00	2.00	2.00	0.00
400.00	5.60	123.87	399.55	-7.62	11.35	13.67	2.00	2.00	2.00	0.00
500.00	7.60	123.87	498.89	-14.03	20.89	25.17	2.00	2.00	2.00	0.00
600.00	9.60	123.87	597.76	-22.36	33.31	40.12	2.00	2.00	2.00	0.00
GRRV										
653.07	10.66	123.87	650.00	-27.56	41.06	49.45	2.00	2.00	2.00	0.00
700.00	11.60	123.87	696.05	-32.61	48.58	58.51	2.00	2.00	2.00	0.00
800.00	13.60	123.87	793.63	-44.77	66.69	80.33	2.00	2.00	2.00	0.00
GRRV_A_GROOVE										
806.55	13.73	123.87	800.00	-45.63	67.98	81.87	2.00	2.00	2.00	0.00
900.00	15.60	123.87	890.40	-58.82	87.62	105.53	2.00	2.00	2.00	0.00
1,000.00	17.60	123.87	986.23	-74.74	111.34	134.10	2.00	2.00	2.00	0.00
GRRV_B_GROOVE										
1,014.46	17.89	123.87	1,000.00	-77.19	115.00	138.51	2.00	2.00	2.00	0.00
1,100.00	19.60	123.87	1,081.00	-92.51	137.82	165.99	2.00	2.00	2.00	0.00
Start 6366.32 hold at 1164.96 MD										
1,164.96	20.90	123.87	1,141.94	-105.04	156.49	188.48	2.00	2.00	2.00	0.00
1,200.00	20.90	123.87	1,174.68	-112.01	166.87	200.98	0.00	0.00	0.00	0.00
13 3/8" Surface Casing										
1,269.92	20.90	123.87	1,240.00	-125.91	187.58	225.92	0.00	0.00	0.00	0.00
1,300.00	20.90	123.87	1,268.10	-131.89	196.49	236.65	0.00	0.00	0.00	0.00
GRRV DISSOLUTION_SURF										
1,334.15	20.90	123.87	1,300.00	-138.68	206.60	248.83	0.00	0.00	0.00	0.00
1,400.00	20.90	123.87	1,361.52	-151.77	226.10	272.32	0.00	0.00	0.00	0.00
1,500.00	20.90	123.87	1,454.94	-171.66	255.72	307.99	0.00	0.00	0.00	0.00
1,600.00	20.90	123.87	1,548.36	-191.54	285.34	343.67	0.00	0.00	0.00	0.00
1,700.00	20.90	123.87	1,641.78	-211.42	314.96	379.34	0.00	0.00	0.00	0.00
1,800.00	20.90	123.87	1,735.20	-231.30	344.58	415.01	0.00	0.00	0.00	0.00
1,900.00	20.90	123.87	1,828.62	-251.18	374.20	450.68	0.00	0.00	0.00	0.00
2,000.00	20.90	123.87	1,922.04	-271.06	403.81	486.36	0.00	0.00	0.00	0.00
2,100.00	20.90	123.87	2,015.47	-290.94	433.43	522.03	0.00	0.00	0.00	0.00
2,200.00	20.90	123.87	2,108.89	-310.83	463.05	557.70	0.00	0.00	0.00	0.00
GARDEN_GULCH										
2,297.53	20.90	123.87	2,200.00	-330.22	491.94	592.49	0.00	0.00	0.00	0.00
2,300.00	20.90	123.87	2,202.31	-330.71	492.67	593.37	0.00	0.00	0.00	0.00
2,400.00	20.90	123.87	2,295.73	-350.59	522.29	629.04	0.00	0.00	0.00	0.00
GRRV_ORANGE										
2,468.80	20.90	123.87	2,360.00	-364.27	542.66	653.59	0.00	0.00	0.00	0.00
2,500.00	20.90	123.87	2,389.15	-370.47	551.91	664.72	0.00	0.00	0.00	0.00
U_WSCH										
2,554.43	20.90	123.87	2,440.00	-381.29	568.03	684.13	0.00	0.00	0.00	0.00
2,600.00	20.90	123.87	2,482.57	-390.35	581.52	700.39	0.00	0.00	0.00	0.00
2,700.00	20.90	123.87	2,575.99	-410.23	611.14	736.06	0.00	0.00	0.00	0.00
2,800.00	20.90	123.87	2,669.41	-430.12	640.76	771.73	0.00	0.00	0.00	0.00
2,900.00	20.90	123.87	2,762.83	-450.00	670.38	807.41	0.00	0.00	0.00	0.00
3,000.00	20.90	123.87	2,856.25	-469.88	700.00	843.08	0.00	0.00	0.00	0.00

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Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 344-6-297	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									
3,089.64	20.90	123.87	2,940.00	-487.70	726.55	875.06	0.00	0.00	0.00
3,100.00	20.90	123.87	2,949.67	-489.76	729.62	878.75	0.00	0.00	0.00
3,200.00	20.90	123.87	3,043.10	-509.64	759.23	914.42	0.00	0.00	0.00
3,300.00	20.90	123.87	3,136.52	-529.52	788.85	950.10	0.00	0.00	0.00
3,400.00	20.90	123.87	3,229.94	-549.40	818.47	985.77	0.00	0.00	0.00
3,500.00	20.90	123.87	3,323.36	-569.29	848.09	1,021.44	0.00	0.00	0.00
3,600.00	20.90	123.87	3,416.78	-589.17	877.71	1,057.11	0.00	0.00	0.00
3,700.00	20.90	123.87	3,510.20	-609.05	907.33	1,092.79	0.00	0.00	0.00
3,800.00	20.90	123.87	3,603.62	-628.93	936.94	1,128.46	0.00	0.00	0.00
3,900.00	20.90	123.87	3,697.04	-648.81	966.56	1,164.13	0.00	0.00	0.00
4,000.00	20.90	123.87	3,790.46	-668.69	996.18	1,199.80	0.00	0.00	0.00
4,100.00	20.90	123.87	3,883.88	-688.57	1,025.80	1,235.48	0.00	0.00	0.00
4,200.00	20.90	123.87	3,977.31	-708.46	1,055.42	1,271.15	0.00	0.00	0.00
4,300.00	20.90	123.87	4,070.73	-728.34	1,085.04	1,306.82	0.00	0.00	0.00
4,400.00	20.90	123.87	4,164.15	-748.22	1,114.65	1,342.49	0.00	0.00	0.00
4,500.00	20.90	123.87	4,257.57	-768.10	1,144.27	1,378.17	0.00	0.00	0.00
4,600.00	20.90	123.87	4,350.99	-787.98	1,173.89	1,413.84	0.00	0.00	0.00
4,700.00	20.90	123.87	4,444.41	-807.86	1,203.51	1,449.51	0.00	0.00	0.00
4,800.00	20.90	123.87	4,537.83	-827.75	1,233.13	1,485.18	0.00	0.00	0.00
4,900.00	20.90	123.87	4,631.25	-847.63	1,262.75	1,520.86	0.00	0.00	0.00
5,000.00	20.90	123.87	4,724.67	-867.51	1,292.37	1,556.53	0.00	0.00	0.00
5,100.00	20.90	123.87	4,818.09	-887.39	1,321.98	1,592.20	0.00	0.00	0.00
5,200.00	20.90	123.87	4,911.52	-907.27	1,351.60	1,627.87	0.00	0.00	0.00
5,300.00	20.90	123.87	5,004.94	-927.15	1,381.22	1,663.55	0.00	0.00	0.00
G_SAND									
5,348.24	20.90	123.87	5,050.00	-936.74	1,395.51	1,680.75	0.00	0.00	0.00
5,400.00	20.90	123.87	5,098.36	-947.03	1,410.84	1,699.22	0.00	0.00	0.00
5,500.00	20.90	123.87	5,191.78	-966.92	1,440.46	1,734.89	0.00	0.00	0.00
5,600.00	20.90	123.87	5,285.20	-986.80	1,470.08	1,770.56	0.00	0.00	0.00
FRUN									
5,626.55	20.90	123.87	5,310.00	-992.08	1,477.94	1,780.03	0.00	0.00	0.00
5,700.00	20.90	123.87	5,378.62	-1,006.68	1,499.69	1,806.23	0.00	0.00	0.00
5,800.00	20.90	123.87	5,472.04	-1,026.56	1,529.31	1,841.91	0.00	0.00	0.00
5,900.00	20.90	123.87	5,565.46	-1,046.44	1,558.93	1,877.58	0.00	0.00	0.00
6,000.00	20.90	123.87	5,658.88	-1,066.32	1,588.55	1,913.25	0.00	0.00	0.00
6,100.00	20.90	123.87	5,752.30	-1,086.21	1,618.17	1,948.92	0.00	0.00	0.00
6,200.00	20.90	123.87	5,845.73	-1,106.09	1,647.79	1,984.60	0.00	0.00	0.00
6,300.00	20.90	123.87	5,939.15	-1,125.97	1,677.40	2,020.27	0.00	0.00	0.00
6,400.00	20.90	123.87	6,032.57	-1,145.85	1,707.02	2,055.94	0.00	0.00	0.00
L_WSCH									
6,472.18	20.90	123.87	6,100.00	-1,160.20	1,728.40	2,081.69	0.00	0.00	0.00
6,500.00	20.90	123.87	6,125.99	-1,165.73	1,736.64	2,091.61	0.00	0.00	0.00
6,600.00	20.90	123.87	6,219.41	-1,185.61	1,766.26	2,127.29	0.00	0.00	0.00
6,700.00	20.90	123.87	6,312.83	-1,205.49	1,795.88	2,162.96	0.00	0.00	0.00
6,800.00	20.90	123.87	6,406.25	-1,225.38	1,825.50	2,198.63	0.00	0.00	0.00
6,900.00	20.90	123.87	6,499.67	-1,245.26	1,855.11	2,234.30	0.00	0.00	0.00
7,000.00	20.90	123.87	6,593.09	-1,265.14	1,884.73	2,269.98	0.00	0.00	0.00
7,100.00	20.90	123.87	6,686.51	-1,285.02	1,914.35	2,305.65	0.00	0.00	0.00
7,200.00	20.90	123.87	6,779.93	-1,304.90	1,943.97	2,341.32	0.00	0.00	0.00
7,300.00	20.90	123.87	6,873.36	-1,324.78	1,973.59	2,376.99	0.00	0.00	0.00
OCRK									
7,362.77	20.90	123.87	6,932.00	-1,337.26	1,992.18	2,399.39	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 344-6-297	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	20.90	123.87	6,966.78	-1,344.67	2,003.21	2,412.67	0.00	0.00	0.00	
7,500.00	20.90	123.87	7,060.20	-1,364.55	2,032.82	2,448.34	0.00	0.00	0.00	
Start Drop -1.50										
7,531.27	20.90	123.87	7,089.41	-1,370.76	2,042.09	2,459.49	0.00	0.00	0.00	
7,600.00	19.87	123.87	7,153.84	-1,384.11	2,061.96	2,483.43	1.50	-1.50	0.00	
7,700.00	18.37	123.87	7,248.32	-1,402.36	2,089.15	2,516.18	1.50	-1.50	0.00	
7,800.00	16.87	123.87	7,343.62	-1,419.23	2,114.28	2,546.45	1.50	-1.50	0.00	
7,900.00	15.37	123.87	7,439.69	-1,434.70	2,137.33	2,574.21	1.50	-1.50	0.00	
8,000.00	13.87	123.87	7,536.45	-1,448.77	2,158.29	2,599.45	1.50	-1.50	0.00	
8,100.00	12.37	123.87	7,633.84	-1,461.41	2,177.13	2,622.14	1.50	-1.50	0.00	
U_MVRD										
8,118.58	12.09	123.87	7,652.00	-1,463.61	2,180.40	2,626.08	1.50	-1.50	0.00	
8,200.00	10.87	123.87	7,731.79	-1,472.64	2,193.85	2,642.28	1.50	-1.50	0.00	
8,300.00	9.37	123.87	7,830.23	-1,482.43	2,208.44	2,659.85	1.50	-1.50	0.00	
8,400.00	7.87	123.87	7,929.10	-1,490.78	2,220.88	2,674.83	1.50	-1.50	0.00	
8,500.00	6.37	123.87	8,028.32	-1,497.69	2,231.17	2,687.23	1.50	-1.50	0.00	
8,600.00	4.87	123.87	8,127.84	-1,503.14	2,239.30	2,697.01	1.50	-1.50	0.00	
8,700.00	3.37	123.87	8,227.58	-1,507.15	2,245.26	2,704.20	1.50	-1.50	0.00	
8,800.00	1.87	123.87	8,327.47	-1,509.69	2,249.05	2,708.76	1.50	-1.50	0.00	
8,900.00	0.37	123.87	8,427.45	-1,510.78	2,250.67	2,710.72	1.50	-1.50	0.00	
Start 3780.00 hold at 8924.55 MD - TOP GAS										
8,924.55	0.00	0.00	8,452.00	-1,510.82	2,250.74	2,710.79	1.50	-1.50	0.00	
9,000.00	0.00	0.00	8,527.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,627.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
9,200.00	0.00	0.00	8,727.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
9,300.00	0.00	0.00	8,827.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
9,400.00	0.00	0.00	8,927.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,027.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,127.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,227.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,327.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,427.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,527.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,627.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,200.00	0.00	0.00	9,727.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,300.00	0.00	0.00	9,827.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,400.00	0.00	0.00	9,927.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
CMEO										
10,494.55	0.00	0.00	10,022.00	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,027.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,127.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,227.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,327.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,427.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,527.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
11,100.00	0.00	0.00	10,627.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
11,200.00	0.00	0.00	10,727.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
RLNS										
11,224.55	0.00	0.00	10,752.00	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
11,300.00	0.00	0.00	10,827.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
CZTZ										
11,374.55	0.00	0.00	10,902.00	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
11,400.00	0.00	0.00	10,927.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 344-6-297 - Slot RGU 344-6-297
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 344-6-297	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	11,027.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,127.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
CRCN										
11,699.55	0.00	0.00	11,227.00	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,227.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,327.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,427.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
SEGO										
11,959.55	0.00	0.00	11,487.00	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,527.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,627.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,727.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
SEGO_LOWER										
12,204.55	0.00	0.00	11,732.00	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
12,300.00	0.00	0.00	11,827.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
12,400.00	0.00	0.00	11,927.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
12,500.00	0.00	0.00	12,027.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
12,600.00	0.00	0.00	12,127.45	-1,510.82	2,250.74	2,710.79	0.00	0.00	0.00	
TD at 12704.55 - TD										
12,704.55	0.00	0.00	12,232.00	-1,510.82	2,250.74	2,710.79	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 344-6-297 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	8,452.00	-1,510.82	2,250.74	1,765,181.83	2,209,643.15	39.900593	-108.317338	
RGU 344-6-297 - PBHL - plan hits target center - Point	0.00	0.00	12,232.00	-1,510.82	2,250.74	1,765,181.83	2,209,643.15	39.900593	-108.317338	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,269.92	1,240.00	13 3/8" Surface Casing	13-3/8	17-1/2		
3,089.64	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 344-6-297 - Slot RGU 344-6-297
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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 344-6-297	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				
653.07	650.00	GRRV				
806.55	800.00	GRRV_A_GROOVE				
1,014.46	1,000.00	GRRV_B_GROOVE				
1,334.15	1,300.00	GRRV DISSOLUTION_SURF				
2,297.53	2,200.00	GARDEN_GULCH				
2,468.80	2,360.00	GRRV_ORANGE				
2,554.43	2,440.00	U_WSCH				
5,348.24	5,050.00	G_SAND				
5,626.55	5,310.00	FRUN				
6,472.18	6,100.00	L_WSCH				
7,362.77	6,932.00	OCRK				
8,118.58	7,652.00	U_MVRD				
8,924.55	8,452.00	TOP GAS				
10,494.55	10,022.00	CMEO				
11,224.55	10,752.00	RLNS				
11,374.55	10,902.00	CZZT				
11,699.55	11,227.00	CRCN				
11,959.55	11,487.00	SEGO				
12,204.55	11,732.00	SEGO_LOWER				
12,704.55	12,232.00	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	
1,164.96	1,141.94	-105.04	156.49	Start 6366.32 hold at 1164.96 MD	
7,531.27	7,089.41	-1,370.76	2,042.09	Start Drop -1.50	
8,924.55	8,452.00	-1,510.82	2,250.74	Start 3780.00 hold at 8924.55 MD	
12,704.55	12,232.00	-1,510.82	2,250.74	TD at 12704.55	