

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 41-7-297 - VP	8422.00	-2542.19	2237.97	1764128.90	2209597.04	39.897700	-108.317386	Circle (Radius: 100.00)
RGU 41-7-297 - PBHL	12202.00	-2542.19	2237.97	1764128.90	2209597.04	39.897700	-108.317386	Point

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well RGU 41-7-297 - Slot RGU 41-7-297, True North
 Vertical (TVD) Reference: KB=30' @ 6252.00usft (H&P #329)
 Section (VS) Reference: Slot - RGU 41-7-297(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 3.00
286.67	5.00	160.00	286.46	-6.83	2.49	6.77	7.27	Start DLS 2.00 TFO -25.71
1518.07	29.21	138.25	1455.28	-285.73	224.32	362.69	364.46	Start 5202.20 hold at 1518.07 MD
6720.27	29.21	138.25	5996.02	-2179.82	1914.59	2901.25	2903.09	Start Drop -1.50
8667.51	0.00	0.00	7860.00	-2542.19	2237.97	3386.92	3388.76	Start 4342.00 hold at 8667.51 MD
13009.51	0.00	0.00	12202.00	-2542.19	2237.97	3386.92	3388.76	TD at 13009.51

WELL DETAILS: RGU 41-7-297

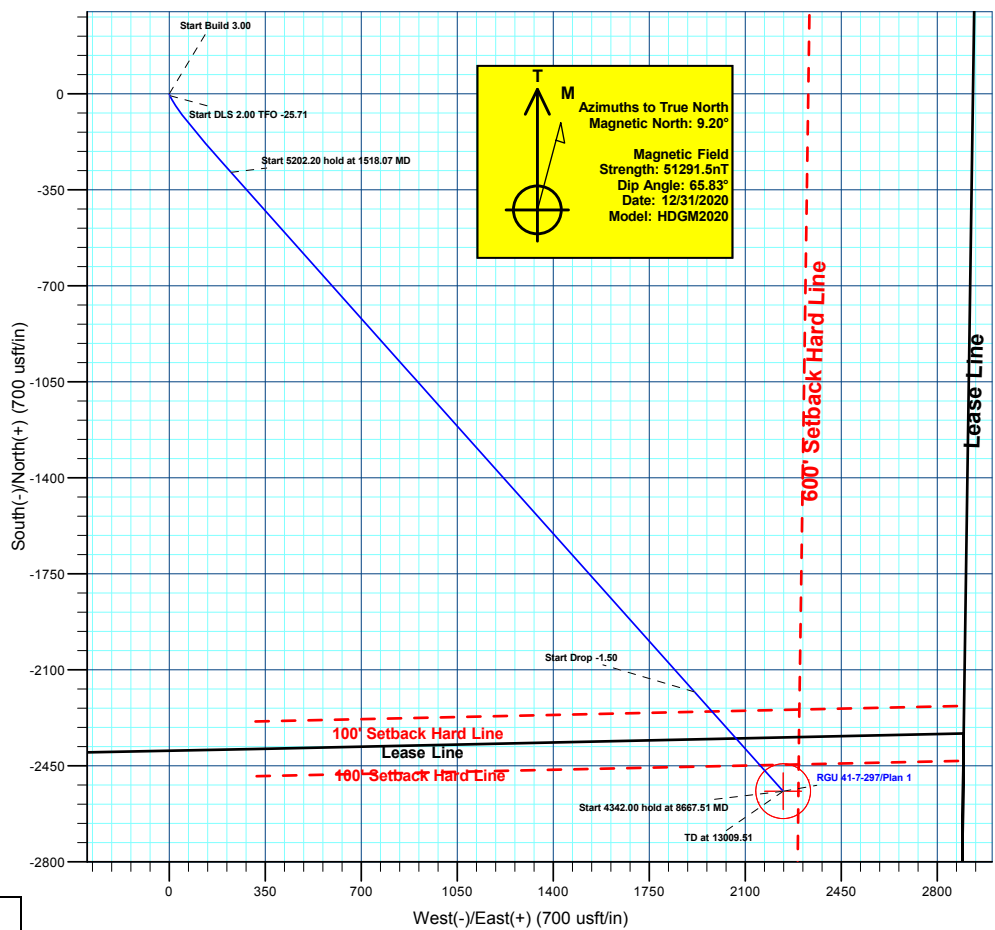
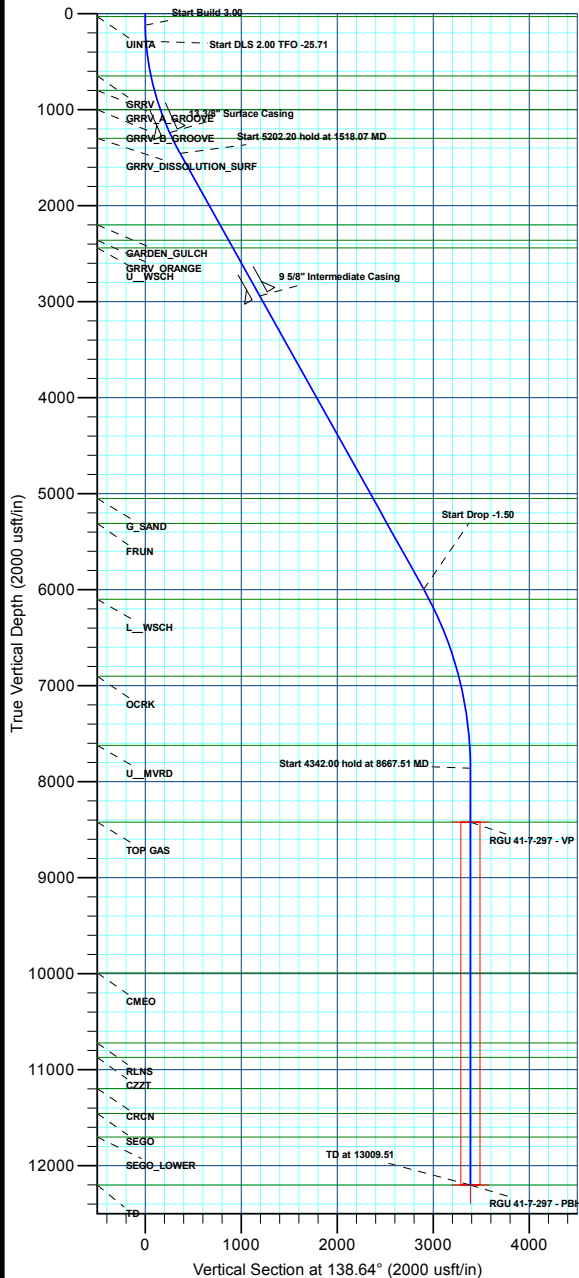
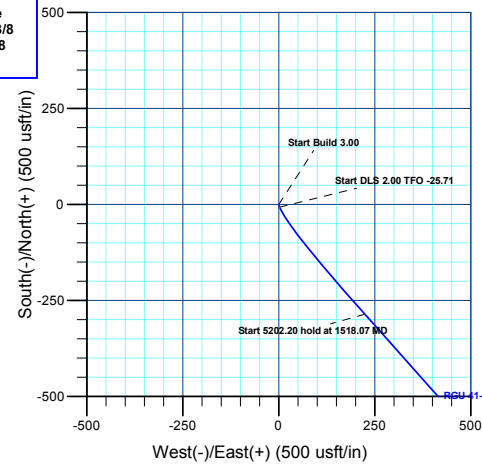
+N/-S	+E/-W	Northing	Ground Elev.	6222.00	Longitude	Slot
0.00	0.00	1766739.45	2207439.20	39.904679	-108.325362	RGU 41-7-297

CASING DETAILS

TVD	MD	Name	Size
1240.00	1276.80	13 3/8" Surface Casing	13-3/8
2940.00	3219.07	9 5/8" Intermediate Casing	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UINTA
650.00	654.47	GRRV
800.00	808.80	GRRV_A_GROOVE
1000.00	1018.18	GRRV_B_GROOVE
1300.00	1343.04	GRRV_DISSOLUTION_SURF
2200.00	2371.28	GARDEN_GULCH
2360.00	2554.58	GRRV_ORANGE
2440.00	2646.24	U_WSCH
5050.00	5636.44	G_SAND
5310.00	5934.32	FRUN
6100.00	6838.40	L_WSCH
6902.00	7699.17	OCRK
7622.00	8429.35	U_MVRD
8422.00	9229.51	TOP GAS
9992.00	10799.51	CMEO
10722.00	11529.51	RLNS
10872.00	11679.51	CZZT
11197.00	12004.51	CRCN
11457.00	12264.51	SEGO
11702.00	12509.51	SEGO_LOWER
12202.00	13009.51	TD



Plan: Plan 1 (RGU 41-7-297/Wellbore #1)

Created By: Chase Chambers Date: 9:36, May 12 2022



Terra Energy Partners, LLP

Rio Blanco County, CO

RGU 23-6-297 Pad

RGU 41-7-297 - Slot RGU 41-7-297

Wellbore #1

Plan: Plan 1

KLX Well Planning Report

12 May, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 41-7-297 - Slot RGU 41-7-297
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 41-7-297	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 41-7-297 - Slot RGU 41-7-297					
Well Position	+N/-S	-105.19 usft	Northing:	1,766,739.45 usft	Latitude:	39.904679
	+E/-W	7.26 usft	Easting:	2,207,439.20 usft	Longitude:	-108.325362
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	138.64	

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	
286.67	5.00	160.00	286.46	-6.83	2.49	3.00	3.00	0.00	160.00	
1,518.07	29.21	138.25	1,455.28	-285.73	224.32	2.00	1.97	-1.77	-25.71	
6,720.27	29.21	138.25	5,996.02	-2,179.82	1,914.59	0.00	0.00	0.00	0.00	
8,667.51	0.00	0.00	7,860.00	-2,542.19	2,237.97	1.50	-1.50	0.00	180.00	
13,009.51	0.00	0.00	12,202.00	-2,542.19	2,237.97	0.00	0.00	0.00	0.00	RGU 41-7-297 - PBHI

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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 41-7-297	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 3.00									
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	2.40	160.00	199.98	-1.57	0.57	1.56	3.00	3.00	0.00
Start DLS 2.00 TFO -25.71									
286.67	5.00	160.00	286.46	-6.83	2.49	6.77	3.00	3.00	0.00
300.00	5.24	158.73	299.74	-7.94	2.91	7.88	2.00	1.81	-9.50
400.00	7.11	152.03	399.15	-17.67	7.47	18.19	2.00	1.87	-6.70
500.00	9.04	148.14	498.16	-29.80	14.51	31.96	2.00	1.92	-3.89
600.00	10.99	145.61	596.63	-44.34	24.04	49.17	2.00	1.95	-2.53
GRRV									
654.47	12.06	144.58	650.00	-53.26	30.27	59.98	2.00	1.96	-1.90
700.00	12.95	143.84	694.45	-61.25	36.04	69.79	2.00	1.97	-1.62
800.00	14.93	142.53	791.50	-80.53	50.49	93.80	2.00	1.98	-1.31
GRRV_A_GROOVE									
808.80	15.10	142.43	800.00	-82.34	51.87	96.08	2.00	1.98	-1.13
900.00	16.91	141.52	887.66	-102.14	67.37	121.18	2.00	1.98	-1.00
1,000.00	18.89	140.72	982.82	-126.06	86.67	151.89	2.00	1.98	-0.80
GRRV_B_GROOVE									
1,018.18	19.26	140.59	1,000.00	-130.65	90.44	157.83	2.00	1.99	-0.71
1,100.00	20.88	140.07	1,076.85	-152.26	108.37	185.89	2.00	1.99	-0.64
1,200.00	22.87	139.52	1,169.64	-180.71	132.42	223.14	2.00	1.99	-0.55
13 3/8" Surface Casing									
1,276.80	24.40	139.16	1,240.00	-204.06	152.49	253.93	2.00	1.99	-0.47
1,300.00	24.86	139.06	1,261.09	-211.37	158.82	263.60	2.00	1.99	-0.44
GRRV DISSOLUTION_SURF									
1,343.04	25.72	138.88	1,300.00	-225.24	170.89	281.98	2.00	1.99	-0.41
1,400.00	26.85	138.66	1,351.07	-244.21	187.52	307.21	2.00	1.99	-0.39
1,500.00	28.85	138.31	1,439.48	-279.19	218.48	353.92	2.00	1.99	-0.35
Start 5202.20 hold at 1518.07 MD									
1,518.07	29.21	138.25	1,455.28	-285.73	224.32	362.69	2.00	1.99	-0.32
1,600.00	29.21	138.25	1,526.79	-315.57	250.94	402.67	0.00	0.00	0.00
1,700.00	29.21	138.25	1,614.08	-351.97	283.43	451.47	0.00	0.00	0.00
1,800.00	29.21	138.25	1,701.36	-388.38	315.92	500.27	0.00	0.00	0.00
1,900.00	29.21	138.25	1,788.65	-424.79	348.41	549.07	0.00	0.00	0.00
2,000.00	29.21	138.25	1,875.93	-461.20	380.90	597.86	0.00	0.00	0.00
2,100.00	29.21	138.25	1,963.22	-497.61	413.40	646.66	0.00	0.00	0.00
2,200.00	29.21	138.25	2,050.50	-534.02	445.89	695.46	0.00	0.00	0.00
2,300.00	29.21	138.25	2,137.79	-570.43	478.38	744.26	0.00	0.00	0.00
GARDEN_GULCH									
2,371.28	29.21	138.25	2,200.00	-596.38	501.54	779.04	0.00	0.00	0.00
2,400.00	29.21	138.25	2,225.07	-606.84	510.87	793.05	0.00	0.00	0.00
2,500.00	29.21	138.25	2,312.36	-643.25	543.36	841.85	0.00	0.00	0.00
GRRV_ORANGE									
2,554.58	29.21	138.25	2,360.00	-663.12	561.10	868.49	0.00	0.00	0.00
2,600.00	29.21	138.25	2,399.64	-679.66	575.85	890.65	0.00	0.00	0.00
U_WSCH									
2,646.24	29.21	138.25	2,440.00	-696.49	590.88	913.21	0.00	0.00	0.00
2,700.00	29.21	138.25	2,486.93	-716.07	608.34	939.45	0.00	0.00	0.00

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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 41-7-297	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)	
2,800.00	29.21	138.25	2,574.21	-752.48	640.84	988.25	0.00	0.00	0.00	
2,900.00	29.21	138.25	2,661.50	-788.89	673.33	1,037.04	0.00	0.00	0.00	
3,000.00	29.21	138.25	2,748.78	-825.30	705.82	1,085.84	0.00	0.00	0.00	
3,100.00	29.21	138.25	2,836.07	-861.70	738.31	1,134.64	0.00	0.00	0.00	
3,200.00	29.21	138.25	2,923.35	-898.11	770.80	1,183.44	0.00	0.00	0.00	
9 5/8" Intermediate Casing										
3,219.07	29.21	138.25	2,940.00	-905.06	777.00	1,192.74	0.00	0.00	0.00	
3,300.00	29.21	138.25	3,010.64	-934.52	803.29	1,232.24	0.00	0.00	0.00	
3,400.00	29.21	138.25	3,097.92	-970.93	835.79	1,281.03	0.00	0.00	0.00	
3,500.00	29.21	138.25	3,185.21	-1,007.34	868.28	1,329.83	0.00	0.00	0.00	
3,600.00	29.21	138.25	3,272.49	-1,043.75	900.77	1,378.63	0.00	0.00	0.00	
3,700.00	29.21	138.25	3,359.78	-1,080.16	933.26	1,427.43	0.00	0.00	0.00	
3,800.00	29.21	138.25	3,447.06	-1,116.57	965.75	1,476.22	0.00	0.00	0.00	
3,900.00	29.21	138.25	3,534.35	-1,152.98	998.24	1,525.02	0.00	0.00	0.00	
4,000.00	29.21	138.25	3,621.63	-1,189.39	1,030.74	1,573.82	0.00	0.00	0.00	
4,100.00	29.21	138.25	3,708.92	-1,225.80	1,063.23	1,622.62	0.00	0.00	0.00	
4,200.00	29.21	138.25	3,796.20	-1,262.21	1,095.72	1,671.42	0.00	0.00	0.00	
4,300.00	29.21	138.25	3,883.49	-1,298.62	1,128.21	1,720.21	0.00	0.00	0.00	
4,400.00	29.21	138.25	3,970.77	-1,335.03	1,160.70	1,769.01	0.00	0.00	0.00	
4,500.00	29.21	138.25	4,058.06	-1,371.44	1,193.19	1,817.81	0.00	0.00	0.00	
4,600.00	29.21	138.25	4,145.34	-1,407.84	1,225.69	1,866.61	0.00	0.00	0.00	
4,700.00	29.21	138.25	4,232.63	-1,444.25	1,258.18	1,915.41	0.00	0.00	0.00	
4,800.00	29.21	138.25	4,319.91	-1,480.66	1,290.67	1,964.20	0.00	0.00	0.00	
4,900.00	29.21	138.25	4,407.20	-1,517.07	1,323.16	2,013.00	0.00	0.00	0.00	
5,000.00	29.21	138.25	4,494.48	-1,553.48	1,355.65	2,061.80	0.00	0.00	0.00	
5,100.00	29.21	138.25	4,581.77	-1,589.89	1,388.14	2,110.60	0.00	0.00	0.00	
5,200.00	29.21	138.25	4,669.05	-1,626.30	1,420.64	2,159.40	0.00	0.00	0.00	
5,300.00	29.21	138.25	4,756.34	-1,662.71	1,453.13	2,208.19	0.00	0.00	0.00	
5,400.00	29.21	138.25	4,843.62	-1,699.12	1,485.62	2,256.99	0.00	0.00	0.00	
5,500.00	29.21	138.25	4,930.91	-1,735.53	1,518.11	2,305.79	0.00	0.00	0.00	
5,600.00	29.21	138.25	5,018.19	-1,771.94	1,550.60	2,354.59	0.00	0.00	0.00	
G_SAND										
5,636.44	29.21	138.25	5,050.00	-1,785.21	1,562.44	2,372.37	0.00	0.00	0.00	
5,700.00	29.21	138.25	5,105.48	-1,808.35	1,583.09	2,403.38	0.00	0.00	0.00	
5,800.00	29.21	138.25	5,192.76	-1,844.76	1,615.58	2,452.18	0.00	0.00	0.00	
5,900.00	29.21	138.25	5,280.05	-1,881.17	1,648.08	2,500.98	0.00	0.00	0.00	
FRUN										
5,934.32	29.21	138.25	5,310.00	-1,893.66	1,659.23	2,517.73	0.00	0.00	0.00	
6,000.00	29.21	138.25	5,367.33	-1,917.57	1,680.57	2,549.78	0.00	0.00	0.00	
6,100.00	29.21	138.25	5,454.62	-1,953.98	1,713.06	2,598.58	0.00	0.00	0.00	
6,200.00	29.21	138.25	5,541.90	-1,990.39	1,745.55	2,647.37	0.00	0.00	0.00	
6,300.00	29.21	138.25	5,629.18	-2,026.80	1,778.04	2,696.17	0.00	0.00	0.00	
6,400.00	29.21	138.25	5,716.47	-2,063.21	1,810.53	2,744.97	0.00	0.00	0.00	
6,500.00	29.21	138.25	5,803.75	-2,099.62	1,843.03	2,793.77	0.00	0.00	0.00	
6,600.00	29.21	138.25	5,891.04	-2,136.03	1,875.52	2,842.57	0.00	0.00	0.00	
6,700.00	29.21	138.25	5,978.32	-2,172.44	1,908.01	2,891.36	0.00	0.00	0.00	
Start Drop -1.50										
6,720.27	29.21	138.25	5,996.02	-2,179.82	1,914.59	2,901.25	0.00	0.00	0.00	
6,800.00	28.01	138.25	6,066.01	-2,208.30	1,940.02	2,939.43	1.50	-1.50	0.00	
L_WSCH										
6,838.40	27.44	138.25	6,100.00	-2,221.63	1,951.91	2,957.30	1.50	-1.50	0.00	
6,900.00	26.51	138.25	6,154.90	-2,242.48	1,970.51	2,985.24	1.50	-1.50	0.00	
7,000.00	25.01	138.25	6,244.96	-2,274.91	1,999.45	3,028.70	1.50	-1.50	0.00	
7,100.00	23.51	138.25	6,336.12	-2,305.57	2,026.81	3,069.79	1.50	-1.50	0.00	

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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 41-7-297	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	22.01	138.25	6,428.33	-2,334.43	2,052.57	3,108.48	1.50	-1.50	0.00
7,300.00	20.51	138.25	6,521.52	-2,361.49	2,076.72	3,144.74	1.50	-1.50	0.00
7,400.00	19.01	138.25	6,615.63	-2,386.72	2,099.23	3,178.55	1.50	-1.50	0.00
7,500.00	17.51	138.25	6,710.59	-2,410.10	2,120.09	3,209.89	1.50	-1.50	0.00
7,600.00	16.01	138.25	6,806.34	-2,431.61	2,139.30	3,238.73	1.50	-1.50	0.00
OCRK									
7,699.17	14.53	138.25	6,902.00	-2,451.10	2,156.68	3,264.84	1.50	-1.50	0.00
7,700.00	14.51	138.25	6,902.81	-2,451.26	2,156.82	3,265.05	1.50	-1.50	0.00
7,800.00	13.01	138.25	6,999.93	-2,469.00	2,172.66	3,288.84	1.50	-1.50	0.00
7,900.00	11.51	138.25	7,097.65	-2,484.85	2,186.80	3,310.08	1.50	-1.50	0.00
8,000.00	10.01	138.25	7,195.89	-2,498.78	2,199.24	3,328.75	1.50	-1.50	0.00
8,100.00	8.51	138.25	7,294.58	-2,510.79	2,209.95	3,344.84	1.50	-1.50	0.00
8,200.00	7.01	138.25	7,393.66	-2,520.87	2,218.95	3,358.35	1.50	-1.50	0.00
8,300.00	5.51	138.25	7,493.06	-2,529.01	2,226.21	3,369.26	1.50	-1.50	0.00
8,400.00	4.01	138.25	7,592.71	-2,535.20	2,231.74	3,377.56	1.50	-1.50	0.00
U_MVRD									
8,429.35	3.57	138.25	7,622.00	-2,536.65	2,233.03	3,379.50	1.50	-1.50	0.00
8,500.00	2.51	138.25	7,692.55	-2,539.45	2,235.53	3,383.25	1.50	-1.50	0.00
8,600.00	1.01	138.25	7,792.50	-2,541.74	2,237.58	3,386.33	1.50	-1.50	0.00
Start 4342.00 hold at 8667.51 MD									
8,667.51	0.00	0.00	7,860.00	-2,542.19	2,237.97	3,386.92	1.50	-1.50	0.00
8,700.00	0.00	0.00	7,892.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
8,800.00	0.00	0.00	7,992.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
8,900.00	0.00	0.00	8,092.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,000.00	0.00	0.00	8,192.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,100.00	0.00	0.00	8,292.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,200.00	0.00	0.00	8,392.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
TOP GAS									
9,229.51	0.00	0.00	8,422.00	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,300.00	0.00	0.00	8,492.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,400.00	0.00	0.00	8,592.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,500.00	0.00	0.00	8,692.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,600.00	0.00	0.00	8,792.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,700.00	0.00	0.00	8,892.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,800.00	0.00	0.00	8,992.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
9,900.00	0.00	0.00	9,092.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,000.00	0.00	0.00	9,192.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,100.00	0.00	0.00	9,292.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,200.00	0.00	0.00	9,392.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,300.00	0.00	0.00	9,492.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,400.00	0.00	0.00	9,592.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,500.00	0.00	0.00	9,692.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,600.00	0.00	0.00	9,792.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,700.00	0.00	0.00	9,892.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
CMEO									
10,799.51	0.00	0.00	9,992.00	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,800.00	0.00	0.00	9,992.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
10,900.00	0.00	0.00	10,092.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
11,000.00	0.00	0.00	10,192.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
11,100.00	0.00	0.00	10,292.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
11,200.00	0.00	0.00	10,392.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
11,300.00	0.00	0.00	10,492.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00
11,400.00	0.00	0.00	10,592.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RGU 41-7-297 - Slot RGU 41-7-297
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 41-7-297	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)	
11,500.00	0.00	0.00	10,692.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
RLNS										
11,529.51	0.00	0.00	10,722.00	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
11,600.00	0.00	0.00	10,792.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
CZZT										
11,679.51	0.00	0.00	10,872.00	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
11,700.00	0.00	0.00	10,892.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
11,800.00	0.00	0.00	10,992.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,092.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,192.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
CRCN										
12,004.51	0.00	0.00	11,197.00	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,292.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,392.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
SEGO										
12,264.51	0.00	0.00	11,457.00	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,300.00	0.00	0.00	11,492.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,400.00	0.00	0.00	11,592.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,500.00	0.00	0.00	11,692.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
SEGO_LOWER										
12,509.51	0.00	0.00	11,702.00	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,600.00	0.00	0.00	11,792.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,700.00	0.00	0.00	11,892.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,800.00	0.00	0.00	11,992.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
12,900.00	0.00	0.00	12,092.50	-2,542.19	2,237.97	3,386.92	0.00	0.00	0.00	
TD at 13009.51 - TD										
13,009.51	0.00	0.00	12,202.00	-2,542.19	2,237.97	3,386.92	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
RGU 41-7-297 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	8,422.00	-2,542.19	2,237.97	1,764,128.90	2,209,597.04	39.897700	-108.317386
RGU 41-7-297 - PBHL - plan hits target center - Point	0.00	0.00	12,202.00	-2,542.19	2,237.97	1,764,128.90	2,209,597.04	39.897700	-108.317386

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,276.80	1,240.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,219.07	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 41-7-297 - Slot RGU 41-7-297
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 41-7-297	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				
654.47	650.00	GRRV				
808.80	800.00	GRRV_A_GROOVE				
1,018.18	1,000.00	GRRV_B_GROOVE				
1,343.04	1,300.00	GRRV_DISSOLUTION_SURF				
2,371.28	2,200.00	GARDEN_GULCH				
2,554.58	2,360.00	GRRV_ORANGE				
2,646.24	2,440.00	U__WSCH				
5,636.44	5,050.00	G_SAND				
5,934.32	5,310.00	FRUN				
6,838.40	6,100.00	L__WSCH				
7,699.17	6,902.00	OCRK				
8,429.35	7,622.00	U__MVRD				
9,229.51	8,422.00	TOP GAS				
10,799.51	9,992.00	CMEO				
11,529.51	10,722.00	RLNS				
11,679.51	10,872.00	CZZT				
12,004.51	11,197.00	CRCN				
12,264.51	11,457.00	SEGO				
12,509.51	11,702.00	SEGO_LOWER				
13,009.51	12,202.00	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 3.00	
286.67	286.46	-6.83	2.49	Start DLS 2.00 TFO -25.71	
1,518.07	1,455.28	-285.73	224.32	Start 5202.20 hold at 1518.07 MD	
6,720.27	5,996.02	-2,179.82	1,914.59	Start Drop -1.50	
8,667.51	7,860.00	-2,542.19	2,237.97	Start 4342.00 hold at 8667.51 MD	
13,009.51	12,202.00	-2,542.19	2,237.97	TD at 13009.51	