

## 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

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well RG 312-7-297 - Slot RG 312-7-297, True North  
Vertical (TVD) Reference: KB=30' @ 6633.00usft (H&P #329)  
Section (VS) Reference: Slot - RG 312-7-297(0.00N, 0.00E)  
Measured Depth Reference: KB=30' @ 6633.00usft (H&P #329)  
Calculation Method: Minimum Curvature

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RG 312-7-297 - KMV Gas	8123.00	1638.10	-346.77	1762531.70	2205946.60	39.893006	-108.330212	Circle (Radius: 50.00)
RG 312-7-297 - PBHL	11783.00	1638.10	-346.77	1762531.70	2205946.60	39.893006	-108.330212	Point

## ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	Start Build 2.00
787.54	13.05	348.05	781.91	72.39	-15.32	74.00	74.00	Start 6650.31 hold at 787.54 MD
7437.85	13.05	348.05	7260.45	1541.57	-326.34	1575.74	1575.74	Start Drop -1.50
8307.91	0.00	0.00	8123.00	1638.10	-346.77	1674.40	1674.40	Start 3660.00 hold at 8307.91 MD
11967.91	0.00	0.00	11783.00	1638.10	-346.77	1674.40	1674.40	TD at 11967.91

## WELL DETAILS: RG 312-7-297

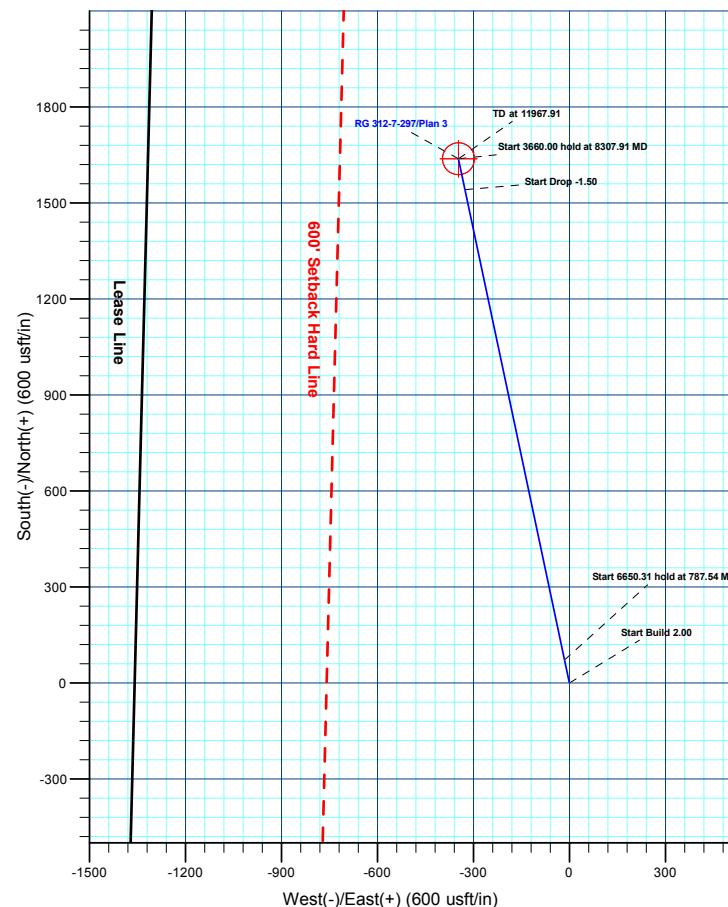
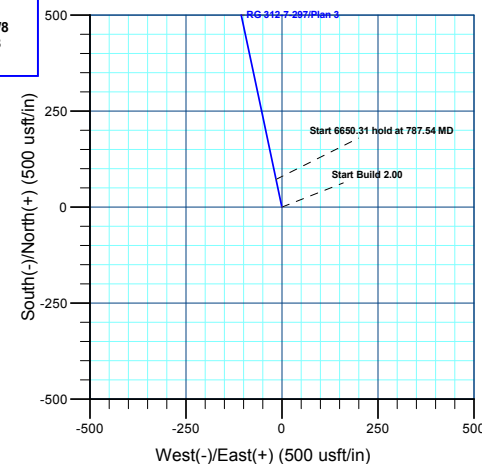
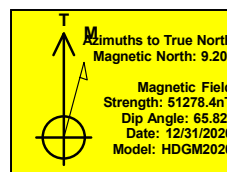
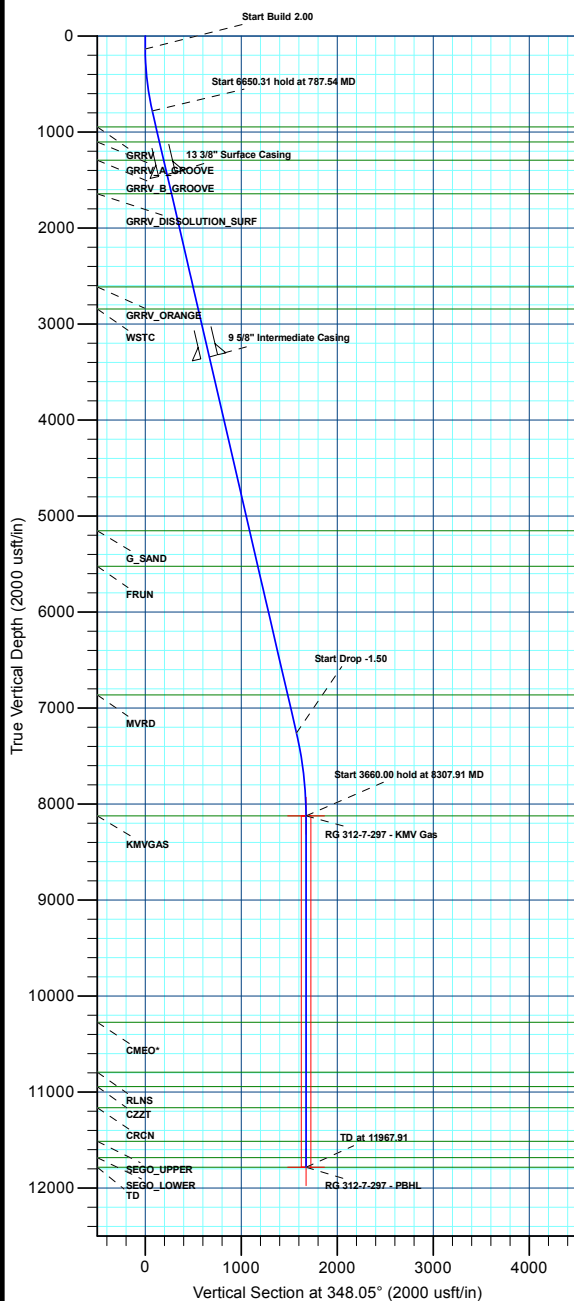
+N/-S	+E/-W	Northing	Ground Elev:	Latitude	Longitude	Slot
0.00	0.00	1760883.60	6603.00	39.888509	-108.328976	RG 312-7-297

## CASING DETAILS

TVD	MD	Name	Size
1443.00	1466.16	13 3/8" Surface Casing	13-3/8
3343.00	3416.53	9 5/8" Intermediate Casing	9-5/8

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
948.00	958.03	GRRV
1103.00	1117.14	GRRV_A_GROOVE
1293.00	1312.18	GRRV_B_GROOVE
1643.00	1671.46	GRRV DISSOLUTION_SURF
2613.00	2667.18	GRRV_ORANGE
2843.00	2903.28	WSTC
5153.00	5274.53	G_SAND
5523.00	5654.34	FRUN
6863.00	7029.87	MVRD
8123.00	8307.91	KMVGAS
10273.00	10457.91	CMEQ*
10793.00	10977.91	RLNS
10943.00	11127.91	CZZT
11163.00	11347.91	CRCN
11513.00	11697.91	SEGO_UPPER
11683.00	11867.91	SEGO_LOWER
11783.00	11967.91	TD



Plan: Plan 3 (RG 312-7-297/Wellbore #1)

Created By: Chase Chambers Date: 14:58, April 06 2022



## **Terra Energy Partners, LLP**

**Rio Blanco County, CO**

**RGU 23-7-297 Pad**

**RG 312-7-297 - Slot RG 312-7-297**

**Wellbore #1**

**Plan: Plan 3**

## **KLX Well Planning Report**

**22 March, 2022**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 312-7-297 - Slot RG 312-7-297
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 312-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 3		

<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		

Site		RGU 23-7-297 Pad			
Site Position:		Northing:	1,760,880.90 usft	Latitude:	39.888499
From:	Map	Easting:	2,206,203.50 usft	Longitude:	-108.329114
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.78

Well	RG 312-7-297 - Slot RG 312-7-297					
Well Position	+N/-S	3.90 usft	Northing:	1,760,883.60 usft	Latitude:	39.888510
	+E/-W	38.60 usft	Easting:	2,206,242.20 usft	Longitude:	-108.328977
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,603.00 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	65.82	51,278.40000000

<b>Design</b>	Plan 3			
<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	348.05

<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	
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
787.54	13.05	348.05	781.91	72.39	-15.32	2.00	2.00	0.00	348.05	
7,437.86	13.05	348.05	7,260.45	1,541.57	-326.34	0.00	0.00	0.00	0.00	
8,307.91	0.00	0.00	8,123.00	1,638.10	-346.77	1.50	-1.50	0.00	180.00	RG 312-7-297 - KMV
11,967.91	0.00	0.00	11,783.00	1,638.10	-346.77	0.00	0.00	0.00	0.00	RG 312-7-297 - PBHL

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<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 312-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 3		

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
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>									
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.30	348.05	199.99	0.72	-0.15	0.74	2.00	2.00	0.00
300.00	3.30	348.05	299.91	4.65	-0.98	4.75	2.00	2.00	0.00
400.00	5.30	348.05	399.62	11.98	-2.54	12.25	2.00	2.00	0.00
500.00	7.30	348.05	499.01	22.72	-4.81	23.22	2.00	2.00	0.00
600.00	9.30	348.05	597.96	36.84	-7.80	37.66	2.00	2.00	0.00
700.00	11.30	348.05	696.34	54.33	-11.50	55.53	2.00	2.00	0.00
<b>Start 6650.31 hold at 787.54 MD</b>									
787.54	13.05	348.05	781.91	72.39	-15.32	74.00	2.00	2.00	0.00
800.00	13.05	348.05	794.05	75.15	-15.91	76.81	0.00	0.00	0.00
900.00	13.05	348.05	891.47	97.24	-20.58	99.39	0.00	0.00	0.00
<b>GRRV</b>									
958.03	13.05	348.05	948.00	110.06	-23.30	112.50	0.00	0.00	0.00
1,000.00	13.05	348.05	988.88	119.33	-25.26	121.97	0.00	0.00	0.00
1,100.00	13.05	348.05	1,086.30	141.42	-29.94	144.55	0.00	0.00	0.00
<b>GRRV_A_GROOVE</b>									
1,117.14	13.05	348.05	1,103.00	145.21	-30.74	148.43	0.00	0.00	0.00
1,200.00	13.05	348.05	1,183.72	163.51	-34.61	167.14	0.00	0.00	0.00
1,300.00	13.05	348.05	1,281.14	185.60	-39.29	189.72	0.00	0.00	0.00
<b>GRRV_B_GROOVE</b>									
1,312.18	13.05	348.05	1,293.00	188.30	-39.86	192.47	0.00	0.00	0.00
1,400.00	13.05	348.05	1,378.55	207.70	-43.97	212.30	0.00	0.00	0.00
<b>13 3/8" Surface Casing</b>									
1,466.16	13.05	348.05	1,443.00	222.31	-47.06	227.24	0.00	0.00	0.00
1,500.00	13.05	348.05	1,475.97	229.79	-48.64	234.88	0.00	0.00	0.00
1,600.00	13.05	348.05	1,573.39	251.88	-53.32	257.46	0.00	0.00	0.00
<b>GRRV DISSOLUTION_SURF</b>									
1,671.46	13.05	348.05	1,643.00	267.67	-56.66	273.60	0.00	0.00	0.00
1,700.00	13.05	348.05	1,670.80	273.97	-58.00	280.04	0.00	0.00	0.00
1,800.00	13.05	348.05	1,768.22	296.06	-62.67	302.63	0.00	0.00	0.00
1,900.00	13.05	348.05	1,865.64	318.16	-67.35	325.21	0.00	0.00	0.00
2,000.00	13.05	348.05	1,963.05	340.25	-72.03	347.79	0.00	0.00	0.00
2,100.00	13.05	348.05	2,060.47	362.34	-76.70	370.37	0.00	0.00	0.00
2,200.00	13.05	348.05	2,157.89	384.43	-81.38	392.95	0.00	0.00	0.00
2,300.00	13.05	348.05	2,255.31	406.52	-86.06	415.53	0.00	0.00	0.00
2,400.00	13.05	348.05	2,352.72	428.62	-90.73	438.11	0.00	0.00	0.00
2,500.00	13.05	348.05	2,450.14	450.71	-95.41	460.70	0.00	0.00	0.00
2,600.00	13.05	348.05	2,547.56	472.80	-100.09	483.28	0.00	0.00	0.00
<b>GRRV_ORANGE</b>									
2,667.18	13.05	348.05	2,613.00	487.64	-103.23	498.45	0.00	0.00	0.00
2,700.00	13.05	348.05	2,644.97	494.89	-104.76	505.86	0.00	0.00	0.00
2,800.00	13.05	348.05	2,742.39	516.98	-109.44	528.44	0.00	0.00	0.00
2,900.00	13.05	348.05	2,839.81	539.08	-114.12	551.02	0.00	0.00	0.00
<b>WSTC</b>									
2,903.28	13.05	348.05	2,843.00	539.80	-114.27	551.76	0.00	0.00	0.00
3,000.00	13.05	348.05	2,937.22	561.17	-118.79	573.60	0.00	0.00	0.00
3,100.00	13.05	348.05	3,034.64	583.26	-123.47	596.18	0.00	0.00	0.00
3,200.00	13.05	348.05	3,132.06	605.35	-128.15	618.77	0.00	0.00	0.00
3,300.00	13.05	348.05	3,229.48	627.44	-132.82	641.35	0.00	0.00	0.00
3,400.00	13.05	348.05	3,326.89	649.53	-137.50	663.93	0.00	0.00	0.00

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<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 312-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 3		

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>									
3,416.53	13.05	348.05	3,343.00	653.19	-138.27	667.66	0.00	0.00	0.00
3,500.00	13.05	348.05	3,424.31	671.63	-142.18	686.51	0.00	0.00	0.00
3,600.00	13.05	348.05	3,521.73	693.72	-146.85	709.09	0.00	0.00	0.00
3,700.00	13.05	348.05	3,619.14	715.81	-151.53	731.67	0.00	0.00	0.00
3,800.00	13.05	348.05	3,716.56	737.90	-156.21	754.26	0.00	0.00	0.00
3,900.00	13.05	348.05	3,813.98	759.99	-160.88	776.84	0.00	0.00	0.00
4,000.00	13.05	348.05	3,911.39	782.09	-165.56	799.42	0.00	0.00	0.00
4,100.00	13.05	348.05	4,008.81	804.18	-170.24	822.00	0.00	0.00	0.00
4,200.00	13.05	348.05	4,106.23	826.27	-174.91	844.58	0.00	0.00	0.00
4,300.00	13.05	348.05	4,203.65	848.36	-179.59	867.16	0.00	0.00	0.00
4,400.00	13.05	348.05	4,301.06	870.45	-184.27	889.74	0.00	0.00	0.00
4,500.00	13.05	348.05	4,398.48	892.55	-188.94	912.33	0.00	0.00	0.00
4,600.00	13.05	348.05	4,495.90	914.64	-193.62	934.91	0.00	0.00	0.00
4,700.00	13.05	348.05	4,593.31	936.73	-198.30	957.49	0.00	0.00	0.00
4,800.00	13.05	348.05	4,690.73	958.82	-202.97	980.07	0.00	0.00	0.00
4,900.00	13.05	348.05	4,788.15	980.91	-207.65	1,002.65	0.00	0.00	0.00
5,000.00	13.05	348.05	4,885.57	1,003.01	-212.33	1,025.23	0.00	0.00	0.00
5,100.00	13.05	348.05	4,982.98	1,025.10	-217.00	1,047.81	0.00	0.00	0.00
5,200.00	13.05	348.05	5,080.40	1,047.19	-221.68	1,070.40	0.00	0.00	0.00
<b>G_SAND</b>									
5,274.53	13.05	348.05	5,153.00	1,063.65	-225.17	1,087.22	0.00	0.00	0.00
5,300.00	13.05	348.05	5,177.82	1,069.28	-226.36	1,092.98	0.00	0.00	0.00
5,400.00	13.05	348.05	5,275.23	1,091.37	-231.03	1,115.56	0.00	0.00	0.00
5,500.00	13.05	348.05	5,372.65	1,113.46	-235.71	1,138.14	0.00	0.00	0.00
5,600.00	13.05	348.05	5,470.07	1,135.56	-240.39	1,160.72	0.00	0.00	0.00
<b>FRUN</b>									
5,654.34	13.05	348.05	5,523.00	1,147.56	-242.93	1,172.99	0.00	0.00	0.00
5,700.00	13.05	348.05	5,567.48	1,157.65	-245.06	1,183.30	0.00	0.00	0.00
5,800.00	13.05	348.05	5,664.90	1,179.74	-249.74	1,205.88	0.00	0.00	0.00
5,900.00	13.05	348.05	5,762.32	1,201.83	-254.42	1,228.47	0.00	0.00	0.00
6,000.00	13.05	348.05	5,859.74	1,223.92	-259.09	1,251.05	0.00	0.00	0.00
6,100.00	13.05	348.05	5,957.15	1,246.02	-263.77	1,273.63	0.00	0.00	0.00
6,200.00	13.05	348.05	6,054.57	1,268.11	-268.45	1,296.21	0.00	0.00	0.00
6,300.00	13.05	348.05	6,151.99	1,290.20	-273.12	1,318.79	0.00	0.00	0.00
6,400.00	13.05	348.05	6,249.40	1,312.29	-277.80	1,341.37	0.00	0.00	0.00
6,500.00	13.05	348.05	6,346.82	1,334.38	-282.48	1,363.96	0.00	0.00	0.00
6,600.00	13.05	348.05	6,444.24	1,356.48	-287.15	1,386.54	0.00	0.00	0.00
6,700.00	13.05	348.05	6,541.65	1,378.57	-291.83	1,409.12	0.00	0.00	0.00
6,800.00	13.05	348.05	6,639.07	1,400.66	-296.51	1,431.70	0.00	0.00	0.00
6,900.00	13.05	348.05	6,736.49	1,422.75	-301.18	1,454.28	0.00	0.00	0.00
7,000.00	13.05	348.05	6,833.91	1,444.84	-305.86	1,476.86	0.00	0.00	0.00
<b>MVRD</b>									
7,029.87	13.05	348.05	6,863.00	1,451.44	-307.26	1,483.61	0.00	0.00	0.00
7,100.00	13.05	348.05	6,931.32	1,466.94	-310.54	1,499.44	0.00	0.00	0.00
7,200.00	13.05	348.05	7,028.74	1,489.03	-315.21	1,522.03	0.00	0.00	0.00
7,300.00	13.05	348.05	7,126.16	1,511.12	-319.89	1,544.61	0.00	0.00	0.00
7,400.00	13.05	348.05	7,223.57	1,533.21	-324.57	1,567.19	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
7,437.86	13.05	348.05	7,260.45	1,541.57	-326.34	1,575.74	0.00	0.00	0.00
7,500.00	12.12	348.05	7,321.10	1,554.82	-329.14	1,589.28	1.50	-1.50	0.00
7,600.00	10.62	348.05	7,419.14	1,574.10	-333.22	1,608.99	1.50	-1.50	0.00
7,700.00	9.12	348.05	7,517.65	1,590.87	-336.77	1,626.13	1.50	-1.50	0.00

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<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 312-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 3		

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)	
7,800.00	7.62	348.05	7,616.59	1,605.11	-339.79	1,640.68	1.50	-1.50	0.00	
7,900.00	6.12	348.05	7,715.87	1,616.81	-342.26	1,652.64	1.50	-1.50	0.00	
8,000.00	4.62	348.05	7,815.43	1,625.96	-344.20	1,662.00	1.50	-1.50	0.00	
8,100.00	3.12	348.05	7,915.19	1,632.56	-345.60	1,668.74	1.50	-1.50	0.00	
8,200.00	1.62	348.05	8,015.11	1,636.61	-346.46	1,672.88	1.50	-1.50	0.00	
<b>Start 3660.00 hold at 8307.91 MD - KVMGAS</b>										
8,307.91	0.00	0.00	8,123.00	1,638.10	-346.77	1,674.40	1.50	-1.50	0.00	
8,400.00	0.00	0.00	8,215.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,315.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,415.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,515.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,615.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,715.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,815.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,915.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,015.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,115.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,215.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,315.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,415.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,515.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,615.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,715.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,815.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,915.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,015.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,115.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,215.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
<b>CMEQ*</b>										
10,457.91	0.00	0.00	10,273.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,315.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,415.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,515.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,615.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,715.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
<b>RLNS</b>										
10,977.91	0.00	0.00	10,793.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,815.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,100.00	0.00	0.00	10,915.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
<b>CZZT</b>										
11,127.91	0.00	0.00	10,943.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,200.00	0.00	0.00	11,015.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,115.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
<b>CRCN</b>										
11,347.91	0.00	0.00	11,163.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,215.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,315.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,415.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
<b>SEGO_UPPER</b>										
11,697.91	0.00	0.00	11,513.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,515.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,615.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
<b>SEGO_LOWER</b>										

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 312-7-297 - Slot RG 312-7-297
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 312-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 3		

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)
11,867.91	0.00	0.00	11,683.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
11,900.00	0.00	0.00	11,715.09	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
TD at 11967.91 - TD									
11,967.91	0.00	0.00	11,783.00	1,638.10	-346.77	1,674.40	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
- hit/miss target									
- Shape									
RG 312-7-297 - KMV G&S - plan hits target center - Circle (radius 50.00)	0.00	0.00	8,123.00	1,638.10	-346.77	1,762,531.70	2,205,946.60	39.893006	-108.330212
RG 312-7-297 - PBHL - plan hits target center - Point	0.00	0.00	11,783.00	1,638.10	-346.77	1,762,531.70	2,205,946.60	39.893006	-108.330212

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,466.16	1,443.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,416.53	3,343.00	9 5/8" Intermediate Casing	9-5/8	12-1/4	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
958.03	948.00	GRRV				
1,117.14	1,103.00	GRRV_A_GROOVE				
1,312.18	1,293.00	GRRV_B_GROOVE				
1,671.46	1,643.00	GRRV DISSOLUTION_SURF				
2,667.18	2,613.00	GRRV_ORANGE				
2,903.28	2,843.00	WSTC				
5,274.53	5,153.00	G_SAND				
5,654.34	5,523.00	FRUN				
7,029.87	6,863.00	MVRD				
8,307.91	8,123.00	KMVGAS				
10,457.91	10,273.00	CMEO*				
10,977.91	10,793.00	RLNS				
11,127.91	10,943.00	CZZT				
11,347.91	11,163.00	CRCN				
11,697.91	11,513.00	SEGO_UPPER				
11,867.91	11,683.00	SEGO_LOWER				
11,967.91	11,783.00	TD				

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 312-7-297 - Slot RG 312-7-297
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6633.00usft (H&P #329)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 312-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 3		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
135.00	135.00	0.00	0.00	Start Build 2.00
787.54	781.91	72.39	-15.32	Start 6650.31 hold at 787.54 MD
7,437.86	7,260.45	1,541.57	-326.34	Start Drop -1.50
8,307.91	8,123.00	1,638.10	-346.77	Start 3660.00 hold at 8307.91 MD
11,967.91	11,783.00	1,638.10	-346.77	TD at 11967.91