

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 11-18-297 - Slot RG 11-18-297, True North
 Vertical (TVD) Reference: KB=30' @ 6633.00usft (H&P #329)
 Section (VS) Reference: Slot - RG 11-18-297(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 11-18-297 - KMW Gas	7923.00	-1916.72	-372.30	1758972.40	2205793.80	39.883227	-108.330361	Circle (Radius: 50.00)
RG 11-18-297 - PBHL	11583.00	-1916.72	-372.30	1758972.40	2205793.80	39.883227	-108.330361	Point

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
913.10	15.86	190.99	903.01	-107.08	-20.80	109.08	109.08	Start 6212.54 hold at 913.10 MD
7125.64	15.86	190.99	6878.99	-1773.95	-344.57	1807.10	1807.10	Start Drop -1.50
8183.10	0.00	0.00	7923.00	-1916.72	-372.30	1952.54	1952.54	Start 3660.00 hold at 8183.10 MD
11843.10	0.00	0.00	11583.00	-1916.72	-372.30	1952.54	1952.54	TD at 11843.10

WELL DETAILS: RG 11-18-297

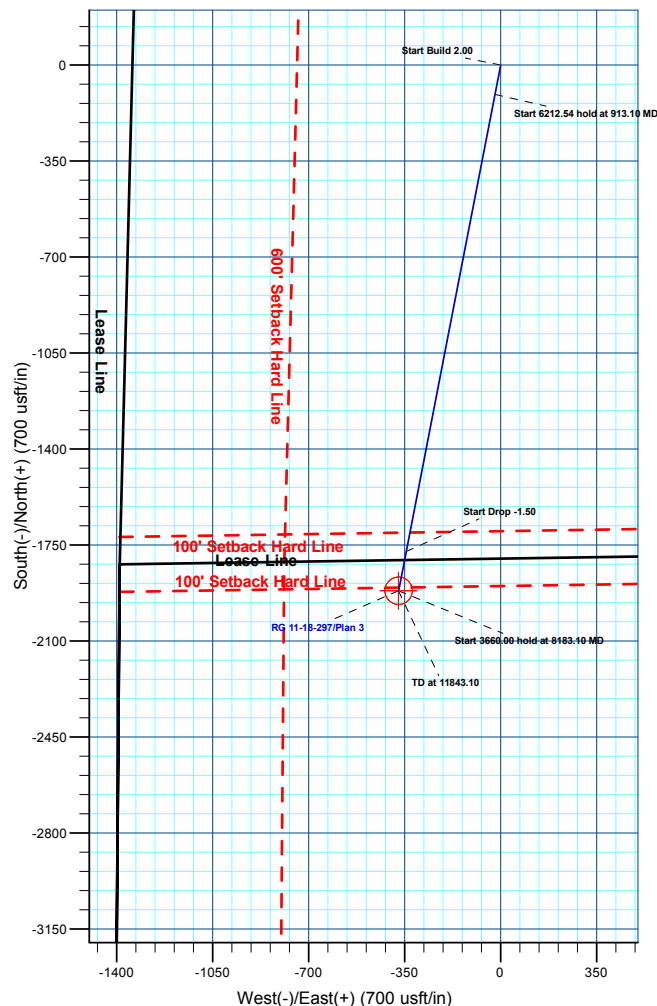
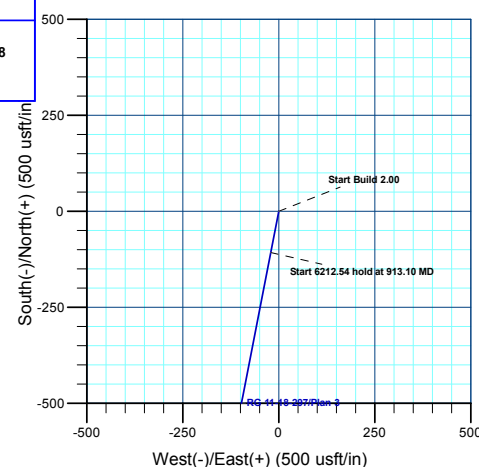
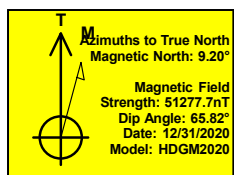
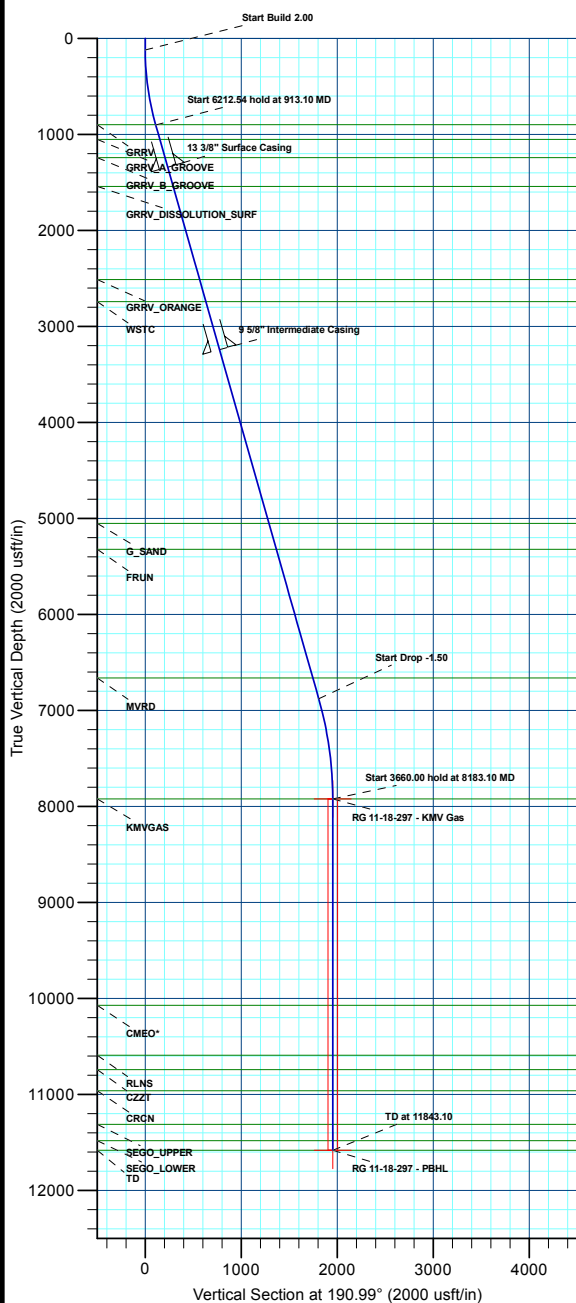
+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1760876.60	6603.00	39.888489	-108.329035	RG 11-18-297

CASING DETAILS

TVD	MD	Name	Size
1343.00	1370.51	13 3/8" Surface Casing	13-3/8
3243.00	3345.72	5/8" Intermediate Casing	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
898.00	907.90	GRRV
1053.00	1069.03	GRRV_A_GROOVE
1243.00	1266.55	GRRV_B_GROOVE
1543.00	1578.43	GRRV DISSOLUTION_SURF
2513.00	2586.82	GRRV_ORANGE
2743.00	2825.93	WSTC
5053.00	5227.37	G_SAND
5323.00	5508.05	FRUN
6663.00	6901.10	MVRD
7923.00	8183.10	KMVGAS
10073.00	10333.10	CMEO*
10593.00	10853.10	RLNS
10743.00	11003.10	CZZT
10963.00	11223.10	CRCN
11313.00	11573.10	SEGO_UPPER
11483.00	11743.10	SEGO_LOWER
11583.00	11843.10	TD





Terra Energy Partners, LLP

Rio Blanco County, CO

RGU 23-7-297 Pad

RG 11-18-297 - Slot RG 11-18-297

Wellbore #1

Plan: Plan 3

KLX Well Planning Report

21 March, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 11-18-297 - Slot RG 11-18-297
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 11-18-297	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 11-18-297 - Slot RG 11-18-297					
Well Position	+N/-S	-3.61 usft	Northing:	1,760,876.60 usft	Latitude:	39.888489
	+E/-W	22.22 usft	Easting:	2,206,225.60 usft	Longitude:	-108.329035
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	51,277.70000000

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	190.99

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	
913.10	15.86	190.99	903.01	-107.08	-20.80	2.00	2.00	0.00	190.99	
7,125.64	15.86	190.99	6,878.99	-1,773.95	-344.57	0.00	0.00	0.00	0.00	
8,183.10	0.00	0.00	7,923.00	-1,916.72	-372.30	1.50	-1.50	0.00	180.00	RG 11-18-297 - KMV
11,843.10	0.00	0.00	11,583.00	-1,916.72	-372.30	0.00	0.00	0.00	0.00	RG 11-18-297 - PBHL

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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 11-18-297	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									
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.60	190.99	199.99	-1.10	-0.21	1.12	2.00	2.00	0.00
300.00	3.60	190.99	299.88	-5.55	-1.08	5.65	2.00	2.00	0.00
400.00	5.60	190.99	399.55	-13.42	-2.61	13.67	2.00	2.00	0.00
500.00	7.60	190.99	498.89	-24.70	-4.80	25.17	2.00	2.00	0.00
600.00	9.60	190.99	597.76	-39.38	-7.65	40.12	2.00	2.00	0.00
700.00	11.60	190.99	696.05	-57.44	-11.16	58.51	2.00	2.00	0.00
800.00	13.60	190.99	793.63	-78.85	-15.32	80.33	2.00	2.00	0.00
900.00	15.60	190.99	890.40	-103.60	-20.12	105.53	2.00	2.00	0.00
GRRV									
907.90	15.76	190.99	898.00	-105.69	-20.53	107.67	2.00	2.00	0.00
Start 6212.54 hold at 913.10 MD									
913.10	15.86	190.99	903.01	-107.08	-20.80	109.08	2.00	2.00	0.00
1,000.00	15.86	190.99	986.60	-130.40	-25.33	132.83	0.00	0.00	0.00
GRRV_A_GROOVE									
1,069.03	15.86	190.99	1,053.00	-148.92	-28.93	151.70	0.00	0.00	0.00
1,100.00	15.86	190.99	1,082.79	-157.23	-30.54	160.17	0.00	0.00	0.00
1,200.00	15.86	190.99	1,178.98	-184.06	-35.75	187.50	0.00	0.00	0.00
GRRV_B_GROOVE									
1,266.55	15.86	190.99	1,243.00	-201.91	-39.22	205.69	0.00	0.00	0.00
1,300.00	15.86	190.99	1,275.18	-210.89	-40.96	214.83	0.00	0.00	0.00
13 3/8" Surface Casing									
1,370.51	15.86	190.99	1,343.00	-229.81	-44.64	234.10	0.00	0.00	0.00
1,400.00	15.86	190.99	1,371.37	-237.72	-46.17	242.16	0.00	0.00	0.00
1,500.00	15.86	190.99	1,467.56	-264.55	-51.39	269.50	0.00	0.00	0.00
GRRV DISSOLUTION_SURF									
1,578.43	15.86	190.99	1,543.00	-285.59	-55.47	290.93	0.00	0.00	0.00
1,600.00	15.86	190.99	1,563.75	-291.38	-56.60	296.83	0.00	0.00	0.00
1,700.00	15.86	190.99	1,659.95	-318.21	-61.81	324.16	0.00	0.00	0.00
1,800.00	15.86	190.99	1,756.14	-345.04	-67.02	351.49	0.00	0.00	0.00
1,900.00	15.86	190.99	1,852.33	-371.87	-72.23	378.82	0.00	0.00	0.00
2,000.00	15.86	190.99	1,948.52	-398.70	-77.44	406.16	0.00	0.00	0.00
2,100.00	15.86	190.99	2,044.71	-425.53	-82.66	433.49	0.00	0.00	0.00
2,200.00	15.86	190.99	2,140.91	-452.37	-87.87	460.82	0.00	0.00	0.00
2,300.00	15.86	190.99	2,237.10	-479.20	-93.08	488.15	0.00	0.00	0.00
2,400.00	15.86	190.99	2,333.29	-506.03	-98.29	515.48	0.00	0.00	0.00
2,500.00	15.86	190.99	2,429.48	-532.86	-103.50	542.82	0.00	0.00	0.00
GRRV_ORANGE									
2,586.82	15.86	190.99	2,513.00	-556.15	-108.03	566.55	0.00	0.00	0.00
2,600.00	15.86	190.99	2,525.68	-559.69	-108.71	570.15	0.00	0.00	0.00
2,700.00	15.86	190.99	2,621.87	-586.52	-113.92	597.48	0.00	0.00	0.00
2,800.00	15.86	190.99	2,718.06	-613.35	-119.14	624.81	0.00	0.00	0.00
WSTC									
2,825.93	15.86	190.99	2,743.00	-620.31	-120.49	631.90	0.00	0.00	0.00
2,900.00	15.86	190.99	2,814.25	-640.18	-124.35	652.14	0.00	0.00	0.00
3,000.00	15.86	190.99	2,910.44	-667.01	-129.56	679.48	0.00	0.00	0.00
3,100.00	15.86	190.99	3,006.64	-693.84	-134.77	706.81	0.00	0.00	0.00
3,200.00	15.86	190.99	3,102.83	-720.67	-139.98	734.14	0.00	0.00	0.00
3,300.00	15.86	190.99	3,199.02	-747.50	-145.19	761.47	0.00	0.00	0.00
9 5/8" Intermediate Casing									

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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 11-18-297	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)
3,345.72	15.86	190.99	3,243.00	-759.77	-147.58	773.97	0.00	0.00	0.00
3,400.00	15.86	190.99	3,295.21	-774.33	-150.41	788.81	0.00	0.00	0.00
3,500.00	15.86	190.99	3,391.41	-801.16	-155.62	816.14	0.00	0.00	0.00
3,600.00	15.86	190.99	3,487.60	-827.99	-160.83	843.47	0.00	0.00	0.00
3,700.00	15.86	190.99	3,583.79	-854.83	-166.04	870.80	0.00	0.00	0.00
3,800.00	15.86	190.99	3,679.98	-881.66	-171.25	898.13	0.00	0.00	0.00
3,900.00	15.86	190.99	3,776.18	-908.49	-176.46	925.47	0.00	0.00	0.00
4,000.00	15.86	190.99	3,872.37	-935.32	-181.67	952.80	0.00	0.00	0.00
4,100.00	15.86	190.99	3,968.56	-962.15	-186.89	980.13	0.00	0.00	0.00
4,200.00	15.86	190.99	4,064.75	-988.98	-192.10	1,007.46	0.00	0.00	0.00
4,300.00	15.86	190.99	4,160.94	-1,015.81	-197.31	1,034.79	0.00	0.00	0.00
4,400.00	15.86	190.99	4,257.14	-1,042.64	-202.52	1,062.13	0.00	0.00	0.00
4,500.00	15.86	190.99	4,353.33	-1,069.47	-207.73	1,089.46	0.00	0.00	0.00
4,600.00	15.86	190.99	4,449.52	-1,096.30	-212.94	1,116.79	0.00	0.00	0.00
4,700.00	15.86	190.99	4,545.71	-1,123.13	-218.16	1,144.12	0.00	0.00	0.00
4,800.00	15.86	190.99	4,641.91	-1,149.96	-223.37	1,171.45	0.00	0.00	0.00
4,900.00	15.86	190.99	4,738.10	-1,176.79	-228.58	1,198.79	0.00	0.00	0.00
5,000.00	15.86	190.99	4,834.29	-1,203.62	-233.79	1,226.12	0.00	0.00	0.00
5,100.00	15.86	190.99	4,930.48	-1,230.45	-239.00	1,253.45	0.00	0.00	0.00
5,200.00	15.86	190.99	5,026.68	-1,257.28	-244.21	1,280.78	0.00	0.00	0.00
G_SAND									
5,227.37	15.86	190.99	5,053.00	-1,264.63	-245.64	1,288.26	0.00	0.00	0.00
5,300.00	15.86	190.99	5,122.87	-1,284.12	-249.43	1,308.12	0.00	0.00	0.00
5,400.00	15.86	190.99	5,219.06	-1,310.95	-254.64	1,335.45	0.00	0.00	0.00
5,500.00	15.86	190.99	5,315.25	-1,337.78	-259.85	1,362.78	0.00	0.00	0.00
FRUN									
5,508.05	15.86	190.99	5,323.00	-1,339.94	-260.27	1,364.98	0.00	0.00	0.00
5,600.00	15.86	190.99	5,411.44	-1,364.61	-265.06	1,390.11	0.00	0.00	0.00
5,700.00	15.86	190.99	5,507.64	-1,391.44	-270.27	1,417.44	0.00	0.00	0.00
5,800.00	15.86	190.99	5,603.83	-1,418.27	-275.48	1,444.78	0.00	0.00	0.00
5,900.00	15.86	190.99	5,700.02	-1,445.10	-280.69	1,472.11	0.00	0.00	0.00
6,000.00	15.86	190.99	5,796.21	-1,471.93	-285.91	1,499.44	0.00	0.00	0.00
6,100.00	15.86	190.99	5,892.41	-1,498.76	-291.12	1,526.77	0.00	0.00	0.00
6,200.00	15.86	190.99	5,988.60	-1,525.59	-296.33	1,554.10	0.00	0.00	0.00
6,300.00	15.86	190.99	6,084.79	-1,552.42	-301.54	1,581.44	0.00	0.00	0.00
6,400.00	15.86	190.99	6,180.98	-1,579.25	-306.75	1,608.77	0.00	0.00	0.00
6,500.00	15.86	190.99	6,277.17	-1,606.08	-311.96	1,636.10	0.00	0.00	0.00
6,600.00	15.86	190.99	6,373.37	-1,632.91	-317.18	1,663.43	0.00	0.00	0.00
6,700.00	15.86	190.99	6,469.56	-1,659.74	-322.39	1,690.76	0.00	0.00	0.00
6,800.00	15.86	190.99	6,565.75	-1,686.57	-327.60	1,718.10	0.00	0.00	0.00
6,900.00	15.86	190.99	6,661.94	-1,713.41	-332.81	1,745.43	0.00	0.00	0.00
MVRD									
6,901.10	15.86	190.99	6,663.00	-1,713.70	-332.87	1,745.73	0.00	0.00	0.00
7,000.00	15.86	190.99	6,758.14	-1,740.24	-338.02	1,772.76	0.00	0.00	0.00
7,100.00	15.86	190.99	6,854.33	-1,767.07	-343.23	1,800.09	0.00	0.00	0.00
Start Drop -1.50									
7,125.64	15.86	190.99	6,878.99	-1,773.95	-344.57	1,807.10	0.00	0.00	0.00
7,200.00	14.75	190.99	6,950.71	-1,793.21	-348.31	1,826.73	1.50	-1.50	0.00
7,300.00	13.25	190.99	7,047.74	-1,816.95	-352.92	1,850.91	1.50	-1.50	0.00
7,400.00	11.75	190.99	7,145.37	-1,838.20	-357.05	1,872.55	1.50	-1.50	0.00
7,500.00	10.25	190.99	7,243.53	-1,856.92	-360.69	1,891.63	1.50	-1.50	0.00
7,600.00	8.75	190.99	7,342.16	-1,873.12	-363.83	1,908.12	1.50	-1.50	0.00
7,700.00	7.25	190.99	7,441.18	-1,886.77	-366.48	1,922.03	1.50	-1.50	0.00

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Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6633.00usft (H&P #329)
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Well:	RG 11-18-297	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)
7,800.00	5.75	190.99	7,540.54	-1,897.88	-368.64	1,933.35	1.50	-1.50	0.00
7,900.00	4.25	190.99	7,640.16	-1,906.43	-370.30	1,942.06	1.50	-1.50	0.00
8,000.00	2.75	190.99	7,739.97	-1,912.41	-371.47	1,948.16	1.50	-1.50	0.00
8,100.00	1.25	190.99	7,839.90	-1,915.83	-372.13	1,951.64	1.50	-1.50	0.00
Start 3660.00 hold at 8183.10 MD - KMGAS									
8,183.10	0.00	0.00	7,923.00	-1,916.72	-372.30	1,952.54	1.50	-1.50	0.00
8,200.00	0.00	0.00	7,939.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
8,300.00	0.00	0.00	8,039.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
8,400.00	0.00	0.00	8,139.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
8,500.00	0.00	0.00	8,239.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
8,600.00	0.00	0.00	8,339.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
8,700.00	0.00	0.00	8,439.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
8,800.00	0.00	0.00	8,539.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
8,900.00	0.00	0.00	8,639.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,000.00	0.00	0.00	8,739.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,100.00	0.00	0.00	8,839.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,200.00	0.00	0.00	8,939.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,300.00	0.00	0.00	9,039.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,400.00	0.00	0.00	9,139.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,500.00	0.00	0.00	9,239.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,600.00	0.00	0.00	9,339.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,700.00	0.00	0.00	9,439.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,800.00	0.00	0.00	9,539.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
9,900.00	0.00	0.00	9,639.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,000.00	0.00	0.00	9,739.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,100.00	0.00	0.00	9,839.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,200.00	0.00	0.00	9,939.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,300.00	0.00	0.00	10,039.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
CMEO*									
10,333.10	0.00	0.00	10,073.00	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,400.00	0.00	0.00	10,139.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,500.00	0.00	0.00	10,239.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,600.00	0.00	0.00	10,339.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,700.00	0.00	0.00	10,439.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,800.00	0.00	0.00	10,539.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
RLNS									
10,853.10	0.00	0.00	10,593.00	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
10,900.00	0.00	0.00	10,639.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
11,000.00	0.00	0.00	10,739.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
CZZT									
11,003.10	0.00	0.00	10,743.00	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
11,100.00	0.00	0.00	10,839.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
11,200.00	0.00	0.00	10,939.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
CRCN									
11,223.10	0.00	0.00	10,963.00	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
11,300.00	0.00	0.00	11,039.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
11,400.00	0.00	0.00	11,139.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
11,500.00	0.00	0.00	11,239.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
SEGO_UPPER									
11,573.10	0.00	0.00	11,313.00	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
11,600.00	0.00	0.00	11,339.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
11,700.00	0.00	0.00	11,439.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
SEGO_LOWER									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 11-18-297 - Slot RG 11-18-297
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 11-18-297	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)
11,743.10	0.00	0.00	11,483.00	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
11,800.00	0.00	0.00	11,539.90	-1,916.72	-372.30	1,952.54	0.00	0.00	0.00
TD at 11843.10 - TD									
11,843.10	0.00	0.00	11,583.00	-1,916.72	-372.30	1,952.54	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 11-18-297 - KMV Gæ	0.00	0.00	7,923.00	-1,916.72	-372.30	1,758,972.40	2,205,793.80	39.883227	-108.330361
- plan hits target center									
- Circle (radius 50.00)									
RG 11-18-297 - PBHL	0.00	0.00	11,583.00	-1,916.72	-372.30	1,758,972.40	2,205,793.80	39.883227	-108.330361
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,370.51	1,343.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,345.72	3,243.00	9 5/8" Intermediate Casing	9-5/8	12-1/4	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
907.90	898.00	GRRV				
1,069.03	1,053.00	GRRV_A_GROOVE				
1,266.55	1,243.00	GRRV_B_GROOVE				
1,578.43	1,543.00	GRRV DISSOLUTION_SURF				
2,586.82	2,513.00	GRRV_ORANGE				
2,825.93	2,743.00	WSTC				
5,227.37	5,053.00	G_SAND				
5,508.05	5,323.00	FRUN				
6,901.10	6,663.00	MVRD				
8,183.10	7,923.00	KMVGAS				
10,333.10	10,073.00	CMEO*				
10,853.10	10,593.00	RLNS				
11,003.10	10,743.00	CZZT				
11,223.10	10,963.00	CRCN				
11,573.10	11,313.00	SEGO_UPPER				
11,743.10	11,483.00	SEGO_LOWER				
11,843.10	11,583.00	TD				

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 11-18-297 - Slot RG 11-18-297
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 11-18-297	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)	
120.00	120.00	0.00	0.00	Start Build 2.00
913.10	903.01	-107.08	-20.80	Start 6212.54 hold at 913.10 MD
7,125.64	6,878.99	-1,773.95	-344.57	Start Drop -1.50
8,183.10	7,923.00	-1,916.72	-372.30	Start 3660.00 hold at 8183.10 MD
11,843.10	11,583.00	-1,916.72	-372.30	TD at 11843.10