

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 523-13-298 - Slot RG 523-13-298, True North
 Vertical (TVD) Reference: KB=30' @ 6648.00usft (H&P #329)
 Section (VS) Reference: Slot - RG 523-13-298(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 523-13-298 - VP	7748.00	-3167.25	228.22	1755543.12	2201362.75	39.873438	-108.345759	Circle (Radius: 100.00)
RG 523-13-298 - PBHL	11528.00	-3167.25	228.22	1755543.12	2201362.75	39.873438	-108.345759	Point

ANNOTATIONS

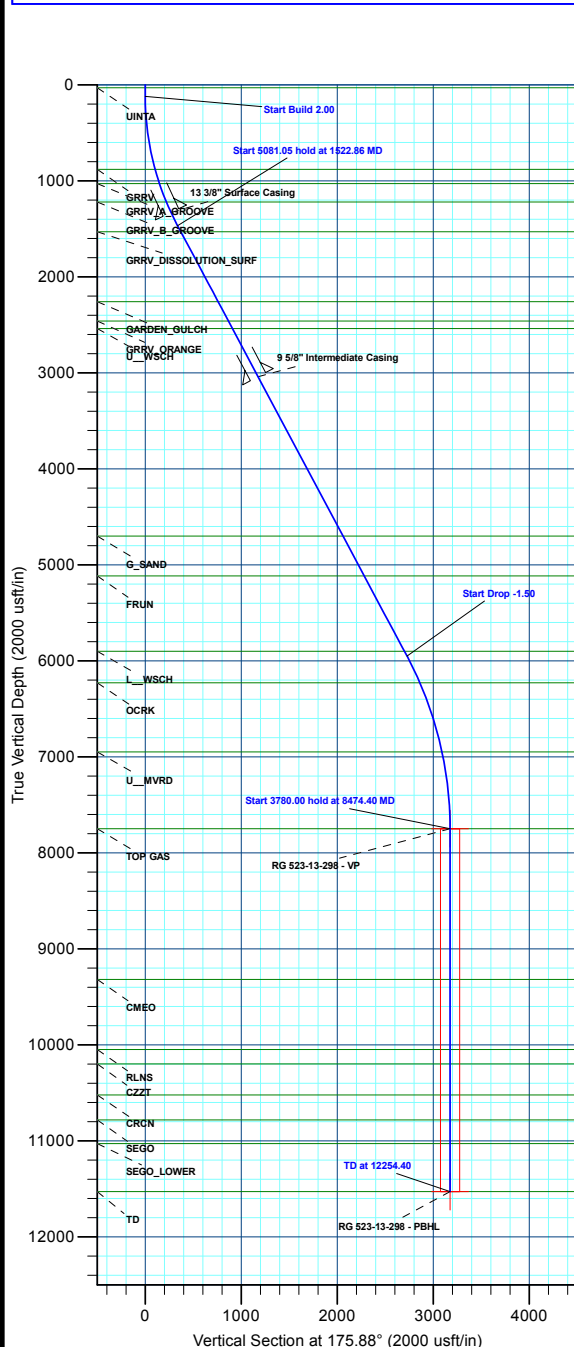
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 2.00
1522.86	28.06	175.88	1467.46	-335.80	24.20	336.68	336.68	Start 5081.05 hold at 1522.86 MD
6603.92	28.06	175.88	5951.38	-2719.52	195.96	2726.57	2726.57	Start Drop -1.50
8474.40	0.00	0.00	7748.00	-3167.25	228.22	3175.47	3175.47	Start 3780.00 hold at 8474.40 MD
12254.40	0.00	0.00	11528.00	-3167.25	228.22	3175.47	3175.47	TD at 12254.40

WELL DETAILS: RG 523-13-298

+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1758715.97	6618.00	39.882133	-108.346572	RG 523-13-298

CASING DETAILS

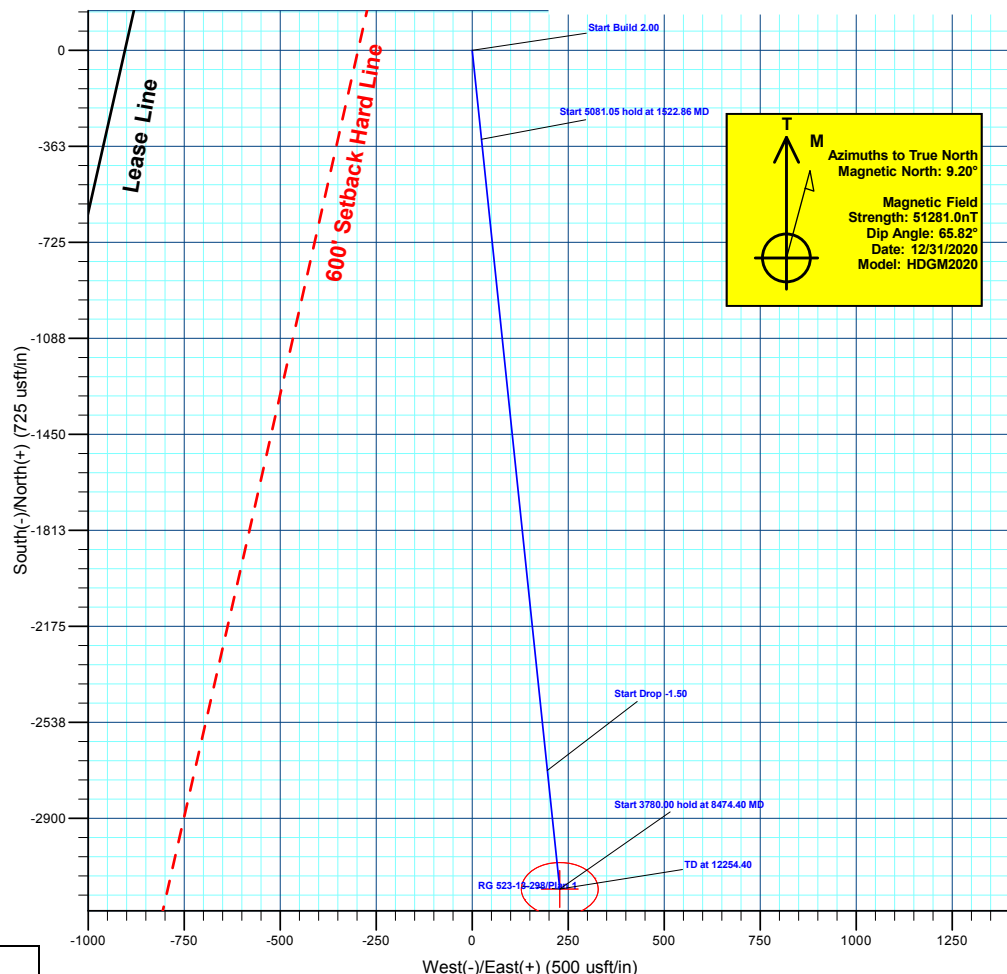
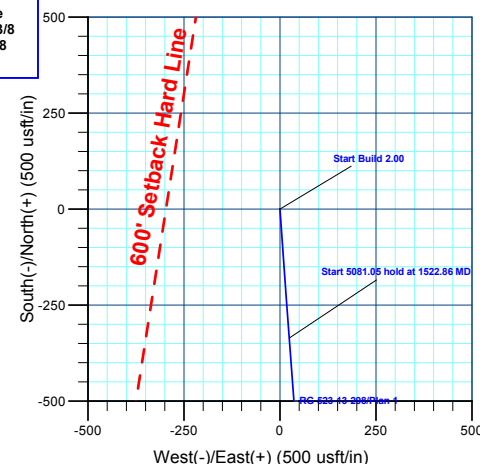
TVD	MD	Name	Size
1330.00	1369.21	13 3/8" Surface Casing	13-3/8
3040.00	3304.82	9 5/8" Intermediate Casing	9-5/8



Plan: Plan 1 (RG 523-13-298/Wellbore #1)

Created By: Chase Chambers Date: 9:03, May 04 2022

30.00	889.21	GRRV
880.00	1046.04	GRRV_A_GROOVE
1030.00	1249.00	GRRV_B_GROOVE
1220.00	1593.73	GRRV_DISSOLUTION_SURF
1530.00	2420.94	GARDEN_GULCH
2260.00	2647.58	GRRV_ORANGE
2460.00	2738.23	U_WSCH
2540.00	5185.88	G_SAND
4700.00	5656.15	FRUN
5115.00	6545.69	L_WSCH
5900.00	6911.12	OCRK
6228.00	7668.43	U_MVRD
6948.00	8474.40	TOP GAS
7748.00	10044.40	CMEO
9318.00	10774.40	RLNS
10048.00	10924.40	CZTZ
10198.00	11249.40	CRCN
10523.00	11509.40	SEGO
10783.00	11754.40	SEGO_LOWER
11028.00	12254.40	TD





Terra Energy Partners, LLP

Rio Blanco County, CO

RG 11-13-298

RG 523-13-298 - Slot RG 523-13-298

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 523-13-298 - Slot RG 523-13-298
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 523-13-298	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 523-13-298 - Slot RG 523-13-298					
Well Position	+N/-S	2.06 usft	Northing:	1,758,715.97 usft	Latitude:	39.882133
	+E/-W	-9.78 usft	Easting:	2,201,233.87 usft	Longitude:	-108.346573
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	175.88

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	
1,522.86	28.06	175.88	1,467.46	-335.80	24.20	2.00	2.00	0.00	175.88	
6,603.92	28.06	175.88	5,951.38	-2,719.52	195.96	0.00	0.00	0.00	0.00	
8,474.40	0.00	0.00	7,748.00	-3,167.25	228.22	1.50	-1.50	0.00	180.00	RG 523-13-298 - VP
12,254.40	0.00	0.00	11,528.00	-3,167.25	228.22	0.00	0.00	0.00	0.00	RG 523-13-298 - PBT

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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 523-13-298	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	175.88	199.99	-1.11	0.08	1.12	2.00	2.00	0.00
300.00	3.60	175.88	299.88	-5.64	0.41	5.65	2.00	2.00	0.00
400.00	5.60	175.88	399.55	-13.64	0.98	13.67	2.00	2.00	0.00
500.00	7.60	175.88	498.89	-25.10	1.81	25.17	2.00	2.00	0.00
600.00	9.60	175.88	597.76	-40.01	2.88	40.12	2.00	2.00	0.00
700.00	11.60	175.88	696.05	-58.36	4.21	58.51	2.00	2.00	0.00
800.00	13.60	175.88	793.63	-80.12	5.77	80.33	2.00	2.00	0.00
GRRV									
889.21	15.38	175.88	880.00	-102.38	7.38	102.65	2.00	2.00	0.00
900.00	15.60	175.88	890.40	-105.26	7.58	105.53	2.00	2.00	0.00
1,000.00	17.60	175.88	986.23	-133.75	9.64	134.10	2.00	2.00	0.00
GRRV_A_GROOVE									
1,046.04	18.52	175.88	1,030.00	-147.99	10.66	148.37	2.00	2.00	0.00
1,100.00	19.60	175.88	1,081.00	-165.56	11.93	165.99	2.00	2.00	0.00
1,200.00	21.60	175.88	1,174.60	-200.66	14.46	201.18	2.00	2.00	0.00
GRRV_B_GROOVE									
1,249.00	22.58	175.88	1,220.00	-219.03	15.78	219.60	2.00	2.00	0.00
1,300.00	23.60	175.88	1,266.92	-238.98	17.22	239.60	2.00	2.00	0.00
13 3/8" Surface Casing									
1,369.21	24.98	175.88	1,330.00	-267.38	19.27	268.08	2.00	2.00	0.00
1,400.00	25.60	175.88	1,357.83	-280.50	20.21	281.23	2.00	2.00	0.00
1,500.00	27.60	175.88	1,447.25	-325.16	23.43	326.00	2.00	2.00	0.00
Start 5081.05 hold at 1522.86 MD									
1,522.86	28.06	175.88	1,467.46	-335.80	24.20	336.68	2.00	2.00	0.00
GRRV DISSOLUTION SURF									
1,593.73	28.06	175.88	1,530.00	-369.05	26.59	370.01	0.00	0.00	0.00
1,600.00	28.06	175.88	1,535.54	-371.99	26.80	372.96	0.00	0.00	0.00
1,700.00	28.06	175.88	1,623.78	-418.91	30.18	419.99	0.00	0.00	0.00
1,800.00	28.06	175.88	1,712.03	-465.82	33.56	467.03	0.00	0.00	0.00
1,900.00	28.06	175.88	1,800.28	-512.73	36.95	514.06	0.00	0.00	0.00
2,000.00	28.06	175.88	1,888.53	-559.65	40.33	561.10	0.00	0.00	0.00
2,100.00	28.06	175.88	1,976.78	-606.56	43.71	608.13	0.00	0.00	0.00
2,200.00	28.06	175.88	2,065.02	-653.48	47.09	655.17	0.00	0.00	0.00
2,300.00	28.06	175.88	2,153.27	-700.39	50.47	702.20	0.00	0.00	0.00
2,400.00	28.06	175.88	2,241.52	-747.30	53.85	749.24	0.00	0.00	0.00
GARDEN_GULCH									
2,420.94	28.06	175.88	2,260.00	-757.13	54.56	759.09	0.00	0.00	0.00
2,500.00	28.06	175.88	2,329.77	-794.22	57.23	796.28	0.00	0.00	0.00
2,600.00	28.06	175.88	2,418.01	-841.13	60.61	843.31	0.00	0.00	0.00
GRRV_ORANGE									
2,647.58	28.06	175.88	2,460.00	-863.45	62.22	865.69	0.00	0.00	0.00
2,700.00	28.06	175.88	2,506.26	-888.04	63.99	890.35	0.00	0.00	0.00
U_WSCH									
2,738.23	28.06	175.88	2,540.00	-905.98	65.28	908.33	0.00	0.00	0.00
2,800.00	28.06	175.88	2,594.51	-934.96	67.37	937.38	0.00	0.00	0.00
2,900.00	28.06	175.88	2,682.76	-981.87	70.75	984.42	0.00	0.00	0.00
3,000.00	28.06	175.88	2,771.01	-1,028.78	74.13	1,031.45	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 523-13-298	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)	
3,100.00	28.06	175.88	2,859.25	-1,075.70	77.51	1,078.49	0.00	0.00	0.00	
3,200.00	28.06	175.88	2,947.50	-1,122.61	80.89	1,125.52	0.00	0.00	0.00	
3,300.00	28.06	175.88	3,035.75	-1,169.53	84.27	1,172.56	0.00	0.00	0.00	
9 5/8" Intermediate Casing										
3,304.82	28.06	175.88	3,040.00	-1,171.79	84.43	1,174.82	0.00	0.00	0.00	
3,400.00	28.06	175.88	3,124.00	-1,216.44	87.65	1,219.59	0.00	0.00	0.00	
3,500.00	28.06	175.88	3,212.24	-1,263.35	91.03	1,266.63	0.00	0.00	0.00	
3,600.00	28.06	175.88	3,300.49	-1,310.27	94.41	1,313.66	0.00	0.00	0.00	
3,700.00	28.06	175.88	3,388.74	-1,357.18	97.79	1,360.70	0.00	0.00	0.00	
3,800.00	28.06	175.88	3,476.99	-1,404.09	101.17	1,407.73	0.00	0.00	0.00	
3,900.00	28.06	175.88	3,565.24	-1,451.01	104.55	1,454.77	0.00	0.00	0.00	
4,000.00	28.06	175.88	3,653.48	-1,497.92	107.93	1,501.81	0.00	0.00	0.00	
4,100.00	28.06	175.88	3,741.73	-1,544.84	111.31	1,548.84	0.00	0.00	0.00	
4,200.00	28.06	175.88	3,829.98	-1,591.75	114.69	1,595.88	0.00	0.00	0.00	
4,300.00	28.06	175.88	3,918.23	-1,638.66	118.07	1,642.91	0.00	0.00	0.00	
4,400.00	28.06	175.88	4,006.47	-1,685.58	121.46	1,689.95	0.00	0.00	0.00	
4,500.00	28.06	175.88	4,094.72	-1,732.49	124.84	1,736.98	0.00	0.00	0.00	
4,600.00	28.06	175.88	4,182.97	-1,779.40	128.22	1,784.02	0.00	0.00	0.00	
4,700.00	28.06	175.88	4,271.22	-1,826.32	131.60	1,831.05	0.00	0.00	0.00	
4,800.00	28.06	175.88	4,359.47	-1,873.23	134.98	1,878.09	0.00	0.00	0.00	
4,900.00	28.06	175.88	4,447.71	-1,920.15	138.36	1,925.12	0.00	0.00	0.00	
5,000.00	28.06	175.88	4,535.96	-1,967.06	141.74	1,972.16	0.00	0.00	0.00	
5,100.00	28.06	175.88	4,624.21	-2,013.97	145.12	2,019.19	0.00	0.00	0.00	
G_SAND										
5,185.88	28.06	175.88	4,700.00	-2,054.26	148.02	2,059.59	0.00	0.00	0.00	
5,200.00	28.06	175.88	4,712.46	-2,060.89	148.50	2,066.23	0.00	0.00	0.00	
5,300.00	28.06	175.88	4,800.71	-2,107.80	151.88	2,113.26	0.00	0.00	0.00	
5,400.00	28.06	175.88	4,888.95	-2,154.71	155.26	2,160.30	0.00	0.00	0.00	
5,500.00	28.06	175.88	4,977.20	-2,201.63	158.64	2,207.34	0.00	0.00	0.00	
5,600.00	28.06	175.88	5,065.45	-2,248.54	162.02	2,254.37	0.00	0.00	0.00	
FRUN										
5,656.15	28.06	175.88	5,115.00	-2,274.88	163.92	2,280.78	0.00	0.00	0.00	
5,700.00	28.06	175.88	5,153.70	-2,295.45	165.40	2,301.41	0.00	0.00	0.00	
5,800.00	28.06	175.88	5,241.94	-2,342.37	168.78	2,348.44	0.00	0.00	0.00	
5,900.00	28.06	175.88	5,330.19	-2,389.28	172.16	2,395.48	0.00	0.00	0.00	
6,000.00	28.06	175.88	5,418.44	-2,436.20	175.54	2,442.51	0.00	0.00	0.00	
6,100.00	28.06	175.88	5,506.69	-2,483.11	178.92	2,489.55	0.00	0.00	0.00	
6,200.00	28.06	175.88	5,594.94	-2,530.02	182.30	2,536.58	0.00	0.00	0.00	
6,300.00	28.06	175.88	5,683.18	-2,576.94	185.68	2,583.62	0.00	0.00	0.00	
6,400.00	28.06	175.88	5,771.43	-2,623.85	189.06	2,630.65	0.00	0.00	0.00	
6,500.00	28.06	175.88	5,859.68	-2,670.76	192.44	2,677.69	0.00	0.00	0.00	
L_WSCH										
6,545.69	28.06	175.88	5,900.00	-2,692.20	193.99	2,699.18	0.00	0.00	0.00	
Start Drop -1.50										
6,603.92	28.06	175.88	5,951.38	-2,719.52	195.96	2,726.57	0.00	0.00	0.00	
6,700.00	26.62	175.88	6,036.73	-2,763.52	199.13	2,770.69	1.50	-1.50	0.00	
6,800.00	25.12	175.88	6,126.71	-2,807.04	202.26	2,814.31	1.50	-1.50	0.00	
6,900.00	23.62	175.88	6,217.80	-2,848.18	205.23	2,855.57	1.50	-1.50	0.00	
OCRK										
6,911.12	23.45	175.88	6,228.00	-2,852.61	205.55	2,860.01	1.50	-1.50	0.00	
7,000.00	22.12	175.88	6,309.94	-2,886.94	208.02	2,894.43	1.50	-1.50	0.00	
7,100.00	20.62	175.88	6,403.07	-2,923.28	210.64	2,930.86	1.50	-1.50	0.00	
7,200.00	19.12	175.88	6,497.11	-2,957.17	213.08	2,964.84	1.50	-1.50	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 523-13-298	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)
7,300.00	17.62	175.88	6,592.02	-2,988.60	215.35	2,996.35	1.50	-1.50	0.00
7,400.00	16.12	175.88	6,687.71	-3,017.54	217.43	3,025.36	1.50	-1.50	0.00
7,500.00	14.62	175.88	6,784.14	-3,043.96	219.33	3,051.86	1.50	-1.50	0.00
7,600.00	13.12	175.88	6,881.22	-3,067.87	221.06	3,075.82	1.50	-1.50	0.00
U_MVRD									
7,668.43	12.09	175.88	6,948.00	-3,082.76	222.13	3,090.75	1.50	-1.50	0.00
7,700.00	11.62	175.88	6,978.90	-3,089.23	222.60	3,097.24	1.50	-1.50	0.00
7,800.00	10.12	175.88	7,077.10	-3,108.03	223.95	3,116.09	1.50	-1.50	0.00
7,900.00	8.62	175.88	7,175.76	-3,124.26	225.12	3,132.36	1.50	-1.50	0.00
8,000.00	7.12	175.88	7,274.82	-3,137.91	226.10	3,146.04	1.50	-1.50	0.00
8,100.00	5.62	175.88	7,374.20	-3,148.97	226.90	3,157.13	1.50	-1.50	0.00
8,200.00	4.12	175.88	7,473.84	-3,157.43	227.51	3,165.61	1.50	-1.50	0.00
8,300.00	2.62	175.88	7,573.66	-3,163.28	227.93	3,171.49	1.50	-1.50	0.00
8,400.00	1.12	175.88	7,673.61	-3,166.53	228.17	3,174.74	1.50	-1.50	0.00
Start 3780.00 hold at 8474.40 MD - TOP GAS									
8,474.40	0.00	0.00	7,748.00	-3,167.25	228.22	3,175.47	1.50	-1.50	0.00
8,500.00	0.00	0.00	7,773.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
8,600.00	0.00	0.00	7,873.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
8,700.00	0.00	0.00	7,973.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
8,800.00	0.00	0.00	8,073.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
8,900.00	0.00	0.00	8,173.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,000.00	0.00	0.00	8,273.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,100.00	0.00	0.00	8,373.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,200.00	0.00	0.00	8,473.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,300.00	0.00	0.00	8,573.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,400.00	0.00	0.00	8,673.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,500.00	0.00	0.00	8,773.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,600.00	0.00	0.00	8,873.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,700.00	0.00	0.00	8,973.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,800.00	0.00	0.00	9,073.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
9,900.00	0.00	0.00	9,173.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,000.00	0.00	0.00	9,273.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
CME0									
10,044.40	0.00	0.00	9,318.00	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,100.00	0.00	0.00	9,373.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,200.00	0.00	0.00	9,473.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,300.00	0.00	0.00	9,573.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,400.00	0.00	0.00	9,673.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,500.00	0.00	0.00	9,773.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,600.00	0.00	0.00	9,873.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,700.00	0.00	0.00	9,973.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
RLNS									
10,774.40	0.00	0.00	10,048.00	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,800.00	0.00	0.00	10,073.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
10,900.00	0.00	0.00	10,173.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
CZZT									
10,924.40	0.00	0.00	10,198.00	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
11,000.00	0.00	0.00	10,273.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
11,100.00	0.00	0.00	10,373.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
11,200.00	0.00	0.00	10,473.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
CRCN									
11,249.40	0.00	0.00	10,523.00	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
11,300.00	0.00	0.00	10,573.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 523-13-298 - Slot RG 523-13-298
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 523-13-298	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)
11,400.00	0.00	0.00	10,673.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
11,500.00	0.00	0.00	10,773.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
SEGO									
11,509.40	0.00	0.00	10,783.00	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
11,600.00	0.00	0.00	10,873.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
11,700.00	0.00	0.00	10,973.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
SEGO_LOWER									
11,754.40	0.00	0.00	11,028.00	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
11,800.00	0.00	0.00	11,073.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
11,900.00	0.00	0.00	11,173.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
12,000.00	0.00	0.00	11,273.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
12,100.00	0.00	0.00	11,373.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
12,200.00	0.00	0.00	11,473.60	-3,167.25	228.22	3,175.47	0.00	0.00	0.00
TD at 12254.40 - TD									
12,254.40	0.00	0.00	11,528.00	-3,167.25	228.22	3,175.47	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 523-13-298 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	7,748.00	-3,167.25	228.22	1,755,543.12	2,201,362.75	39.873438	-108.345760
RG 523-13-298 - PBHL - plan hits target center - Point	0.00	0.00	11,528.00	-3,167.25	228.22	1,755,543.12	2,201,362.75	39.873438	-108.345760

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,369.21	1,330.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,304.82	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 523-13-298 - Slot RG 523-13-298
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 523-13-298	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				
889.21	880.00	GRRV				
1,046.04	1,030.00	GRRV_A_GROOVE				
1,249.00	1,220.00	GRRV_B_GROOVE				
1,593.73	1,530.00	GRRV_DISSOLUTION_SURF				
2,420.94	2,260.00	GARDEN_GULCH				
2,647.58	2,460.00	GRRV_ORANGE				
2,738.23	2,540.00	U_WSCH				
5,185.88	4,700.00	G_SAND				
5,656.15	5,115.00	FRUN				
6,545.69	5,900.00	L_WSCH				
6,911.12	6,228.00	OCRK				
7,668.43	6,948.00	U_MVRD				
8,474.40	7,748.00	TOP GAS				
10,044.40	9,318.00	CMEO				
10,774.40	10,048.00	RLNS				
10,924.40	10,198.00	CZZT				
11,249.40	10,523.00	CRCN				
11,509.40	10,783.00	SEGO				
11,754.40	11,028.00	SEGO_LOWER				
12,254.40	11,528.00	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	
1,522.86	1,467.46	-335.80	24.20	Start 5081.05 hold at 1522.86 MD	
6,603.92	5,951.38	-2,719.52	195.96	Start Drop -1.50	
8,474.40	7,748.00	-3,167.25	228.22	Start 3780.00 hold at 8474.40 MD	
12,254.40	11,528.00	-3,167.25	228.22	TD at 12254.40	