

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 14-18-297 - Slot (A5) RG 14-18-297, True North
Vertical (TVD) Reference: KB=30' @ 6697.00usft (H&P #329)
Section (VS) Reference: Slot - (A5) RG 14-18-297(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 14-18-297 - VP	8007.00	-95.62	2085.05	1754710.00	2205623.98	39.871518	-108.330493	Circle (Radius: 100.00)
RG 14-18-297 - PBHL	11787.00	-95.62	2085.05	1754710.00	2205623.98	39.871518	-108.330493	Point

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
180.00	0.00	0.00	180.00	0.00	0.00	0.00	0.00	Start Build 2.00
1029.87	17.00	92.63	1017.46	-5.73	125.01	125.14	125.14	Start 6141.18 hold at 1029.87 MD
7171.06	17.00	92.63	6890.38	-87.98	1918.37	1920.39	1920.39	Start Drop -1.50
8304.22	0.00	0.00	8007.00	-95.62	2085.05	2087.25	2087.25	Start 3780.00 hold at 8304.22 MD
12084.22	0.00	0.00	11787.00	-95.62	2085.05	2087.25	2087.25	TD at 12084.22

WELL DETAILS: RG 14-18-297

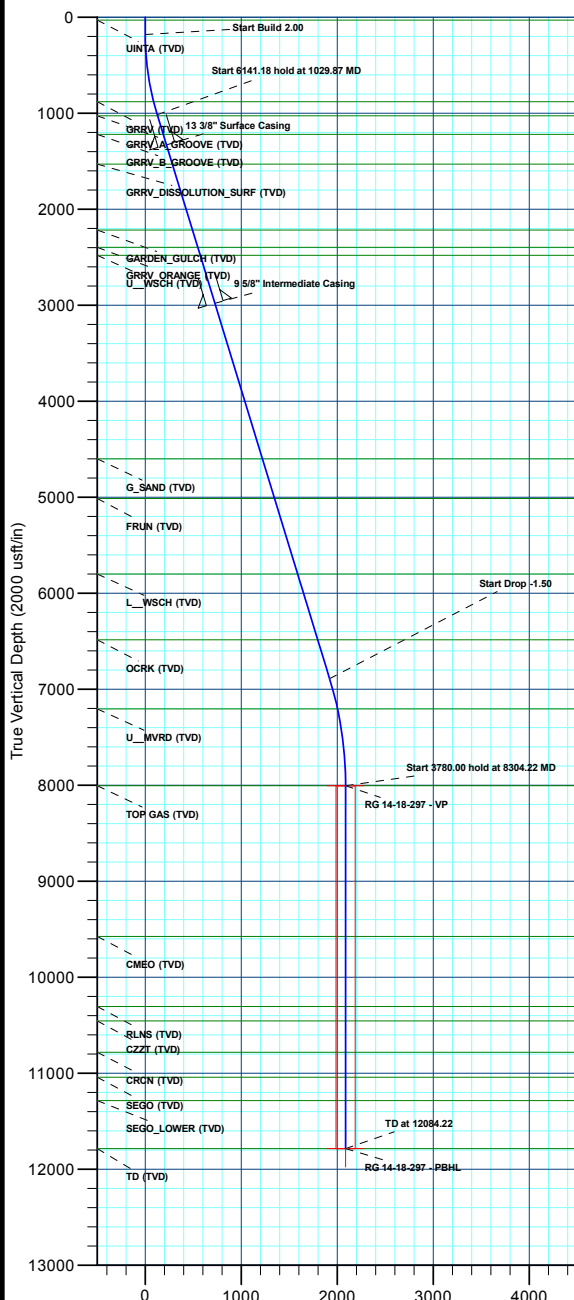
+N/-S	+E/-W	Northing	Ground Elev.	Latitude	Longitude	Slot
0.00	0.00	1754870.70	6667.00	39.871781	-108.337921	(A5) RG 14-18-297

CASING DETAILS

TVD	MD	Name	Size
1330.00	1356.69	13 3/8" Surface Casing	13-3/8
2980.00	3082.08	5/8" Intermediate Casing	9-5/8

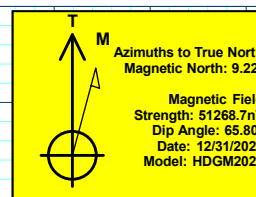
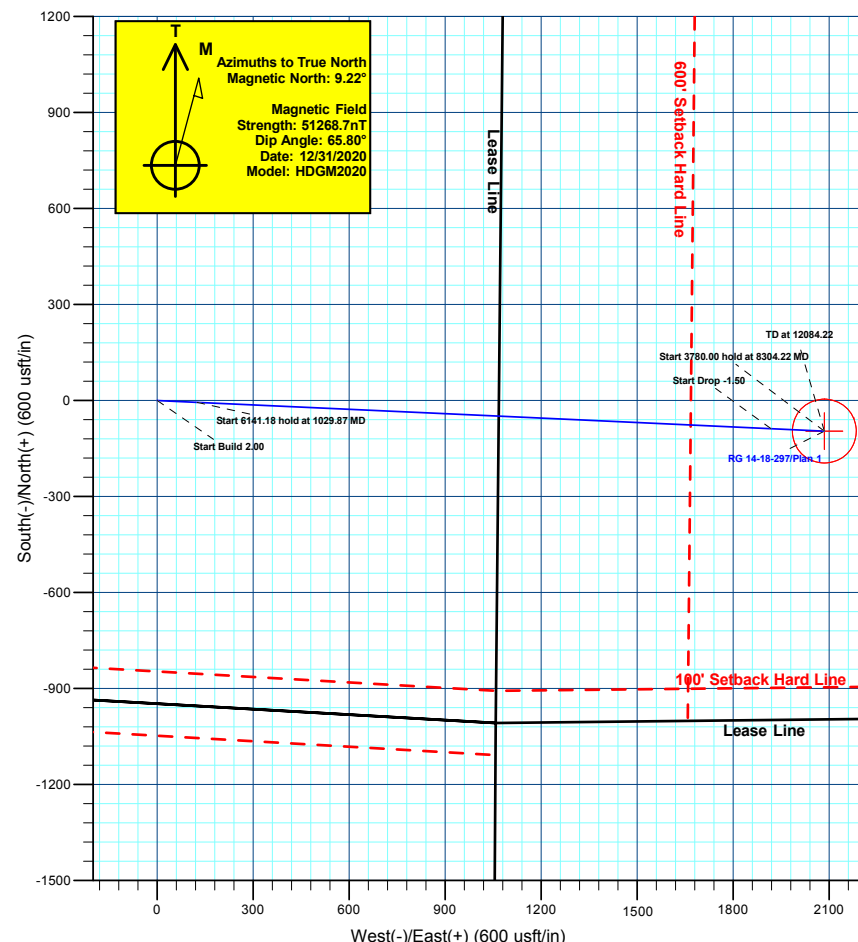
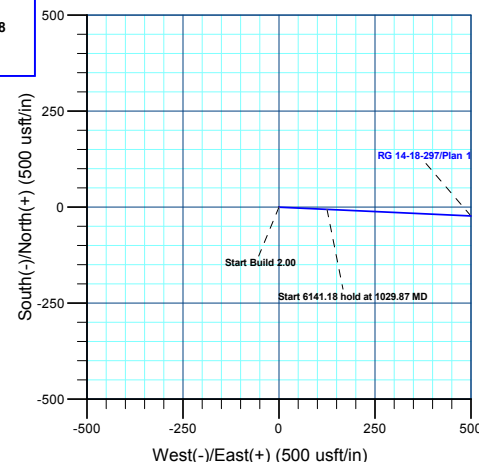
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	UINTA (TVD)
880.00	887.16	GRRV (TVD)
1030.00	1042.98	GRRV_A_GROOVE (TVD)
1220.00	1241.66	GRRV_B_GROOVE (TVD)
1530.00	1565.82	GRRV_DISSOLUTION_SURF (TVD)
2220.00	2287.34	GARDEN_GULCH (TVD)
2400.00	2475.56	GRRV_ORANGE (TVD)
2480.00	2559.22	U_WSCH (TVD)
4600.00	4776.05	G_SAND (TVD)
5015.00	5210.01	FRUN (TVD)
5800.00	6030.87	L_WSCH (TVD)
6487.00	6749.25	OCRK (TVD)
7207.00	7498.25	U_MVRD (TVD)
8007.00	8304.22	TOP GAS (TVD)
9577.00	9874.22	CMEO (TVD)
10307.00	10604.22	RLNS (TVD)
10457.00	10754.22	CZZT (TVD)
10782.00	11079.22	CRCN (TVD)
11042.00	11339.22	SEGO (TVD)
11287.00	11584.22	SEGO_LOWER (TVD)
11787.00	12084.22	TD (TVD)



Plan: Plan 1 (RG 14-18-297/Wellbore #1)

Created By: Chase Chambers Date: 11:09, March 14 2022





Terra Energy Partners, LLP

Rio Blanco County, CO

Fed 298-13-1 Pad

RG 14-18-297 - Slot (A5) RG 14-18-297

Wellbore #1

Plan: Plan 1

KLX Well Planning Report

14 March, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 14-18-297 - Slot (A5) RG 14-18-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6697.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6697.00usft (H&P #329)
Site:	Fed 298-13-1 Pad	North Reference:	True
Well:	RG 14-18-297	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		Fed 298-13-1 Pad			
Site Position:		Northing:	1,754,850.43 usft	Latitude:	39.871723
From:	Map	Easting:	2,203,520.82 usft	Longitude:	-108.337998
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.79 °

Well	RG 14-18-297 - Slot (A5) RG 14-18-297					
Well Position	+N/-S	20.95 usft	Northing:	1,754,870.70 usft	Latitude:	39.871781
	+E/-W	21.47 usft	Easting:	2,203,542.93 usft	Longitude:	-108.337921
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,667.00 usft

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

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	92.63

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	
180.00	0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,029.87	17.00	92.63	1,017.46	-5.73	125.01	2.00	2.00	0.00	92.63	
7,171.06	17.00	92.63	6,890.38	-87.98	1,918.37	0.00	0.00	0.00	0.00	
8,304.22	0.00	0.00	8,007.00	-95.62	2,085.05	1.50	-1.50	0.00	180.00	RG 14-18-297 - VP
12,084.22	0.00	0.00	11,787.00	-95.62	2,085.05	0.00	0.00	0.00	0.00	RG 14-18-297 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 14-18-297 - Slot (A5) RG 14-18-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6697.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6697.00usft (H&P #329)
Site:	Fed 298-13-1 Pad	North Reference:	True
Well:	RG 14-18-297	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 (TVD)									
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									
180.00	0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.40	92.63	200.00	0.00	0.07	0.07	2.00	2.00	0.00
300.00	2.40	92.63	299.96	-0.12	2.51	2.51	2.00	2.00	0.00
400.00	4.40	92.63	399.78	-0.39	8.43	8.44	2.00	2.00	0.00
500.00	6.40	92.63	499.33	-0.82	17.83	17.85	2.00	2.00	0.00
600.00	8.40	92.63	598.50	-1.41	30.70	30.73	2.00	2.00	0.00
700.00	10.40	92.63	697.15	-2.16	47.01	47.06	2.00	2.00	0.00
800.00	12.40	92.63	795.17	-3.06	66.76	66.83	2.00	2.00	0.00
GRRV (TVD)									
887.16	14.14	92.63	880.00	-3.98	86.75	86.84	2.00	2.00	0.00
900.00	14.40	92.63	892.44	-4.12	89.91	90.00	2.00	2.00	0.00
1,000.00	16.40	92.63	988.85	-5.34	116.43	116.56	2.00	2.00	0.00
Start 6141.18 hold at 1029.87 MD									
1,029.87	17.00	92.63	1,017.46	-5.73	125.01	125.14	2.00	2.00	0.00
GRRV_A_GROOVE (TVD)									
1,042.98	17.00	92.63	1,030.00	-5.91	128.84	128.97	0.00	0.00	0.00
1,100.00	17.00	92.63	1,084.53	-6.67	145.49	145.64	0.00	0.00	0.00
1,200.00	17.00	92.63	1,180.16	-8.01	174.69	174.87	0.00	0.00	0.00
GRRV_B_GROOVE (TVD)									
1,241.66	17.00	92.63	1,220.00	-8.57	186.86	187.05	0.00	0.00	0.00
1,300.00	17.00	92.63	1,275.79	-9.35	203.89	204.11	0.00	0.00	0.00
13 3/8" Surface Casing									
1,356.69	17.00	92.63	1,330.00	-10.11	220.45	220.68	0.00	0.00	0.00
1,400.00	17.00	92.63	1,371.42	-10.69	233.09	233.34	0.00	0.00	0.00
1,500.00	17.00	92.63	1,467.05	-12.03	262.30	262.57	0.00	0.00	0.00
GRRV DISSOLUTION_SURF (TVD)									
1,565.82	17.00	92.63	1,530.00	-12.91	281.52	281.81	0.00	0.00	0.00
1,600.00	17.00	92.63	1,562.68	-13.37	291.50	291.81	0.00	0.00	0.00
1,700.00	17.00	92.63	1,658.32	-14.71	320.70	321.04	0.00	0.00	0.00
1,800.00	17.00	92.63	1,753.95	-16.05	349.90	350.27	0.00	0.00	0.00
1,900.00	17.00	92.63	1,849.58	-17.39	379.11	379.50	0.00	0.00	0.00
2,000.00	17.00	92.63	1,945.21	-18.73	408.31	408.74	0.00	0.00	0.00
2,100.00	17.00	92.63	2,040.84	-20.06	437.51	437.97	0.00	0.00	0.00
2,200.00	17.00	92.63	2,136.47	-21.40	466.71	467.20	0.00	0.00	0.00
GARDEN_GULCH (TVD)									
2,287.34	17.00	92.63	2,220.00	-22.57	492.22	492.74	0.00	0.00	0.00
2,300.00	17.00	92.63	2,232.11	-22.74	495.92	496.44	0.00	0.00	0.00
2,400.00	17.00	92.63	2,327.74	-24.08	525.12	525.67	0.00	0.00	0.00
GRRV_ORANGE (TVD)									
2,475.56	17.00	92.63	2,400.00	-25.09	547.18	547.76	0.00	0.00	0.00
2,500.00	17.00	92.63	2,423.37	-25.42	554.32	554.90	0.00	0.00	0.00
U_WSCH (TVD)									
2,559.22	17.00	92.63	2,480.00	-26.22	571.61	572.21	0.00	0.00	0.00
2,600.00	17.00	92.63	2,519.00	-26.76	583.52	584.14	0.00	0.00	0.00
2,700.00	17.00	92.63	2,614.63	-28.10	612.72	613.37	0.00	0.00	0.00
2,800.00	17.00	92.63	2,710.27	-29.44	641.93	642.60	0.00	0.00	0.00
2,900.00	17.00	92.63	2,805.90	-30.78	671.13	671.83	0.00	0.00	0.00
3,000.00	17.00	92.63	2,901.53	-32.12	700.33	701.07	0.00	0.00	0.00

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Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6697.00usft (H&P #329)
Site:	Fed 298-13-1 Pad	North Reference:	True
Well:	RG 14-18-297	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)
9 5/8" Intermediate Casing									
3,082.06	17.00	92.63	2,980.00	-33.22	724.29	725.05	0.00	0.00	0.00
3,100.00	17.00	92.63	2,997.16	-33.46	729.53	730.30	0.00	0.00	0.00
3,200.00	17.00	92.63	3,092.79	-34.80	758.74	759.53	0.00	0.00	0.00
3,300.00	17.00	92.63	3,188.42	-36.14	787.94	788.77	0.00	0.00	0.00
3,400.00	17.00	92.63	3,284.06	-37.48	817.14	818.00	0.00	0.00	0.00
3,500.00	17.00	92.63	3,379.69	-38.81	846.34	847.23	0.00	0.00	0.00
3,600.00	17.00	92.63	3,475.32	-40.15	875.54	876.47	0.00	0.00	0.00
3,700.00	17.00	92.63	3,570.95	-41.49	904.75	905.70	0.00	0.00	0.00
3,800.00	17.00	92.63	3,666.58	-42.83	933.95	934.93	0.00	0.00	0.00
3,900.00	17.00	92.63	3,762.21	-44.17	963.15	964.16	0.00	0.00	0.00
4,000.00	17.00	92.63	3,857.85	-45.51	992.35	993.40	0.00	0.00	0.00
4,100.00	17.00	92.63	3,953.48	-46.85	1,021.56	1,022.63	0.00	0.00	0.00
4,200.00	17.00	92.63	4,049.11	-48.19	1,050.76	1,051.86	0.00	0.00	0.00
4,300.00	17.00	92.63	4,144.74	-49.53	1,079.96	1,081.10	0.00	0.00	0.00
4,400.00	17.00	92.63	4,240.37	-50.87	1,109.16	1,110.33	0.00	0.00	0.00
4,500.00	17.00	92.63	4,336.01	-52.21	1,138.37	1,139.56	0.00	0.00	0.00
4,600.00	17.00	92.63	4,431.64	-53.55	1,167.57	1,168.80	0.00	0.00	0.00
4,700.00	17.00	92.63	4,527.27	-54.89	1,196.77	1,198.03	0.00	0.00	0.00
G_SAND (TVD)									
4,776.05	17.00	92.63	4,600.00	-55.90	1,218.98	1,220.26	0.00	0.00	0.00
4,800.00	17.00	92.63	4,622.90	-56.23	1,225.97	1,227.26	0.00	0.00	0.00
4,900.00	17.00	92.63	4,718.53	-57.56	1,255.17	1,256.49	0.00	0.00	0.00
5,000.00	17.00	92.63	4,814.16	-58.90	1,284.38	1,285.73	0.00	0.00	0.00
5,100.00	17.00	92.63	4,909.80	-60.24	1,313.58	1,314.96	0.00	0.00	0.00
5,200.00	17.00	92.63	5,005.43	-61.58	1,342.78	1,344.19	0.00	0.00	0.00
FRUN (TVD)									
5,210.01	17.00	92.63	5,015.00	-61.72	1,345.70	1,347.12	0.00	0.00	0.00
5,300.00	17.00	92.63	5,101.06	-62.92	1,371.98	1,373.43	0.00	0.00	0.00
5,400.00	17.00	92.63	5,196.69	-64.26	1,401.19	1,402.66	0.00	0.00	0.00
5,500.00	17.00	92.63	5,292.32	-65.60	1,430.39	1,431.89	0.00	0.00	0.00
5,600.00	17.00	92.63	5,387.95	-66.94	1,459.59	1,461.12	0.00	0.00	0.00
5,700.00	17.00	92.63	5,483.59	-68.28	1,488.79	1,490.36	0.00	0.00	0.00
5,800.00	17.00	92.63	5,579.22	-69.62	1,518.00	1,519.59	0.00	0.00	0.00
5,900.00	17.00	92.63	5,674.85	-70.96	1,547.20	1,548.82	0.00	0.00	0.00
6,000.00	17.00	92.63	5,770.48	-72.30	1,576.40	1,578.06	0.00	0.00	0.00
L_WSCH (TVD)									
6,030.87	17.00	92.63	5,800.00	-72.71	1,585.41	1,587.08	0.00	0.00	0.00
6,100.00	17.00	92.63	5,866.11	-73.64	1,605.60	1,607.29	0.00	0.00	0.00
6,200.00	17.00	92.63	5,961.75	-74.97	1,634.80	1,636.52	0.00	0.00	0.00
6,300.00	17.00	92.63	6,057.38	-76.31	1,664.01	1,665.76	0.00	0.00	0.00
6,400.00	17.00	92.63	6,153.01	-77.65	1,693.21	1,694.99	0.00	0.00	0.00
6,500.00	17.00	92.63	6,248.64	-78.99	1,722.41	1,724.22	0.00	0.00	0.00
6,600.00	17.00	92.63	6,344.27	-80.33	1,751.61	1,753.45	0.00	0.00	0.00
6,700.00	17.00	92.63	6,439.90	-81.67	1,780.82	1,782.69	0.00	0.00	0.00
OCRK (TVD)									
6,749.25	17.00	92.63	6,487.00	-82.33	1,795.20	1,797.08	0.00	0.00	0.00
6,800.00	17.00	92.63	6,535.54	-83.01	1,810.02	1,811.92	0.00	0.00	0.00
6,900.00	17.00	92.63	6,631.17	-84.35	1,839.22	1,841.15	0.00	0.00	0.00
7,000.00	17.00	92.63	6,726.80	-85.69	1,868.42	1,870.39	0.00	0.00	0.00
7,100.00	17.00	92.63	6,822.43	-87.03	1,897.63	1,899.62	0.00	0.00	0.00
Start Drop -1.50									
7,171.06	17.00	92.63	6,890.38	-87.98	1,918.37	1,920.39	0.00	0.00	0.00

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Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6697.00usft (H&P #329)
Site:	Fed 298-13-1 Pad	North Reference:	True
Well:	RG 14-18-297	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	16.56	92.63	6,918.09	-88.36	1,926.72	1,928.75	1.50	-1.50	0.00	
7,300.00	15.06	92.63	7,014.31	-89.61	1,953.94	1,956.00	1.50	-1.50	0.00	
7,400.00	13.56	92.63	7,111.20	-90.74	1,978.64	1,980.72	1.50	-1.50	0.00	
U_MVRD (TVD)										
7,498.25	12.09	92.63	7,207.00	-91.74	2,000.43	2,002.53	1.50	-1.50	0.00	
7,500.00	12.06	92.63	7,208.71	-91.76	2,000.79	2,002.90	1.50	-1.50	0.00	
7,600.00	10.56	92.63	7,306.76	-92.66	2,020.39	2,022.51	1.50	-1.50	0.00	
7,700.00	9.06	92.63	7,405.30	-93.44	2,037.41	2,039.56	1.50	-1.50	0.00	
7,800.00	7.56	92.63	7,504.24	-94.10	2,051.86	2,054.01	1.50	-1.50	0.00	
7,900.00	6.06	92.63	7,603.53	-94.65	2,063.71	2,065.88	1.50	-1.50	0.00	
8,000.00	4.56	92.63	7,703.10	-95.07	2,072.96	2,075.14	1.50	-1.50	0.00	
8,100.00	3.06	92.63	7,802.88	-95.37	2,079.60	2,081.79	1.50	-1.50	0.00	
8,200.00	1.56	92.63	7,902.79	-95.56	2,083.63	2,085.82	1.50	-1.50	0.00	
Start 3780.00 hold at 8304.22 MD - TOP GAS (TVD)										
8,304.22	0.00	0.00	8,007.00	-95.62	2,085.05	2,087.25	1.50	-1.50	0.00	
8,400.00	0.00	0.00	8,102.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,202.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,302.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,402.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,502.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,602.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,702.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,802.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,200.00	0.00	0.00	8,902.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,002.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,102.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,202.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,302.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,402.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,502.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
CMEQ (TVD)										
9,874.22	0.00	0.00	9,577.00	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,602.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,702.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,802.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,200.00	0.00	0.00	9,902.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,002.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,102.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,202.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,302.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
RLNS (TVD)										
10,604.22	0.00	0.00	10,307.00	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,402.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
CZZT (TVD)										
10,754.22	0.00	0.00	10,457.00	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,502.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,602.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,702.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
CRCN (TVD)										
11,079.22	0.00	0.00	10,782.00	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
11,100.00	0.00	0.00	10,802.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
11,200.00	0.00	0.00	10,902.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,002.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 14-18-297 - Slot (A5) RG 14-18-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6697.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6697.00usft (H&P #329)
Site:	Fed 298-13-1 Pad	North Reference:	True
Well:	RG 14-18-297	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 (TVD)									
11,339.22	0.00	0.00	11,042.00	-95.62	2,085.05	2,087.25	0.00	0.00	0.00
11,400.00	0.00	0.00	11,102.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00
11,500.00	0.00	0.00	11,202.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00
SEGO_LOWER (TVD)									
11,584.22	0.00	0.00	11,287.00	-95.62	2,085.05	2,087.25	0.00	0.00	0.00
11,600.00	0.00	0.00	11,302.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00
11,700.00	0.00	0.00	11,402.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00
11,800.00	0.00	0.00	11,502.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00
11,900.00	0.00	0.00	11,602.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00
12,000.00	0.00	0.00	11,702.78	-95.62	2,085.05	2,087.25	0.00	0.00	0.00
TD at 12084.22 - TD (TVD)									
12,084.22	0.00	0.00	11,787.00	-95.62	2,085.05	2,087.25	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 14-18-297 - VP - plan hits target center - Circle (radius 100.00)	0.00	0.00	8,007.00	-95.62	2,085.05	1,754,710.00	2,205,623.98	39.871518	-108.330493
RG 14-18-297 - PBHL - plan hits target center - Point	0.00	0.00	11,787.00	-95.62	2,085.05	1,754,710.00	2,205,623.98	39.871518	-108.330493

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,356.69	1,330.00	13 3/8" Surface Casing	13-3/8	17-1/2	
3,082.06	2,980.00	9 5/8" Intermediate Casing	9-5/8	12-1/4	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 14-18-297 - Slot (A5) RG 14-18-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6697.00usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6697.00usft (H&P #329)
Site:	Fed 298-13-1 Pad	North Reference:	True
Well:	RG 14-18-297	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 (TVD)				
887.16	880.00	GRRV (TVD)				
1,042.98	1,030.00	GRRV_A_GROOVE (TVD)				
1,241.66	1,220.00	GRRV_B_GROOVE (TVD)				
1,565.82	1,530.00	GRRV_DISSOLUTION_SURF (TVD)				
2,287.34	2,220.00	GARDEN_GULCH (TVD)				
2,475.56	2,400.00	GRRV_ORANGE (TVD)				
2,559.22	2,480.00	U__WSCH (TVD)				
4,776.05	4,600.00	G_SAND (TVD)				
5,210.01	5,015.00	FRUN (TVD)				
6,030.87	5,800.00	L__WSCH (TVD)				
6,749.25	6,487.00	OCRK (TVD)				
7,498.25	7,207.00	U__MVRD (TVD)				
8,304.22	8,007.00	TOP GAS (TVD)				
9,874.22	9,577.00	CMEQ (TVD)				
10,604.22	10,307.00	RLNS (TVD)				
10,754.22	10,457.00	CZZT (TVD)				
11,079.22	10,782.00	CRCN (TVD)				
11,339.22	11,042.00	SEGO (TVD)				
11,584.22	11,287.00	SEGO_LOWER (TVD)				
12,084.22	11,787.00	TD (TVD)				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
180.00	180.00	0.00	0.00	Start Build 2.00	
1,029.87	1,017.46	-5.73	125.01	Start 6141.18 hold at 1029.87 MD	
7,171.06	6,890.38	-87.98	1,918.37	Start Drop -1.50	
8,304.22	8,007.00	-95.62	2,085.05	Start 3780.00 hold at 8304.22 MD	
12,084.22	11,787.00	-95.62	2,085.05	TD at 12084.22	