

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

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RGU 544-6-297 - VP	8432.00	-2204.38	2241.56	1764473.92	2209611.56	39.898648	-108.317372	Circle (Radius: 100.00)
RGU 544-6-297 - PBHL	12212.00	-2204.38	2241.56	1764473.92	2209611.56	39.898648	-108.317372	Point

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well RGU 544-6-297 - Slot RGU 544-6-297, True North
 Vertical (TVD) Reference: KB=30' @ 6252.00usft (H&P #329)
 Section (VS) Reference: Slot - RGU 544-6-297(0.00N, 0.00E)
 Measured Depth Reference: KB=30' @ 6252.00usft (H&P #329)
 Calculation Method: Minimum Curvature

ANNOTATIONS

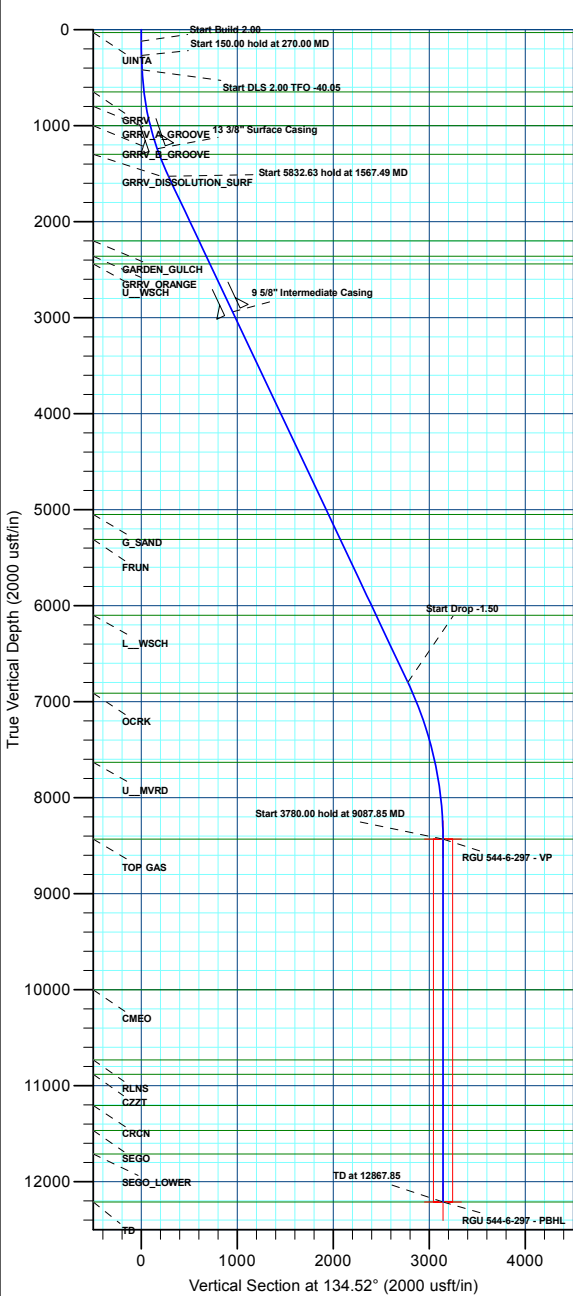
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 2.00
270.00	3.00	170.00	269.93	-3.87	0.68	3.20	3.93	Start 150.00 hold at 270.00 MD
420.00	3.00	170.00	419.73	-11.60	2.04	9.59	11.78	Start DLS 2.00 TFO -40.05
1567.49	25.32	134.07	1526.17	-214.53	186.00	283.04	286.83	Start 5832.63 hold at 1567.49 MD
7400.13	25.32	134.07	6798.65	-1949.24	1977.99	2777.05	2780.91	Start Drop -1.50
9087.85	0.00	0.00	8432.00	-2204.38	2241.56	3143.87	3147.74	Start 3780.00 hold at 9087.85 MD
12867.85	0.00	0.00	12212.00	-2204.38	2241.56	3143.87	3147.74	TD at 12867.85

WELL DETAILS: RGU 544-6-297

+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1766746.94	6222.00	39.904699	-108.325361	RGU 544-6-297

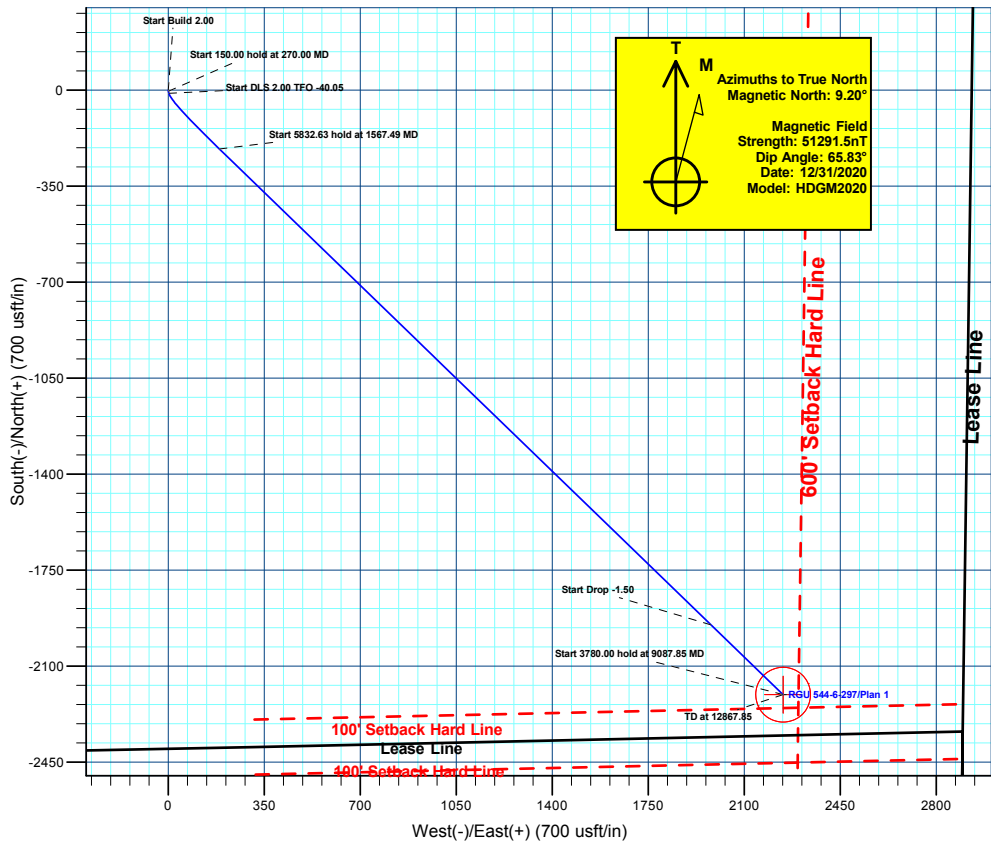
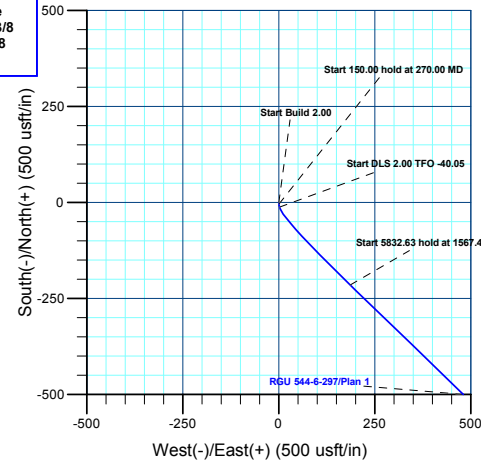
CASING DETAILS

TVD	MD	Name	Size
1240.00	1258.19	13 3/8" Surface Casing	13-3/8
2940.00	3131.53	9 5/8" Intermediate Casing	9-5/8



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UINTA
650.00	651.22	GRRV
800.00	802.96	GRRV_A_GROOVE
1000.00	1007.59	GRRV_B_GROOVE
1300.00	1321.96	GRRV_DISSOLUTION_SURF
2200.00	2312.92	GARDEN_GULCH
2360.00	2489.91	GRRV_ORANGE
2440.00	2578.41	U_WSCH
5050.00	5465.70	G_SAND
5310.00	5753.32	FRUN
6100.00	6627.25	L_WSCH
6912.00	7524.58	OCRK
7632.00	8281.89	U_MVRD
8432.00	9087.85	TOP GAS
10002.00	10657.85	CMEO
10732.00	11387.85	RLNS
10882.00	11537.85	CZTZ
11207.00	11862.85	CRCN
11467.00	12122.85	SEGO
11712.00	12367.85	SEGO_LOWER
12212.00	12867.85	TD





Terra Energy Partners, LLP

Rio Blanco County, CO

RGU 23-6-297 Pad

RGU 544-6-297 - Slot RGU 544-6-297

Wellbore #1

Plan: Plan 1

KLX Well Planning Report

10 May, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 544-6-297 - Slot RGU 544-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 544-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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 23-6-297 Pad				
Site Position:		Northing:	1,766,844.82 usft	Latitude:	39.904967
From:	Map	Easting:	2,207,435.21 usft	Longitude:	-108.325388
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.78 °

Well	RGU 544-6-297 - Slot RGU 544-6-297					
Well Position	+N/-S	-97.70 usft	Northing:	1,766,746.94 usft	Latitude:	39.904699
	+E/-W	7.46 usft	Easting:	2,207,439.63 usft	Longitude:	-108.325361
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,222.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	12/31/2020	9.20	65.83	51,291.50000000

Design	Plan 1				
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	134.52	

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	
270.00	3.00	170.00	269.93	-3.87	0.68	2.00	2.00	0.00	170.00	
420.00	3.00	170.00	419.73	-11.60	2.04	0.00	0.00	0.00	0.00	
1,567.49	25.32	134.07	1,526.17	-214.53	186.00	2.00	1.94	-3.13	-40.05	
7,400.13	25.32	134.07	6,798.65	-1,949.24	1,977.99	0.00	0.00	0.00	0.00	
9,087.85	0.00	0.00	8,432.00	-2,204.38	2,241.56	1.50	-1.50	0.00	180.00	RGU 544-6-297 - VP
12,867.85	0.00	0.00	12,212.00	-2,204.38	2,241.56	0.00	0.00	0.00	0.00	RGU 544-6-297 - PBt

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 544-6-297 - Slot RGU 544-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 544-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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	0.00
UINTA										
30.00	0.00	0.00	30.00	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	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	0.00
200.00	1.60	170.00	199.99	-1.10	0.19	0.91	2.00	2.00	0.00	0.00
Start 150.00 hold at 270.00 MD										
270.00	3.00	170.00	269.93	-3.87	0.68	3.20	2.00	2.00	0.00	0.00
300.00	3.00	170.00	299.89	-5.41	0.95	4.48	0.00	0.00	0.00	0.00
400.00	3.00	170.00	399.75	-10.57	1.86	8.74	0.00	0.00	0.00	0.00
Start DLS 2.00 TFO -40.05										
420.00	3.00	170.00	419.73	-11.60	2.04	9.59	0.00	0.00	0.00	0.00
500.00	4.35	156.29	499.56	-16.44	3.63	14.11	2.00	1.69	-17.14	
600.00	6.20	148.04	599.13	-24.49	8.01	22.89	2.00	1.86	-8.25	
GRRV										
651.22	7.18	145.49	650.00	-29.48	11.29	28.72	2.00	1.91	-4.99	
700.00	8.13	143.63	698.35	-34.77	15.07	35.12	2.00	1.93	-3.81	
800.00	10.08	140.91	797.09	-47.26	24.78	50.80	2.00	1.95	-2.72	
GRRV_A_GROOVE										
802.96	10.14	140.84	800.00	-47.66	25.10	51.32	2.00	1.96	-2.19	
900.00	12.05	139.07	895.22	-61.94	37.14	69.91	2.00	1.97	-1.83	
1,000.00	14.03	137.74	992.64	-78.80	52.13	92.42	2.00	1.98	-1.33	
GRRV_B_GROOVE										
1,007.59	14.18	137.65	1,000.00	-80.16	53.37	94.26	2.00	1.98	-1.13	
1,100.00	16.01	136.73	1,089.22	-97.81	69.73	118.30	2.00	1.98	-1.00	
1,200.00	18.00	135.94	1,184.84	-118.95	89.93	147.53	2.00	1.99	-0.79	
13 3/8" Surface Casing										
1,258.19	19.15	135.55	1,240.00	-132.23	102.87	166.06	2.00	1.99	-0.66	
1,300.00	19.99	135.30	1,279.39	-142.20	112.70	180.06	2.00	1.99	-0.60	
GRRV DISSOLUTION SURF										
1,321.96	20.42	135.18	1,300.00	-147.59	118.04	187.65	2.00	1.99	-0.56	
1,400.00	21.98	134.77	1,372.76	-167.53	138.01	215.87	2.00	1.99	-0.52	
1,500.00	23.97	134.33	1,464.82	-194.91	165.82	254.90	2.00	1.99	-0.44	
Start 5832.63 hold at 1567.49 MD										
1,567.49	25.32	134.07	1,526.17	-214.53	186.00	283.04	2.00	1.99	-0.39	
1,600.00	25.32	134.07	1,555.55	-224.20	195.99	296.94	0.00	0.00	0.00	
1,700.00	25.32	134.07	1,645.95	-253.94	226.71	339.70	0.00	0.00	0.00	
1,800.00	25.32	134.07	1,736.34	-283.68	257.43	382.46	0.00	0.00	0.00	
1,900.00	25.32	134.07	1,826.74	-313.42	288.16	425.22	0.00	0.00	0.00	
2,000.00	25.32	134.07	1,917.14	-343.16	318.88	467.98	0.00	0.00	0.00	
2,100.00	25.32	134.07	2,007.53	-372.91	349.61	510.74	0.00	0.00	0.00	
2,200.00	25.32	134.07	2,097.93	-402.65	380.33	553.50	0.00	0.00	0.00	
2,300.00	25.32	134.07	2,188.33	-432.39	411.05	596.26	0.00	0.00	0.00	
GARDEN_GULCH										
2,312.92	25.32	134.07	2,200.00	-436.23	415.02	601.78	0.00	0.00	0.00	
2,400.00	25.32	134.07	2,278.72	-462.13	441.78	639.02	0.00	0.00	0.00	
GRRV_ORANGE										
2,489.91	25.32	134.07	2,360.00	-488.87	469.40	677.46	0.00	0.00	0.00	
2,500.00	25.32	134.07	2,369.12	-491.87	472.50	681.78	0.00	0.00	0.00	
U_WSCH										
2,578.41	25.32	134.07	2,440.00	-515.19	496.59	715.30	0.00	0.00	0.00	
2,600.00	25.32	134.07	2,459.51	-521.61	503.22	724.53	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 544-6-297 - Slot RGU 544-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 544-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)
2,700.00	25.32	134.07	2,549.91	-551.35	533.95	767.29	0.00	0.00	0.00
2,800.00	25.32	134.07	2,640.31	-581.10	564.67	810.05	0.00	0.00	0.00
2,900.00	25.32	134.07	2,730.70	-610.84	595.39	852.81	0.00	0.00	0.00
3,000.00	25.32	134.07	2,821.10	-640.58	626.12	895.57	0.00	0.00	0.00
3,100.00	25.32	134.07	2,911.50	-670.32	656.84	938.33	0.00	0.00	0.00
9 5/8" Intermediate Casing									
3,131.53	25.32	134.07	2,940.00	-679.70	666.53	951.82	0.00	0.00	0.00
3,200.00	25.32	134.07	3,001.89	-700.06	687.56	981.09	0.00	0.00	0.00
3,300.00	25.32	134.07	3,092.29	-729.80	718.29	1,023.85	0.00	0.00	0.00
3,400.00	25.32	134.07	3,182.69	-759.54	749.01	1,066.61	0.00	0.00	0.00
3,500.00	25.32	134.07	3,273.08	-789.29	779.74	1,109.37	0.00	0.00	0.00
3,600.00	25.32	134.07	3,363.48	-819.03	810.46	1,152.13	0.00	0.00	0.00
3,700.00	25.32	134.07	3,453.87	-848.77	841.18	1,194.89	0.00	0.00	0.00
3,800.00	25.32	134.07	3,544.27	-878.51	871.91	1,237.65	0.00	0.00	0.00
3,900.00	25.32	134.07	3,634.67	-908.25	902.63	1,280.41	0.00	0.00	0.00
4,000.00	25.32	134.07	3,725.06	-937.99	933.35	1,323.17	0.00	0.00	0.00
4,100.00	25.32	134.07	3,815.46	-967.74	964.08	1,365.93	0.00	0.00	0.00
4,200.00	25.32	134.07	3,905.86	-997.48	994.80	1,408.69	0.00	0.00	0.00
4,300.00	25.32	134.07	3,996.25	-1,027.22	1,025.52	1,451.45	0.00	0.00	0.00
4,400.00	25.32	134.07	4,086.65	-1,056.96	1,056.25	1,494.21	0.00	0.00	0.00
4,500.00	25.32	134.07	4,177.05	-1,086.70	1,086.97	1,536.97	0.00	0.00	0.00
4,600.00	25.32	134.07	4,267.44	-1,116.44	1,117.69	1,579.73	0.00	0.00	0.00
4,700.00	25.32	134.07	4,357.84	-1,146.18	1,148.42	1,622.49	0.00	0.00	0.00
4,800.00	25.32	134.07	4,448.23	-1,175.93	1,179.14	1,665.25	0.00	0.00	0.00
4,900.00	25.32	134.07	4,538.63	-1,205.67	1,209.87	1,708.00	0.00	0.00	0.00
5,000.00	25.32	134.07	4,629.03	-1,235.41	1,240.59	1,750.76	0.00	0.00	0.00
5,100.00	25.32	134.07	4,719.42	-1,265.15	1,271.31	1,793.52	0.00	0.00	0.00
5,200.00	25.32	134.07	4,809.82	-1,294.89	1,302.04	1,836.28	0.00	0.00	0.00
5,300.00	25.32	134.07	4,900.22	-1,324.63	1,332.76	1,879.04	0.00	0.00	0.00
5,400.00	25.32	134.07	4,990.61	-1,354.37	1,363.48	1,921.80	0.00	0.00	0.00
G_SAND									
5,465.70	25.32	134.07	5,050.00	-1,373.91	1,383.67	1,949.89	0.00	0.00	0.00
5,500.00	25.32	134.07	5,081.01	-1,384.12	1,394.21	1,964.56	0.00	0.00	0.00
5,600.00	25.32	134.07	5,171.41	-1,413.86	1,424.93	2,007.32	0.00	0.00	0.00
5,700.00	25.32	134.07	5,261.80	-1,443.60	1,455.65	2,050.08	0.00	0.00	0.00
FRUN									
5,753.32	25.32	134.07	5,310.00	-1,459.46	1,472.04	2,072.88	0.00	0.00	0.00
5,800.00	25.32	134.07	5,352.20	-1,473.34	1,486.38	2,092.84	0.00	0.00	0.00
5,900.00	25.32	134.07	5,442.60	-1,503.08	1,517.10	2,135.60	0.00	0.00	0.00
6,000.00	25.32	134.07	5,532.99	-1,532.82	1,547.82	2,178.36	0.00	0.00	0.00
6,100.00	25.32	134.07	5,623.39	-1,562.56	1,578.55	2,221.12	0.00	0.00	0.00
6,200.00	25.32	134.07	5,713.78	-1,592.31	1,609.27	2,263.88	0.00	0.00	0.00
6,300.00	25.32	134.07	5,804.18	-1,622.05	1,640.00	2,306.64	0.00	0.00	0.00
6,400.00	25.32	134.07	5,894.58	-1,651.79	1,670.72	2,349.40	0.00	0.00	0.00
6,500.00	25.32	134.07	5,984.97	-1,681.53	1,701.44	2,392.16	0.00	0.00	0.00
6,600.00	25.32	134.07	6,075.37	-1,711.27	1,732.17	2,434.92	0.00	0.00	0.00
L_WSCH									
6,627.25	25.32	134.07	6,100.00	-1,719.38	1,740.54	2,446.57	0.00	0.00	0.00
6,700.00	25.32	134.07	6,165.77	-1,741.01	1,762.89	2,477.68	0.00	0.00	0.00
6,800.00	25.32	134.07	6,256.16	-1,770.76	1,793.61	2,520.44	0.00	0.00	0.00
6,900.00	25.32	134.07	6,346.56	-1,800.50	1,824.34	2,563.20	0.00	0.00	0.00
7,000.00	25.32	134.07	6,436.96	-1,830.24	1,855.06	2,605.96	0.00	0.00	0.00
7,100.00	25.32	134.07	6,527.35	-1,859.98	1,885.78	2,648.71	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 544-6-297 - Slot RGU 544-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 544-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)
7,200.00	25.32	134.07	6,617.75	-1,889.72	1,916.51	2,691.47	0.00	0.00	0.00
7,300.00	25.32	134.07	6,708.14	-1,919.46	1,947.23	2,734.23	0.00	0.00	0.00
Start Drop -1.50									
7,400.13	25.32	134.07	6,798.65	-1,949.24	1,977.99	2,777.05	0.00	0.00	0.00
7,500.00	23.82	134.07	6,889.49	-1,978.12	2,007.83	2,818.57	1.50	-1.50	0.00
OCRK									
7,524.58	23.45	134.07	6,912.00	-1,984.97	2,014.91	2,828.42	1.50	-1.50	0.00
7,600.00	22.32	134.07	6,981.49	-2,005.37	2,035.98	2,857.75	1.50	-1.50	0.00
7,700.00	20.82	134.07	7,074.48	-2,030.94	2,062.39	2,894.51	1.50	-1.50	0.00
7,800.00	19.32	134.07	7,168.41	-2,054.81	2,087.04	2,928.82	1.50	-1.50	0.00
7,900.00	17.82	134.07	7,263.20	-2,076.95	2,109.92	2,960.66	1.50	-1.50	0.00
8,000.00	16.32	134.07	7,358.79	-2,097.37	2,131.01	2,990.01	1.50	-1.50	0.00
8,100.00	14.82	134.07	7,455.12	-2,116.03	2,150.29	3,016.84	1.50	-1.50	0.00
8,200.00	13.32	134.07	7,552.12	-2,132.94	2,167.75	3,041.15	1.50	-1.50	0.00
U_MVRD									
8,281.89	12.09	134.07	7,632.00	-2,145.46	2,180.69	3,059.15	1.50	-1.50	0.00
8,300.00	11.82	134.07	7,649.72	-2,148.07	2,183.39	3,062.91	1.50	-1.50	0.00
8,400.00	10.32	134.07	7,747.86	-2,161.42	2,197.18	3,082.10	1.50	-1.50	0.00
8,500.00	8.82	134.07	7,846.46	-2,172.98	2,209.12	3,098.72	1.50	-1.50	0.00
8,600.00	7.32	134.07	7,945.47	-2,182.74	2,219.21	3,112.76	1.50	-1.50	0.00
8,700.00	5.82	134.07	8,044.81	-2,190.70	2,227.42	3,124.19	1.50	-1.50	0.00
8,800.00	4.32	134.07	8,144.42	-2,196.84	2,233.77	3,133.03	1.50	-1.50	0.00
8,900.00	2.82	134.07	8,244.22	-2,201.17	2,238.24	3,139.25	1.50	-1.50	0.00
9,000.00	1.32	134.07	8,344.15	-2,203.68	2,240.83	3,142.86	1.50	-1.50	0.00
Start 3780.00 hold at 9087.85 MD - TOP GAS									
9,087.85	0.00	0.00	8,432.00	-2,204.38	2,241.56	3,143.87	1.50	-1.50	0.00
9,100.00	0.00	0.00	8,444.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
9,200.00	0.00	0.00	8,544.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
9,300.00	0.00	0.00	8,644.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
9,400.00	0.00	0.00	8,744.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
9,500.00	0.00	0.00	8,844.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
9,600.00	0.00	0.00	8,944.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
9,700.00	0.00	0.00	9,044.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
9,800.00	0.00	0.00	9,144.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
9,900.00	0.00	0.00	9,244.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,000.00	0.00	0.00	9,344.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,100.00	0.00	0.00	9,444.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,200.00	0.00	0.00	9,544.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,300.00	0.00	0.00	9,644.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,400.00	0.00	0.00	9,744.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,500.00	0.00	0.00	9,844.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,600.00	0.00	0.00	9,944.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
CME0									
10,657.85	0.00	0.00	10,002.00	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,700.00	0.00	0.00	10,044.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,800.00	0.00	0.00	10,144.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
10,900.00	0.00	0.00	10,244.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
11,000.00	0.00	0.00	10,344.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
11,100.00	0.00	0.00	10,444.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
11,200.00	0.00	0.00	10,544.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
11,300.00	0.00	0.00	10,644.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00
RLNS									
11,387.85	0.00	0.00	10,732.00	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 544-6-297 - Slot RGU 544-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 544-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)	
11,400.00	0.00	0.00	10,744.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
11,500.00	0.00	0.00	10,844.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
CZZT										
11,537.85	0.00	0.00	10,882.00	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
11,600.00	0.00	0.00	10,944.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,044.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,144.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
CRCN										
11,862.85	0.00	0.00	11,207.00	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,244.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,344.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,444.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
SEGO										
12,122.85	0.00	0.00	11,467.00	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,544.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
12,300.00	0.00	0.00	11,644.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
SEGO_LOWER										
12,367.85	0.00	0.00	11,712.00	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
12,400.00	0.00	0.00	11,744.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
12,500.00	0.00	0.00	11,844.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
12,600.00	0.00	0.00	11,944.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
12,700.00	0.00	0.00	12,044.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
12,800.00	0.00	0.00	12,144.15	-2,204.38	2,241.56	3,143.87	0.00	0.00	0.00	
TD at 12867.85 - TD										
12,867.85	0.00	0.00	12,212.00	-2,204.38	2,241.56	3,143.87	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
RGU 544-6-297 - VP - hit/miss target - Shape	0.00	0.00	8,432.00	-2,204.38	2,241.56	1,764,473.92	2,209,611.56	39.898648	-108.317372
RGU 544-6-297 - PBHL - plan hits target center - Circle (radius 100.00)									
RGU 544-6-297 - PBHL - plan hits target center - Point	0.00	0.00	12,212.00	-2,204.38	2,241.56	1,764,473.92	2,209,611.56	39.898648	-108.317372

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,258.19	1,240.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,131.53	2,940.00	9 5/8" Intermediate Casing	9-5/8	12-1/4	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 544-6-297 - Slot RGU 544-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6252.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6252.00usft (H&P #329)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	RGU 544-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	UINTA				
651.22	650.00	GRRV				
802.96	800.00	GRRV_A_GROOVE				
1,007.59	1,000.00	GRRV_B_GROOVE				
1,321.96	1,300.00	GRRV DISSOLUTION_SURF				
2,312.92	2,200.00	GARDEN_GULCH				
2,489.91	2,360.00	GRRV_ORANGE				
2,578.41	2,440.00	U_WSCH				
5,465.70	5,050.00	G_SAND				
5,753.32	5,310.00	FRUN				
6,627.25	6,100.00	L_WSCH				
7,524.58	6,912.00	OCRK				
8,281.89	7,632.00	U_MVRD				
9,087.85	8,432.00	TOP GAS				
10,657.85	10,002.00	CMEO				
11,387.85	10,732.00	RLNS				
11,537.85	10,882.00	CZZT				
11,862.85	11,207.00	CRCN				
12,122.85	11,467.00	SEGO				
12,367.85	11,712.00	SEGO_LOWER				
12,867.85	12,212.00	TD				

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	
270.00	269.93	-3.87	0.68	Start 150.00 hold at 270.00 MD	
420.00	419.73	-11.60	2.04	Start DLS 2.00 TFO -40.05	
1,567.49	1,526.17	-214.53	186.00	Start 5832.63 hold at 1567.49 MD	
7,400.13	6,798.65	-1,949.24	1,977.99	Start Drop -1.50	
9,087.85	8,432.00	-2,204.38	2,241.56	Start 3780.00 hold at 9087.85 MD	
12,867.85	12,212.00	-2,204.38	2,241.56	TD at 12867.85	