

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 12-7-297 - Slot RG 12-7-297, True North
Vertical (TVD) Reference: KB=30' @ 6633.00usft (H&P #329)
Section (VS) Reference: Slot - RG 12-7-297(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 12-7-297 - KMW Gas	8143.00	2003.47	-353.25	1762895.70	2205958.90	39.894006	-108.330209	Circle (Radius: 50.00)
RG 12-7-297 - PBHL	11823.00	2003.47	-353.25	1762895.70	2205958.90	39.894006	-108.330209	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
921.37	16.03	350.00	910.96	109.66	-19.34	111.36	111.36	Start 6427.25 hold at 921.37 MD
7348.63	16.03	350.00	7088.39	1857.25	-327.47	1885.90	1885.90	Start Drop -1.50
8417.12	0.00	0.00	8143.00	2003.47	-353.25	2034.38	2034.38	Start 3680.00 hold at 8417.12 MD
12097.12	0.00	0.00	11823.00	2003.47	-353.25	2034.38	2034.38	TD at 12097.12

WELL DETAILS: RG 12-7-297

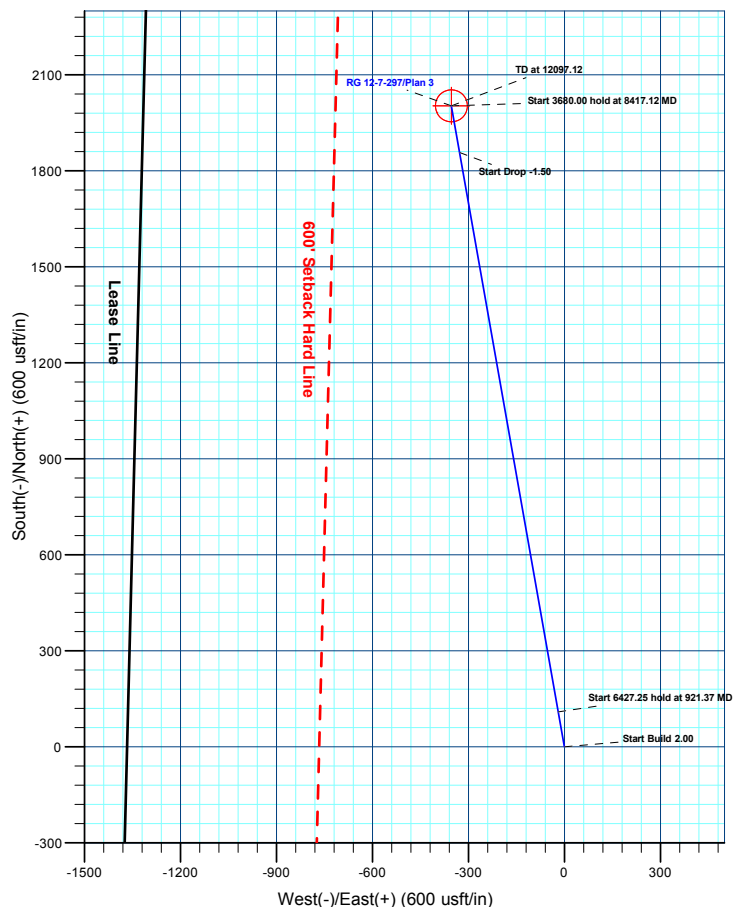
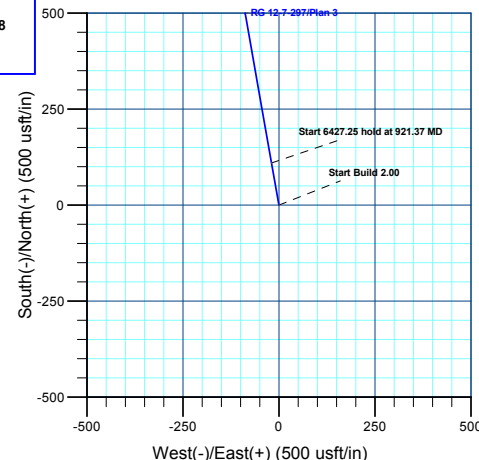
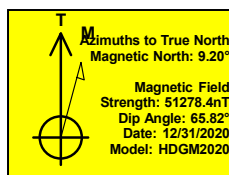
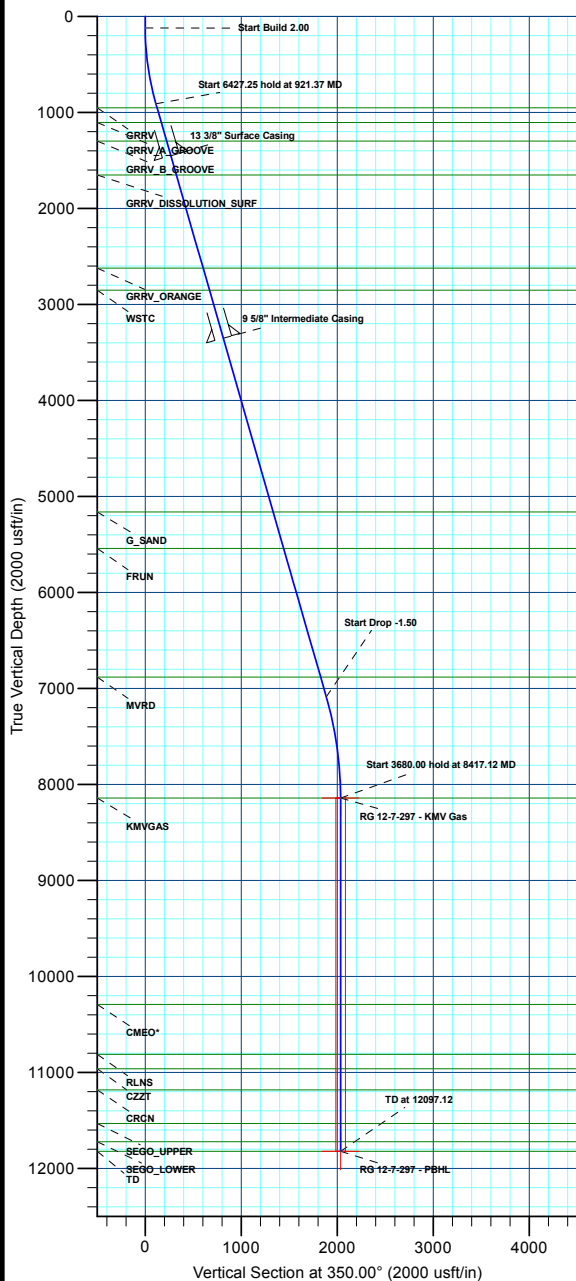
+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1760882.20	6603.00 2206249.60	39.888506	-108.328950	RG 12-7-297

CASING DETAILS

TVD	MD	Name	Size
1453.00	1485.33	13 3/8" Surface Casing	13-3/8
3353.00	3462.179	5/8" Intermediate Casing	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
953.00	965.11	GRRV
1108.00	1126.38	GRRV_A_GROOVE
1298.00	1324.06	GRRV_B_GROOVE
1653.00	1693.42	GRRV DISSOLUTION SURF
2623.00	2702.65	GRRV_ORANGE
2853.00	2941.95	WSTC
5163.00	5345.37	G_SAND
5543.00	5740.74	FRUN
6883.00	7134.93	MVRD
8143.00	8417.12	KMVGAS
10293.00	10567.12	CMEO*
10813.00	11087.12	RLNS
10963.00	11237.12	CZT
11183.00	11457.12	CRCN
11533.00	11807.12	SEGO_UPPER
11723.00	11997.12	SEGO_LOWER
11823.00	12097.12	TD



Plan: Plan 3 (RG 12-7-297/Wellbore #1)

Created By: Chase Chambers Date: 14:51, April 06 2022



Terra Energy Partners, LLP

Rio Blanco County, CO

RGU 23-7-297 Pad

RG 12-7-297 - Slot RG 12-7-297

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 12-7-297 - Slot RG 12-7-297
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 12-7-297	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 12-7-297 - Slot RG 12-7-297					
Well Position	+N/-S	2.73 usft	Northing:	1,760,882.20 usft	Latitude:	39.888506
	+E/-W	46.04 usft	Easting:	2,206,249.60 usft	Longitude:	-108.328950
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	350.00

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	
921.37	16.03	350.00	910.96	109.66	-19.34	2.00	2.00	0.00	350.00	
7,348.63	16.03	350.00	7,088.39	1,857.25	-327.47	0.00	0.00	0.00	0.00	
8,417.12	0.00	0.00	8,143.00	2,003.47	-353.25	1.50	-1.50	0.00	180.00	RG 12-7-297 - KMV C
12,097.12	0.00	0.00	11,823.00	2,003.47	-353.25	0.00	0.00	0.00	0.00	RG 12-7-297 - 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 12-7-297	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									
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.60	350.00	199.99	1.10	-0.19	1.12	2.00	2.00	0.00
300.00	3.60	350.00	299.88	5.57	-0.98	5.65	2.00	2.00	0.00
400.00	5.60	350.00	399.55	13.46	-2.37	13.67	2.00	2.00	0.00
500.00	7.60	350.00	498.89	24.78	-4.37	25.17	2.00	2.00	0.00
600.00	9.60	350.00	597.76	39.51	-6.97	40.12	2.00	2.00	0.00
700.00	11.60	350.00	696.05	57.62	-10.16	58.51	2.00	2.00	0.00
800.00	13.60	350.00	793.63	79.11	-13.95	80.33	2.00	2.00	0.00
900.00	15.60	350.00	890.40	103.93	-18.32	105.53	2.00	2.00	0.00
Start 6427.25 hold at 921.37 MD									
921.37	16.03	350.00	910.96	109.66	-19.34	111.36	2.00	2.00	0.00
GRRV									
965.11	16.03	350.00	953.00	121.56	-21.43	123.43	0.00	0.00	0.00
1,000.00	16.03	350.00	986.53	131.04	-23.11	133.06	0.00	0.00	0.00
1,100.00	16.03	350.00	1,082.65	158.23	-27.90	160.67	0.00	0.00	0.00
GRRV_A_GROOVE									
1,126.38	16.03	350.00	1,108.00	165.41	-29.16	167.96	0.00	0.00	0.00
1,200.00	16.03	350.00	1,178.76	185.42	-32.69	188.28	0.00	0.00	0.00
1,300.00	16.03	350.00	1,274.87	212.61	-37.49	215.89	0.00	0.00	0.00
GRRV_B_GROOVE									
1,324.06	16.03	350.00	1,298.00	219.16	-38.64	222.54	0.00	0.00	0.00
1,400.00	16.03	350.00	1,370.99	239.80	-42.28	243.50	0.00	0.00	0.00
13 3/8" Surface Casing									
1,485.33	16.03	350.00	1,453.00	263.01	-46.37	267.06	0.00	0.00	0.00
1,500.00	16.03	350.00	1,467.10	266.99	-47.08	271.11	0.00	0.00	0.00
1,600.00	16.03	350.00	1,563.21	294.19	-51.87	298.72	0.00	0.00	0.00
GRRV DISSOLUTION_SURF									
1,693.42	16.03	350.00	1,653.00	319.59	-56.35	324.52	0.00	0.00	0.00
1,700.00	16.03	350.00	1,659.32	321.38	-56.66	326.33	0.00	0.00	0.00
1,800.00	16.03	350.00	1,755.44	348.57	-61.46	353.94	0.00	0.00	0.00
1,900.00	16.03	350.00	1,851.55	375.76	-66.25	381.55	0.00	0.00	0.00
2,000.00	16.03	350.00	1,947.66	402.95	-71.05	409.16	0.00	0.00	0.00
2,100.00	16.03	350.00	2,043.78	430.14	-75.84	436.77	0.00	0.00	0.00
2,200.00	16.03	350.00	2,139.89	457.33	-80.64	464.38	0.00	0.00	0.00
2,300.00	16.03	350.00	2,236.00	484.52	-85.43	491.99	0.00	0.00	0.00
2,400.00	16.03	350.00	2,332.11	511.71	-90.22	519.60	0.00	0.00	0.00
2,500.00	16.03	350.00	2,428.23	538.90	-95.02	547.21	0.00	0.00	0.00
2,600.00	16.03	350.00	2,524.34	566.09	-99.81	574.82	0.00	0.00	0.00
2,700.00	16.03	350.00	2,620.45	593.28	-104.61	602.43	0.00	0.00	0.00
GRRV_ORANGE									
2,702.65	16.03	350.00	2,623.00	594.00	-104.73	603.16	0.00	0.00	0.00
2,800.00	16.03	350.00	2,716.57	620.47	-109.40	630.04	0.00	0.00	0.00
2,900.00	16.03	350.00	2,812.68	647.66	-114.19	657.65	0.00	0.00	0.00
WSTC									
2,941.95	16.03	350.00	2,853.00	659.07	-116.21	669.23	0.00	0.00	0.00
3,000.00	16.03	350.00	2,908.79	674.85	-118.99	685.26	0.00	0.00	0.00
3,100.00	16.03	350.00	3,004.91	702.04	-123.78	712.87	0.00	0.00	0.00
3,200.00	16.03	350.00	3,101.02	729.23	-128.58	740.48	0.00	0.00	0.00
3,300.00	16.03	350.00	3,197.13	756.42	-133.37	768.09	0.00	0.00	0.00
3,400.00	16.03	350.00	3,293.24	783.61	-138.17	795.70	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 12-7-297	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)
9 5/8" Intermediate Casing									
3,462.17	16.03	350.00	3,353.00	800.52	-141.15	812.86	0.00	0.00	0.00
3,500.00	16.03	350.00	3,389.36	810.80	-142.96	823.31	0.00	0.00	0.00
3,600.00	16.03	350.00	3,485.47	837.99	-147.75	850.92	0.00	0.00	0.00
3,700.00	16.03	350.00	3,581.58	865.18	-152.55	878.53	0.00	0.00	0.00
3,800.00	16.03	350.00	3,677.70	892.37	-157.34	906.14	0.00	0.00	0.00
3,900.00	16.03	350.00	3,773.81	919.56	-162.14	933.75	0.00	0.00	0.00
4,000.00	16.03	350.00	3,869.92	946.75	-166.93	961.36	0.00	0.00	0.00
4,100.00	16.03	350.00	3,966.04	973.94	-171.72	988.97	0.00	0.00	0.00
4,200.00	16.03	350.00	4,062.15	1,001.13	-176.52	1,016.58	0.00	0.00	0.00
4,300.00	16.03	350.00	4,158.26	1,028.32	-181.31	1,044.19	0.00	0.00	0.00
4,400.00	16.03	350.00	4,254.37	1,055.51	-186.11	1,071.80	0.00	0.00	0.00
4,500.00	16.03	350.00	4,350.49	1,082.70	-190.90	1,099.41	0.00	0.00	0.00
4,600.00	16.03	350.00	4,446.60	1,109.89	-195.69	1,127.01	0.00	0.00	0.00
4,700.00	16.03	350.00	4,542.71	1,137.08	-200.49	1,154.62	0.00	0.00	0.00
4,800.00	16.03	350.00	4,638.83	1,164.28	-205.28	1,182.23	0.00	0.00	0.00
4,900.00	16.03	350.00	4,734.94	1,191.47	-210.08	1,209.84	0.00	0.00	0.00
5,000.00	16.03	350.00	4,831.05	1,218.66	-214.87	1,237.45	0.00	0.00	0.00
5,100.00	16.03	350.00	4,927.17	1,245.85	-219.67	1,265.06	0.00	0.00	0.00
5,200.00	16.03	350.00	5,023.28	1,273.04	-224.46	1,292.67	0.00	0.00	0.00
5,300.00	16.03	350.00	5,119.39	1,300.23	-229.25	1,320.28	0.00	0.00	0.00
G_SAND									
5,345.37	16.03	350.00	5,163.00	1,312.56	-231.43	1,332.81	0.00	0.00	0.00
5,400.00	16.03	350.00	5,215.50	1,327.42	-234.05	1,347.89	0.00	0.00	0.00
5,500.00	16.03	350.00	5,311.62	1,354.61	-238.84	1,375.50	0.00	0.00	0.00
5,600.00	16.03	350.00	5,407.73	1,381.80	-243.64	1,403.11	0.00	0.00	0.00
5,700.00	16.03	350.00	5,503.84	1,408.99	-248.43	1,430.72	0.00	0.00	0.00
FRUN									
5,740.74	16.03	350.00	5,543.00	1,420.07	-250.38	1,441.97	0.00	0.00	0.00
5,800.00	16.03	350.00	5,599.96	1,436.18	-253.22	1,458.33	0.00	0.00	0.00
5,900.00	16.03	350.00	5,696.07	1,463.37	-258.02	1,485.94	0.00	0.00	0.00
6,000.00	16.03	350.00	5,792.18	1,490.56	-262.81	1,513.55	0.00	0.00	0.00
6,100.00	16.03	350.00	5,888.29	1,517.75	-267.61	1,541.16	0.00	0.00	0.00
6,200.00	16.03	350.00	5,984.41	1,544.94	-272.40	1,568.77	0.00	0.00	0.00
6,300.00	16.03	350.00	6,080.52	1,572.13	-277.20	1,596.38	0.00	0.00	0.00
6,400.00	16.03	350.00	6,176.63	1,599.32	-281.99	1,623.99	0.00	0.00	0.00
6,500.00	16.03	350.00	6,272.75	1,626.51	-286.78	1,651.60	0.00	0.00	0.00
6,600.00	16.03	350.00	6,368.86	1,653.70	-291.58	1,679.21	0.00	0.00	0.00
6,700.00	16.03	350.00	6,464.97	1,680.89	-296.37	1,706.82	0.00	0.00	0.00
6,800.00	16.03	350.00	6,561.09	1,708.08	-301.17	1,734.43	0.00	0.00	0.00
6,900.00	16.03	350.00	6,657.20	1,735.27	-305.96	1,762.04	0.00	0.00	0.00
7,000.00	16.03	350.00	6,753.31	1,762.46	-310.75	1,789.65	0.00	0.00	0.00
7,100.00	16.03	350.00	6,849.42	1,789.65	-315.55	1,817.26	0.00	0.00	0.00
MVRD									
7,134.93	16.03	350.00	6,883.00	1,799.15	-317.22	1,826.90	0.00	0.00	0.00
7,200.00	16.03	350.00	6,945.54	1,816.84	-320.34	1,844.87	0.00	0.00	0.00
7,300.00	16.03	350.00	7,041.65	1,844.03	-325.14	1,872.48	0.00	0.00	0.00
Start Drop -1.50									
7,348.63	16.03	350.00	7,088.39	1,857.25	-327.47	1,885.90	0.00	0.00	0.00
7,400.00	15.26	350.00	7,137.86	1,870.90	-329.87	1,899.75	1.50	-1.50	0.00
7,500.00	13.76	350.00	7,234.67	1,895.56	-334.22	1,924.80	1.50	-1.50	0.00
7,600.00	12.26	350.00	7,332.10	1,917.73	-338.13	1,947.31	1.50	-1.50	0.00
7,700.00	10.76	350.00	7,430.09	1,937.37	-341.59	1,967.26	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 12-7-297	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)
7,800.00	9.26	350.00	7,528.56	1,954.49	-344.61	1,984.63	1.50	-1.50	0.00
7,900.00	7.76	350.00	7,627.46	1,969.05	-347.18	1,999.43	1.50	-1.50	0.00
8,000.00	6.26	350.00	7,726.71	1,981.07	-349.30	2,011.62	1.50	-1.50	0.00
8,100.00	4.76	350.00	7,826.24	1,990.52	-350.96	2,021.22	1.50	-1.50	0.00
8,200.00	3.26	350.00	7,926.00	1,997.40	-352.18	2,028.21	1.50	-1.50	0.00
8,300.00	1.76	350.00	8,025.90	2,001.70	-352.94	2,032.58	1.50	-1.50	0.00
8,400.00	0.26	350.00	8,125.88	2,003.44	-353.24	2,034.34	1.50	-1.50	0.00
Start 3680.00 hold at 8417.12 MD - KMGAS									
8,417.12	0.00	0.00	8,143.00	2,003.47	-353.25	2,034.38	1.50	-1.50	0.00
8,500.00	0.00	0.00	8,225.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
8,600.00	0.00	0.00	8,325.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
8,700.00	0.00	0.00	8,425.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
8,800.00	0.00	0.00	8,525.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
8,900.00	0.00	0.00	8,625.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,000.00	0.00	0.00	8,725.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,100.00	0.00	0.00	8,825.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,200.00	0.00	0.00	8,925.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,300.00	0.00	0.00	9,025.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,400.00	0.00	0.00	9,125.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,500.00	0.00	0.00	9,225.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,600.00	0.00	0.00	9,325.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,700.00	0.00	0.00	9,425.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,800.00	0.00	0.00	9,525.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
9,900.00	0.00	0.00	9,625.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,000.00	0.00	0.00	9,725.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,100.00	0.00	0.00	9,825.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,200.00	0.00	0.00	9,925.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,300.00	0.00	0.00	10,025.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,400.00	0.00	0.00	10,125.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,500.00	0.00	0.00	10,225.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
CMEQ*									
10,567.12	0.00	0.00	10,293.00	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,600.00	0.00	0.00	10,325.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,700.00	0.00	0.00	10,425.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,800.00	0.00	0.00	10,525.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
10,900.00	0.00	0.00	10,625.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
11,000.00	0.00	0.00	10,725.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
RLNS									
11,087.12	0.00	0.00	10,813.00	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
11,100.00	0.00	0.00	10,825.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
11,200.00	0.00	0.00	10,925.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
CZZT									
11,237.12	0.00	0.00	10,963.00	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
11,300.00	0.00	0.00	11,025.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
11,400.00	0.00	0.00	11,125.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
CRCN									
11,457.12	0.00	0.00	11,183.00	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
11,500.00	0.00	0.00	11,225.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
11,600.00	0.00	0.00	11,325.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
11,700.00	0.00	0.00	11,425.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
11,800.00	0.00	0.00	11,525.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00
SEGO_UPPER									
11,807.12	0.00	0.00	11,533.00	2,003.47	-353.25	2,034.38	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 12-7-297 - Slot RG 12-7-297
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 12-7-297	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)	
11,900.00	0.00	0.00	11,625.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00	
SEGO_LOWER										
11,997.12	0.00	0.00	11,723.00	2,003.47	-353.25	2,034.38	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,725.88	2,003.47	-353.25	2,034.38	0.00	0.00	0.00	
TD at 12097.12 - TD										
12,097.12	0.00	0.00	11,823.00	2,003.47	-353.25	2,034.38	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 12-7-297 - KMG Gas - plan hits target center - Circle (radius 50.00)	0.00	0.00	8,143.00	2,003.47	-353.25	1,762,895.70	2,205,958.90	39.894006	-108.330209	
RG 12-7-297 - PBHL - plan hits target center - Point	0.00	0.00	11,823.00	2,003.47	-353.25	1,762,895.70	2,205,958.90	39.894006	-108.330209	

Casing Points										
Measured Depth (usft)	Vertical Depth (usft)	Name				Casing Diameter (")	Hole Diameter (")			
1,485.33	1,453.00	13 3/8" Surface Casing				13-3/8	17-1/2			
3,462.17	3,353.00	9 5/8" Intermediate Casing				9-5/8	12-1/4			

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 12-7-297 - Slot RG 12-7-297
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 12-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 3		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
965.11	953.00	GRRV				
1,126.38	1,108.00	GRRV_A_GROOVE				
1,324.06	1,298.00	GRRV_B_GROOVE				
1,693.42	1,653.00	GRRV DISSOLUTION_SURF				
2,702.65	2,623.00	GRRV_ORANGE				
2,941.95	2,853.00	WSTC				
5,345.37	5,163.00	G_SAND				
5,740.74	5,543.00	FRUN				
7,134.93	6,883.00	MVRD				
8,417.12	8,143.00	KMVGAS				
10,567.12	10,293.00	CMEO*				
11,087.12	10,813.00	RLNS				
11,237.12	10,963.00	CZZT				
11,457.12	11,183.00	CRCN				
11,807.12	11,533.00	SEGO_UPPER				
11,997.12	11,723.00	SEGO_LOWER				
12,097.12	11,823.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.00	0.00	Start Build 2.00	
921.37	910.96	109.66	-19.34	Start 6427.25 hold at 921.37 MD	
7,348.63	7,088.39	1,857.25	-327.47	Start Drop -1.50	
8,417.12	8,143.00	2,003.47	-353.25	Start 3680.00 hold at 8417.12 MD	
12,097.12	11,823.00	2,003.47	-353.25	TD at 12097.12	