

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
FED RGU 424-6-297 - VP	8416.00	-743.68	2506.54	1764682.32	2206903.69	39.898989	-108.327041	Circle (Radius: 100.00)
FED RGU 424-6-297 - PBHL	12196.00	-743.68	2506.54	1764682.32	2206903.69	39.898989	-108.327041	Point

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well FED RGU 424-6-297 - Slot FED RGU 424-6-297, True North
 Vertical (TVD) Reference: KB=30' @ 6308.00usft (H&P #329)
 Section (VS) Reference: Slot - FED RGU 424-6-297(0.00N, 0.00E)
 Measured Depth Reference: KB=30' @ 6308.00usft (H&P #329)
 Calculation Method: Minimum Curvature

ANNOTATIONS

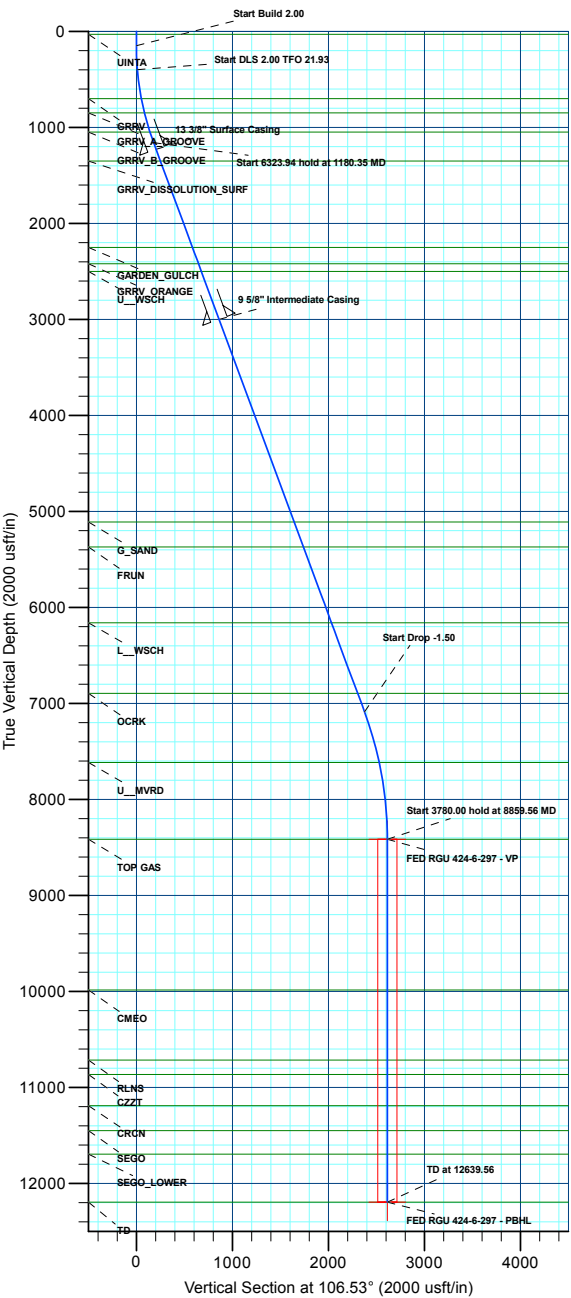
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	Start Build 2.00
400.00	5.00	90.00	399.68	0.00	10.90	10.45	10.90	Start DLS 2.00 TFO 21.93
1180.35	20.33	106.81	1158.95	-39.45	175.69	179.65	180.68	Start 6323.94 hold at 1180.35 MD
7504.29	20.33	106.81	7088.99	-674.87	2278.79	2376.62	2377.68	Start Drop -1.50
8859.56	0.00	0.00	8416.00	-743.68	2506.54	2614.54	2615.60	Start 3780.00 hold at 8859.56 MD
12639.56	0.00	0.00	12196.00	-743.68	2506.54	2614.54	2615.60	TD at 12639.56

WELL DETAILS: FED RGU 424-6-297

+N/-S	+E/-W	Northing	Ground Elev:	6278.00	Latitude	Longitude	Slot
0.00	0.00	1765503.87	2204421.58	39.901030	-108.335975	FED RGU 424-6-297	

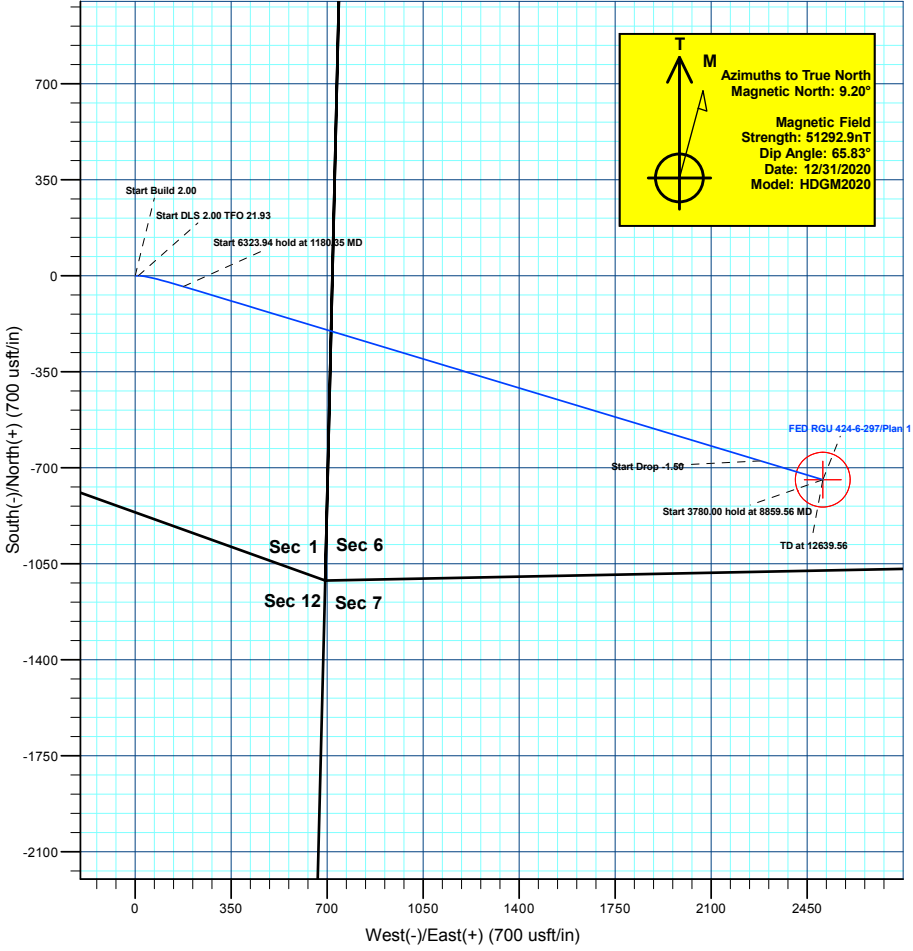
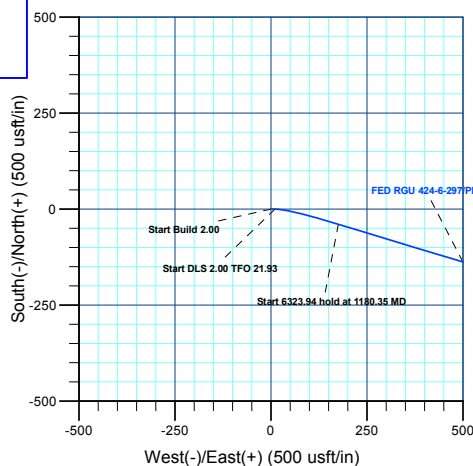
CASING DETAILS

TVD	MD	Name	Size
1230.00	1256.12	13 3/8" Surface Casing	13-3/8
3000.00	3143.699	5/8" Intermediate Casing	9-5/8



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UJNTA
700.00	703.33	GRRV
850.00	856.92	GRRV_A_GROOVE
1050.00	1064.99	GRRV_B_GROOVE
1350.00	1384.09	GRRV_DISSOLUTION_SURF
2250.00	2343.88	GARDEN_GULCH
2420.00	2525.17	GRRV_ORANGE
2500.00	2610.48	U_WSCH
5110.00	5393.85	G_SAND
5370.00	5671.12	FRUN
6160.00	6513.59	L_WSCH
6896.00	7298.48	OCRK
7616.00	8053.59	U_MVRD
8416.00	8859.56	TOP GAS
9986.00	10429.56	CMEO
10716.00	11159.56	RLNS
10866.00	11309.56	CZZT
11191.00	11634.56	CRCN
11451.00	11894.56	SEGO
11696.00	12139.56	SEGO_LOWER
12196.00	12639.56	TD





Terra Energy Partners, LLP

Rio Blanco County, CO

RGU 44-1-298

FED RGU 424-6-297 - Slot FED RGU 424-6-297

Wellbore #1

Plan: Plan 1

KLX Well Planning Report

05 May, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well FED RGU 424-6-297 - Slot FED RGU 424-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6308.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6308.00usft (H&P #329)
Site:	RGU 44-1-298	North Reference:	True
Well:	FED RGU 424-6-297	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 44-1-298				
Site Position:	Northing:	1,765,503.75 usft	Latitude:	39.901031	
From: Map	Easting:	2,204,429.08 usft	Longitude:	-108.335948	
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.79 °

Well	FED RGU 424-6-297 - Slot FED RGU 424-6-297					
Well Position	+N/-S	-0.11 usft	Northing:	1,765,503.87 usft	Latitude:	39.901030
	+E/-W	-7.50 usft	Easting:	2,204,421.58 usft	Longitude:	-108.335975
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	6,278.00 usft

Wellbore	Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM2020	12/31/2020	9.20	65.83	51,292.90000000	

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	106.53

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	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	5.00	90.00	399.68	0.00	10.90	2.00	2.00	0.00	90.00	
1,180.35	20.33	106.81	1,158.95	-39.45	175.69	2.00	1.96	2.15	21.93	
7,504.29	20.33	106.81	7,088.99	-674.87	2,278.79	0.00	0.00	0.00	0.00	
8,859.56	0.00	0.00	8,416.00	-743.68	2,506.54	1.50	-1.50	0.00	180.00	FED RGU 424-6-297
12,639.56	0.00	0.00	12,196.00	-743.68	2,506.54	0.00	0.00	0.00	0.00	FED RGU 424-6-297

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Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6308.00usft (H&P #329)
Site:	RGU 44-1-298	North Reference:	True
Well:	FED RGU 424-6-297	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
UINTA									
30.00	0.00	0.00	30.00	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									
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.00	90.00	200.00	0.00	0.44	0.42	2.00	2.00	0.00
300.00	3.00	90.00	299.93	0.00	3.93	3.76	2.00	2.00	0.00
Start DLS 2.00 TFO 21.93									
400.00	5.00	90.00	399.68	0.00	10.90	10.45	2.00	2.00	0.00
500.00	6.90	96.23	499.14	-0.65	21.23	20.54	2.00	1.90	6.23
600.00	8.84	99.76	598.20	-2.61	34.77	34.07	2.00	1.94	3.53
700.00	10.80	102.02	696.73	-5.86	51.50	51.04	2.00	1.96	2.26
GRRV									
703.33	10.87	102.09	700.00	-5.99	52.12	51.67	2.00	1.97	1.84
800.00	12.77	103.60	794.61	-10.41	71.41	71.43	2.00	1.97	1.56
GRRV_A_GROOVE									
856.92	13.90	104.29	850.00	-13.58	84.16	84.54	2.00	1.98	1.23
900.00	14.76	104.75	891.74	-16.25	94.48	95.20	2.00	1.98	1.06
1,000.00	16.74	105.64	987.98	-23.38	120.67	122.33	2.00	1.99	0.89
GRRV_B_GROOVE									
1,064.99	18.03	106.11	1,050.00	-28.70	139.34	141.75	2.00	1.99	0.73
1,100.00	18.73	106.34	1,083.22	-31.78	149.94	152.79	2.00	1.99	0.65
Start 6323.94 hold at 1180.35 MD									
1,180.35	20.33	106.81	1,158.95	-39.45	175.69	179.65	2.00	1.99	0.58
1,200.00	20.33	106.81	1,177.37	-41.42	182.22	186.48	0.00	0.00	0.00
13 3/8" Surface Casing									
1,256.12	20.33	106.81	1,230.00	-47.06	200.88	205.97	0.00	0.00	0.00
1,300.00	20.33	106.81	1,271.14	-51.47	215.48	221.22	0.00	0.00	0.00
GRRV DISSOLUTION_SURF									
1,384.09	20.33	106.81	1,350.00	-59.92	243.44	250.43	0.00	0.00	0.00
1,400.00	20.33	106.81	1,364.91	-61.52	248.73	255.96	0.00	0.00	0.00
1,500.00	20.33	106.81	1,458.69	-71.57	281.99	290.70	0.00	0.00	0.00
1,600.00	20.33	106.81	1,552.46	-81.61	315.25	325.44	0.00	0.00	0.00
1,700.00	20.33	106.81	1,646.23	-91.66	348.50	360.18	0.00	0.00	0.00
1,800.00	20.33	106.81	1,740.00	-101.71	381.76	394.92	0.00	0.00	0.00
1,900.00	20.33	106.81	1,833.77	-111.76	415.01	429.66	0.00	0.00	0.00
2,000.00	20.33	106.81	1,927.54	-121.81	448.27	464.40	0.00	0.00	0.00
2,100.00	20.33	106.81	2,021.31	-131.85	481.53	499.14	0.00	0.00	0.00
2,200.00	20.33	106.81	2,115.09	-141.90	514.78	533.88	0.00	0.00	0.00
2,300.00	20.33	106.81	2,208.86	-151.95	548.04	568.62	0.00	0.00	0.00
GARDEN_GULCH									
2,343.88	20.33	106.81	2,250.00	-156.36	562.63	583.87	0.00	0.00	0.00
2,400.00	20.33	106.81	2,302.63	-162.00	581.30	603.36	0.00	0.00	0.00
2,500.00	20.33	106.81	2,396.40	-172.04	614.55	638.10	0.00	0.00	0.00
GRRV_ORANGE									
2,525.17	20.33	106.81	2,420.00	-174.57	622.92	646.85	0.00	0.00	0.00
2,600.00	20.33	106.81	2,490.17	-182.09	647.81	672.84	0.00	0.00	0.00
U_WSCH									
2,610.48	20.33	106.81	2,500.00	-183.15	651.29	676.49	0.00	0.00	0.00
2,700.00	20.33	106.81	2,583.94	-192.14	681.06	707.58	0.00	0.00	0.00
2,800.00	20.33	106.81	2,677.71	-202.19	714.32	742.33	0.00	0.00	0.00

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Site:	RGU 44-1-298	North Reference:	True
Well:	FED RGU 424-6-297	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)
2,900.00	20.33	106.81	2,771.48	-212.24	747.58	777.07	0.00	0.00	0.00
3,000.00	20.33	106.81	2,865.26	-222.28	780.83	811.81	0.00	0.00	0.00
3,100.00	20.33	106.81	2,959.03	-232.33	814.09	846.55	0.00	0.00	0.00
9 5/8" Intermediate Casing									
3,143.69	20.33	106.81	3,000.00	-236.72	828.62	861.73	0.00	0.00	0.00
3,200.00	20.33	106.81	3,052.80	-242.38	847.35	881.29	0.00	0.00	0.00
3,300.00	20.33	106.81	3,146.57	-252.43	880.60	916.03	0.00	0.00	0.00
3,400.00	20.33	106.81	3,240.34	-262.47	913.86	950.77	0.00	0.00	0.00
3,500.00	20.33	106.81	3,334.11	-272.52	947.11	985.51	0.00	0.00	0.00
3,600.00	20.33	106.81	3,427.88	-282.57	980.37	1,020.25	0.00	0.00	0.00
3,700.00	20.33	106.81	3,521.66	-292.62	1,013.63	1,054.99	0.00	0.00	0.00
3,800.00	20.33	106.81	3,615.43	-302.67	1,046.88	1,089.73	0.00	0.00	0.00
3,900.00	20.33	106.81	3,709.20	-312.71	1,080.14	1,124.47	0.00	0.00	0.00
4,000.00	20.33	106.81	3,802.97	-322.76	1,113.40	1,159.21	0.00	0.00	0.00
4,100.00	20.33	106.81	3,896.74	-332.81	1,146.65	1,193.95	0.00	0.00	0.00
4,200.00	20.33	106.81	3,990.51	-342.86	1,179.91	1,228.69	0.00	0.00	0.00
4,300.00	20.33	106.81	4,084.28	-352.91	1,213.16	1,263.43	0.00	0.00	0.00
4,400.00	20.33	106.81	4,178.05	-362.95	1,246.42	1,298.17	0.00	0.00	0.00
4,500.00	20.33	106.81	4,271.83	-373.00	1,279.68	1,332.92	0.00	0.00	0.00
4,600.00	20.33	106.81	4,365.60	-383.05	1,312.93	1,367.66	0.00	0.00	0.00
4,700.00	20.33	106.81	4,459.37	-393.10	1,346.19	1,402.40	0.00	0.00	0.00
4,800.00	20.33	106.81	4,553.14	-403.14	1,379.45	1,437.14	0.00	0.00	0.00
4,900.00	20.33	106.81	4,646.91	-413.19	1,412.70	1,471.88	0.00	0.00	0.00
5,000.00	20.33	106.81	4,740.68	-423.24	1,445.96	1,506.62	0.00	0.00	0.00
5,100.00	20.33	106.81	4,834.45	-433.29	1,479.21	1,541.36	0.00	0.00	0.00
5,200.00	20.33	106.81	4,928.22	-443.34	1,512.47	1,576.10	0.00	0.00	0.00
5,300.00	20.33	106.81	5,022.00	-453.38	1,545.73	1,610.84	0.00	0.00	0.00
G_SAND									
5,393.85	20.33	106.81	5,110.00	-462.81	1,576.94	1,643.44	0.00	0.00	0.00
5,400.00	20.33	106.81	5,115.77	-463.43	1,578.98	1,645.58	0.00	0.00	0.00
5,500.00	20.33	106.81	5,209.54	-473.48	1,612.24	1,680.32	0.00	0.00	0.00
5,600.00	20.33	106.81	5,303.31	-483.53	1,645.50	1,715.06	0.00	0.00	0.00
FRUN									
5,671.12	20.33	106.81	5,370.00	-490.67	1,669.15	1,739.77	0.00	0.00	0.00
5,700.00	20.33	106.81	5,397.08	-493.57	1,678.75	1,749.80	0.00	0.00	0.00
5,800.00	20.33	106.81	5,490.85	-503.62	1,712.01	1,784.54	0.00	0.00	0.00
5,900.00	20.33	106.81	5,584.62	-513.67	1,745.27	1,819.28	0.00	0.00	0.00
6,000.00	20.33	106.81	5,678.40	-523.72	1,778.52	1,854.02	0.00	0.00	0.00
6,100.00	20.33	106.81	5,772.17	-533.77	1,811.78	1,888.76	0.00	0.00	0.00
6,200.00	20.33	106.81	5,865.94	-543.81	1,845.03	1,923.51	0.00	0.00	0.00
6,300.00	20.33	106.81	5,959.71	-553.86	1,878.29	1,958.25	0.00	0.00	0.00
6,400.00	20.33	106.81	6,053.48	-563.91	1,911.55	1,992.99	0.00	0.00	0.00
6,500.00	20.33	106.81	6,147.25	-573.96	1,944.80	2,027.73	0.00	0.00	0.00
L_WSCH									
6,513.59	20.33	106.81	6,160.00	-575.32	1,949.32	2,032.45	0.00	0.00	0.00
6,600.00	20.33	106.81	6,241.02	-584.01	1,978.06	2,062.47	0.00	0.00	0.00
6,700.00	20.33	106.81	6,334.79	-594.05	2,011.32	2,097.21	0.00	0.00	0.00
6,800.00	20.33	106.81	6,428.57	-604.10	2,044.57	2,131.95	0.00	0.00	0.00
6,900.00	20.33	106.81	6,522.34	-614.15	2,077.83	2,166.69	0.00	0.00	0.00
7,000.00	20.33	106.81	6,616.11	-624.20	2,111.08	2,201.43	0.00	0.00	0.00
7,100.00	20.33	106.81	6,709.88	-634.24	2,144.34	2,236.17	0.00	0.00	0.00
7,200.00	20.33	106.81	6,803.65	-644.29	2,177.60	2,270.91	0.00	0.00	0.00

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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)
OCRK									
7,298.48	20.33	106.81	6,896.00	-654.19	2,210.35	2,305.12	0.00	0.00	0.00
7,300.00	20.33	106.81	6,897.42	-654.34	2,210.85	2,305.65	0.00	0.00	0.00
7,400.00	20.33	106.81	6,991.19	-664.39	2,244.11	2,340.39	0.00	0.00	0.00
Start Drop -1.50									
7,504.29	20.33	106.81	7,088.99	-674.87	2,278.79	2,376.62	0.00	0.00	0.00
7,600.00	18.89	106.81	7,179.14	-684.16	2,309.54	2,408.75	1.50	-1.50	0.00
7,700.00	17.39	106.81	7,274.17	-693.16	2,339.35	2,439.88	1.50	-1.50	0.00
7,800.00	15.89	106.81	7,369.98	-701.45	2,366.77	2,468.52	1.50	-1.50	0.00
7,900.00	14.39	106.81	7,466.50	-709.00	2,391.77	2,494.65	1.50	-1.50	0.00
8,000.00	12.89	106.81	7,563.68	-715.82	2,414.35	2,518.23	1.50	-1.50	0.00
U_MVRD									
8,053.59	12.09	106.81	7,616.00	-719.18	2,425.45	2,529.82	1.50	-1.50	0.00
8,100.00	11.39	106.81	7,661.44	-721.91	2,434.49	2,539.27	1.50	-1.50	0.00
8,200.00	9.89	106.81	7,759.71	-727.25	2,452.17	2,557.74	1.50	-1.50	0.00
8,300.00	8.39	106.81	7,858.44	-731.84	2,467.38	2,573.63	1.50	-1.50	0.00
8,400.00	6.89	106.81	7,957.55	-735.69	2,480.11	2,586.93	1.50	-1.50	0.00
8,500.00	5.39	106.81	8,056.97	-738.79	2,490.36	2,597.63	1.50	-1.50	0.00
8,600.00	3.89	106.81	8,156.64	-741.13	2,498.10	2,605.72	1.50	-1.50	0.00
8,700.00	2.39	106.81	8,256.49	-742.71	2,503.35	2,611.21	1.50	-1.50	0.00
8,800.00	0.89	106.81	8,356.44	-743.54	2,506.10	2,614.07	1.50	-1.50	0.00
Start 3780.00 hold at 8859.56 MD - TOP GAS									
8,859.56	0.00	0.00	8,416.00	-743.68	2,506.54	2,614.54	1.50	-1.50	0.00
8,900.00	0.00	0.00	8,456.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,000.00	0.00	0.00	8,556.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,100.00	0.00	0.00	8,656.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,200.00	0.00	0.00	8,756.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,300.00	0.00	0.00	8,856.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,400.00	0.00	0.00	8,956.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,500.00	0.00	0.00	9,056.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,600.00	0.00	0.00	9,156.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,700.00	0.00	0.00	9,256.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,800.00	0.00	0.00	9,356.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
9,900.00	0.00	0.00	9,456.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,000.00	0.00	0.00	9,556.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,100.00	0.00	0.00	9,656.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,200.00	0.00	0.00	9,756.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,300.00	0.00	0.00	9,856.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,400.00	0.00	0.00	9,956.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
CME0									
10,429.56	0.00	0.00	9,986.00	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,500.00	0.00	0.00	10,056.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,600.00	0.00	0.00	10,156.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,700.00	0.00	0.00	10,256.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,800.00	0.00	0.00	10,356.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
10,900.00	0.00	0.00	10,456.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
11,000.00	0.00	0.00	10,556.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
11,100.00	0.00	0.00	10,656.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
RLNS									
11,159.56	0.00	0.00	10,716.00	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
11,200.00	0.00	0.00	10,756.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00
11,300.00	0.00	0.00	10,856.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well FED RGU 424-6-297 - Slot FED RGU 424-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6308.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6308.00usft (H&P #329)
Site:	RGU 44-1-298	North Reference:	True
Well:	FED RGU 424-6-297	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)	
CZZT										
11,309.56	0.00	0.00	10,866.00	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
11,400.00	0.00	0.00	10,956.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,056.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,156.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
CRCN										
11,634.56	0.00	0.00	11,191.00	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,256.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,356.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
SEGO										
11,894.56	0.00	0.00	11,451.00	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,456.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,556.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,656.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
SEGO_LOWER										
12,139.56	0.00	0.00	11,696.00	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,756.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
12,300.00	0.00	0.00	11,856.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
12,400.00	0.00	0.00	11,956.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
12,500.00	0.00	0.00	12,056.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
12,600.00	0.00	0.00	12,156.44	-743.68	2,506.54	2,614.54	0.00	0.00	0.00	
TD at 12639.56 - TD										
12,639.56	0.00	0.00	12,196.00	-743.68	2,506.54	2,614.54	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	
FED RGU 424-6-297 - V - hit/miss target - Shape - Circle (radius 100.00)	0.00	0.00	8,416.00	-743.68	2,506.54	1,764,682.32	2,206,903.69	39.898989	-108.327042	
FED RGU 424-6-297 - F - plan hits target center - Point	0.00	0.00	12,196.00	-743.68	2,506.54	1,764,682.32	2,206,903.69	39.898989	-108.327042	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,256.12	1,230.00	13 3/8" Surface Casing	13-3/8	17-1/2		
3,143.69	3,000.00	9 5/8" Intermediate Casing	9-5/8	12-1/4		

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well FED RGU 424-6-297 - Slot FED RGU 424-6-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6308.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6308.00usft (H&P #329)
Site:	RGU 44-1-298	North Reference:	True
Well:	FED RGU 424-6-297	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				
703.33	700.00	GRRV				
856.92	850.00	GRRV_A_GROOVE				
1,064.99	1,050.00	GRRV_B_GROOVE				
1,384.09	1,350.00	GRRV DISSOLUTION_SURF				
2,343.88	2,250.00	GARDEN_GULCH				
2,525.17	2,420.00	GRRV_ORANGE				
2,610.48	2,500.00	U_WSCH				
5,393.85	5,110.00	G_SAND				
5,671.12	5,370.00	FRUN				
6,513.59	6,160.00	L_WSCH				
7,298.48	6,896.00	OCRK				
8,053.59	7,616.00	U_MVRD				
8,859.56	8,416.00	TOP GAS				
10,429.56	9,986.00	CMEO				
11,159.56	10,716.00	RLNS				
11,309.56	10,866.00	CZZT				
11,634.56	11,191.00	CRCN				
11,894.56	11,451.00	SEGO				
12,139.56	11,696.00	SEGO_LOWER				
12,639.56	12,196.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
150.00	150.00	0.00	0.00	Start Build 2.00	
400.00	399.68	0.00	10.90	Start DLS 2.00 TFO 21.93	
1,180.35	1,158.95	-39.45	175.69	Start 6323.94 hold at 1180.35 MD	
7,504.29	7,088.99	-674.87	2,278.79	Start Drop -1.50	
8,859.56	8,416.00	-743.68	2,506.54	Start 3780.00 hold at 8859.56 MD	
12,639.56	12,196.00	-743.68	2,506.54	TD at 12639.56	