

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 512-7-297 - Slot RG 512-7-297, True North
 Vertical (TVD) Reference: KB=30' @ 6633.00usft (H&P #329)
 Section (VS) Reference: Slot - RG 512-7-297(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 512-7-297 - KMW Gas	8083.00	905.27	-345.85	1761802.10	2205910.00	39.891001	-108.330261	Circle (Radius: 50.00)
RG 512-7-297 - PBHL	11743.00	905.27	-345.85	1761802.10	2205910.00	39.891001	-108.330261	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
502.20	7.34	339.09	501.20	21.95	-8.39	23.50	23.50	Start 7152.21 hold at 502.20 MD
7654.41	7.34	339.09	7594.73	876.00	-334.67	937.75	937.75	Start Drop -1.50
8144.02	0.00	0.00	8083.00	905.27	-345.85	969.09	969.09	Start 3660.00 hold at 8144.02 MD
11804.02	0.00	0.00	11743.00	905.27	-345.85	969.09	969.09	TD at 11804.02

WELL DETAILS: RG 512-7-297

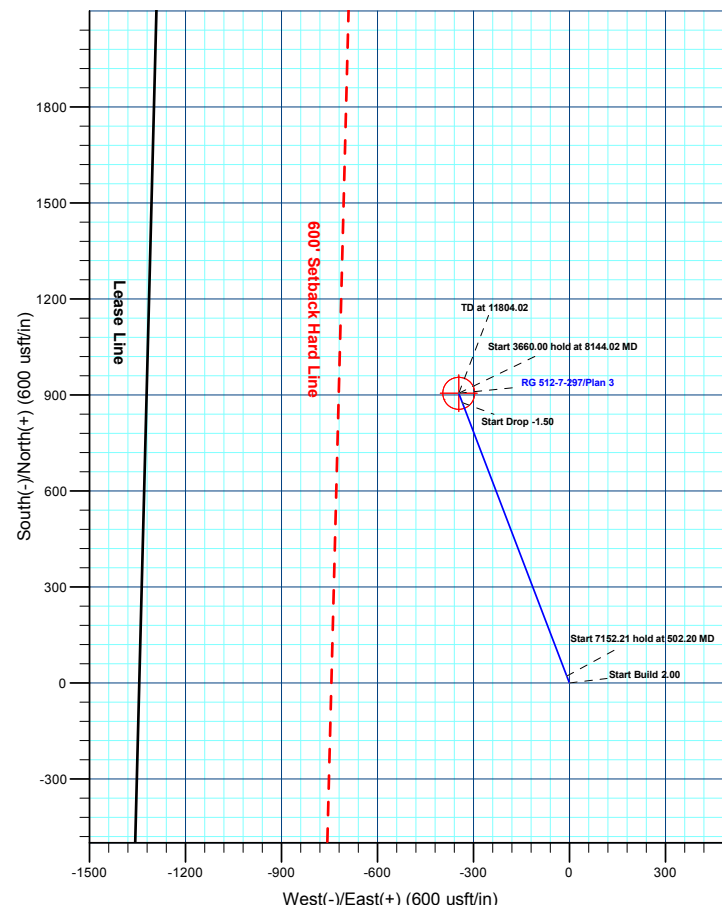
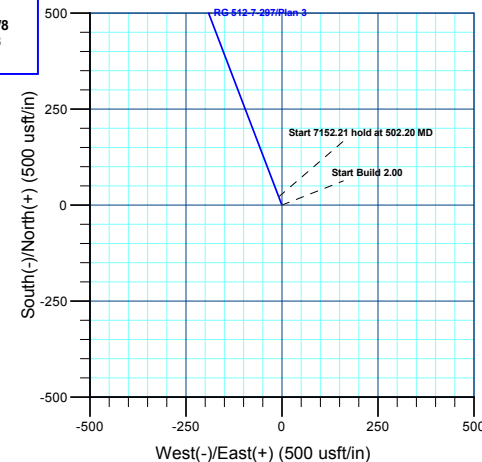
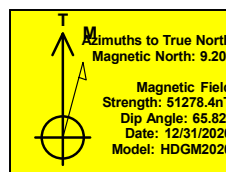
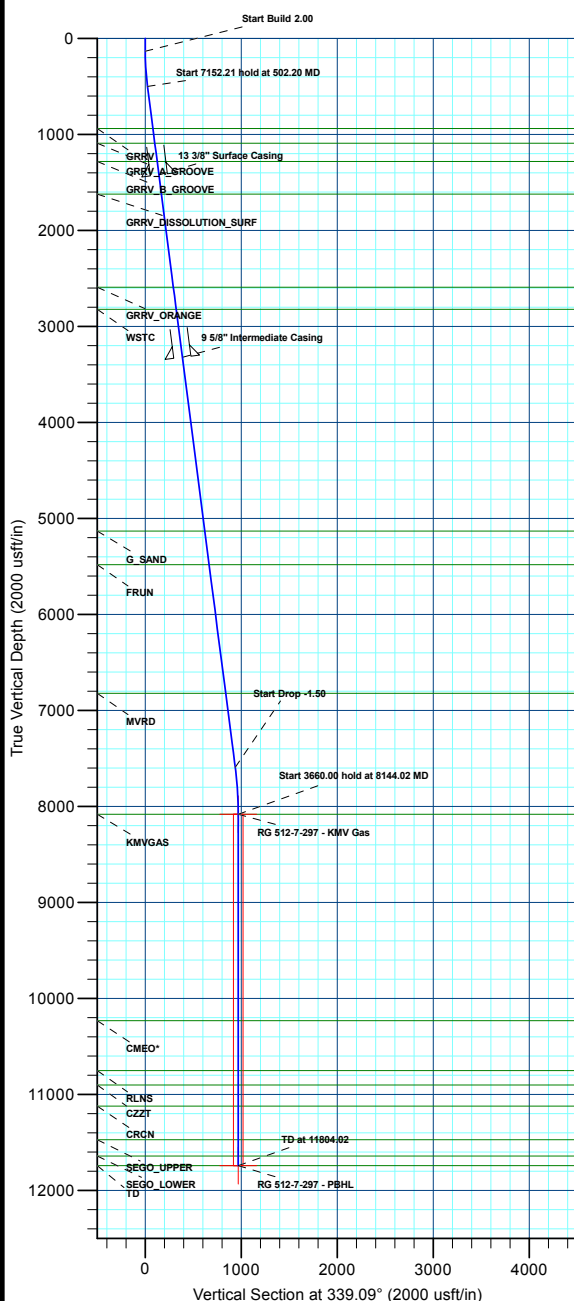
+N/-S	+E/-W	Northing	Ground Elev:	Latitude	Longitude	Slot
0.00	0.00	1760886.50	6603.00	39.888516	-108.329029	RG 512-7-297

CASING DETAILS

TVD	MD	Name	Size
1423.00	1431.63	13 3/8" Surface Casing	13-3/8
3323.00	3347.38	5/8" Intermediate Casing	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
938.00	942.62	GRRV
1093.00	1098.90	GRRV_A_GROOVE
1283.00	1290.47	GRRV_B_GROOVE
1623.00	1633.28	GRRV DISSOLUTION_SURF
2593.00	2611.31	GRRV_ORANGE
2823.00	2843.21	WSTC
5133.00	5172.32	G_SAND
5483.00	5525.21	FRUN
6823.00	6876.30	MVRD
8083.00	8144.02	KMVGAS
10233.00	10294.02	CMEQ*
10753.00	10814.02	RLNS
10903.00	10964.02	CZZT
11123.00	11184.02	CRGN
11473.00	11534.02	SEGO_UPPER
11643.00	11704.02	SEGO_LOWER
11743.00	11804.02	TD



Plan: Plan 3 (RG 512-7-297/Wellbore #1)

Created By: Chase Chambers Date: 15:14, April 06 2022



Terra Energy Partners, LLP

Rio Blanco County, CO

RGU 23-7-297 Pad

RG 512-7-297 - Slot RG 512-7-297

Wellbore #1

Plan: Plan 3

KLX Well Planning Report

22 March, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 512-7-297 - Slot RG 512-7-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6633.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6633.00usft (H&P #329)
Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	RG 512-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 3		

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 23-7-297 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 512-7-297 - Slot RG 512-7-297			
Well Position	+N/-S	6.34 usft	Northing:	1,760,886.50 usft
	+E/-W	23.81 usft	Easting:	2,206,227.50 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	Ground Level: 6,603.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	12/31/2020	9.20	65.82	51,278.40000000

Design	Plan 3			
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	339.09

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	
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
502.20	7.34	339.09	501.20	21.95	-8.39	2.00	2.00	0.00	339.09	
7,654.41	7.34	339.09	7,594.73	876.00	-334.67	0.00	0.00	0.00	0.00	
8,144.02	0.00	0.00	8,083.00	905.27	-345.85	1.50	-1.50	0.00	180.00	RG 512-7-297 - KMV
11,804.02	0.00	0.00	11,743.00	905.27	-345.85	0.00	0.00	0.00	0.00	RG 512-7-297 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 512-7-297 - Slot RG 512-7-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6633.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6633.00usft (H&P #329)
Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	RG 512-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
Start Build 2.00									
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.30	339.09	199.99	0.69	-0.26	0.74	2.00	2.00	0.00
300.00	3.30	339.09	299.91	4.44	-1.70	4.75	2.00	2.00	0.00
400.00	5.30	339.09	399.62	11.44	-4.37	12.25	2.00	2.00	0.00
Start 7152.21 hold at 502.20 MD									
502.20	7.34	339.09	501.20	21.95	-8.39	23.50	2.00	2.00	0.00
600.00	7.34	339.09	598.19	33.63	-12.85	36.00	0.00	0.00	0.00
700.00	7.34	339.09	697.37	45.57	-17.41	48.79	0.00	0.00	0.00
800.00	7.34	339.09	796.55	57.51	-21.97	61.57	0.00	0.00	0.00
900.00	7.34	339.09	895.73	69.45	-26.53	74.35	0.00	0.00	0.00
GRRV									
942.62	7.34	339.09	938.00	74.54	-28.48	79.80	0.00	0.00	0.00
1,000.00	7.34	339.09	994.91	81.40	-31.10	87.13	0.00	0.00	0.00
GRRV_A_GROOVE									
1,098.90	7.34	339.09	1,093.00	93.21	-35.61	99.78	0.00	0.00	0.00
1,100.00	7.34	339.09	1,094.09	93.34	-35.66	99.92	0.00	0.00	0.00
1,200.00	7.34	339.09	1,193.27	105.28	-40.22	112.70	0.00	0.00	0.00
GRRV_B_GROOVE									
1,290.47	7.34	339.09	1,283.00	116.08	-44.35	124.26	0.00	0.00	0.00
1,300.00	7.34	339.09	1,292.45	117.22	-44.78	125.48	0.00	0.00	0.00
1,400.00	7.34	339.09	1,391.63	129.16	-49.34	138.26	0.00	0.00	0.00
13 3/8" Surface Casing									
1,431.63	7.34	339.09	1,423.00	132.94	-50.79	142.31	0.00	0.00	0.00
1,500.00	7.34	339.09	1,490.81	141.10	-53.91	151.05	0.00	0.00	0.00
1,600.00	7.34	339.09	1,589.99	153.04	-58.47	163.83	0.00	0.00	0.00
GRRV DISSOLUTION_SURF									
1,633.28	7.34	339.09	1,623.00	157.02	-59.99	168.08	0.00	0.00	0.00
1,700.00	7.34	339.09	1,689.17	164.98	-63.03	176.61	0.00	0.00	0.00
1,800.00	7.34	339.09	1,788.35	176.92	-67.59	189.40	0.00	0.00	0.00
1,900.00	7.34	339.09	1,887.53	188.86	-72.15	202.18	0.00	0.00	0.00
2,000.00	7.34	339.09	1,986.71	200.81	-76.72	214.96	0.00	0.00	0.00
2,100.00	7.34	339.09	2,085.89	212.75	-81.28	227.74	0.00	0.00	0.00
2,200.00	7.34	339.09	2,185.07	224.69	-85.84	240.53	0.00	0.00	0.00
2,300.00	7.34	339.09	2,284.25	236.63	-90.40	253.31	0.00	0.00	0.00
2,400.00	7.34	339.09	2,383.43	248.57	-94.96	266.09	0.00	0.00	0.00
2,500.00	7.34	339.09	2,482.61	260.51	-99.53	278.88	0.00	0.00	0.00
2,600.00	7.34	339.09	2,581.79	272.45	-104.09	291.66	0.00	0.00	0.00
GRRV_ORANGE									
2,611.31	7.34	339.09	2,593.00	273.80	-104.60	293.10	0.00	0.00	0.00
2,700.00	7.34	339.09	2,680.97	284.39	-108.65	304.44	0.00	0.00	0.00
2,800.00	7.34	339.09	2,780.15	296.33	-113.21	317.22	0.00	0.00	0.00
WSTC									
2,843.21	7.34	339.09	2,823.00	301.49	-115.18	322.75	0.00	0.00	0.00
2,900.00	7.34	339.09	2,879.32	308.27	-117.77	330.01	0.00	0.00	0.00
3,000.00	7.34	339.09	2,978.50	320.22	-122.34	342.79	0.00	0.00	0.00
3,100.00	7.34	339.09	3,077.68	332.16	-126.90	355.57	0.00	0.00	0.00
3,200.00	7.34	339.09	3,176.86	344.10	-131.46	368.35	0.00	0.00	0.00
3,300.00	7.34	339.09	3,276.04	356.04	-136.02	381.14	0.00	0.00	0.00
9 5/8" Intermediate Casing									
3,347.35	7.34	339.09	3,323.00	361.69	-138.18	387.19	0.00	0.00	0.00

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Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6633.00usft (H&P #329)
Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	RG 512-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
3,400.00	7.34	339.09	3,375.22	367.98	-140.58	393.92	0.00	0.00	0.00
3,500.00	7.34	339.09	3,474.40	379.92	-145.15	406.70	0.00	0.00	0.00
3,600.00	7.34	339.09	3,573.58	391.86	-149.71	419.49	0.00	0.00	0.00
3,700.00	7.34	339.09	3,672.76	403.80	-154.27	432.27	0.00	0.00	0.00
3,800.00	7.34	339.09	3,771.94	415.74	-158.83	445.05	0.00	0.00	0.00
3,900.00	7.34	339.09	3,871.12	427.68	-163.39	457.83	0.00	0.00	0.00
4,000.00	7.34	339.09	3,970.30	439.63	-167.96	470.62	0.00	0.00	0.00
4,100.00	7.34	339.09	4,069.48	451.57	-172.52	483.40	0.00	0.00	0.00
4,200.00	7.34	339.09	4,168.66	463.51	-177.08	496.18	0.00	0.00	0.00
4,300.00	7.34	339.09	4,267.84	475.45	-181.64	508.96	0.00	0.00	0.00
4,400.00	7.34	339.09	4,367.02	487.39	-186.20	521.75	0.00	0.00	0.00
4,500.00	7.34	339.09	4,466.20	499.33	-190.77	534.53	0.00	0.00	0.00
4,600.00	7.34	339.09	4,565.38	511.27	-195.33	547.31	0.00	0.00	0.00
4,700.00	7.34	339.09	4,664.56	523.21	-199.89	560.10	0.00	0.00	0.00
4,800.00	7.34	339.09	4,763.74	535.15	-204.45	572.88	0.00	0.00	0.00
4,900.00	7.34	339.09	4,862.92	547.09	-209.01	585.66	0.00	0.00	0.00
5,000.00	7.34	339.09	4,962.10	559.04	-213.58	598.44	0.00	0.00	0.00
5,100.00	7.34	339.09	5,061.28	570.98	-218.14	611.23	0.00	0.00	0.00
G_SAND									
5,172.32	7.34	339.09	5,133.00	579.61	-221.44	620.47	0.00	0.00	0.00
5,200.00	7.34	339.09	5,160.46	582.92	-222.70	624.01	0.00	0.00	0.00
5,300.00	7.34	339.09	5,259.64	594.86	-227.26	636.79	0.00	0.00	0.00
5,400.00	7.34	339.09	5,358.82	606.80	-231.82	649.58	0.00	0.00	0.00
5,500.00	7.34	339.09	5,458.00	618.74	-236.39	662.36	0.00	0.00	0.00
FRUN									
5,525.21	7.34	339.09	5,483.00	621.75	-237.54	665.58	0.00	0.00	0.00
5,600.00	7.34	339.09	5,557.18	630.68	-240.95	675.14	0.00	0.00	0.00
5,700.00	7.34	339.09	5,656.35	642.62	-245.51	687.92	0.00	0.00	0.00
5,800.00	7.34	339.09	5,755.53	654.56	-250.07	700.71	0.00	0.00	0.00
5,900.00	7.34	339.09	5,854.71	666.50	-254.63	713.49	0.00	0.00	0.00
6,000.00	7.34	339.09	5,953.89	678.45	-259.20	726.27	0.00	0.00	0.00
6,100.00	7.34	339.09	6,053.07	690.39	-263.76	739.05	0.00	0.00	0.00
6,200.00	7.34	339.09	6,152.25	702.33	-268.32	751.84	0.00	0.00	0.00
6,300.00	7.34	339.09	6,251.43	714.27	-272.88	764.62	0.00	0.00	0.00
6,400.00	7.34	339.09	6,350.61	726.21	-277.44	777.40	0.00	0.00	0.00
6,500.00	7.34	339.09	6,449.79	738.15	-282.01	790.19	0.00	0.00	0.00
6,600.00	7.34	339.09	6,548.97	750.09	-286.57	802.97	0.00	0.00	0.00
6,700.00	7.34	339.09	6,648.15	762.03	-291.13	815.75	0.00	0.00	0.00
6,800.00	7.34	339.09	6,747.33	773.97	-295.69	828.53	0.00	0.00	0.00
MVRD									
6,876.30	7.34	339.09	6,823.00	783.08	-299.17	838.29	0.00	0.00	0.00
6,900.00	7.34	339.09	6,846.51	785.91	-300.25	841.32	0.00	0.00	0.00
7,000.00	7.34	339.09	6,945.69	797.86	-304.82	854.10	0.00	0.00	0.00
7,100.00	7.34	339.09	7,044.87	809.80	-309.38	866.88	0.00	0.00	0.00
7,200.00	7.34	339.09	7,144.05	821.74	-313.94	879.67	0.00	0.00	0.00
7,300.00	7.34	339.09	7,243.23	833.68	-318.50	892.45	0.00	0.00	0.00
7,400.00	7.34	339.09	7,342.41	845.62	-323.06	905.23	0.00	0.00	0.00
7,500.00	7.34	339.09	7,441.59	857.56	-327.63	918.01	0.00	0.00	0.00
7,600.00	7.34	339.09	7,540.77	869.50	-332.19	930.80	0.00	0.00	0.00
Start Drop -1.50									
7,654.41	7.34	339.09	7,594.73	876.00	-334.67	937.75	0.00	0.00	0.00
7,700.00	6.66	339.09	7,639.98	881.19	-336.65	943.31	1.50	-1.50	0.00
7,800.00	5.16	339.09	7,739.45	890.81	-340.33	953.61	1.50	-1.50	0.00

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Wellbore:	Wellbore #1		
Design:	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)
7,900.00	3.66	339.09	7,839.15	897.99	-343.07	961.30	1.50	-1.50	0.00
8,000.00	2.16	339.09	7,939.02	902.73	-344.89	966.37	1.50	-1.50	0.00
8,100.00	0.66	339.09	8,038.98	905.03	-345.76	968.83	1.50	-1.50	0.00
Start 3660.00 hold at 8144.02 MD - KMGAS									
8,144.02	0.00	0.00	8,083.00	905.27	-345.85	969.09	1.50	-1.50	0.00
8,200.00	0.00	0.00	8,138.98	905.27	-345.85	969.09	0.00	0.00	0.00
8,300.00	0.00	0.00	8,238.98	905.27	-345.85	969.09	0.00	0.00	0.00
8,400.00	0.00	0.00	8,338.98	905.27	-345.85	969.09	0.00	0.00	0.00
8,500.00	0.00	0.00	8,438.98	905.27	-345.85	969.09	0.00	0.00	0.00
8,600.00	0.00	0.00	8,538.98	905.27	-345.85	969.09	0.00	0.00	0.00
8,700.00	0.00	0.00	8,638.98	905.27	-345.85	969.09	0.00	0.00	0.00
8,800.00	0.00	0.00	8,738.98	905.27	-345.85	969.09	0.00	0.00	0.00
8,900.00	0.00	0.00	8,838.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,000.00	0.00	0.00	8,938.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,100.00	0.00	0.00	9,038.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,200.00	0.00	0.00	9,138.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,300.00	0.00	0.00	9,238.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,400.00	0.00	0.00	9,338.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,500.00	0.00	0.00	9,438.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,600.00	0.00	0.00	9,538.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,700.00	0.00	0.00	9,638.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,800.00	0.00	0.00	9,738.98	905.27	-345.85	969.09	0.00	0.00	0.00
9,900.00	0.00	0.00	9,838.98	905.27	-345.85	969.09	0.00	0.00	0.00
10,000.00	0.00	0.00	9,938.98	905.27	-345.85	969.09	0.00	0.00	0.00
10,100.00	0.00	0.00	10,038.98	905.27	-345.85	969.09	0.00	0.00	0.00
10,200.00	0.00	0.00	10,138.98	905.27	-345.85	969.09	0.00	0.00	0.00
CMEQ*									
10,294.02	0.00	0.00	10,233.00	905.27	-345.85	969.09	0.00	0.00	0.00
10,300.00	0.00	0.00	10,238.98	905.27	-345.85	969.09	0.00	0.00	0.00
10,400.00	0.00	0.00	10,338.98	905.27	-345.85	969.09	0.00	0.00	0.00
10,500.00	0.00	0.00	10,438.98	905.27	-345.85	969.09	0.00	0.00	0.00
10,600.00	0.00	0.00	10,538.98	905.27	-345.85	969.09	0.00	0.00	0.00
10,700.00	0.00	0.00	10,638.98	905.27	-345.85	969.09	0.00	0.00	0.00
10,800.00	0.00	0.00	10,738.98	905.27	-345.85	969.09	0.00	0.00	0.00
RLNS									
10,814.02	0.00	0.00	10,753.00	905.27	-345.85	969.09	0.00	0.00	0.00
10,900.00	0.00	0.00	10,838.98	905.27	-345.85	969.09	0.00	0.00	0.00
CZZT									
10,964.02	0.00	0.00	10,903.00	905.27	-345.85	969.09	0.00	0.00	0.00
11,000.00	0.00	0.00	10,938.98	905.27	-345.85	969.09	0.00	0.00	0.00
11,100.00	0.00	0.00	11,038.98	905.27	-345.85	969.09	0.00	0.00	0.00
CRCN									
11,184.02	0.00	0.00	11,123.00	905.27	-345.85	969.09	0.00	0.00	0.00
11,200.00	0.00	0.00	11,138.98	905.27	-345.85	969.09	0.00	0.00	0.00
11,300.00	0.00	0.00	11,238.98	905.27	-345.85	969.09	0.00	0.00	0.00
11,400.00	0.00	0.00	11,338.98	905.27	-345.85	969.09	0.00	0.00	0.00
11,500.00	0.00	0.00	11,438.98	905.27	-345.85	969.09	0.00	0.00	0.00
SEGO_UPPER									
11,534.02	0.00	0.00	11,473.00	905.27	-345.85	969.09	0.00	0.00	0.00
11,600.00	0.00	0.00	11,538.98	905.27	-345.85	969.09	0.00	0.00	0.00
11,700.00	0.00	0.00	11,638.98	905.27	-345.85	969.09	0.00	0.00	0.00
SEGO_LOWER									
11,704.02	0.00	0.00	11,643.00	905.27	-345.85	969.09	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 512-7-297 - Slot RG 512-7-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6633.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6633.00usft (H&P #329)
Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	RG 512-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)	
TD at 11804.02 - TD										
11,804.02	0.00	0.00	11,743.00	905.27	-345.85	969.09	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	
RG 512-7-297 - KMG - plan hits target center - Circle (radius 50.00)	0.00	0.00	8,083.00	905.27	-345.85	1,761,802.10	2,205,910.00	39.891001	-108.330262	
RG 512-7-297 - PBHL - plan hits target center - Point	0.00	0.00	11,743.00	905.27	-345.85	1,761,802.10	2,205,910.00	39.891001	-108.330262	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,431.63	1,423.00	13 3/8" Surface Casing	13-3/8	17-1/2		
3,347.35	3,323.00	9 5/8" Intermediate Casing	9-5/8	12-1/4		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
942.62	938.00	GRRV				
1,098.90	1,093.00	GRRV_A_GROOVE				
1,290.47	1,283.00	GRRV_B_GROOVE				
1,633.28	1,623.00	GRRV DISSOLUTION_SURF				
2,611.31	2,593.00	GRRV_ORANGE				
2,843.21	2,823.00	WSTC				
5,172.32	5,133.00	G_SAND				
5,525.21	5,483.00	FRUN				
6,876.30	6,823.00	MVRD				
8,144.02	8,083.00	KMVGAS				
10,294.02	10,233.00	CME0*				
10,814.02	10,753.00	RLNS				
10,964.02	10,903.00	CZZT				
11,184.02	11,123.00	CRCN				
11,534.02	11,473.00	SEGO_UPPER				
11,704.02	11,643.00	SEGO_LOWER				
11,804.02	11,743.00	TD				

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 512-7-297 - Slot RG 512-7-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6633.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6633.00usft (H&P #329)
Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	RG 512-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
502.20	501.20	21.95	-8.39	Start 7152.21 hold at 502.20 MD
7,654.41	7,594.73	876.00	-334.67	Start Drop -1.50
8,144.02	8,083.00	905.27	-345.85	Start 3660.00 hold at 8144.02 MD
11,804.02	11,743.00	905.27	-345.85	TD at 11804.02