

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 324-12-298 - Slot RG 324-12-298, True North
 Vertical (TVD) Reference: KB=30' @ 6648.00usft (H&P #329)
 Section (VS) Reference: Slot - RG 324-12-298(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 324-12-298 - VP	8198.00	2015.60	913.87	1760765.12	2202236.19	39.887841	-108.343231	Circle (Radius: 100.00)
RG 324-12-298 - PBHL	11978.00	2015.60	913.87	1760765.12	2202236.19	39.887841	-108.343231	Point

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
370.00	5.00	35.00	369.68	8.93	6.25	10.71	10.90	Start DLS 2.00 TFO -14.96
997.63	17.43	24.20	984.17	117.51	60.70	132.09	132.48	Start 6361.77 hold at 997.63 MD
7359.40	17.43	24.20	7053.83	1855.62	841.97	2037.71	2038.11	Start Drop -1.50
8521.42	0.00	0.00	8198.00	2015.60	913.87	2213.10	2213.50	Start 3780.00 hold at 8521.42 MD
12301.42	0.00	0.00	11978.00	2015.60	913.87	2213.10	2213.50	TD at 12301.42

WELL DETAILS: RG 324-12-298

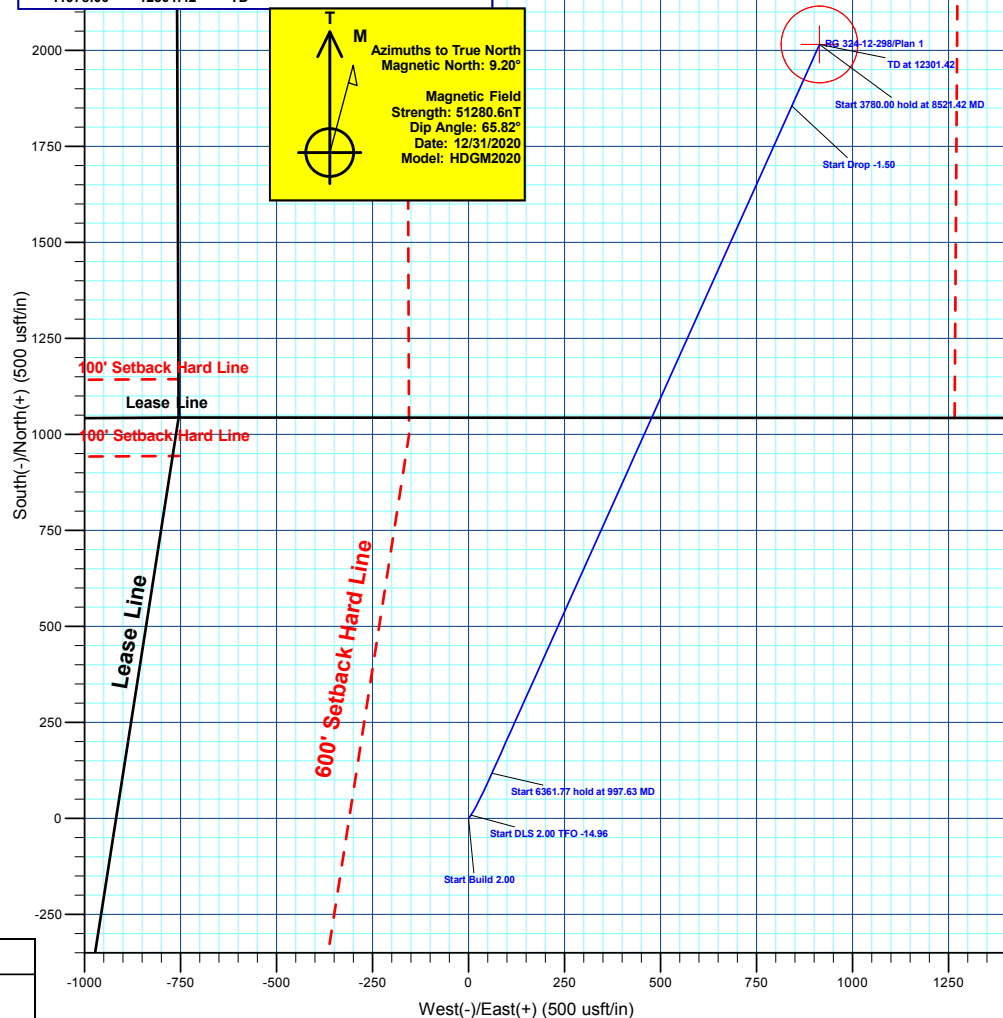
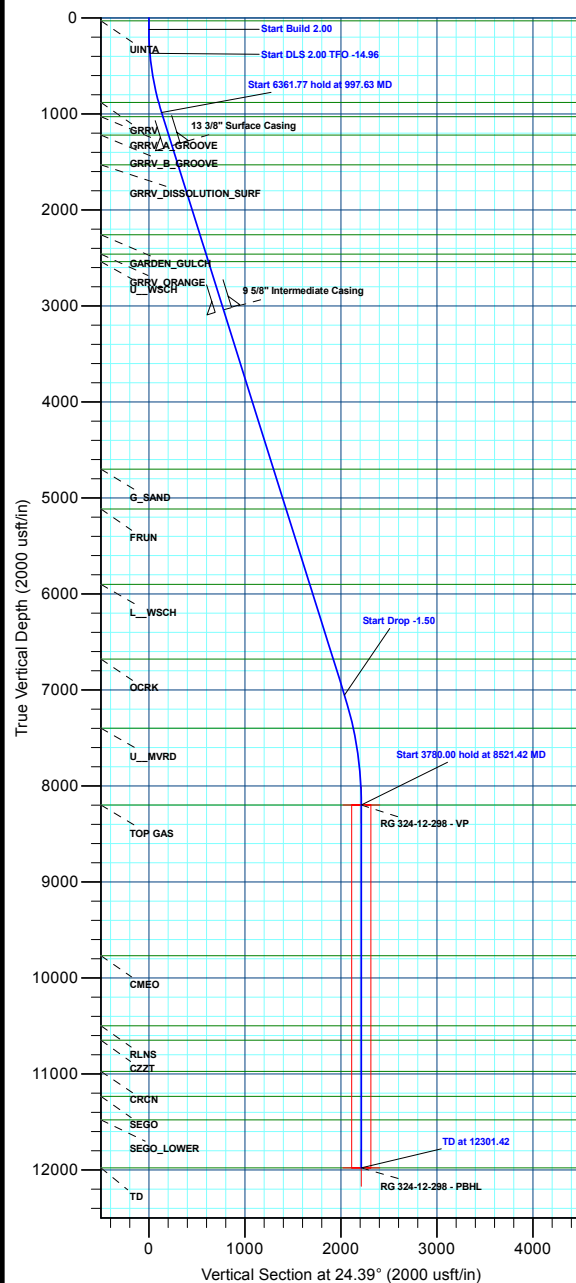
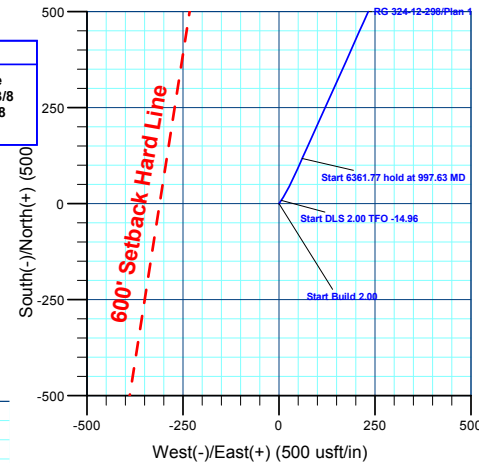
+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1758779.14	6618.00	39.882308	-108.346488	RG 324-12-298

CASING DETAILS

TVD	MD	Name	Size
1330.00	1360.11	13 3/8" Surface Casing	13-3/8
3040.00	3152.40	9 5/8" Intermediate Casing	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UINTA
880.00	889.07	GRRV
1030.00	1045.67	GRRV_A_GROOVE
1220.00	1244.81	GRRV_B_GROOVE
1530.00	1569.73	GRRV DISSOLUTION_SURF
2260.00	2334.86	GARDEN_GULCH
2460.00	2544.49	GRRV_ORANGE
2540.00	2628.34	U_WSCH
4700.00	4892.29	G_SAND
5115.00	5327.27	FRUN
5900.00	6150.05	L_WSCH
6678.00	6965.49	OCRK
7398.00	7715.45	U_MVRD
8198.00	8521.42	TOP GAS
9768.00	10091.42	CMEQ
10498.00	10821.42	RLNS
10648.00	10971.42	CZT
10973.00	11296.42	CRCN
11233.00	11556.42	SEGO
11478.00	11801.42	SEGO_LOWER
11978.00	12301.42	TD



Plan: Plan 1 (RG 324-12-298/Wellbore #1)

Created By: Chase Chambers Date: 8:47, May 04 2022



Terra Energy Partners, LLP

Rio Blanco County, CO

RG 11-13-298

RG 324-12-298 - Slot RG 324-12-298

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 324-12-298 - Slot RG 324-12-298
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 324-12-298	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 324-12-298 - Slot RG 324-12-298					
Well Position	+N/-S	66.01 usft	Northing:	1,758,779.14 usft	Latitude:	39.882308
	+E/-W	13.98 usft	Easting:	2,201,259.62 usft	Longitude:	-108.346488
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	51,280.60000000

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	24.39

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	35.00	369.68	8.93	6.25	2.00	2.00	0.00	35.00	
997.63	17.43	24.20	984.17	117.51	60.70	2.00	1.98	-1.72	-14.96	
7,359.40	17.43	24.20	7,053.83	1,855.62	841.97	0.00	0.00	0.00	0.00	
8,521.42	0.00	0.00	8,198.00	2,015.60	913.87	1.50	-1.50	0.00	180.00	RG 324-12-298 - VP
12,301.42	0.00	0.00	11,978.00	2,015.60	913.87	0.00	0.00	0.00	0.00	RG 324-12-298 - 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 324-12-298	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
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	35.00	199.99	0.91	0.64	1.10	2.00	2.00	0.00
300.00	3.60	35.00	299.88	4.63	3.24	5.56	2.00	2.00	0.00
Start DLS 2.00 TFO -14.96									
370.00	5.00	35.00	369.68	8.93	6.25	10.71	2.00	2.00	0.00
400.00	5.58	33.41	399.55	11.22	7.81	13.44	2.00	1.94	-5.31
500.00	7.54	29.88	498.90	20.97	13.75	24.78	2.00	1.96	-3.53
600.00	9.52	27.81	597.78	33.97	20.88	39.56	2.00	1.98	-2.07
700.00	11.50	26.44	696.10	50.22	29.18	57.78	2.00	1.98	-1.36
800.00	13.49	25.48	793.73	69.68	38.64	79.41	2.00	1.99	-0.97
GRRV									
889.07	15.27	24.82	880.00	89.70	48.03	101.53	2.00	1.99	-0.73
900.00	15.48	24.75	890.54	92.33	49.24	104.43	2.00	1.99	-0.64
Start 6361.77 hold at 997.63 MD									
997.63	17.43	24.20	984.17	117.51	60.70	132.09	2.00	1.99	-0.56
1,000.00	17.43	24.20	986.43	118.15	60.99	132.79	0.00	0.00	0.00
GRRV_A_GROOVE									
1,045.67	17.43	24.20	1,030.00	130.63	66.60	146.47	0.00	0.00	0.00
1,100.00	17.43	24.20	1,081.84	145.48	73.27	162.75	0.00	0.00	0.00
1,200.00	17.43	24.20	1,177.25	172.80	85.55	192.70	0.00	0.00	0.00
GRRV_B_GROOVE									
1,244.81	17.43	24.20	1,220.00	185.04	91.05	206.13	0.00	0.00	0.00
1,300.00	17.43	24.20	1,272.65	200.12	97.83	222.66	0.00	0.00	0.00
13 3/8" Surface Casing									
1,360.11	17.43	24.20	1,330.00	216.54	105.21	240.66	0.00	0.00	0.00
1,400.00	17.43	24.20	1,368.06	227.44	110.11	252.61	0.00	0.00	0.00
1,500.00	17.43	24.20	1,463.47	254.76	122.39	282.57	0.00	0.00	0.00
GRRV DISSOLUTION SURF									
1,569.73	17.43	24.20	1,530.00	273.81	130.95	303.45	0.00	0.00	0.00
1,600.00	17.43	24.20	1,558.88	282.08	134.67	312.52	0.00	0.00	0.00
1,700.00	17.43	24.20	1,654.29	309.40	146.95	342.47	0.00	0.00	0.00
1,800.00	17.43	24.20	1,749.70	336.72	159.23	372.43	0.00	0.00	0.00
1,900.00	17.43	24.20	1,845.10	364.05	171.51	402.38	0.00	0.00	0.00
2,000.00	17.43	24.20	1,940.51	391.37	183.80	432.34	0.00	0.00	0.00
2,100.00	17.43	24.20	2,035.92	418.69	196.08	462.29	0.00	0.00	0.00
2,200.00	17.43	24.20	2,131.33	446.01	208.36	492.25	0.00	0.00	0.00
2,300.00	17.43	24.20	2,226.74	473.33	220.64	522.20	0.00	0.00	0.00
GARDEN_GULCH									
2,334.86	17.43	24.20	2,260.00	482.86	224.92	532.64	0.00	0.00	0.00
2,400.00	17.43	24.20	2,322.15	500.65	232.92	552.15	0.00	0.00	0.00
2,500.00	17.43	24.20	2,417.55	527.97	245.20	582.11	0.00	0.00	0.00
GRRV_ORANGE									
2,544.49	17.43	24.20	2,460.00	540.13	250.66	595.44	0.00	0.00	0.00
2,600.00	17.43	24.20	2,512.96	555.29	257.48	612.06	0.00	0.00	0.00
U_WSCH									
2,628.34	17.43	24.20	2,540.00	563.04	260.96	620.55	0.00	0.00	0.00
2,700.00	17.43	24.20	2,608.37	582.62	269.76	642.02	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 324-12-298	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	17.43	24.20	2,703.78	609.94	282.04	671.97	0.00	0.00	0.00
2,900.00	17.43	24.20	2,799.19	637.26	294.32	701.93	0.00	0.00	0.00
3,000.00	17.43	24.20	2,894.59	664.58	306.60	731.88	0.00	0.00	0.00
3,100.00	17.43	24.20	2,990.00	691.90	318.88	761.83	0.00	0.00	0.00
9 5/8" Intermediate Casing									
3,152.40	17.43	24.20	3,040.00	706.22	325.32	777.53	0.00	0.00	0.00
3,200.00	17.43	24.20	3,085.41	719.22	331.16	791.79	0.00	0.00	0.00
3,300.00	17.43	24.20	3,180.82	746.54	343.44	821.74	0.00	0.00	0.00
3,400.00	17.43	24.20	3,276.23	773.87	355.72	851.70	0.00	0.00	0.00
3,500.00	17.43	24.20	3,371.64	801.19	368.01	881.65	0.00	0.00	0.00
3,600.00	17.43	24.20	3,467.04	828.51	380.29	911.61	0.00	0.00	0.00
3,700.00	17.43	24.20	3,562.45	855.83	392.57	941.56	0.00	0.00	0.00
3,800.00	17.43	24.20	3,657.86	883.15	404.85	971.51	0.00	0.00	0.00
3,900.00	17.43	24.20	3,753.27	910.47	417.13	1,001.47	0.00	0.00	0.00
4,000.00	17.43	24.20	3,848.68	937.79	429.41	1,031.42	0.00	0.00	0.00
4,100.00	17.43	24.20	3,944.09	965.11	441.69	1,061.38	0.00	0.00	0.00
4,200.00	17.43	24.20	4,039.49	992.44	453.97	1,091.33	0.00	0.00	0.00
4,300.00	17.43	24.20	4,134.90	1,019.76	466.25	1,121.29	0.00	0.00	0.00
4,400.00	17.43	24.20	4,230.31	1,047.08	478.53	1,151.24	0.00	0.00	0.00
4,500.00	17.43	24.20	4,325.72	1,074.40	490.81	1,181.19	0.00	0.00	0.00
4,600.00	17.43	24.20	4,421.13	1,101.72	503.09	1,211.15	0.00	0.00	0.00
4,700.00	17.43	24.20	4,516.54	1,129.04	515.37	1,241.10	0.00	0.00	0.00
4,800.00	17.43	24.20	4,611.94	1,156.36	527.65	1,271.06	0.00	0.00	0.00
G_SAND									
4,892.29	17.43	24.20	4,700.00	1,181.58	538.99	1,298.70	0.00	0.00	0.00
4,900.00	17.43	24.20	4,707.35	1,183.68	539.94	1,301.01	0.00	0.00	0.00
5,000.00	17.43	24.20	4,802.76	1,211.01	552.22	1,330.97	0.00	0.00	0.00
5,100.00	17.43	24.20	4,898.17	1,238.33	564.50	1,360.92	0.00	0.00	0.00
5,200.00	17.43	24.20	4,993.58	1,265.65	576.78	1,390.87	0.00	0.00	0.00
5,300.00	17.43	24.20	5,088.98	1,292.97	589.06	1,420.83	0.00	0.00	0.00
FRUN									
5,327.27	17.43	24.20	5,115.00	1,300.42	592.41	1,429.00	0.00	0.00	0.00
5,400.00	17.43	24.20	5,184.39	1,320.29	601.34	1,450.78	0.00	0.00	0.00
5,500.00	17.43	24.20	5,279.80	1,347.61	613.62	1,480.74	0.00	0.00	0.00
5,600.00	17.43	24.20	5,375.21	1,374.93	625.90	1,510.69	0.00	0.00	0.00
5,700.00	17.43	24.20	5,470.62	1,402.25	638.18	1,540.65	0.00	0.00	0.00
5,800.00	17.43	24.20	5,566.03	1,429.58	650.46	1,570.60	0.00	0.00	0.00
5,900.00	17.43	24.20	5,661.43	1,456.90	662.74	1,600.55	0.00	0.00	0.00
6,000.00	17.43	24.20	5,756.84	1,484.22	675.02	1,630.51	0.00	0.00	0.00
6,100.00	17.43	24.20	5,852.25	1,511.54	687.30	1,660.46	0.00	0.00	0.00
L_WSCH									
6,150.05	17.43	24.20	5,900.00	1,525.21	693.45	1,675.45	0.00	0.00	0.00
6,200.00	17.43	24.20	5,947.66	1,538.86	699.58	1,690.42	0.00	0.00	0.00
6,300.00	17.43	24.20	6,043.07	1,566.18	711.86	1,720.37	0.00	0.00	0.00
6,400.00	17.43	24.20	6,138.48	1,593.50	724.15	1,750.32	0.00	0.00	0.00
6,500.00	17.43	24.20	6,233.88	1,620.82	736.43	1,780.28	0.00	0.00	0.00
6,600.00	17.43	24.20	6,329.29	1,648.15	748.71	1,810.23	0.00	0.00	0.00
6,700.00	17.43	24.20	6,424.70	1,675.47	760.99	1,840.19	0.00	0.00	0.00
6,800.00	17.43	24.20	6,520.11	1,702.79	773.27	1,870.14	0.00	0.00	0.00
6,900.00	17.43	24.20	6,615.52	1,730.11	785.55	1,900.10	0.00	0.00	0.00
OCRK									
6,965.49	17.43	24.20	6,678.00	1,748.00	793.59	1,919.71	0.00	0.00	0.00
7,000.00	17.43	24.20	6,710.92	1,757.43	797.83	1,930.05	0.00	0.00	0.00
7,100.00	17.43	24.20	6,806.33	1,784.75	810.11	1,960.00	0.00	0.00	0.00

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Well:	RG 324-12-298	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)
7,200.00	17.43	24.20	6,901.74	1,812.07	822.39	1,989.96	0.00	0.00	0.00
7,300.00	17.43	24.20	6,997.15	1,839.39	834.67	2,019.91	0.00	0.00	0.00
Start Drop -1.50									
7,359.40	17.43	24.20	7,053.83	1,855.62	841.97	2,037.71	0.00	0.00	0.00
7,400.00	16.82	24.20	7,092.62	1,866.53	846.87	2,049.66	1.50	-1.50	0.00
7,500.00	15.32	24.20	7,188.71	1,891.78	858.22	2,077.34	1.50	-1.50	0.00
7,600.00	13.82	24.20	7,285.49	1,914.72	868.53	2,102.50	1.50	-1.50	0.00
7,700.00	12.32	24.20	7,382.90	1,935.35	877.80	2,125.12	1.50	-1.50	0.00
U_MVRD									
7,715.45	12.09	24.20	7,398.00	1,938.33	879.14	2,128.38	1.50	-1.50	0.00
7,800.00	10.82	24.20	7,480.86	1,953.65	886.03	2,145.18	1.50	-1.50	0.00
7,900.00	9.32	24.20	7,579.32	1,969.60	893.20	2,162.66	1.50	-1.50	0.00
8,000.00	7.82	24.20	7,678.20	1,983.19	899.31	2,177.57	1.50	-1.50	0.00
8,100.00	6.32	24.20	7,777.44	1,994.42	904.35	2,189.88	1.50	-1.50	0.00
8,200.00	4.82	24.20	7,876.96	2,003.27	908.33	2,199.58	1.50	-1.50	0.00
8,300.00	3.32	24.20	7,976.71	2,009.75	911.24	2,206.68	1.50	-1.50	0.00
8,400.00	1.82	24.20	8,076.60	2,013.84	913.08	2,211.17	1.50	-1.50	0.00
8,500.00	0.32	24.20	8,176.58	2,015.54	913.85	2,213.04	1.50	-1.50	0.00
Start 3780.00 hold at 8521.42 MD - TOP GAS									
8,521.42	0.00	0.00	8,198.00	2,015.60	913.87	2,213.10	1.50	-1.50	0.00
8,600.00	0.00	0.00	8,276.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
8,700.00	0.00	0.00	8,376.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
8,800.00	0.00	0.00	8,476.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
8,900.00	0.00	0.00	8,576.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,000.00	0.00	0.00	8,676.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,100.00	0.00	0.00	8,776.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,200.00	0.00	0.00	8,876.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,300.00	0.00	0.00	8,976.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,400.00	0.00	0.00	9,076.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,500.00	0.00	0.00	9,176.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,600.00	0.00	0.00	9,276.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,700.00	0.00	0.00	9,376.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,800.00	0.00	0.00	9,476.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
9,900.00	0.00	0.00	9,576.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,000.00	0.00	0.00	9,676.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
CME0									
10,091.42	0.00	0.00	9,768.00	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,100.00	0.00	0.00	9,776.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,200.00	0.00	0.00	9,876.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,300.00	0.00	0.00	9,976.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,400.00	0.00	0.00	10,076.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,500.00	0.00	0.00	10,176.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,600.00	0.00	0.00	10,276.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,700.00	0.00	0.00	10,376.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,800.00	0.00	0.00	10,476.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
RLNS									
10,821.42	0.00	0.00	10,498.00	2,015.60	913.87	2,213.10	0.00	0.00	0.00
10,900.00	0.00	0.00	10,576.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
CZZT									
10,971.42	0.00	0.00	10,648.00	2,015.60	913.87	2,213.10	0.00	0.00	0.00
11,000.00	0.00	0.00	10,676.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
11,100.00	0.00	0.00	10,776.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00
11,200.00	0.00	0.00	10,876.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 324-12-298 - Slot RG 324-12-298
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 324-12-298	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)	
CRCN										
11,296.42	0.00	0.00	10,973.00	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
11,300.00	0.00	0.00	10,976.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,076.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,176.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
SEGO										
11,556.42	0.00	0.00	11,233.00	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,276.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,376.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,476.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
SEGO_LOWER										
11,801.42	0.00	0.00	11,478.00	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,576.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,676.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,776.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,876.58	2,015.60	913.87	2,213.10	0.00	0.00	0.00	
TD at 12301.42 - TD										
12,301.42	0.00	0.00	11,978.00	2,015.60	913.87	2,213.10	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	
- hit/miss target										
- Shape										
RG 324-12-298 - VP	0.00	0.00	8,198.00	2,015.60	913.87	1,760,765.12	2,202,236.19	39.887841	-108.343232	
- plan hits target center										
- Circle (radius 100.00)										
RG 324-12-298 - PBHL	0.00	0.00	11,978.00	2,015.60	913.87	1,760,765.12	2,202,236.19	39.887841	-108.343232	
- plan hits target center										
- Point										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,360.11	1,330.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,152.40	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 324-12-298 - Slot RG 324-12-298
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 324-12-298	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				
889.07	880.00	GRRV				
1,045.67	1,030.00	GRRV_A_GROOVE				
1,244.81	1,220.00	GRRV_B_GROOVE				
1,569.73	1,530.00	GRRV DISSOLUTION_SURF				
2,334.86	2,260.00	GARDEN_GULCH				
2,544.49	2,460.00	GRRV_ORANGE				
2,628.34	2,540.00	U__WSCH				
4,892.29	4,700.00	G_SAND				
5,327.27	5,115.00	FRUN				
6,150.05	5,900.00	L__WSCH				
6,965.49	6,678.00	OCRK				
7,715.45	7,398.00	U__MVRD				
8,521.42	8,198.00	TOP GAS				
10,091.42	9,768.00	CMEO				
10,821.42	10,498.00	RLNS				
10,971.42	10,648.00	CZZT				
11,296.42	10,973.00	CRCN				
11,556.42	11,233.00	SEGO				
11,801.42	11,478.00	SEGO_LOWER				
12,301.42	11,978.00	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 -14.96	
997.63	984.17	117.51	60.70	Start 6361.77 hold at 997.63 MD	
7,359.40	7,053.83	1,855.62	841.97	Start Drop -1.50	
8,521.42	8,198.00	2,015.60	913.87	Start 3780.00 hold at 8521.42 MD	
12,301.42	11,978.00	2,015.60	913.87	TD at 12301.42	