



Project: Rio Blanco County, CO  
Site: Fed 298-13-1 Pad  
Well: RG 424-13-298  
Wellbore: Wellbore #1  
Design: Plan 1  
Latitude: 39.871757  
Longitude: -108.338003  
Ground Level: 6667.00  
KB=30' @ 6697.00usft (H&P #329)



#### 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 424-13-298 - Slot (B2) RG 424-13-298, True North  
Vertical (TVD) Reference: KB=30' @ 6697.00usft (H&P #329)  
Section (VS) Reference: Slot - (B2) RG 424-13-298(0.00N, 0.00E)  
Measured Depth Reference: KB=30' @ 6697.00usft (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 424-13-298 - VP	7697.00	-140.28	-2293.90	1754794.31	2201222.43	39.871372	-108.346176	Circle (Radius: 100.00)
RG 424-13-298 - PBHL	11477.00	-140.28	-2293.90	1754794.31	2201222.43	39.871372	-108.346176	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	275.00	369.68	0.95	-10.86	10.78	10.90	Start DLS 2.00 TFO -11.48
1109.63	19.72	266.34	1090.23	-4.24	-168.36	168.30	168.57	Start 5649.31 hold at 1109.63 MD
6758.94	19.72	266.34	6408.32	-125.97	-2070.40	2074.23	2074.51	Start Drop -1.50
8073.41	0.00	0.00	7697.00	-140.28	-2293.90	2298.18	2298.46	Start 3780.00 hold at 8073.41 MD
11853.41	0.00	0.00	11477.00	-140.28	-2293.90	2298.18	2298.46	TD at 11853.41

#### WELL DETAILS: RG 424-13-298

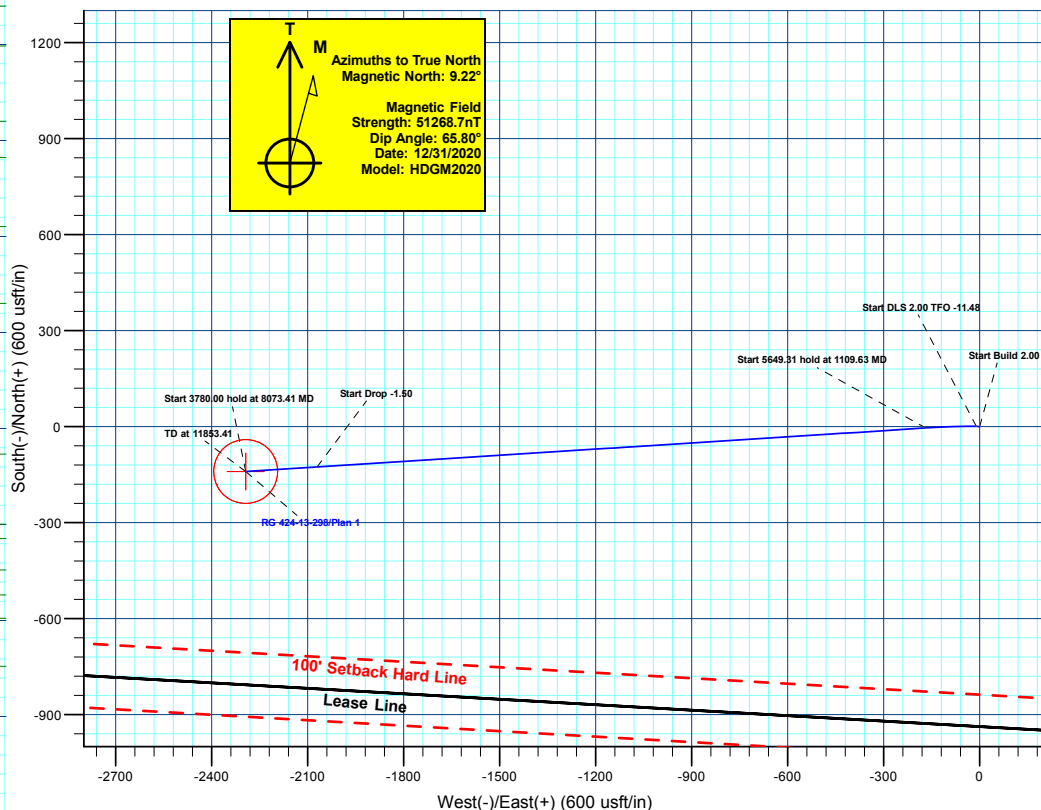
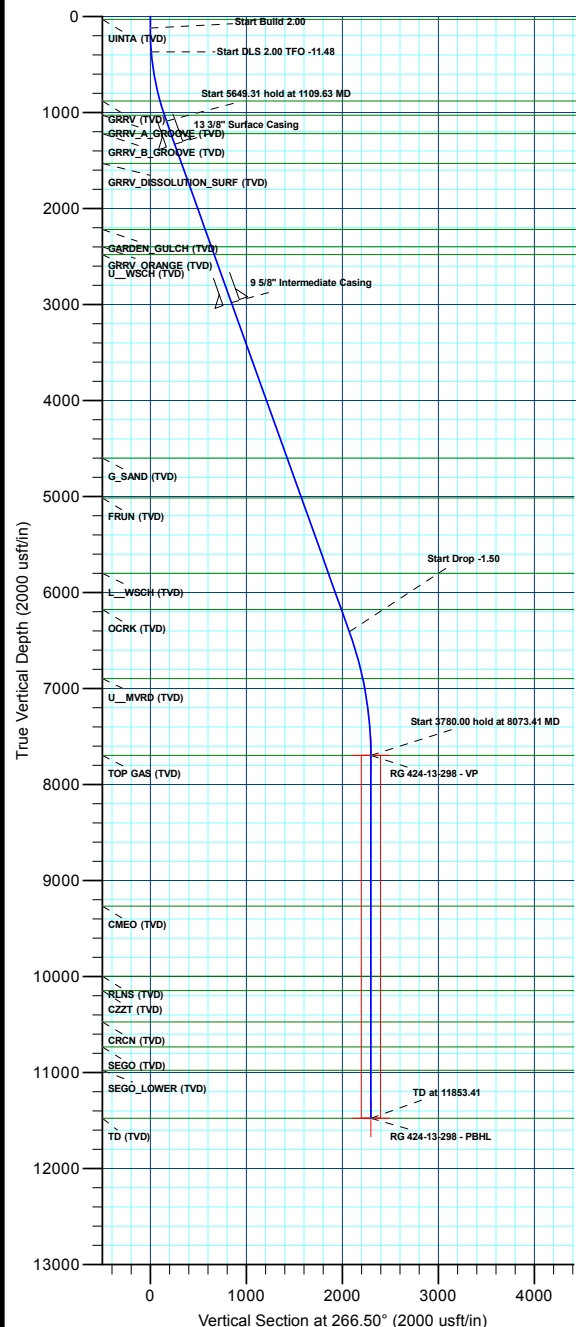
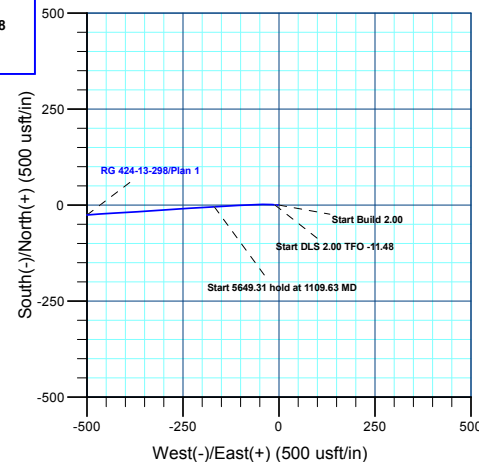
+N/-S	+E/-W	Northing	Ground Elev:	Latitude	Longitude	Slot
0.00	0.00	1754862.87	6667.00	39.871757	-108.338003	(B2) RG 424-13-298

#### CASING DETAILS

TVD	MD	Name	Size
1330.00	1364.33	13 3/8" Surface Casing	13-3/8
2980.00	3117.109	5/8" Intermediate Casing	9-5/8

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UINTA (TVD)
880.00	889.12	GRRV (TVD)
1030.00	1045.90	GRRV_A_GROOVE (TVD)
1220.00	1247.48	GRRV_B_GROOVE (TVD)
1530.00	1576.79	GRRV DISSOLUTION_SURF (TVD)
2220.00	2309.76	GARDEN_GULCH (TVD)
2400.00	2500.97	GRRV_ORANGE (TVD)
2480.00	2585.96	U_WSCH (TVD)
4600.00	4837.99	G_SAND (TVD)
5015.00	5278.84	FRUN (TVD)
5800.00	6112.73	L_WSCH (TVD)
6177.00	6513.21	OCRK (TVD)
6897.00	7267.44	U_MVRD (TVD)
7697.00	8073.41	TOP GAS (TVD)
9267.00	9643.41	CMEQ (TVD)
9997.00	10373.41	RLNS (TVD)
10147.00	10523.41	CZZT (TVD)
10472.00	10848.41	CRCN (TVD)
10732.00	11108.41	SEGO (TVD)
10977.00	11353.41	SEGO_LOWER (TVD)
11477.00	11853.41	TD (TVD)



Plan: Plan 1 (RG 424-13-298/Wellbore #1)

Created By: Chase Chambers Date: 9:30, March 15 2022



## **Terra Energy Partners, LLP**

**Rio Blanco County, CO**

**Fed 298-13-1 Pad**

**RG 424-13-298 - Slot (B2) RG 424-13-298**

**Wellbore #1**

**Plan: Plan 1**

## **KLX Well Planning Report**

**15 March, 2022**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 424-13-298 - Slot (B2) RG 424-13-298
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Site:</b>	Fed 298-13-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 424-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

<b>Project</b>	Rio Blanco County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

<b>Site</b>	Fed 298-13-1 Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,754,850.43 usft	<b>Latitude:</b> 39.871723
<b>From:</b> Map		<b>Easting:</b>	2,203,520.82 usft	<b>Longitude:</b> -108.337998
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> -1.79 °

<b>Well</b>	RG 424-13-298 - Slot (B2) RG 424-13-298			
<b>Well Position</b>	<b>+N/-S</b>	12.40 usft	<b>Northing:</b>	1,754,862.87 usft
	<b>+E/-W</b>	-1.62 usft	<b>Easting:</b>	2,203,519.59 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 6,667.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2020	12/31/2020	9.22	65.80	51,268.70000000

<b>Design</b>	Plan 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	266.50

<b>Plan Sections</b>										
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	275.00	369.68	0.95	-10.86	2.00	2.00	0.00	275.00	
1,109.63	19.72	266.34	1,090.23	-4.24	-168.36	2.00	1.99	-1.17	-11.48	
6,758.94	19.72	266.34	6,408.32	-125.97	-2,070.40	0.00	0.00	0.00	0.00	
8,073.41	0.00	0.00	7,697.00	-140.28	-2,293.90	1.50	-1.50	0.00	180.00	RG 424-13-298 - VP
11,853.41	0.00	0.00	11,477.00	-140.28	-2,293.90	0.00	0.00	0.00	0.00	RG 424-13-298 - PBH

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<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Site:</b>	Fed 298-13-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 424-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
<b>UINTA (TVD)</b>									
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
<b>Start Build 2.00</b>									
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.60	275.00	199.99	0.10	-1.11	1.10	2.00	2.00	0.00
300.00	3.60	275.00	299.88	0.49	-5.63	5.59	2.00	2.00	0.00
<b>Start DLS 2.00 TFO -11.48</b>									
370.00	5.00	275.00	369.68	0.95	-10.86	10.78	2.00	2.00	0.00
400.00	5.59	273.77	399.55	1.16	-13.62	13.52	2.00	1.96	-4.09
500.00	7.57	271.07	498.89	1.60	-25.06	24.92	2.00	1.98	-2.71
600.00	9.55	269.48	597.77	1.65	-39.94	39.77	2.00	1.99	-1.59
700.00	11.54	268.44	696.08	1.30	-58.24	58.05	2.00	1.99	-1.04
800.00	13.54	267.70	793.69	0.56	-79.94	79.76	2.00	1.99	-0.74
<b>GRRV (TVD)</b>									
889.12	15.31	267.20	880.00	-0.44	-102.12	101.95	2.00	2.00	-0.56
900.00	15.53	267.14	890.48	-0.58	-105.01	104.85	2.00	2.00	-0.49
1,000.00	17.53	266.71	986.35	-2.11	-133.42	133.30	2.00	2.00	-0.43
<b>GRRV_A_GROOVE (TVD)</b>									
1,045.90	18.44	266.55	1,030.00	-2.94	-147.56	147.47	2.00	2.00	-0.36
<b>Start 5649.31 hold at 1109.63 MD</b>									
1,109.63	19.72	266.34	1,090.23	-4.24	-168.36	168.30	2.00	2.00	-0.32
1,200.00	19.72	266.34	1,175.30	-6.19	-198.78	198.79	0.00	0.00	0.00
<b>GRRV_B_GROOVE (TVD)</b>									
1,247.48	19.72	266.34	1,220.00	-7.21	-214.77	214.81	0.00	0.00	0.00
1,300.00	19.72	266.34	1,269.44	-8.34	-232.45	232.53	0.00	0.00	0.00
<b>13 3/8" Surface Casing</b>									
1,364.33	19.72	266.34	1,330.00	-9.73	-254.11	254.23	0.00	0.00	0.00
1,400.00	19.72	266.34	1,363.58	-10.50	-266.12	266.27	0.00	0.00	0.00
1,500.00	19.72	266.34	1,457.71	-12.65	-299.79	300.00	0.00	0.00	0.00
<b>GRRV DISSOLUTION_SURF (TVD)</b>									
1,576.79	19.72	266.34	1,530.00	-14.31	-325.64	325.91	0.00	0.00	0.00
1,600.00	19.72	266.34	1,551.85	-14.81	-333.46	333.74	0.00	0.00	0.00
1,700.00	19.72	266.34	1,645.99	-16.96	-367.13	367.48	0.00	0.00	0.00
1,800.00	19.72	266.34	1,740.12	-19.12	-400.80	401.21	0.00	0.00	0.00
1,900.00	19.72	266.34	1,834.26	-21.27	-434.46	434.95	0.00	0.00	0.00
2,000.00	19.72	266.34	1,928.40	-23.43	-468.13	468.69	0.00	0.00	0.00
2,100.00	19.72	266.34	2,022.53	-25.58	-501.80	502.43	0.00	0.00	0.00
2,200.00	19.72	266.34	2,116.67	-27.73	-535.47	536.16	0.00	0.00	0.00
2,300.00	19.72	266.34	2,210.81	-29.89	-569.14	569.90	0.00	0.00	0.00
<b>GARDEN_GULCH (TVD)</b>									
2,309.76	19.72	266.34	2,220.00	-30.10	-572.43	573.20	0.00	0.00	0.00
2,400.00	19.72	266.34	2,304.95	-32.04	-602.81	603.64	0.00	0.00	0.00
2,500.00	19.72	266.34	2,399.08	-34.20	-636.48	637.38	0.00	0.00	0.00
<b>GRRV_ORANGE (TVD)</b>									
2,500.97	19.72	266.34	2,400.00	-34.22	-636.80	637.71	0.00	0.00	0.00
<b>U_WSCH (TVD)</b>									
2,585.96	19.72	266.34	2,480.00	-36.05	-665.42	666.38	0.00	0.00	0.00
2,600.00	19.72	266.34	2,493.22	-36.35	-670.14	671.11	0.00	0.00	0.00
2,700.00	19.72	266.34	2,587.36	-38.51	-703.81	704.85	0.00	0.00	0.00
2,800.00	19.72	266.34	2,681.49	-40.66	-737.48	738.59	0.00	0.00	0.00

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<b>Site:</b>	Fed 298-13-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 424-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	19.72	266.34	2,775.63	-42.82	-771.15	772.33	0.00	0.00	0.00
3,000.00	19.72	266.34	2,869.77	-44.97	-804.82	806.06	0.00	0.00	0.00
3,100.00	19.72	266.34	2,963.90	-47.13	-838.49	839.80	0.00	0.00	0.00
<b>9 5/8" Intermediate Casing</b>									
3,117.10	19.72	266.34	2,980.00	-47.50	-844.24	845.57	0.00	0.00	0.00
3,200.00	19.72	266.34	3,058.04	-49.28	-872.16	873.54	0.00	0.00	0.00
3,300.00	19.72	266.34	3,152.18	-51.44	-905.83	907.28	0.00	0.00	0.00
3,400.00	19.72	266.34	3,246.32	-53.59	-939.49	941.01	0.00	0.00	0.00
3,500.00	19.72	266.34	3,340.45	-55.75	-973.16	974.75	0.00	0.00	0.00
3,600.00	19.72	266.34	3,434.59	-57.90	-1,006.83	1,008.49	0.00	0.00	0.00
3,700.00	19.72	266.34	3,528.73	-60.06	-1,040.50	1,042.23	0.00	0.00	0.00
3,800.00	19.72	266.34	3,622.86	-62.21	-1,074.17	1,075.96	0.00	0.00	0.00
3,900.00	19.72	266.34	3,717.00	-64.37	-1,107.84	1,109.70	0.00	0.00	0.00
4,000.00	19.72	266.34	3,811.14	-66.52	-1,141.51	1,143.44	0.00	0.00	0.00
4,100.00	19.72	266.34	3,905.27	-68.68	-1,175.18	1,177.18	0.00	0.00	0.00
4,200.00	19.72	266.34	3,999.41	-70.83	-1,208.84	1,210.91	0.00	0.00	0.00
4,300.00	19.72	266.34	4,093.55	-72.99	-1,242.51	1,244.65	0.00	0.00	0.00
4,400.00	19.72	266.34	4,187.69	-75.14	-1,276.18	1,278.39	0.00	0.00	0.00
4,500.00	19.72	266.34	4,281.82	-77.30	-1,309.85	1,312.13	0.00	0.00	0.00
4,600.00	19.72	266.34	4,375.96	-79.45	-1,343.52	1,345.86	0.00	0.00	0.00
4,700.00	19.72	266.34	4,470.10	-81.61	-1,377.19	1,379.60	0.00	0.00	0.00
4,800.00	19.72	266.34	4,564.23	-83.76	-1,410.86	1,413.34	0.00	0.00	0.00
<b>G_SAND (TVD)</b>									
4,837.99	19.72	266.34	4,600.00	-84.58	-1,423.65	1,426.16	0.00	0.00	0.00
4,900.00	19.72	266.34	4,658.37	-85.92	-1,444.52	1,447.08	0.00	0.00	0.00
5,000.00	19.72	266.34	4,752.51	-88.07	-1,478.19	1,480.81	0.00	0.00	0.00
5,100.00	19.72	266.34	4,846.65	-90.23	-1,511.86	1,514.55	0.00	0.00	0.00
5,200.00	19.72	266.34	4,940.78	-92.38	-1,545.53	1,548.29	0.00	0.00	0.00
<b>FRUN (TVD)</b>									
5,278.84	19.72	266.34	5,015.00	-94.08	-1,572.08	1,574.89	0.00	0.00	0.00
5,300.00	19.72	266.34	5,034.92	-94.54	-1,579.20	1,582.03	0.00	0.00	0.00
5,400.00	19.72	266.34	5,129.06	-96.69	-1,612.87	1,615.76	0.00	0.00	0.00
5,500.00	19.72	266.34	5,223.19	-98.85	-1,646.54	1,649.50	0.00	0.00	0.00
5,600.00	19.72	266.34	5,317.33	-101.00	-1,680.21	1,683.24	0.00	0.00	0.00
5,700.00	19.72	266.34	5,411.47	-103.16	-1,713.87	1,716.98	0.00	0.00	0.00
5,800.00	19.72	266.34	5,505.60	-105.31	-1,747.54	1,750.71	0.00	0.00	0.00
5,900.00	19.72	266.34	5,599.74	-107.47	-1,781.21	1,784.45	0.00	0.00	0.00
6,000.00	19.72	266.34	5,693.88	-109.62	-1,814.88	1,818.19	0.00	0.00	0.00
6,100.00	19.72	266.34	5,788.02	-111.78	-1,848.55	1,851.92	0.00	0.00	0.00
<b>L_WSCH (TVD)</b>									
6,112.73	19.72	266.34	5,800.00	-112.05	-1,852.84	1,856.22	0.00	0.00	0.00
6,200.00	19.72	266.34	5,882.15	-113.93	-1,882.22	1,885.66	0.00	0.00	0.00
6,300.00	19.72	266.34	5,976.29	-116.08	-1,915.89	1,919.40	0.00	0.00	0.00
6,400.00	19.72	266.34	6,070.43	-118.24	-1,949.56	1,953.14	0.00	0.00	0.00
6,500.00	19.72	266.34	6,164.56	-120.39	-1,983.22	1,986.87	0.00	0.00	0.00
<b>OCRK (TVD)</b>									
6,513.21	19.72	266.34	6,177.00	-120.68	-1,987.67	1,991.33	0.00	0.00	0.00
6,600.00	19.72	266.34	6,258.70	-122.55	-2,016.89	2,020.61	0.00	0.00	0.00
6,700.00	19.72	266.34	6,352.84	-124.70	-2,050.56	2,054.35	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
6,758.94	19.72	266.34	6,408.32	-125.97	-2,070.40	2,074.23	0.00	0.00	0.00
6,800.00	19.10	266.34	6,447.05	-126.85	-2,084.02	2,087.88	1.50	-1.50	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 424-13-298 - Slot (B2) RG 424-13-298
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Site:</b>	Fed 298-13-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 424-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
6,900.00	17.60	266.34	6,541.96	-128.86	-2,115.44	2,119.36	1.50	-1.50	0.00
7,000.00	16.10	266.34	6,637.66	-130.71	-2,144.37	2,148.35	1.50	-1.50	0.00
7,100.00	14.60	266.34	6,734.09	-132.40	-2,170.79	2,174.82	1.50	-1.50	0.00
7,200.00	13.10	266.34	6,831.18	-133.93	-2,194.68	2,198.76	1.50	-1.50	0.00
<b>U_MVRD (TVD)</b>									
7,267.44	12.09	266.34	6,897.00	-134.87	-2,209.36	2,213.47	1.50	-1.50	0.00
7,300.00	11.60	266.34	6,928.86	-135.29	-2,216.02	2,220.15	1.50	-1.50	0.00
7,400.00	10.10	266.34	7,027.07	-136.50	-2,234.81	2,238.98	1.50	-1.50	0.00
7,500.00	8.60	266.34	7,125.74	-137.53	-2,251.03	2,255.22	1.50	-1.50	0.00
7,600.00	7.10	266.34	7,224.80	-138.41	-2,264.66	2,268.88	1.50	-1.50	0.00
7,700.00	5.60	266.34	7,324.19	-139.11	-2,275.70	2,279.95	1.50	-1.50	0.00
7,800.00	4.10	266.34	7,423.82	-139.65	-2,284.14	2,288.40	1.50	-1.50	0.00
7,900.00	2.60	266.34	7,523.65	-140.03	-2,289.97	2,294.25	1.50	-1.50	0.00
8,000.00	1.10	266.34	7,623.60	-140.23	-2,293.19	2,297.48	1.50	-1.50	0.00
<b>Start 3780.00 hold at 8073.41 MD - TOP GAS (TVD)</b>									
8,073.41	0.00	0.00	7,697.00	-140.28	-2,293.90	2,298.18	1.50	-1.50	0.00
8,100.00	0.00	0.00	7,723.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
8,200.00	0.00	0.00	7,823.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
8,300.00	0.00	0.00	7,923.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
8,400.00	0.00	0.00	8,023.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
8,500.00	0.00	0.00	8,123.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
8,600.00	0.00	0.00	8,223.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
8,700.00	0.00	0.00	8,323.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
8,800.00	0.00	0.00	8,423.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
8,900.00	0.00	0.00	8,523.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,000.00	0.00	0.00	8,623.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,100.00	0.00	0.00	8,723.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,200.00	0.00	0.00	8,823.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,300.00	0.00	0.00	8,923.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,400.00	0.00	0.00	9,023.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,500.00	0.00	0.00	9,123.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,600.00	0.00	0.00	9,223.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
<b>CME0 (TVD)</b>									
9,643.41	0.00	0.00	9,267.00	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,700.00	0.00	0.00	9,323.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,800.00	0.00	0.00	9,423.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
9,900.00	0.00	0.00	9,523.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
10,000.00	0.00	0.00	9,623.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
10,100.00	0.00	0.00	9,723.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
10,200.00	0.00	0.00	9,823.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
10,300.00	0.00	0.00	9,923.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
<b>RLNS (TVD)</b>									
10,373.41	0.00	0.00	9,997.00	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
10,400.00	0.00	0.00	10,023.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
10,500.00	0.00	0.00	10,123.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
<b>CZZT (TVD)</b>									
10,523.41	0.00	0.00	10,147.00	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
10,600.00	0.00	0.00	10,223.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
10,700.00	0.00	0.00	10,323.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
10,800.00	0.00	0.00	10,423.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
<b>CRCN (TVD)</b>									
10,848.41	0.00	0.00	10,472.00	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 424-13-298 - Slot (B2) RG 424-13-298
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Site:</b>	Fed 298-13-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 424-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
10,900.00	0.00	0.00	10,523.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
11,000.00	0.00	0.00	10,623.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
11,100.00	0.00	0.00	10,723.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
<b>SEGO (TVD)</b>									
11,108.41	0.00	0.00	10,732.00	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
11,200.00	0.00	0.00	10,823.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
11,300.00	0.00	0.00	10,923.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
<b>SEGO_LOWER (TVD)</b>									
11,353.41	0.00	0.00	10,977.00	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
11,400.00	0.00	0.00	11,023.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
11,500.00	0.00	0.00	11,123.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
11,600.00	0.00	0.00	11,223.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
11,700.00	0.00	0.00	11,323.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
11,800.00	0.00	0.00	11,423.59	-140.28	-2,293.90	2,298.18	0.00	0.00	0.00
<b>TD at 11853.41 - TD (TVD)</b>									
11,853.41	0.00	0.00	11,477.00	-140.28	-2,293.90	2,298.18	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 424-13-298 - VP	0.00	0.00	7,697.00	-140.28	-2,293.90	1,754,794.31	2,201,222.43	39.871372	-108.346176
- plan hits target center									
- Circle (radius 100.00)									
RG 424-13-298 - PBHL	0.00	0.00	11,477.00	-140.28	-2,293.90	1,754,794.31	2,201,222.43	39.871372	-108.346176
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,364.33	1,330.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,117.10	2,980.00	9 5/8" Intermediate Casing	9-5/8	12-1/4	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RG 424-13-298 - Slot (B2) RG 424-13-298
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	KB=30' @ 6697.00usft (H&P #329)
<b>Site:</b>	Fed 298-13-1 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RG 424-13-298	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	UINTA (TVD)				
889.12	880.00	GRRV (TVD)				
1,045.90	1,030.00	GRRV_A_GROOVE (TVD)				
1,247.48	1,220.00	GRRV_B_GROOVE (TVD)				
1,576.79	1,530.00	GRRV DISSOLUTION_SURF (TVD)				
2,309.76	2,220.00	GARDEN_GULCH (TVD)				
2,500.97	2,400.00	GRRV_ORANGE (TVD)				
2,585.96	2,480.00	U_WSCH (TVD)				
4,837.99	4,600.00	G_SAND (TVD)				
5,278.84	5,015.00	FRUN (TVD)				
6,112.73	5,800.00	L_WSCH (TVD)				
6,513.21	6,177.00	OCRK (TVD)				
7,267.44	6,897.00	U_MVRD (TVD)				
8,073.41	7,697.00	TOP GAS (TVD)				
9,643.41	9,267.00	CMEO (TVD)				
10,373.41	9,997.00	RLNS (TVD)				
10,523.41	10,147.00	CZZT (TVD)				
10,848.41	10,472.00	CRCN (TVD)				
11,108.41	10,732.00	SEGO (TVD)				
11,353.41	10,977.00	SEGO_LOWER (TVD)				
11,853.41	11,477.00	TD (TVD)				

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	0.95	-10.86	Start DLS 2.00 TFO -11.48	
1,109.63	1,090.23	-4.24	-168.36	Start 5649.31 hold at 1109.63 MD	
6,758.94	6,408.32	-125.97	-2,070.40	Start Drop -1.50	
8,073.41	7,697.00	-140.28	-2,293.90	Start 3780.00 hold at 8073.41 MD	
11,853.41	11,477.00	-140.28	-2,293.90	TD at 11853.41	