

## 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 514-7-297 - Slot RG 514-7-297, True North  
Vertical (TVD) Reference: KB=30' @ 6633.00usft (H&P #329)  
Section (VS) Reference: Slot - RG 514-7-297(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 514-7-297 - KMV Gas	7943.00	-1540.89	-364.30	1759349.20	2205806.10	39.884262	-108.330359	Circle (Radius: 50.00)
RG 514-7-297 - PBHL	11603.00	-1540.89	-364.30	1759349.20	2205806.10	39.884262	-108.330359	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
766.30	12.63	193.30	761.21	-67.42	-15.94	69.28	69.28	Start 6504.14 hold at 766.30 MD
7270.44	12.63	193.30	7108.06	-1451.00	-343.05	1491.00	1491.00	Start Drop -1.50
8112.18	0.00	0.00	7943.00	-1540.89	-364.30	1583.37	1583.37	Start 3660.00 hold at 8112.18 MD
11772.18	0.00	0.00	11603.00	-1540.89	-364.30	1583.37	1583.37	TD at 11772.18

## WELL DETAILS: RG 514-7-297

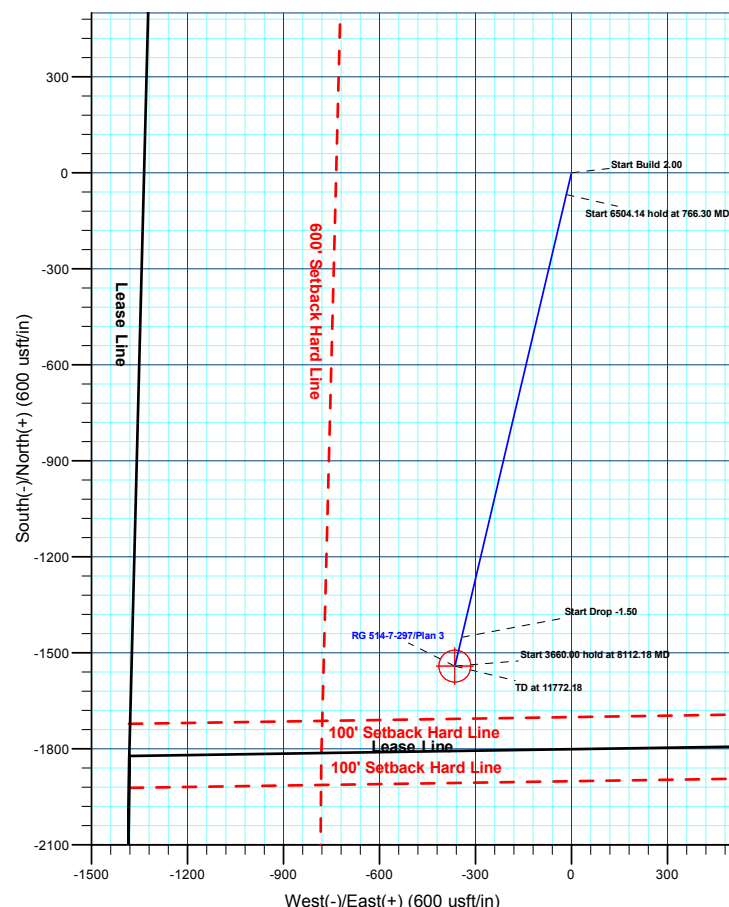
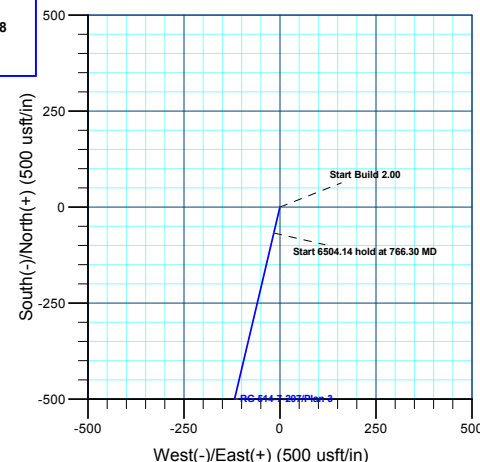
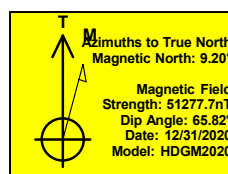
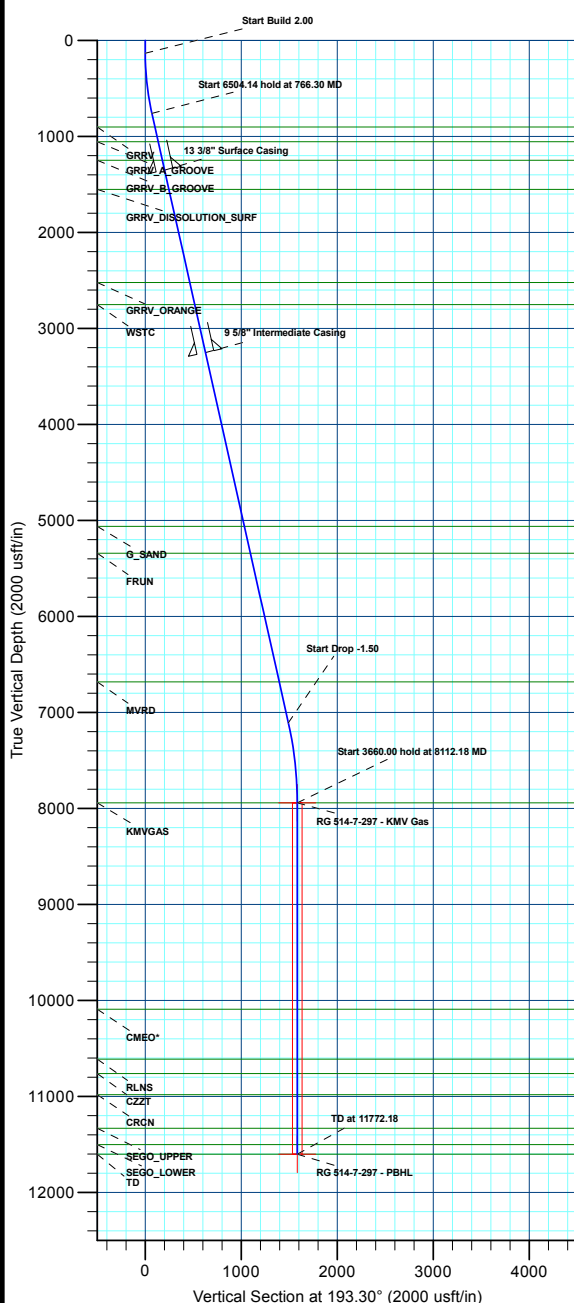
+N/-S	+E/-W	Northing	Ground Elev:	Latitude	Longitude	Slot
0.00	0.00	1760878.00	6603.00	39.888492	-108.329061	RG 514-7-297

## CASING DETAILS

TVD	MD	Name	Size
1353.00	1372.76	13 3/8" Surface Casing	13-3/8
3253.00	3319.85	5 7/8" Intermediate Casing	9-5/8

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
903.00	911.61	GRRV
1058.00	1070.45	GRRV_A_GROOVE
1248.00	1265.16	GRRV_B_GROOVE
1553.00	1577.72	GRRV DISSOLUTION_SURF
2523.00	2571.76	GRRV_ORANGE
2753.00	2807.46	WSTC
5063.00	5174.70	G_SAND
5343.00	5461.64	FRUN
6683.00	6834.85	MVRD
7943.00	8112.18	KMVGAS
10093.00	10262.18	CMEQ*
10613.00	10782.18	RLNS
10763.00	10932.18	CZZT
10983.00	11152.18	CRCN
11333.00	11502.18	SEGO_UPPER
11503.00	11672.18	SEGO_LOWER
11603.00	11772.18	TD



Plan: Plan 3 (RG 514-7-297/Wellbore #1)

Created By: Chase Chambers Date: 14:38, April 06 2022



## **Terra Energy Partners, LLP**

**Rio Blanco County, CO**

**RGU 23-7-297 Pad**

**RG 514-7-297 - Slot RG 514-7-297**

**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 514-7-297 - Slot RG 514-7-297
<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 514-7-297	<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		

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

<b>Well</b>	RG 514-7-297 - Slot RG 514-7-297			
<b>Well Position</b>	<b>+N/-S</b>	-2.44 usft	<b>Northing:</b>	1,760,878.00 usft
	<b>+E/-W</b>	14.78 usft	<b>Easting:</b>	2,206,218.20 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 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	51,277.70000000

<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	193.30

<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	
766.30	12.63	193.30	761.21	-67.42	-15.94	2.00	2.00	0.00	193.30	
7,270.44	12.63	193.30	7,108.06	-1,451.00	-343.05	0.00	0.00	0.00	0.00	
8,112.18	0.00	0.00	7,943.00	-1,540.89	-364.30	1.50	-1.50	0.00	180.00	RG 514-7-297 - KMV
11,772.18	0.00	0.00	11,603.00	-1,540.89	-364.30	0.00	0.00	0.00	0.00	RG 514-7-297 - PBHL

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 514-7-297 - Slot RG 514-7-297
<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 514-7-297	<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	193.30	199.99	-0.72	-0.17	0.74	2.00	2.00	0.00
300.00	3.30	193.30	299.91	-4.62	-1.09	4.75	2.00	2.00	0.00
400.00	5.30	193.30	399.62	-11.92	-2.82	12.25	2.00	2.00	0.00
500.00	7.30	193.30	499.01	-22.60	-5.34	23.22	2.00	2.00	0.00
600.00	9.30	193.30	597.96	-36.65	-8.66	37.66	2.00	2.00	0.00
700.00	11.30	193.30	696.34	-54.05	-12.78	55.53	2.00	2.00	0.00
<b>Start 6504.14 hold at 766.30 MD</b>									
766.30	12.63	193.30	761.21	-67.42	-15.94	69.28	2.00	2.00	0.00
800.00	12.63	193.30	794.09	-74.59	-17.63	76.64	0.00	0.00	0.00
900.00	12.63	193.30	891.67	-95.86	-22.66	98.50	0.00	0.00	0.00
<b>GRRV</b>									
911.61	12.63	193.30	903.00	-98.33	-23.25	101.04	0.00	0.00	0.00
1,000.00	12.63	193.30	989.25	-117.13	-27.69	120.36	0.00	0.00	0.00
<b>GRRV_A_GROOVE</b>									
1,070.45	12.63	193.30	1,058.00	-132.12	-31.24	135.76	0.00	0.00	0.00
1,100.00	12.63	193.30	1,086.83	-138.40	-32.72	142.22	0.00	0.00	0.00
1,200.00	12.63	193.30	1,184.42	-159.68	-37.75	164.08	0.00	0.00	0.00
<b>GRRV_B_GROOVE</b>									
1,265.16	12.63	193.30	1,248.00	-173.54	-41.03	178.32	0.00	0.00	0.00
1,300.00	12.63	193.30	1,282.00	-180.95	-42.78	185.94	0.00	0.00	0.00
<b>13 3/8" Surface Casing</b>									
1,372.76	12.63	193.30	1,353.00	-196.43	-46.44	201.84	0.00	0.00	0.00
1,400.00	12.63	193.30	1,379.58	-202.22	-47.81	207.80	0.00	0.00	0.00
1,500.00	12.63	193.30	1,477.16	-223.49	-52.84	229.65	0.00	0.00	0.00
<b>GRRV DISSOLUTION_SURF</b>									
1,577.72	12.63	193.30	1,553.00	-240.03	-56.75	246.64	0.00	0.00	0.00
1,600.00	12.63	193.30	1,574.74	-244.77	-57.87	251.51	0.00	0.00	0.00
1,700.00	12.63	193.30	1,672.32	-266.04	-62.90	273.37	0.00	0.00	0.00
1,800.00	12.63	193.30	1,769.91	-287.31	-67.93	295.23	0.00	0.00	0.00
1,900.00	12.63	193.30	1,867.49	-308.58	-72.96	317.09	0.00	0.00	0.00
2,000.00	12.63	193.30	1,965.07	-329.85	-77.98	338.95	0.00	0.00	0.00
2,100.00	12.63	193.30	2,062.65	-351.13	-83.01	360.81	0.00	0.00	0.00
2,200.00	12.63	193.30	2,160.23	-372.40	-88.04	382.67	0.00	0.00	0.00
2,300.00	12.63	193.30	2,257.81	-393.67	-93.07	404.52	0.00	0.00	0.00
2,400.00	12.63	193.30	2,355.40	-414.94	-98.10	426.38	0.00	0.00	0.00
2,500.00	12.63	193.30	2,452.98	-436.22	-103.13	448.24	0.00	0.00	0.00
<b>GRRV_ORANGE</b>									
2,571.76	12.63	193.30	2,523.00	-451.48	-106.74	463.93	0.00	0.00	0.00
2,600.00	12.63	193.30	2,550.56	-457.49	-108.16	470.10	0.00	0.00	0.00
2,700.00	12.63	193.30	2,648.14	-478.76	-113.19	491.96	0.00	0.00	0.00
2,800.00	12.63	193.30	2,745.72	-500.03	-118.22	513.82	0.00	0.00	0.00
<b>WSTC</b>									
2,807.46	12.63	193.30	2,753.00	-501.62	-118.59	515.45	0.00	0.00	0.00
2,900.00	12.63	193.30	2,843.30	-521.31	-123.25	535.68	0.00	0.00	0.00
3,000.00	12.63	193.30	2,940.89	-542.58	-128.28	557.53	0.00	0.00	0.00
3,100.00	12.63	193.30	3,038.47	-563.85	-133.31	579.39	0.00	0.00	0.00
3,200.00	12.63	193.30	3,136.05	-585.12	-138.34	601.25	0.00	0.00	0.00
3,300.00	12.63	193.30	3,233.63	-606.39	-143.36	623.11	0.00	0.00	0.00
<b>9 5/8" Intermediate Casing</b>									

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 514-7-297 - Slot RG 514-7-297
<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 514-7-297	<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)
3,319.85	12.63	193.30	3,253.00	-610.62	-144.36	627.45	0.00	0.00	0.00
3,400.00	12.63	193.30	3,331.21	-627.67	-148.39	644.97	0.00	0.00	0.00
3,500.00	12.63	193.30	3,428.80	-648.94	-153.42	666.83	0.00	0.00	0.00
3,600.00	12.63	193.30	3,526.38	-670.21	-158.45	688.69	0.00	0.00	0.00
3,700.00	12.63	193.30	3,623.96	-691.48	-163.48	710.55	0.00	0.00	0.00
3,800.00	12.63	193.30	3,721.54	-712.76	-168.51	732.40	0.00	0.00	0.00
3,900.00	12.63	193.30	3,819.12	-734.03	-173.54	754.26	0.00	0.00	0.00
4,000.00	12.63	193.30	3,916.70	-755.30	-178.57	776.12	0.00	0.00	0.00
4,100.00	12.63	193.30	4,014.29	-776.57	-183.60	797.98	0.00	0.00	0.00
4,200.00	12.63	193.30	4,111.87	-797.84	-188.63	819.84	0.00	0.00	0.00
4,300.00	12.63	193.30	4,209.45	-819.12	-193.66	841.70	0.00	0.00	0.00
4,400.00	12.63	193.30	4,307.03	-840.39	-198.69	863.56	0.00	0.00	0.00
4,500.00	12.63	193.30	4,404.61	-861.66	-203.72	885.42	0.00	0.00	0.00
4,600.00	12.63	193.30	4,502.19	-882.93	-208.74	907.27	0.00	0.00	0.00
4,700.00	12.63	193.30	4,599.78	-904.21	-213.77	929.13	0.00	0.00	0.00
4,800.00	12.63	193.30	4,697.36	-925.48	-218.80	950.99	0.00	0.00	0.00
4,900.00	12.63	193.30	4,794.94	-946.75	-223.83	972.85	0.00	0.00	0.00
5,000.00	12.63	193.30	4,892.52	-968.02	-228.86	994.71	0.00	0.00	0.00
5,100.00	12.63	193.30	4,990.10	-989.30	-233.89	1,016.57	0.00	0.00	0.00
<b>G_SAND</b>									
5,174.70	12.63	193.30	5,063.00	-1,005.19	-237.65	1,032.90	0.00	0.00	0.00
5,200.00	12.63	193.30	5,087.69	-1,010.57	-238.92	1,038.43	0.00	0.00	0.00
5,300.00	12.63	193.30	5,185.27	-1,031.84	-243.95	1,060.28	0.00	0.00	0.00
5,400.00	12.63	193.30	5,282.85	-1,053.11	-248.98	1,082.14	0.00	0.00	0.00
<b>FRUN</b>									
5,461.64	12.63	193.30	5,343.00	-1,066.22	-252.08	1,095.62	0.00	0.00	0.00
5,500.00	12.63	193.30	5,380.43	-1,074.38	-254.01	1,104.00	0.00	0.00	0.00
5,600.00	12.63	193.30	5,478.01	-1,095.66	-259.04	1,125.86	0.00	0.00	0.00
5,700.00	12.63	193.30	5,575.59	-1,116.93	-264.07	1,147.72	0.00	0.00	0.00
5,800.00	12.63	193.30	5,673.18	-1,138.20	-269.09	1,169.58	0.00	0.00	0.00
5,900.00	12.63	193.30	5,770.76	-1,159.47	-274.12	1,191.44	0.00	0.00	0.00
6,000.00	12.63	193.30	5,868.34	-1,180.75	-279.15	1,213.30	0.00	0.00	0.00
6,100.00	12.63	193.30	5,965.92	-1,202.02	-284.18	1,235.15	0.00	0.00	0.00
6,200.00	12.63	193.30	6,063.50	-1,223.29	-289.21	1,257.01	0.00	0.00	0.00
6,300.00	12.63	193.30	6,161.08	-1,244.56	-294.24	1,278.87	0.00	0.00	0.00
6,400.00	12.63	193.30	6,258.67	-1,265.83	-299.27	1,300.73	0.00	0.00	0.00
6,500.00	12.63	193.30	6,356.25	-1,287.11	-304.30	1,322.59	0.00	0.00	0.00
6,600.00	12.63	193.30	6,453.83	-1,308.38	-309.33	1,344.45	0.00	0.00	0.00
6,700.00	12.63	193.30	6,551.41	-1,329.65	-314.36	1,366.31	0.00	0.00	0.00
6,800.00	12.63	193.30	6,648.99	-1,350.92	-319.39	1,388.17	0.00	0.00	0.00
<b>MVRD</b>									
6,834.85	12.63	193.30	6,683.00	-1,358.34	-321.14	1,395.78	0.00	0.00	0.00
6,900.00	12.63	193.30	6,746.57	-1,372.20	-324.42	1,410.02	0.00	0.00	0.00
7,000.00	12.63	193.30	6,844.16	-1,393.47	-329.45	1,431.88	0.00	0.00	0.00
7,100.00	12.63	193.30	6,941.74	-1,414.74	-334.47	1,453.74	0.00	0.00	0.00
7,200.00	12.63	193.30	7,039.32	-1,436.01	-339.50	1,475.60	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
7,270.44	12.63	193.30	7,108.06	-1,451.00	-343.05	1,491.00	0.00	0.00	0.00
7,300.00	12.18	193.30	7,136.93	-1,457.18	-344.51	1,497.35	1.50	-1.50	0.00
7,400.00	10.68	193.30	7,234.94	-1,476.47	-349.07	1,517.17	1.50	-1.50	0.00
7,500.00	9.18	193.30	7,333.44	-1,493.25	-353.04	1,534.42	1.50	-1.50	0.00
7,600.00	7.68	193.30	7,432.35	-1,507.52	-356.41	1,549.08	1.50	-1.50	0.00
7,700.00	6.18	193.30	7,531.62	-1,519.27	-359.19	1,561.15	1.50	-1.50	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 514-7-297 - Slot RG 514-7-297
<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 514-7-297	<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	4.68	193.30	7,631.17	-1,528.48	-361.37	1,570.62	1.50	-1.50	0.00
7,900.00	3.18	193.30	7,730.93	-1,535.16	-362.94	1,577.48	1.50	-1.50	0.00
8,000.00	1.68	193.30	7,830.84	-1,539.29	-363.92	1,581.72	1.50	-1.50	0.00
8,100.00	0.18	193.30	7,930.82	-1,540.87	-364.29	1,583.35	1.50	-1.50	0.00
Start 3660.00 hold at 8112.18 MD - KMGAS									
8,112.18	0.00	0.00	7,943.00	-1,540.89	-364.30	1,583.37	1.50	-1.50	0.00
8,200.00	0.00	0.00	8,030.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
8,300.00	0.00	0.00	8,130.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
8,400.00	0.00	0.00	8,230.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
8,500.00	0.00	0.00	8,330.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
8,600.00	0.00	0.00	8,430.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
8,700.00	0.00	0.00	8,530.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
8,800.00	0.00	0.00	8,630.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
8,900.00	0.00	0.00	8,730.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,000.00	0.00	0.00	8,830.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,100.00	0.00	0.00	8,930.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,200.00	0.00	0.00	9,030.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,300.00	0.00	0.00	9,130.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,400.00	0.00	0.00	9,230.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,500.00	0.00	0.00	9,330.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,600.00	0.00	0.00	9,430.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,700.00	0.00	0.00	9,530.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,800.00	0.00	0.00	9,630.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
9,900.00	0.00	0.00	9,730.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,000.00	0.00	0.00	9,830.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,100.00	0.00	0.00	9,930.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,200.00	0.00	0.00	10,030.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
CMEO*									
10,262.18	0.00	0.00	10,093.00	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,300.00	0.00	0.00	10,130.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,400.00	0.00	0.00	10,230.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,500.00	0.00	0.00	10,330.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,600.00	0.00	0.00	10,430.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,700.00	0.00	0.00	10,530.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
RLNS									
10,782.18	0.00	0.00	10,613.00	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,800.00	0.00	0.00	10,630.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
10,900.00	0.00	0.00	10,730.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
CZZT									
10,932.18	0.00	0.00	10,763.00	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
11,000.00	0.00	0.00	10,830.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
11,100.00	0.00	0.00	10,930.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
CRCN									
11,152.18	0.00	0.00	10,983.00	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
11,200.00	0.00	0.00	11,030.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
11,300.00	0.00	0.00	11,130.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
11,400.00	0.00	0.00	11,230.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
11,500.00	0.00	0.00	11,330.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
SEGO_UPPER									
11,502.18	0.00	0.00	11,333.00	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
11,600.00	0.00	0.00	11,430.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
SEGO_LOWER									
11,672.18	0.00	0.00	11,503.00	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 514-7-297 - Slot RG 514-7-297
<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 514-7-297	<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)
11,700.00	0.00	0.00	11,530.82	-1,540.89	-364.30	1,583.37	0.00	0.00	0.00
TD at 11772.18 - TD									
11,772.18	0.00	0.00	11,603.00	-1,540.89	-364.30	1,583.37	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 514-7-297 - KMV G&S	0.00	0.00	7,943.00	-1,540.89	-364.30	1,759,349.20	2,205,806.10	39.884262	-108.330359
- plan hits target center									
- Circle (radius 50.00)									
RG 514-7-297 - PBHL	0.00	0.00	11,603.00	-1,540.89	-364.30	1,759,349.20	2,205,806.10	39.884262	-108.330359
- plan hits target center									
- Point									

Casing Points						Casing Diameter (")	Hole Diameter (")
Measured Depth (usft)	Vertical Depth (usft)	Name					
1,372.76	1,353.00	13 3/8" Surface Casing				13-3/8	17-1/2
3,319.85	3,253.00	9 5/8" Intermediate Casing				9-5/8	12-1/4

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
911.61	903.00	GRRV				
1,070.45	1,058.00	GRRV_A_GROOVE				
1,265.16	1,248.00	GRRV_B_GROOVE				
1,577.72	1,553.00	GRRV DISSOLUTION_SURF				
2,571.76	2,523.00	GRRV_ORANGE				
2,807.46	2,753.00	WSTC				
5,174.70	5,063.00	G_SAND				
5,461.64	5,343.00	FRUN				
6,834.85	6,683.00	MVRD				
8,112.18	7,943.00	KMVGAS				
10,262.18	10,093.00	CMEO*				
10,782.18	10,613.00	RLNS				
10,932.18	10,763.00	CZZT				
11,152.18	10,983.00	CRCN				
11,502.18	11,333.00	SEGO_UPPER				
11,672.18	11,503.00	SEGO_LOWER				
11,772.18	11,603.00	TD				

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 514-7-297 - Slot RG 514-7-297
<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 514-7-297	<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
766.30	761.21	-67.42	-15.94	Start 6504.14 hold at 766.30 MD
7,270.44	7,108.06	-1,451.00	-343.05	Start Drop -1.50
8,112.18	7,943.00	-1,540.89	-364.30	Start 3660.00 hold at 8112.18 MD
11,772.18	11,603.00	-1,540.89	-364.30	TD at 11772.18