

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 422-13-298 - Slot RG 422-13-298, True North
 Vertical (TVD) Reference: KB=30' @ 6648.00usft (H&P #329)
 Section (VS) Reference: Slot - RG 422-13-298(0.00N, 0.00E)
 Measured Depth Reference: KB=30' @ 6648.00usft (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 422-13-298 - VP	7898.00	-1290.45	508.82	1757415.12	2201713.50	39.878605	-108.344719	Circle (Radius: 100.00)
RG 422-13-298 - PBHL	11678.00	-1290.45	508.82	1757415.12	2201713.50	39.878605	-108.344719	Point

ANNOTATIONS

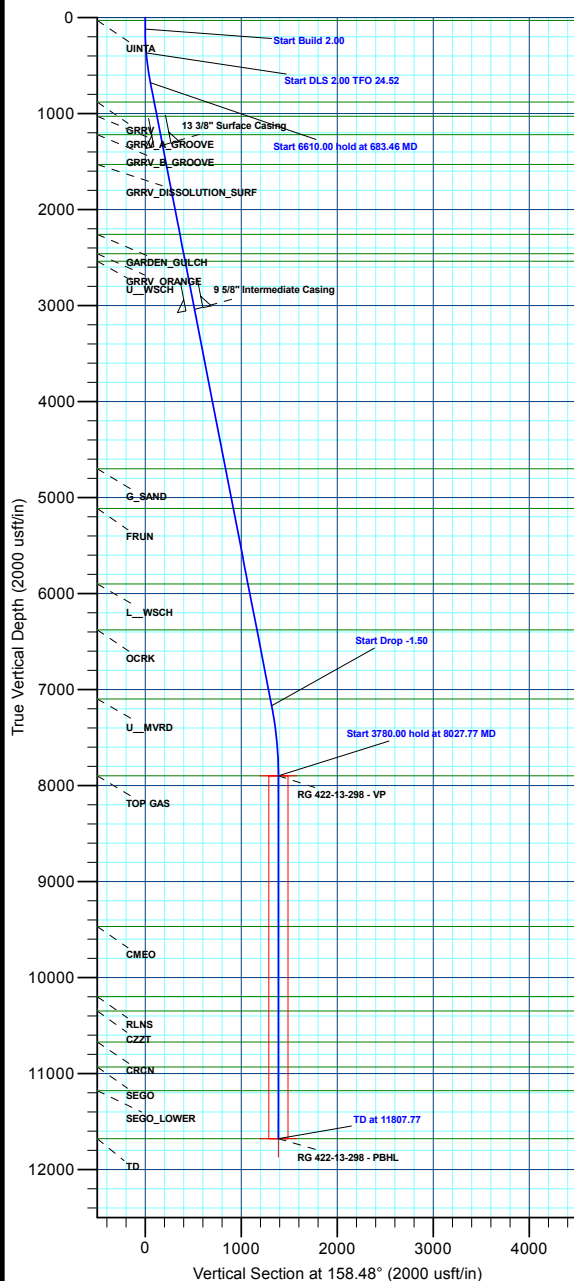
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSecDeparture	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	Start Build 2.00
370.00	5.00	145.00	369.68	-8.93	6.25	10.90	Start DLS 2.00 TFO 24.52
683.46	11.01	158.72	679.97	-48.06	24.97	53.87	Start 6610.00 hold at 683.46 MD
7293.46	11.01	158.72	7168.20	-1224.88	483.28	1316.78	Start Drop -1.50
8027.77	0.00	0.00	7898.00	-1290.45	508.82	1387.14	Start 3780.00 hold at 8027.77 MD
11807.77	0.00	0.00	11678.00	-1290.45	508.82	1387.14	TD at 11807.77

WELL DETAILS: RG 422-13-298

+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1758720.88	6618.00	39.882147	-108.346532	RG 422-13-298

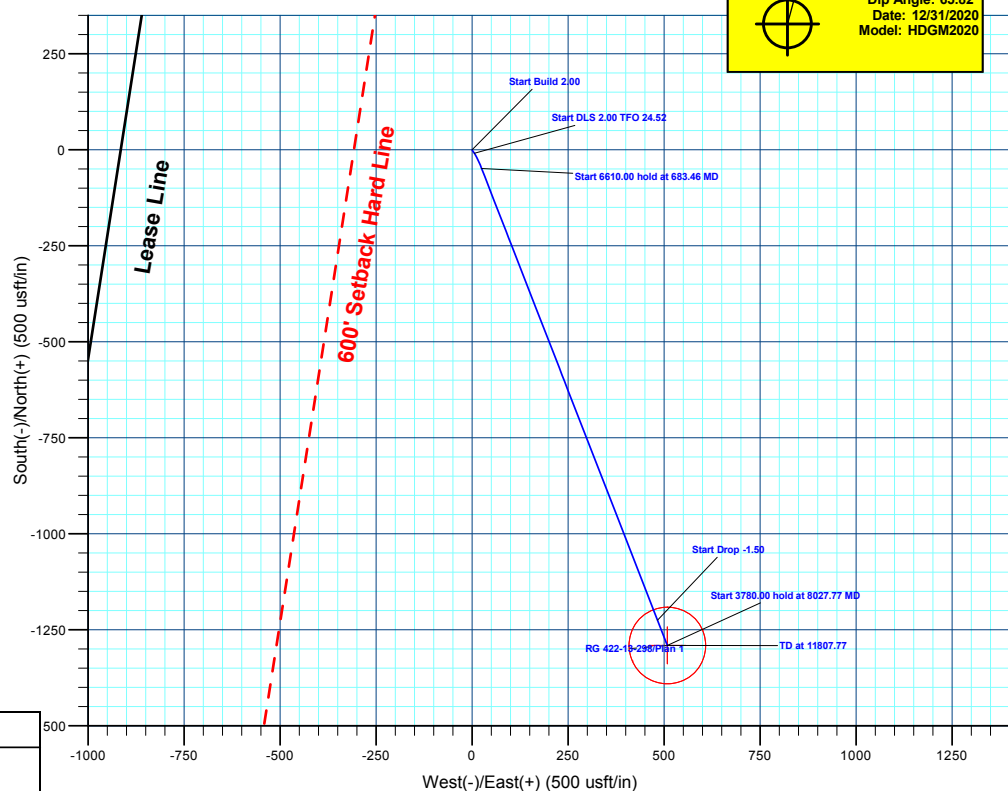
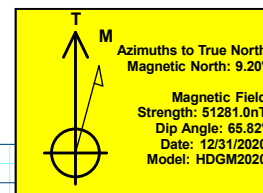
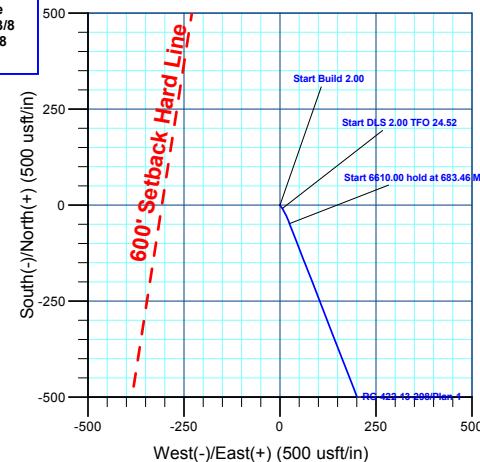
CASING DETAILS

TVD	MD	Name	Size
1330.00	1345.69	13 3/8" Surface Casing	13-3/8
3040.00	3087.78	9 5/8" Intermediate Casing	9-5/8



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
30.00	30.00	UINTA
880.00	887.25	GRRV
1030.00	1040.06	GRRV_A_GROOVE
1220.00	1233.63	GRRV_B_GROOVE
1530.00	1549.44	GRRV_DISSOLUTION_SURF
2260.00	2293.14	GARDEN_GULCH
2460.00	2496.90	GRRV_ORANGE
2540.00	2578.40	U_WSCH
4700.00	4778.94	G_SAND
5115.00	5201.73	FRUN
5900.00	6001.46	L_WSCH
6378.00	6488.43	OCRK
7098.00	7221.94	U_MVRD
7898.00	8027.77	TOP GAS
9468.00	9597.77	CMEQ
10198.00	10327.77	RLNS
10348.00	10477.77	CZZT
10673.00	10802.77	CRCN
10933.00	11062.77	SEGO
11178.00	11307.77	SEGO_LOWER
11678.00	11807.77	TD



Plan: Plan 1 (RG 422-13-298/Wellbore #1)

Created By: Chase Chambers Date: 8:51, May 04 2022



Terra Energy Partners, LLP

Rio Blanco County, CO

RG 11-13-298

RG 422-13-298 - Slot RG 422-13-298

Wellbore #1

Plan: Plan 1

KLX Well Planning Report

03 May, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 422-13-298 - Slot RG 422-13-298
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6648.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6648.00usft (H&P #329)
Site:	RG 11-13-298	North Reference:	True
Well:	RG 422-13-298	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	RG 11-13-298			
Site Position:		Northing:	1,758,713.60 usft	Latitude: 39.882127
From: Map		Easting:	2,201,243.58 usft	Longitude: -108.346538
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: -1.80 °

Well	RG 422-13-298 - Slot RG 422-13-298			
Well Position	+N/-S	7.33 usft	Northing:	1,758,720.88 usft
	+E/-W	1.55 usft	Easting:	2,201,245.36 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	Ground Level: 6,618.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	12/31/2020	9.20	65.82	51,281.00000000

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	158.48

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	
370.00	5.00	145.00	369.68	-8.93	6.25	2.00	2.00	0.00	145.00	
683.46	11.01	158.72	679.97	-48.06	24.97	2.00	1.92	4.38	24.52	
7,293.46	11.01	158.72	7,168.20	-1,224.88	483.28	0.00	0.00	0.00	0.00	
8,027.77	0.00	0.00	7,898.00	-1,290.45	508.82	1.50	-1.50	0.00	180.00	RG 422-13-298 - VP
11,807.78	0.00	0.00	11,678.00	-1,290.45	508.82	0.00	0.00	0.00	0.00	RG 422-13-298 - PBI

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Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6648.00usft (H&P #329)
Site:	RG 11-13-298	North Reference:	True
Well:	RG 422-13-298	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									
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.60	145.00	199.99	-0.91	0.64	1.09	2.00	2.00	0.00
300.00	3.60	145.00	299.88	-4.63	3.24	5.50	2.00	2.00	0.00
Start DLS 2.00 TFO 24.52									
370.00	5.00	145.00	369.68	-8.93	6.25	10.60	2.00	2.00	0.00
400.00	5.55	147.57	399.56	-11.23	7.78	13.30	2.00	1.84	8.58
500.00	7.44	153.36	498.91	-21.10	13.28	24.50	2.00	1.89	5.78
600.00	9.38	156.78	597.83	-34.38	19.40	39.10	2.00	1.94	3.43
Start 6610.00 hold at 683.46 MD									
683.46	11.01	158.72	679.97	-48.06	24.97	53.87	2.00	1.96	2.32
700.00	11.01	158.72	696.20	-51.01	26.12	57.03	0.00	0.00	0.00
800.00	11.01	158.72	794.36	-68.81	33.05	76.14	0.00	0.00	0.00
GRRV									
887.25	11.01	158.72	880.00	-84.34	39.10	92.81	0.00	0.00	0.00
900.00	11.01	158.72	892.52	-86.61	39.99	95.24	0.00	0.00	0.00
1,000.00	11.01	158.72	990.68	-104.42	46.92	114.35	0.00	0.00	0.00
GRRV_A_GROOVE									
1,040.06	11.01	158.72	1,030.00	-111.55	49.70	122.00	0.00	0.00	0.00
1,100.00	11.01	158.72	1,088.84	-122.22	53.85	133.46	0.00	0.00	0.00
1,200.00	11.01	158.72	1,186.99	-140.03	60.79	152.56	0.00	0.00	0.00
GRRV_B_GROOVE									
1,233.63	11.01	158.72	1,220.00	-146.01	63.12	158.99	0.00	0.00	0.00
1,300.00	11.01	158.72	1,285.15	-157.83	67.72	171.67	0.00	0.00	0.00
13 3/8" Surface Casing									
1,345.69	11.01	158.72	1,330.00	-165.96	70.89	180.40	0.00	0.00	0.00
1,400.00	11.01	158.72	1,383.31	-175.63	74.66	190.77	0.00	0.00	0.00
1,500.00	11.01	158.72	1,481.47	-193.44	81.59	209.88	0.00	0.00	0.00
GRRV DISSOLUTION SURF									
1,549.44	11.01	158.72	1,530.00	-202.24	85.02	219.33	0.00	0.00	0.00
1,600.00	11.01	158.72	1,579.62	-211.24	88.52	228.99	0.00	0.00	0.00
1,700.00	11.01	158.72	1,677.78	-229.04	95.46	248.09	0.00	0.00	0.00
1,800.00	11.01	158.72	1,775.94	-246.85	102.39	267.20	0.00	0.00	0.00
1,900.00	11.01	158.72	1,874.10	-264.65	109.32	286.30	0.00	0.00	0.00
2,000.00	11.01	158.72	1,972.26	-282.45	116.26	305.41	0.00	0.00	0.00
2,100.00	11.01	158.72	2,070.41	-300.26	123.19	324.52	0.00	0.00	0.00
2,200.00	11.01	158.72	2,168.57	-318.06	130.12	343.62	0.00	0.00	0.00
GARDEN_GULCH									
2,293.14	11.01	158.72	2,260.00	-334.64	136.58	361.42	0.00	0.00	0.00
2,300.00	11.01	158.72	2,266.73	-335.87	137.06	362.73	0.00	0.00	0.00
2,400.00	11.01	158.72	2,364.89	-353.67	143.99	381.83	0.00	0.00	0.00
GRRV_ORANGE									
2,496.90	11.01	158.72	2,460.00	-370.92	150.71	400.35	0.00	0.00	0.00
2,500.00	11.01	158.72	2,463.04	-371.47	150.92	400.94	0.00	0.00	0.00
U_WSCH									
2,578.40	11.01	158.72	2,540.00	-385.43	156.36	415.92	0.00	0.00	0.00
2,600.00	11.01	158.72	2,561.20	-389.28	157.86	420.05	0.00	0.00	0.00
2,700.00	11.01	158.72	2,659.36	-407.08	164.79	439.15	0.00	0.00	0.00

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Site:	RG 11-13-298	North Reference:	True
Well:	RG 422-13-298	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	11.01	158.72	2,757.52	-424.88	171.73	458.26	0.00	0.00	0.00
2,900.00	11.01	158.72	2,855.68	-442.69	178.66	477.36	0.00	0.00	0.00
3,000.00	11.01	158.72	2,953.83	-460.49	185.59	496.47	0.00	0.00	0.00
9 5/8" Intermediate Casing									
3,087.78	11.01	158.72	3,040.00	-476.12	191.68	513.24	0.00	0.00	0.00
3,100.00	11.01	158.72	3,051.99	-478.29	192.53	515.58	0.00	0.00	0.00
3,200.00	11.01	158.72	3,150.15	-496.10	199.46	534.68	0.00	0.00	0.00
3,300.00	11.01	158.72	3,248.31	-513.90	206.39	553.79	0.00	0.00	0.00
3,400.00	11.01	158.72	3,346.47	-531.71	213.33	572.89	0.00	0.00	0.00
3,500.00	11.01	158.72	3,444.62	-549.51	220.26	592.00	0.00	0.00	0.00
3,600.00	11.01	158.72	3,542.78	-567.31	227.19	611.11	0.00	0.00	0.00
3,700.00	11.01	158.72	3,640.94	-585.12	234.13	630.21	0.00	0.00	0.00
3,800.00	11.01	158.72	3,739.10	-602.92	241.06	649.32	0.00	0.00	0.00
3,900.00	11.01	158.72	3,837.25	-620.72	247.99	668.42	0.00	0.00	0.00
4,000.00	11.01	158.72	3,935.41	-638.53	254.93	687.53	0.00	0.00	0.00
4,100.00	11.01	158.72	4,033.57	-656.33	261.86	706.64	0.00	0.00	0.00
4,200.00	11.01	158.72	4,131.73	-674.13	268.79	725.74	0.00	0.00	0.00
4,300.00	11.01	158.72	4,229.89	-691.94	275.73	744.85	0.00	0.00	0.00
4,400.00	11.01	158.72	4,328.04	-709.74	282.66	763.95	0.00	0.00	0.00
4,500.00	11.01	158.72	4,426.20	-727.55	289.60	783.06	0.00	0.00	0.00
4,600.00	11.01	158.72	4,524.36	-745.35	296.53	802.17	0.00	0.00	0.00
4,700.00	11.01	158.72	4,622.52	-763.15	303.46	821.27	0.00	0.00	0.00
G_SAND									
4,778.94	11.01	158.72	4,700.00	-777.21	308.94	836.35	0.00	0.00	0.00
4,800.00	11.01	158.72	4,720.67	-780.96	310.40	840.38	0.00	0.00	0.00
4,900.00	11.01	158.72	4,818.83	-798.76	317.33	859.48	0.00	0.00	0.00
5,000.00	11.01	158.72	4,916.99	-816.56	324.26	878.59	0.00	0.00	0.00
5,100.00	11.01	158.72	5,015.15	-834.37	331.20	897.70	0.00	0.00	0.00
5,200.00	11.01	158.72	5,113.31	-852.17	338.13	916.80	0.00	0.00	0.00
FRUN									
5,201.73	11.01	158.72	5,115.00	-852.48	338.25	917.13	0.00	0.00	0.00
5,300.00	11.01	158.72	5,211.46	-869.97	345.06	935.91	0.00	0.00	0.00
5,400.00	11.01	158.72	5,309.62	-887.78	352.00	955.01	0.00	0.00	0.00
5,500.00	11.01	158.72	5,407.78	-905.58	358.93	974.12	0.00	0.00	0.00
5,600.00	11.01	158.72	5,505.94	-923.39	365.86	993.22	0.00	0.00	0.00
5,700.00	11.01	158.72	5,604.09	-941.19	372.80	1,012.33	0.00	0.00	0.00
5,800.00	11.01	158.72	5,702.25	-958.99	379.73	1,031.44	0.00	0.00	0.00
5,900.00	11.01	158.72	5,800.41	-976.80	386.67	1,050.54	0.00	0.00	0.00
6,000.00	11.01	158.72	5,898.57	-994.60	393.60	1,069.65	0.00	0.00	0.00
L_WSCH									
6,001.46	11.01	158.72	5,900.00	-994.86	393.70	1,069.93	0.00	0.00	0.00
6,100.00	11.01	158.72	5,996.73	-1,012.40	400.53	1,088.75	0.00	0.00	0.00
6,200.00	11.01	158.72	6,094.88	-1,030.21	407.47	1,107.86	0.00	0.00	0.00
6,300.00	11.01	158.72	6,193.04	-1,048.01	414.40	1,126.97	0.00	0.00	0.00
6,400.00	11.01	158.72	6,291.20	-1,065.82	421.33	1,146.07	0.00	0.00	0.00
OCRK									
6,488.43	11.01	158.72	6,378.00	-1,081.56	427.46	1,162.97	0.00	0.00	0.00
6,500.00	11.01	158.72	6,389.36	-1,083.62	428.27	1,165.18	0.00	0.00	0.00
6,600.00	11.01	158.72	6,487.52	-1,101.42	435.20	1,184.28	0.00	0.00	0.00
6,700.00	11.01	158.72	6,585.67	-1,119.23	442.13	1,203.39	0.00	0.00	0.00
6,800.00	11.01	158.72	6,683.83	-1,137.03	449.07	1,222.50	0.00	0.00	0.00
6,900.00	11.01	158.72	6,781.99	-1,154.83	456.00	1,241.60	0.00	0.00	0.00
7,000.00	11.01	158.72	6,880.15	-1,172.64	462.93	1,260.71	0.00	0.00	0.00
7,100.00	11.01	158.72	6,978.30	-1,190.44	469.87	1,279.81	0.00	0.00	0.00

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Site:	RG 11-13-298	North Reference:	True
Well:	RG 422-13-298	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	11.01	158.72	7,076.46	-1,208.24	476.80	1,298.92	0.00	0.00	0.00
U_MVRD									
7,221.94	11.01	158.72	7,098.00	-1,212.15	478.32	1,303.11	0.00	0.00	0.00
Start Drop -1.50									
7,293.46	11.01	158.72	7,168.20	-1,224.88	483.28	1,316.78	0.00	0.00	0.00
7,300.00	10.92	158.72	7,174.62	-1,226.04	483.73	1,318.02	1.50	-1.50	0.00
7,400.00	9.42	158.72	7,273.05	-1,242.49	490.14	1,335.67	1.50	-1.50	0.00
7,500.00	7.92	158.72	7,371.90	-1,256.53	495.61	1,350.74	1.50	-1.50	0.00
7,600.00	6.42	158.72	7,471.12	-1,268.16	500.13	1,363.21	1.50	-1.50	0.00
7,700.00	4.92	158.72	7,570.63	-1,277.36	503.72	1,373.09	1.50	-1.50	0.00
7,800.00	3.42	158.72	7,670.36	-1,284.13	506.35	1,380.35	1.50	-1.50	0.00
7,900.00	1.92	158.72	7,770.25	-1,288.46	508.04	1,385.01	1.50	-1.50	0.00
8,000.00	0.42	158.72	7,870.23	-1,290.36	508.78	1,387.04	1.50	-1.50	0.00
Start 3780.00 hold at 8027.77 MD - TOP GAS									
8,027.77	0.00	0.00	7,898.00	-1,290.45	508.82	1,387.14	1.50	-1.50	0.00
8,100.00	0.00	0.00	7,970.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
8,200.00	0.00	0.00	8,070.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
8,300.00	0.00	0.00	8,170.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
8,400.00	0.00	0.00	8,270.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
8,500.00	0.00	0.00	8,370.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
8,600.00	0.00	0.00	8,470.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
8,700.00	0.00	0.00	8,570.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
8,800.00	0.00	0.00	8,670.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
8,900.00	0.00	0.00	8,770.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,000.00	0.00	0.00	8,870.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,100.00	0.00	0.00	8,970.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,200.00	0.00	0.00	9,070.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,300.00	0.00	0.00	9,170.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,400.00	0.00	0.00	9,270.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,500.00	0.00	0.00	9,370.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
CME0									
9,597.77	0.00	0.00	9,468.00	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,600.00	0.00	0.00	9,470.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,700.00	0.00	0.00	9,570.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,800.00	0.00	0.00	9,670.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
9,900.00	0.00	0.00	9,770.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,000.00	0.00	0.00	9,870.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,100.00	0.00	0.00	9,970.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,200.00	0.00	0.00	10,070.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,300.00	0.00	0.00	10,170.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
RLNS									
10,327.77	0.00	0.00	10,198.00	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,400.00	0.00	0.00	10,270.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
CZZT									
10,477.77	0.00	0.00	10,348.00	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,500.00	0.00	0.00	10,370.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,600.00	0.00	0.00	10,470.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,700.00	0.00	0.00	10,570.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,800.00	0.00	0.00	10,670.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
CRCN									
10,802.77	0.00	0.00	10,673.00	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
10,900.00	0.00	0.00	10,770.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
11,000.00	0.00	0.00	10,870.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 422-13-298 - Slot RG 422-13-298
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6648.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6648.00usft (H&P #329)
Site:	RG 11-13-298	North Reference:	True
Well:	RG 422-13-298	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)
SEGO									
11,062.78	0.00	0.00	10,933.00	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
11,100.00	0.00	0.00	10,970.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
11,200.00	0.00	0.00	11,070.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
11,300.00	0.00	0.00	11,170.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
SEGO_LOWER									
11,307.78	0.00	0.00	11,178.00	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
11,400.00	0.00	0.00	11,270.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
11,500.00	0.00	0.00	11,370.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
11,600.00	0.00	0.00	11,470.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
11,700.00	0.00	0.00	11,570.23	-1,290.45	508.82	1,387.14	0.00	0.00	0.00
TD at 11807.77 - TD									
11,807.78	0.00	0.00	11,678.00	-1,290.45	508.82	1,387.14	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 422-13-298 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	7,898.00	-1,290.45	508.82	1,757,415.12	2,201,713.50	39.878605	-108.344719
RG 422-13-298 - PBHL - plan hits target center - Point	0.00	0.00	11,678.00	-1,290.45	508.82	1,757,415.12	2,201,713.50	39.878605	-108.344719

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,345.69	1,330.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,087.78	3,040.00	9 5/8" Intermediate Casing	9-5/8	12-1/4	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 422-13-298 - Slot RG 422-13-298
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6648.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6648.00usft (H&P #329)
Site:	RG 11-13-298	North Reference:	True
Well:	RG 422-13-298	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				
887.25	880.00	GRRV				
1,040.06	1,030.00	GRRV_A_GROOVE				
1,233.63	1,220.00	GRRV_B_GROOVE				
1,549.44	1,530.00	GRRV DISSOLUTION_SURF				
2,293.14	2,260.00	GARDEN_GULCH				
2,496.90	2,460.00	GRRV_ORANGE				
2,578.40	2,540.00	U__WSCH				
4,778.94	4,700.00	G_SAND				
5,201.73	5,115.00	FRUN				
6,001.46	5,900.00	L__WSCH				
6,488.43	6,378.00	OCRK				
7,221.94	7,098.00	U__MVRD				
8,027.77	7,898.00	TOP GAS				
9,597.77	9,468.00	CME0				
10,327.77	10,198.00	RLNS				
10,477.77	10,348.00	CZZT				
10,802.77	10,673.00	CRCN				
11,062.78	10,933.00	SEGO				
11,307.78	11,178.00	SEGO_LOWER				
11,807.78	11,678.00	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	
370.00	369.68	-8.93	6.25	Start DLS 2.00 TFO 24.52	
683.46	679.97	-48.06	24.97	Start 6610.00 hold at 683.46 MD	
7,293.46	7,168.20	-1,224.88	483.28	Start Drop -1.50	
8,027.77	7,898.00	-1,290.45	508.82	Start 3780.00 hold at 8027.77 MD	
11,807.78	11,678.00	-1,290.45	508.82	TD at 11807.77	