

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
RG 523-12-298 - VP	8178.00	2763.82	930.75	1761514.82	2202266.79	39.889901	-108.343206	Circle (Radius: 100.00)
RG 523-12-298 - PBHL	11958.00	2763.82	930.75	1761514.82	2202266.79	39.889901	-108.343206	Point

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well RG 523-12-298 - Slot RG 523-12-298, True North
 Vertical (TVD) Reference: KB=30' @ 6648.00usft (H&P #329)
 Section (VS) Reference: Slot - RG 523-12-298(0.00N, 0.00E)
 Measured Depth Reference: KB=30' @ 6648.00usft (H&P #329)
 Calculation Method: Minimum Curvature

ANNOTATIONS

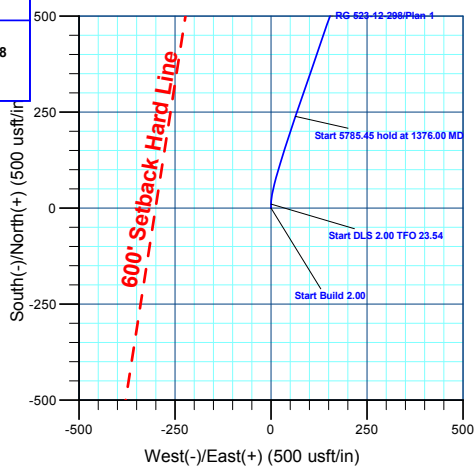
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
165.00	0.00	0.00	165.00	0.00	0.00	0.00	0.00	Start Build 2.00
415.00	5.00	0.00	414.68	10.90	0.00	10.33	10.90	Start DLS 2.00 TFO 23.54
1376.00	23.88	18.95	1341.42	238.93	63.78	246.79	248.19	Start 5785.45 hold at 1376.00 MD
7161.45	23.88	18.95	6631.43	2454.44	824.52	2589.23	2590.68	Start Drop -1.50
8753.74	0.00	0.00	8178.00	2763.82	930.75	2916.33	2917.78	Start 3780.00 hold at 8753.74 MD
12533.74	0.00	0.00	11958.00	2763.82	930.75	2916.33	2917.78	TD at 12533.74

WELL DETAILS: RG 523-12-298

+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1758781.52	6618.00	39.882314	-108.346523	RG 523-12-298

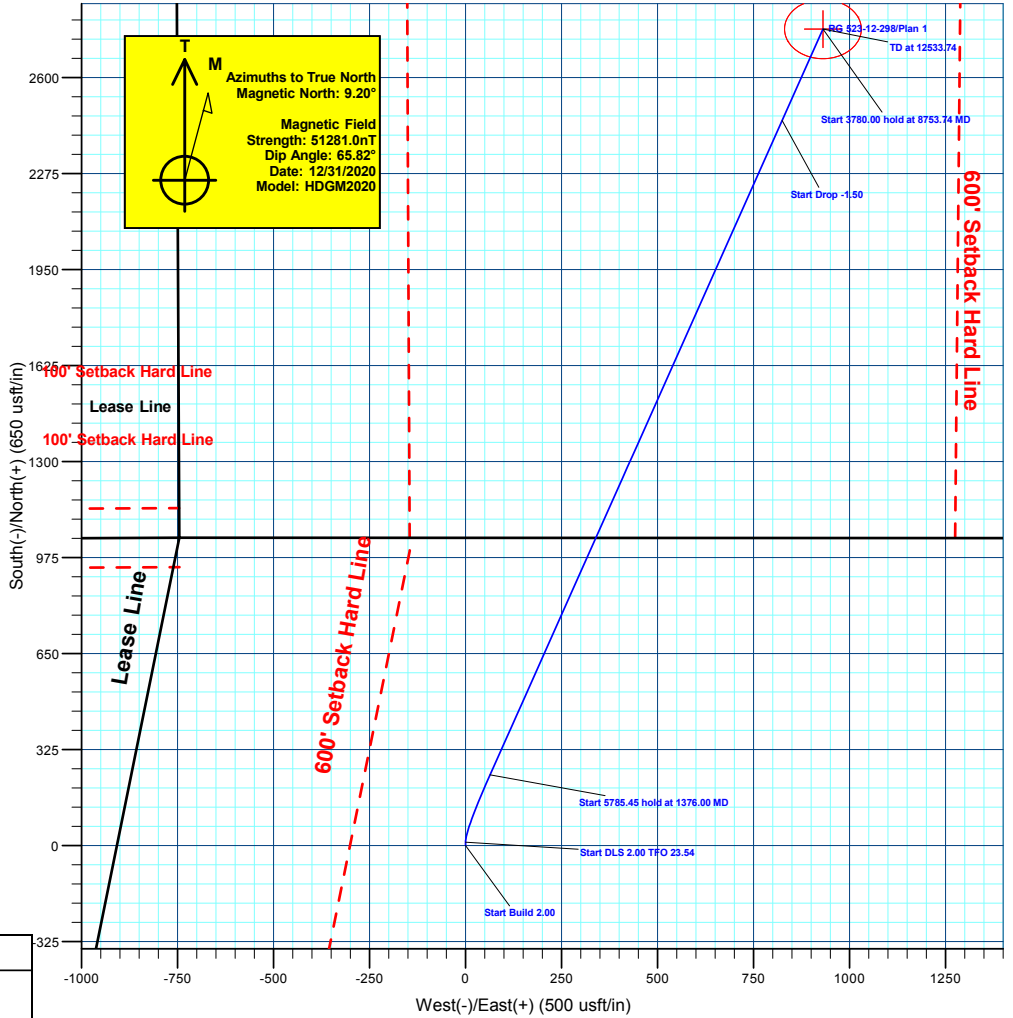
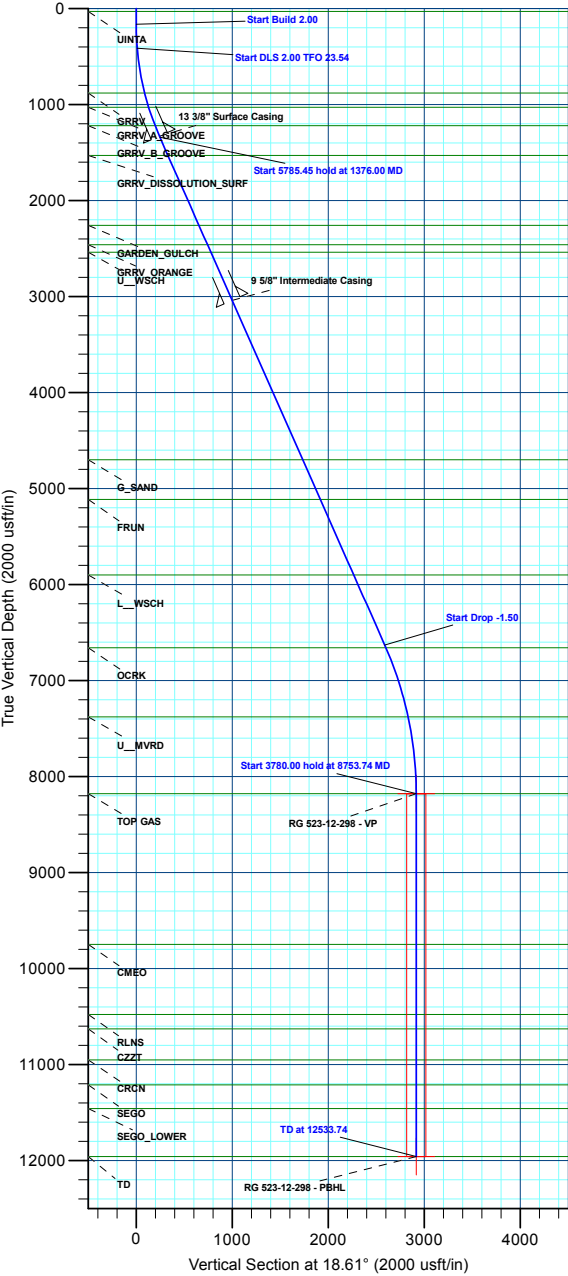
CASING DETAILS

TVD	MD	Name	Size
1330.00	1363.53	13 3/8" Surface Casing	13-3/8
3040.00	3233.67	9 5/8" Intermediate Casing	9-5/8



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UINTA
880.00	887.35	GRRV
1030.00	1043.19	GRRV_A_GROOVE
1220.00	1244.50	GRRV_B_GROOVE
1530.00	1582.25	GRRV DISSOLUTION_SURF
2260.00	2380.62	GARDEN_GULCH
2460.00	2599.35	GRRV_ORANGE
2540.00	2686.84	U_WSCH
4700.00	5049.14	G_SAND
5115.00	5503.00	FRUN
5900.00	6361.52	L_WSCH
6658.00	7190.47	OCRK
7378.00	7947.78	U_MVRD
8178.00	8753.74	TOP GAS
9748.00	10323.74	CMEQ
10478.00	11053.74	RLNS
10628.00	11203.74	CZZT
10953.00	11528.74	CRGN
11213.00	11788.74	SEGO
11458.00	12033.74	SEGO_LOWER
11958.00	12533.74	TD





Terra Energy Partners, LLP

Rio Blanco County, CO

RG 11-13-298

RG 523-12-298 - Slot RG 523-12-298

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 523-12-298 - Slot RG 523-12-298
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 523-12-298	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 523-12-298 - Slot RG 523-12-298					
Well Position	+N/-S	68.08 usft	Northing:	1,758,781.52 usft	Latitude:	39.882314
	+E/-W	4.20 usft	Easting:	2,201,249.91 usft	Longitude:	-108.346523
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	18.61

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	
165.00	0.00	0.00	165.00	0.00	0.00	0.00	0.00	0.00	0.00	
415.00	5.00	0.00	414.68	10.90	0.00	2.00	2.00	0.00	0.00	
1,376.00	23.88	18.95	1,341.42	238.93	63.78	2.00	1.97	1.97	23.54	
7,161.45	23.88	18.95	6,631.43	2,454.44	824.52	0.00	0.00	0.00	0.00	
8,753.74	0.00	0.00	8,178.00	2,763.82	930.75	1.50	-1.50	0.00	180.00	RG 523-12-298 - VP
12,533.74	0.00	0.00	11,958.00	2,763.82	930.75	0.00	0.00	0.00	0.00	RG 523-12-298 - 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 523-12-298	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	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										
165.00	0.00	0.00	165.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.70	0.00	200.00	0.21	0.00	0.20	2.00	2.00	0.00	0.00
300.00	2.70	0.00	299.95	3.18	0.00	3.01	2.00	2.00	0.00	0.00
400.00	4.70	0.00	399.74	9.63	0.00	9.13	2.00	2.00	0.00	0.00
Start DLS 2.00 TFO 23.54										
415.00	5.00	0.00	414.68	10.90	0.00	10.33	2.00	2.00	0.00	0.00
500.00	6.59	5.92	499.25	19.46	0.50	18.60	2.00	1.87	6.97	6.97
600.00	8.52	10.02	598.37	32.47	2.39	31.53	2.00	1.93	4.10	4.10
700.00	10.48	12.60	697.00	48.64	5.66	47.90	2.00	1.95	2.58	2.58
800.00	12.44	14.38	795.00	67.95	10.32	67.69	2.00	1.97	1.78	1.78
GRRV										
887.35	14.17	15.53	880.00	87.37	15.52	87.75	2.00	1.98	1.32	1.32
900.00	14.42	15.68	892.26	90.37	16.36	90.87	2.00	1.98	1.14	1.14
1,000.00	16.40	16.67	988.66	115.89	23.78	117.42	2.00	1.98	0.99	0.99
GRRV_A_GROOVE										
1,043.19	17.26	17.03	1,030.00	127.86	27.40	129.92	2.00	1.99	0.83	0.83
1,100.00	18.39	17.45	1,084.08	144.47	32.56	147.31	2.00	1.99	0.74	0.74
1,200.00	20.38	18.08	1,178.41	176.08	42.69	180.49	2.00	1.99	0.63	0.63
GRRV_B_GROOVE										
1,244.50	21.27	18.33	1,220.00	191.10	47.63	196.31	2.00	1.99	0.55	0.55
1,300.00	22.37	18.61	1,271.52	210.67	54.17	216.94	2.00	1.99	0.50	0.50
13 3/8" Surface Casing										
1,363.53	23.64	18.90	1,330.00	234.17	62.15	241.76	2.00	1.99	0.46	0.46
Start 5785.45 hold at 1376.00 MD										
1,376.00	23.88	18.95	1,341.42	238.93	63.78	246.79	2.00	1.99	0.43	0.43
1,400.00	23.88	18.95	1,363.36	248.12	66.94	256.50	0.00	0.00	0.00	0.00
1,500.00	23.88	18.95	1,454.79	286.41	80.09	296.99	0.00	0.00	0.00	0.00
GRRV DISSOLUTION_SURF										
1,582.25	23.88	18.95	1,530.00	317.91	90.90	330.29	0.00	0.00	0.00	0.00
1,600.00	23.88	18.95	1,546.23	324.71	93.24	337.48	0.00	0.00	0.00	0.00
1,700.00	23.88	18.95	1,637.67	363.00	106.38	377.97	0.00	0.00	0.00	0.00
1,800.00	23.88	18.95	1,729.10	401.30	119.53	418.46	0.00	0.00	0.00	0.00
1,900.00	23.88	18.95	1,820.54	439.59	132.68	458.95	0.00	0.00	0.00	0.00
2,000.00	23.88	18.95	1,911.98	477.88	145.83	499.44	0.00	0.00	0.00	0.00
2,100.00	23.88	18.95	2,003.41	516.18	158.98	539.92	0.00	0.00	0.00	0.00
2,200.00	23.88	18.95	2,094.85	554.47	172.13	580.41	0.00	0.00	0.00	0.00
2,300.00	23.88	18.95	2,186.29	592.77	185.28	620.90	0.00	0.00	0.00	0.00
GARDEN_GULCH										
2,380.62	23.88	18.95	2,260.00	623.64	195.88	653.54	0.00	0.00	0.00	0.00
2,400.00	23.88	18.95	2,277.72	631.06	198.43	661.39	0.00	0.00	0.00	0.00
2,500.00	23.88	18.95	2,369.16	669.36	211.58	701.88	0.00	0.00	0.00	0.00
GRRV_ORANGE										
2,599.35	23.88	18.95	2,460.00	707.40	224.64	742.10	0.00	0.00	0.00	0.00
2,600.00	23.88	18.95	2,460.60	707.65	224.73	742.37	0.00	0.00	0.00	0.00
U_WSCH										
2,686.84	23.88	18.95	2,540.00	740.91	236.15	777.53	0.00	0.00	0.00	0.00
2,700.00	23.88	18.95	2,552.03	745.95	237.88	782.86	0.00	0.00	0.00	0.00

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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 523-12-298	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	23.88	18.95	2,643.47	784.24	251.03	823.34	0.00	0.00	0.00
2,900.00	23.88	18.95	2,734.90	822.54	264.17	863.83	0.00	0.00	0.00
3,000.00	23.88	18.95	2,826.34	860.83	277.32	904.32	0.00	0.00	0.00
3,100.00	23.88	18.95	2,917.78	899.13	290.47	944.81	0.00	0.00	0.00
3,200.00	23.88	18.95	3,009.21	937.42	303.62	985.30	0.00	0.00	0.00
9 5/8" Intermediate Casing									
3,233.67	23.88	18.95	3,040.00	950.31	308.05	998.93	0.00	0.00	0.00
3,300.00	23.88	18.95	3,100.65	975.71	316.77	1,025.79	0.00	0.00	0.00
3,400.00	23.88	18.95	3,192.09	1,014.01	329.92	1,066.27	0.00	0.00	0.00
3,500.00	23.88	18.95	3,283.52	1,052.30	343.07	1,106.76	0.00	0.00	0.00
3,600.00	23.88	18.95	3,374.96	1,090.60	356.22	1,147.25	0.00	0.00	0.00
3,700.00	23.88	18.95	3,466.40	1,128.89	369.37	1,187.74	0.00	0.00	0.00
3,800.00	23.88	18.95	3,557.83	1,167.19	382.52	1,228.23	0.00	0.00	0.00
3,900.00	23.88	18.95	3,649.27	1,205.48	395.67	1,268.72	0.00	0.00	0.00
4,000.00	23.88	18.95	3,740.71	1,243.78	408.82	1,309.21	0.00	0.00	0.00
4,100.00	23.88	18.95	3,832.14	1,282.07	421.97	1,349.69	0.00	0.00	0.00
4,200.00	23.88	18.95	3,923.58	1,320.37	435.11	1,390.18	0.00	0.00	0.00
4,300.00	23.88	18.95	4,015.02	1,358.66	448.26	1,430.67	0.00	0.00	0.00
4,400.00	23.88	18.95	4,106.45	1,396.95	461.41	1,471.16	0.00	0.00	0.00
4,500.00	23.88	18.95	4,197.89	1,435.25	474.56	1,511.65	0.00	0.00	0.00
4,600.00	23.88	18.95	4,289.32	1,473.54	487.71	1,552.14	0.00	0.00	0.00
4,700.00	23.88	18.95	4,380.76	1,511.84	500.86	1,592.63	0.00	0.00	0.00
4,800.00	23.88	18.95	4,472.20	1,550.13	514.01	1,633.11	0.00	0.00	0.00
4,900.00	23.88	18.95	4,563.63	1,588.43	527.16	1,673.60	0.00	0.00	0.00
5,000.00	23.88	18.95	4,655.07	1,626.72	540.31	1,714.09	0.00	0.00	0.00
G_SAND									
5,049.14	23.88	18.95	4,700.00	1,645.54	546.77	1,733.99	0.00	0.00	0.00
5,100.00	23.88	18.95	4,746.51	1,665.02	553.46	1,754.58	0.00	0.00	0.00
5,200.00	23.88	18.95	4,837.94	1,703.31	566.61	1,795.07	0.00	0.00	0.00
5,300.00	23.88	18.95	4,929.38	1,741.61	579.76	1,835.56	0.00	0.00	0.00
5,400.00	23.88	18.95	5,020.82	1,779.90	592.90	1,876.04	0.00	0.00	0.00
5,500.00	23.88	18.95	5,112.25	1,818.20	606.05	1,916.53	0.00	0.00	0.00
FRUN									
5,503.00	23.88	18.95	5,115.00	1,819.35	606.45	1,917.75	0.00	0.00	0.00
5,600.00	23.88	18.95	5,203.69	1,856.49	619.20	1,957.02	0.00	0.00	0.00
5,700.00	23.88	18.95	5,295.13	1,894.78	632.35	1,997.51	0.00	0.00	0.00
5,800.00	23.88	18.95	5,386.56	1,933.08	645.50	2,038.00	0.00	0.00	0.00
5,900.00	23.88	18.95	5,478.00	1,971.37	658.65	2,078.49	0.00	0.00	0.00
6,000.00	23.88	18.95	5,569.43	2,009.67	671.80	2,118.98	0.00	0.00	0.00
6,100.00	23.88	18.95	5,660.87	2,047.96	684.95	2,159.46	0.00	0.00	0.00
6,200.00	23.88	18.95	5,752.31	2,086.26	698.10	2,199.95	0.00	0.00	0.00
6,300.00	23.88	18.95	5,843.74	2,124.55	711.25	2,240.44	0.00	0.00	0.00
L_WSCH									
6,361.52	23.88	18.95	5,900.00	2,148.11	719.34	2,265.35	0.00	0.00	0.00
6,400.00	23.88	18.95	5,935.18	2,162.85	724.40	2,280.93	0.00	0.00	0.00
6,500.00	23.88	18.95	6,026.62	2,201.14	737.55	2,321.42	0.00	0.00	0.00
6,600.00	23.88	18.95	6,118.05	2,239.44	750.70	2,361.91	0.00	0.00	0.00
6,700.00	23.88	18.95	6,209.49	2,277.73	763.84	2,402.40	0.00	0.00	0.00
6,800.00	23.88	18.95	6,300.93	2,316.02	776.99	2,442.88	0.00	0.00	0.00
6,900.00	23.88	18.95	6,392.36	2,354.32	790.14	2,483.37	0.00	0.00	0.00
7,000.00	23.88	18.95	6,483.80	2,392.61	803.29	2,523.86	0.00	0.00	0.00
7,100.00	23.88	18.95	6,575.24	2,430.91	816.44	2,564.35	0.00	0.00	0.00
Start Drop -1.50									
7,161.45	23.88	18.95	6,631.43	2,454.44	824.52	2,589.23	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 523-12-298 - Slot RG 523-12-298
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
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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)
OCRK									
7,190.47	23.45	18.95	6,658.00	2,465.46	828.30	2,600.88	1.50	-1.50	0.00
7,200.00	23.31	18.95	6,666.75	2,469.03	829.53	2,604.66	1.50	-1.50	0.00
7,300.00	21.81	18.95	6,759.10	2,505.31	841.99	2,643.02	1.50	-1.50	0.00
7,400.00	20.31	18.95	6,852.42	2,539.29	853.66	2,678.94	1.50	-1.50	0.00
7,500.00	18.81	18.95	6,946.65	2,570.95	864.53	2,712.42	1.50	-1.50	0.00
7,600.00	17.31	18.95	7,041.72	2,600.27	874.59	2,743.41	1.50	-1.50	0.00
7,700.00	15.81	18.95	7,137.57	2,627.22	883.85	2,771.90	1.50	-1.50	0.00
7,800.00	14.31	18.95	7,234.14	2,651.78	892.28	2,797.88	1.50	-1.50	0.00
7,900.00	12.81	18.95	7,331.35	2,673.95	899.89	2,821.32	1.50	-1.50	0.00
U_MVRD									
7,947.78	12.09	18.95	7,378.00	2,683.69	903.24	2,831.62	1.50	-1.50	0.00
8,000.00	11.31	18.95	7,429.14	2,693.71	906.68	2,842.20	1.50	-1.50	0.00
8,100.00	9.81	18.95	7,527.44	2,711.03	912.63	2,860.52	1.50	-1.50	0.00
8,200.00	8.31	18.95	7,626.19	2,725.92	917.74	2,876.26	1.50	-1.50	0.00
8,300.00	6.81	18.95	7,725.32	2,738.36	922.01	2,889.41	1.50	-1.50	0.00
8,400.00	5.31	18.95	7,824.76	2,748.33	925.44	2,899.96	1.50	-1.50	0.00
8,500.00	3.81	18.95	7,924.44	2,755.85	928.02	2,907.90	1.50	-1.50	0.00
8,600.00	2.31	18.95	8,024.30	2,760.89	929.75	2,913.24	1.50	-1.50	0.00
8,700.00	0.81	18.95	8,124.26	2,763.46	930.63	2,915.95	1.50	-1.50	0.00
Start 3780.00 hold at 8753.74 MD - TOP GAS									
8,753.74	0.00	0.00	8,178.00	2,763.82	930.75	2,916.33	1.50	-1.50	0.00
8,800.00	0.00	0.00	8,224.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
8,900.00	0.00	0.00	8,324.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,000.00	0.00	0.00	8,424.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,100.00	0.00	0.00	8,524.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,200.00	0.00	0.00	8,624.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,300.00	0.00	0.00	8,724.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,400.00	0.00	0.00	8,824.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,500.00	0.00	0.00	8,924.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,600.00	0.00	0.00	9,024.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,700.00	0.00	0.00	9,124.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,800.00	0.00	0.00	9,224.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
9,900.00	0.00	0.00	9,324.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,000.00	0.00	0.00	9,424.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,100.00	0.00	0.00	9,524.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,200.00	0.00	0.00	9,624.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,300.00	0.00	0.00	9,724.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
CMEO									
10,323.74	0.00	0.00	9,748.00	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,400.00	0.00	0.00	9,824.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,500.00	0.00	0.00	9,924.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,600.00	0.00	0.00	10,024.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,700.00	0.00	0.00	10,124.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,800.00	0.00	0.00	10,224.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
10,900.00	0.00	0.00	10,324.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
11,000.00	0.00	0.00	10,424.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
RLNS									
11,053.74	0.00	0.00	10,478.00	2,763.82	930.75	2,916.33	0.00	0.00	0.00
11,100.00	0.00	0.00	10,524.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
11,200.00	0.00	0.00	10,624.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
CZZT									
11,203.74	0.00	0.00	10,628.00	2,763.82	930.75	2,916.33	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 523-12-298 - Slot RG 523-12-298
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 523-12-298	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)
11,300.00	0.00	0.00	10,724.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
11,400.00	0.00	0.00	10,824.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
11,500.00	0.00	0.00	10,924.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
CRCN									
11,528.74	0.00	0.00	10,953.00	2,763.82	930.75	2,916.33	0.00	0.00	0.00
11,600.00	0.00	0.00	11,024.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
11,700.00	0.00	0.00	11,124.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
SEGO									
11,788.74	0.00	0.00	11,213.00	2,763.82	930.75	2,916.33	0.00	0.00	0.00
11,800.00	0.00	0.00	11,224.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
11,900.00	0.00	0.00	11,324.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
12,000.00	0.00	0.00	11,424.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
SEGO_LOWER									
12,033.74	0.00	0.00	11,458.00	2,763.82	930.75	2,916.33	0.00	0.00	0.00
12,100.00	0.00	0.00	11,524.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
12,200.00	0.00	0.00	11,624.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
12,300.00	0.00	0.00	11,724.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
12,400.00	0.00	0.00	11,824.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
12,500.00	0.00	0.00	11,924.26	2,763.82	930.75	2,916.33	0.00	0.00	0.00
TD at 12533.74 - TD									
12,533.74	0.00	0.00	11,958.00	2,763.82	930.75	2,916.33	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 523-12-298 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	8,178.00	2,763.82	930.75	1,761,514.82	2,202,266.79	39.889901	-108.343206
RG 523-12-298 - PBHL - plan hits target center - Point	0.00	0.00	11,958.00	2,763.82	930.75	1,761,514.82	2,202,266.79	39.889901	-108.343206

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,363.53	1,330.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,233.67	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 523-12-298 - Slot RG 523-12-298
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 523-12-298	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				
887.35	880.00	GRRV				
1,043.19	1,030.00	GRRV_A_GROOVE				
1,244.50	1,220.00	GRRV_B_GROOVE				
1,582.25	1,530.00	GRRV DISSOLUTION_SURF				
2,380.62	2,260.00	GARDEN_GULCH				
2,599.35	2,460.00	GRRV_ORANGE				
2,686.84	2,540.00	U_WSCH				
5,049.14	4,700.00	G_SAND				
5,503.00	5,115.00	FRUN				
6,361.52	5,900.00	L_WSCH				
7,190.47	6,658.00	OCRK				
7,947.78	7,378.00	U_MVRD				
8,753.74	8,178.00	TOP GAS				
10,323.74	9,748.00	CMEO				
11,053.74	10,478.00	RLNS				
11,203.74	10,628.00	CZZT				
11,528.74	10,953.00	CRCN				
11,788.74	11,213.00	SEGO				
12,033.74	11,458.00	SEGO_LOWER				
12,533.74	11,958.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
165.00	165.00	0.00	0.00	Start Build 2.00	
415.00	414.68	10.90	0.00	Start DLS 2.00 TFO 23.54	
1,376.00	1,341.42	238.93	63.78	Start 5785.45 hold at 1376.00 MD	
7,161.45	6,631.43	2,454.44	824.52	Start Drop -1.50	
8,753.74	8,178.00	2,763.82	930.75	Start 3780.00 hold at 8753.74 MD	
12,533.74	11,958.00	2,763.82	930.75	TD at 12533.74	