



Company: TEP Rocky Mountain LLC
Project: Garfield County, CO NAD83
Site: RGU 23-7-297 Pad
Well: Federal RG 511-18-297

PROJECT DETAILS: Garfield County, CO NAD83

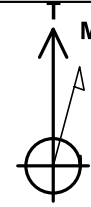
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone

System Datum: Mean Sea Level

Plan: Plan #2 7April2020 SB-SDI

Well Details: Federal RG 511-18-297

+N/-S +E/-W Northing Easting Longitude
0.00 0.00 1760872.4000 2206247.7000 39.8884792 -108.3289554 RGU 511-18-297

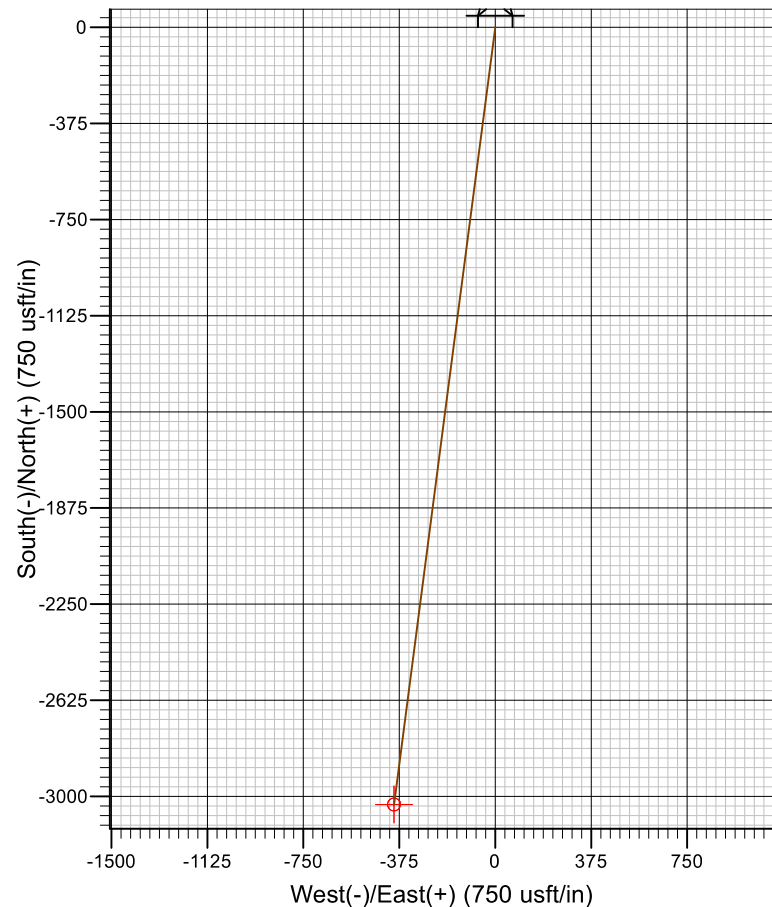
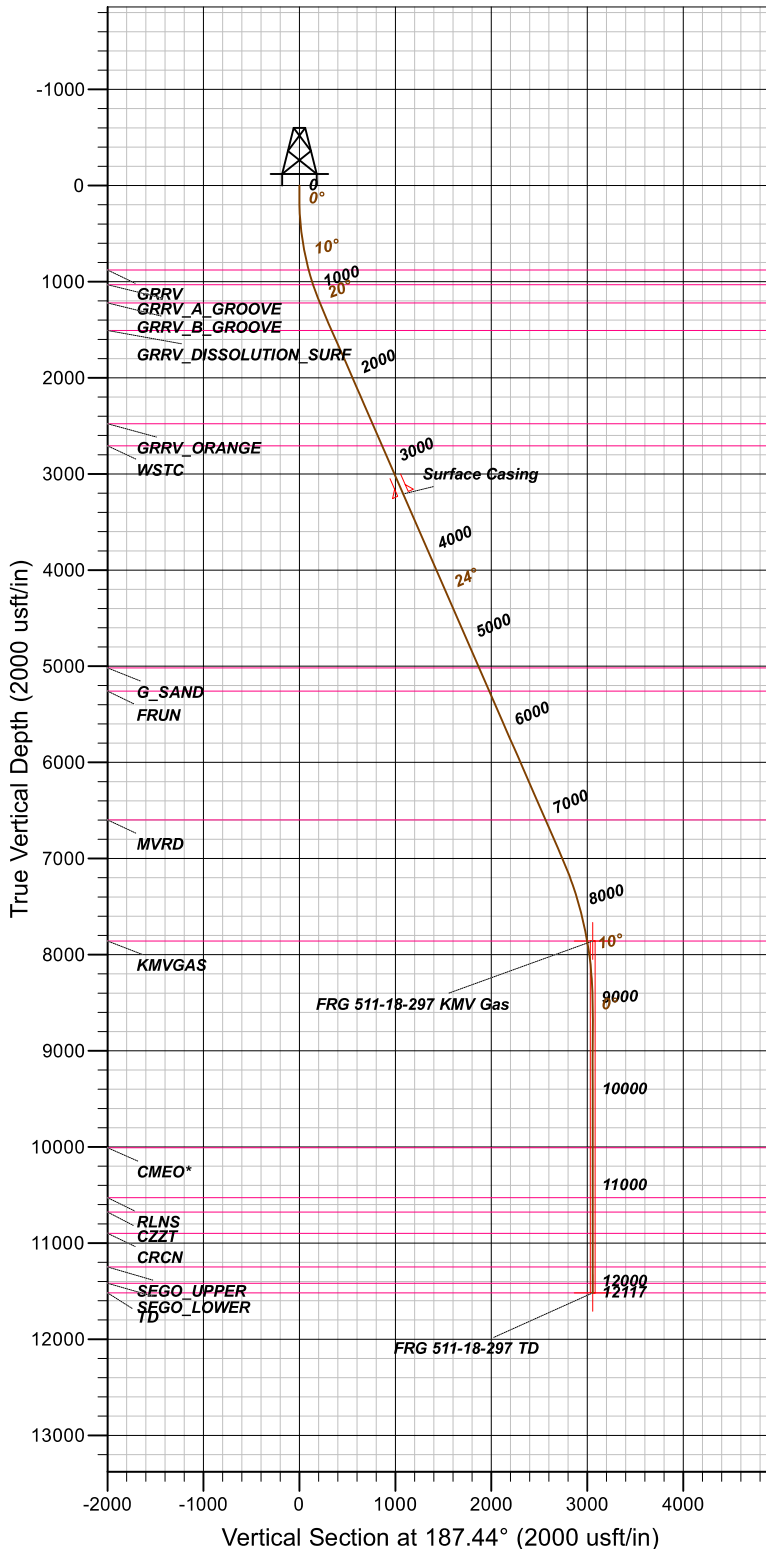


Azimuths to True North
Magnetic North: 9.28°

Magnetic Field
Strength: 51354.1nT
Dip Angle: 65.83°
Date: 4/7/2020
Model: HDGM_FILE

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
FRG 511-18-297 KMV Gas	7857.00	-3031.59	-395.80	1757854.6000	2205757.7000	39.8801572	-108.3303657	Circle (Radius: 25.00)
- plan misses target center by 57.16usft at 8463.22usft MD (7866.58 TVD, -2975.71 N, -388.51 E)								
FRG 511-18-297 TD	11517.00	-3031.59	-395.80	1757854.6000	2205757.7000	39.8801572	-108.3303657	Point
- plan hits target center								



FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
877.00	885.56	GRRV
1032.00	1047.34	GRRV_A_GROOVE
1222.00	1249.93	GRRV_B_GROOVE
1507.00	1560.69	GRRV DISSOLUTION_SURF
2477.00	2619.49	GRRV_ORANGE
2707.00	2870.55	WSTC
5017.00	5392.03	G_SAND
5257.00	5654.00	FRUN
6597.00	7116.68	MVRD
7857.00	8453.49	KMGAS
10007.00	10606.87	CMEO*
10527.00	11126.87	RLNS
10677.00	11276.87	CZZT
10897.00	11496.87	CRCN
11247.00	11846.87	SEGO_UPPER
11417.00	12016.87	SEGO_LOWER
11517.00	12116.87	TD

CASING DETAILS

TVD	MD	Name
3207.00	3416.33	Surface Casing

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
1316.68	23.63	187.44	1283.45	-238.25	-31.11	2.00	187.44	240.27
7544.59	23.63	187.44	6989.02	-2713.92	-354.33	0.00	0.00	2736.95
8453.49	10.00	187.44	7857.00	-2974.05	-388.29	1.50	180.00	2999.29
9120.16	0.00	0.00	8520.29	-3031.59	-395.80	1.50	180.00	3057.32
12116.87	0.00	0.00	11517.00	-3031.59	-395.80	0.00	0.00	3057.32

TEP Rocky Mountain LLC

Garfield County, CO NAD83

RGU 23-7-297 Pad

Federal RG 511-18-297 - Slot RGU 511-18-297

OH

Plan: Plan #2 7April2020 SB-SDI

Standard Planning Report

07 April, 2020



Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 511-18-297 - Slot RGU 511-18-297
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	Federal RG 511-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 7April2020 SB-SDI		

Project	Garfield County, CO NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	RGU 23-7-297 Pad, Site Center : RGU 314-7-297			
Site Position:		Northing:	1,760,880.9000 usft	Latitude: 39.8884987
From: Map		Easting:	2,206,203.5000 usft	Longitude: -108.3291139
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence: -1.78 °

Well	Federal RG 511-18-297 - Slot RGU 511-18-297, 1795' FSL 1365' FWL Sec 7 T2S R97W			
Well Position	+N/-S	-7.12 usft	Northing:	1,760,872.4000 usft
	+E/-W	44.44 usft	Easting:	2,206,247.7000 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	Ground Level: 6,603.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	4/7/2020	9.28	65.83	51,354.10000000

Design	Plan #2 7April2020 SB-SDI			
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	187.44

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	
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,316.68	23.63	187.44	1,283.45	-238.25	-31.11	2.00	2.00	0.00	187.44	
7,544.59	23.63	187.44	6,989.02	-2,713.92	-354.33	0.00	0.00	0.00	0.00	
8,453.49	10.00	187.44	7,857.00	-2,974.05	-388.29	1.50	-1.50	0.00	180.00	
9,120.16	0.00	0.00	8,520.29	-3,031.59	-395.80	1.50	-1.50	0.00	180.00	
12,116.87	0.00	0.00	11,517.00	-3,031.59	-395.80	0.00	0.00	0.00	0.00	FRG 511-18-297 TD

Scientific Drilling, Intl

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Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	Federal RG 511-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 7April2020 SB-SDI		

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	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
200.00	1.30	187.44	199.99	-0.73	-0.10	0.74	2.00	2.00	0.00	
300.00	3.30	187.44	299.91	-4.71	-0.61	4.75	2.00	2.00	0.00	
400.00	5.30	187.44	399.62	-12.14	-1.59	12.25	2.00	2.00	0.00	
500.00	7.30	187.44	499.01	-23.03	-3.01	23.22	2.00	2.00	0.00	
600.00	9.30	187.44	597.96	-37.34	-4.87	37.66	2.00	2.00	0.00	
700.00	11.30	187.44	696.34	-55.07	-7.19	55.53	2.00	2.00	0.00	
800.00	13.30	187.44	794.04	-76.19	-9.95	76.84	2.00	2.00	0.00	
885.56	15.01	187.44	877.00	-96.94	-12.66	97.76	2.00	2.00	0.00	
GRRV										
900.00	15.30	187.44	890.94	-100.68	-13.14	101.54	2.00	2.00	0.00	
1,000.00	17.30	187.44	986.92	-128.51	-16.78	129.60	2.00	2.00	0.00	
1,047.34	18.25	187.44	1,032.00	-142.84	-18.65	144.05	2.00	2.00	0.00	
GRRV_A_GROOVE										
1,100.00	19.30	187.44	1,081.85	-159.64	-20.84	161.00	2.00	2.00	0.00	
1,200.00	21.30	187.44	1,175.64	-194.04	-25.33	195.69	2.00	2.00	0.00	
1,249.93	22.30	187.44	1,222.00	-212.43	-27.73	214.23	2.00	2.00	0.00	
GRRV_B_GROOVE										
1,300.00	23.30	187.44	1,268.15	-231.67	-30.25	233.63	2.00	2.00	0.00	
1,316.68	23.63	187.44	1,283.45	-238.25	-31.11	240.27	2.00	2.00	0.00	
Start 6227.91 hold at 1316.68 MD										
1,400.00	23.63	187.44	1,359.79	-271.37	-35.43	273.68	0.00	0.00	0.00	
1,500.00	23.63	187.44	1,451.40	-311.13	-40.62	313.77	0.00	0.00	0.00	
1,560.69	23.63	187.44	1,507.00	-335.25	-43.77	338.10	0.00	0.00	0.00	
GRRV DISSOLUTION SURF										
1,600.00	23.63	187.44	1,543.01	-350.88	-45.81	353.86	0.00	0.00	0.00	
1,700.00	23.63	187.44	1,634.63	-390.63	-51.00	393.94	0.00	0.00	0.00	
1,800.00	23.63	187.44	1,726.24	-430.38	-56.19	434.03	0.00	0.00	0.00	
1,900.00	23.63	187.44	1,817.85	-470.13	-61.38	474.12	0.00	0.00	0.00	
2,000.00	23.63	187.44	1,909.46	-509.88	-66.57	514.21	0.00	0.00	0.00	
2,100.00	23.63	187.44	2,001.08	-549.63	-71.76	554.30	0.00	0.00	0.00	
2,200.00	23.63	187.44	2,092.69	-589.38	-76.95	594.39	0.00	0.00	0.00	
2,300.00	23.63	187.44	2,184.30	-629.14	-82.14	634.47	0.00	0.00	0.00	
2,400.00	23.63	187.44	2,275.91	-668.89	-87.33	674.56	0.00	0.00	0.00	
2,500.00	23.63	187.44	2,367.53	-708.64	-92.52	714.65	0.00	0.00	0.00	
2,600.00	23.63	187.44	2,459.14	-748.39	-97.71	754.74	0.00	0.00	0.00	
2,619.49	23.63	187.44	2,477.00	-756.14	-98.72	762.56	0.00	0.00	0.00	
GRRV_ORANGE										
2,700.00	23.63	187.44	2,550.75	-788.14	-102.90	794.83	0.00	0.00	0.00	
2,800.00	23.63	187.44	2,642.37	-827.89	-108.09	834.92	0.00	0.00	0.00	
2,870.55	23.63	187.44	2,707.00	-855.94	-111.75	863.20	0.00	0.00	0.00	
WSTC										
2,900.00	23.63	187.44	2,733.98	-867.64	-113.28	875.01	0.00	0.00	0.00	
3,000.00	23.63	187.44	2,825.59	-907.39	-118.47	915.09	0.00	0.00	0.00	
3,100.00	23.63	187.44	2,917.20	-947.14	-123.66	955.18	0.00	0.00	0.00	
3,200.00	23.63	187.44	3,008.82	-986.90	-128.85	995.27	0.00	0.00	0.00	
3,300.00	23.63	187.44	3,100.43	-1,026.65	-134.04	1,035.36	0.00	0.00	0.00	
3,400.00	23.63	187.44	3,192.04	-1,066.40	-139.23	1,075.45	0.00	0.00	0.00	
3,416.33	23.63	187.44	3,207.00	-1,072.89	-140.08	1,081.99	0.00	0.00	0.00	

Scientific Drilling, Intl

Planning Report

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Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	Federal RG 511-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 7April2020 SB-SDI		

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)
Surface Casing									
3,500.00	23.63	187.44	3,283.66	-1,106.15	-144.42	1,115.54	0.00	0.00	0.00
3,600.00	23.63	187.44	3,375.27	-1,145.90	-149.61	1,155.63	0.00	0.00	0.00
3,700.00	23.63	187.44	3,466.88	-1,185.65	-154.80	1,195.71	0.00	0.00	0.00
3,800.00	23.63	187.44	3,558.49	-1,225.40	-159.99	1,235.80	0.00	0.00	0.00
3,900.00	23.63	187.44	3,650.11	-1,265.15	-165.18	1,275.89	0.00	0.00	0.00
4,000.00	23.63	187.44	3,741.72	-1,304.91	-170.37	1,315.98	0.00	0.00	0.00
4,100.00	23.63	187.44	3,833.33	-1,344.66	-175.56	1,356.07	0.00	0.00	0.00
4,200.00	23.63	187.44	3,924.95	-1,384.41	-180.75	1,396.16	0.00	0.00	0.00
4,300.00	23.63	187.44	4,016.56	-1,424.16	-185.94	1,436.25	0.00	0.00	0.00
4,400.00	23.63	187.44	4,108.17	-1,463.91	-191.13	1,476.33	0.00	0.00	0.00
4,500.00	23.63	187.44	4,199.78	-1,503.66	-196.32	1,516.42	0.00	0.00	0.00
4,600.00	23.63	187.44	4,291.40	-1,543.41	-201.51	1,556.51	0.00	0.00	0.00
4,700.00	23.63	187.44	4,383.01	-1,583.16	-206.70	1,596.60	0.00	0.00	0.00
4,800.00	23.63	187.44	4,474.62	-1,622.91	-211.89	1,636.69	0.00	0.00	0.00
4,900.00	23.63	187.44	4,566.24	-1,662.67	-217.08	1,676.78	0.00	0.00	0.00
5,000.00	23.63	187.44	4,657.85	-1,702.42	-222.27	1,716.87	0.00	0.00	0.00
5,100.00	23.63	187.44	4,749.46	-1,742.17	-227.46	1,756.95	0.00	0.00	0.00
5,200.00	23.63	187.44	4,841.07	-1,781.92	-232.65	1,797.04	0.00	0.00	0.00
5,300.00	23.63	187.44	4,932.69	-1,821.67	-237.84	1,837.13	0.00	0.00	0.00
5,392.03	23.63	187.44	5,017.00	-1,858.25	-242.61	1,874.03	0.00	0.00	0.00
G_SAND									
5,400.00	23.63	187.44	5,024.30	-1,861.42	-243.03	1,877.22	0.00	0.00	0.00
5,500.00	23.63	187.44	5,115.91	-1,901.17	-248.22	1,917.31	0.00	0.00	0.00
5,600.00	23.63	187.44	5,207.53	-1,940.92	-253.41	1,957.40	0.00	0.00	0.00
5,654.00	23.63	187.44	5,257.00	-1,962.39	-256.21	1,979.05	0.00	0.00	0.00
FRUN									
5,700.00	23.63	187.44	5,299.14	-1,980.68	-258.60	1,997.49	0.00	0.00	0.00
5,800.00	23.63	187.44	5,390.75	-2,020.43	-263.79	2,037.57	0.00	0.00	0.00
5,900.00	23.63	187.44	5,482.36	-2,060.18	-268.98	2,077.66	0.00	0.00	0.00
6,000.00	23.63	187.44	5,573.98	-2,099.93	-274.17	2,117.75	0.00	0.00	0.00
6,100.00	23.63	187.44	5,665.59	-2,139.68	-279.36	2,157.84	0.00	0.00	0.00
6,200.00	23.63	187.44	5,757.20	-2,179.43	-284.55	2,197.93	0.00	0.00	0.00
6,300.00	23.63	187.44	5,848.81	-2,219.18	-289.73	2,238.02	0.00	0.00	0.00
6,400.00	23.63	187.44	5,940.43	-2,258.93	-294.92	2,278.10	0.00	0.00	0.00
6,500.00	23.63	187.44	6,032.04	-2,298.68	-300.11	2,318.19	0.00	0.00	0.00
6,600.00	23.63	187.44	6,123.65	-2,338.44	-305.30	2,358.28	0.00	0.00	0.00
6,700.00	23.63	187.44	6,215.27	-2,378.19	-310.49	2,398.37	0.00	0.00	0.00
6,800.00	23.63	187.44	6,306.88	-2,417.94	-315.68	2,438.46	0.00	0.00	0.00
6,900.00	23.63	187.44	6,398.49	-2,457.69	-320.87	2,478.55	0.00	0.00	0.00
7,000.00	23.63	187.44	6,490.10	-2,497.44	-326.06	2,518.64	0.00	0.00	0.00
7,100.00	23.63	187.44	6,581.72	-2,537.19	-331.25	2,558.72	0.00	0.00	0.00
7,116.68	23.63	187.44	6,597.00	-2,543.82	-332.12	2,565.41	0.00	0.00	0.00
MVRD									
7,200.00	23.63	187.44	6,673.33	-2,576.94	-336.44	2,598.81	0.00	0.00	0.00
7,300.00	23.63	187.44	6,764.94	-2,616.69	-341.63	2,638.90	0.00	0.00	0.00
7,400.00	23.63	187.44	6,856.56	-2,656.45	-346.82	2,678.99	0.00	0.00	0.00
7,500.00	23.63	187.44	6,948.17	-2,696.20	-352.01	2,719.08	0.00	0.00	0.00
7,544.59	23.63	187.44	6,989.02	-2,713.92	-354.33	2,736.95	0.00	0.00	0.00
Start Drop -1.50									
7,600.00	22.80	187.44	7,039.94	-2,735.58	-357.16	2,758.80	1.50	-1.50	0.00
7,700.00	21.30	187.44	7,132.62	-2,772.81	-362.02	2,796.34	1.50	-1.50	0.00

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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)
7,800.00	19.80	187.44	7,226.25	-2,807.62	-366.56	2,831.45	1.50	-1.50	0.00
7,900.00	18.30	187.44	7,320.77	-2,839.99	-370.79	2,864.09	1.50	-1.50	0.00
8,000.00	16.80	187.44	7,416.12	-2,869.89	-374.69	2,894.25	1.50	-1.50	0.00
8,100.00	15.30	187.44	7,512.21	-2,897.31	-378.27	2,921.90	1.50	-1.50	0.00
8,200.00	13.80	187.44	7,609.00	-2,922.22	-381.52	2,947.02	1.50	-1.50	0.00
8,300.00	12.30	187.44	7,706.42	-2,944.62	-384.45	2,969.61	1.50	-1.50	0.00
8,400.00	10.80	187.44	7,804.39	-2,964.47	-387.04	2,989.63	1.50	-1.50	0.00
8,453.49	10.00	187.44	7,857.00	-2,974.05	-388.29	2,999.29	1.50	-1.50	0.00
Start Drop -1.50 - KMGAS									
8,500.00	9.30	187.44	7,902.85	-2,981.78	-389.30	3,007.09	1.50	-1.50	0.00
8,600.00	7.80	187.44	8,001.74	-2,996.53	-391.22	3,021.96	1.50	-1.50	0.00
8,700.00	6.30	187.44	8,100.98	-3,008.70	-392.81	3,034.24	1.50	-1.50	0.00
8,800.00	4.80	187.44	8,200.50	-3,018.30	-394.07	3,043.91	1.50	-1.50	0.00
8,900.00	3.30	187.44	8,300.25	-3,025.30	-394.98	3,050.98	1.50	-1.50	0.00
9,000.00	1.80	187.44	8,400.15	-3,029.72	-395.56	3,055.43	1.50	-1.50	0.00
9,100.00	0.30	187.44	8,500.13	-3,031.54	-395.80	3,057.27	1.50	-1.50	0.00
9,120.16	0.00	0.00	8,520.29	-3,031.59	-395.80	3,057.32	1.50	-1.50	856.04
Start 2996.71 hold at 9120.16 MD									
9,200.00	0.00	0.00	8,600.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
9,300.00	0.00	0.00	8,700.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
9,400.00	0.00	0.00	8,800.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
9,500.00	0.00	0.00	8,900.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
9,600.00	0.00	0.00	9,000.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
9,700.00	0.00	0.00	9,100.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
9,800.00	0.00	0.00	9,200.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
9,900.00	0.00	0.00	9,300.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,000.00	0.00	0.00	9,400.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,100.00	0.00	0.00	9,500.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,200.00	0.00	0.00	9,600.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,300.00	0.00	0.00	9,700.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,400.00	0.00	0.00	9,800.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,500.00	0.00	0.00	9,900.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,600.00	0.00	0.00	10,000.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,606.87	0.00	0.00	10,007.00	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
CME0*									
10,700.00	0.00	0.00	10,100.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,800.00	0.00	0.00	10,200.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
10,900.00	0.00	0.00	10,300.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
11,000.00	0.00	0.00	10,400.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
11,100.00	0.00	0.00	10,500.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
11,126.87	0.00	0.00	10,527.00	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
RLNS									
11,200.00	0.00	0.00	10,600.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
11,276.87	0.00	0.00	10,677.00	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
CZZT									
11,300.00	0.00	0.00	10,700.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
11,400.00	0.00	0.00	10,800.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
11,496.87	0.00	0.00	10,897.00	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
CRCN									
11,500.00	0.00	0.00	10,900.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
11,600.00	0.00	0.00	11,000.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
11,700.00	0.00	0.00	11,100.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00

Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 511-18-297 - Slot RGU 511-18-297
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	Federal RG 511-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 7April2020 SB-SDI		

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)
11,800.00	0.00	0.00	11,200.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
11,846.87	0.00	0.00	11,247.00	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
SEGO_UPPER									
11,900.00	0.00	0.00	11,300.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
12,000.00	0.00	0.00	11,400.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
12,016.87	0.00	0.00	11,417.00	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
SEGO_LOWER									
12,100.00	0.00	0.00	11,500.13	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
12,116.87	0.00	0.00	11,517.00	-3,031.59	-395.80	3,057.32	0.00	0.00	0.00
TD at 12116.87 - TD									

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									
FRG 511-18-297 KMV C	0.00	0.00	7,857.00	-3,031.59	-395.80	1,757,854.6000	2,205,757.7000	39.8801572	-108.3303657
- plan misses target center by 57.16usft at 8463.22usft MD (7866.58 TVD, -2975.71 N, -388.51 E)									
- Circle (radius 25.00)									
FRG 511-18-297 TD	0.00	0.00	11,517.00	-3,031.59	-395.80	1,757,854.6000	2,205,757.7000	39.8801572	-108.3303657
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
3,416.33	3,207.00	Surface Casing	0.00	0.00	

Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 511-18-297 - Slot RGU 511-18-297
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	Federal RG 511-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 7April2020 SB-SDI		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
885.56	877.00	GRRV		0.00		
1,047.34	1,032.00	GRRV_A_GROOVE		0.00		
1,249.93	1,222.00	GRRV_B_GROOVE		0.00		
1,560.69	1,507.00	GRRV DISSOLUTION_SURF		0.00		
2,619.49	2,477.00	GRRV_ORANGE		0.00		
2,870.55	2,707.00	WSTC		0.00		
5,392.03	5,017.00	G_SAND		0.00		
5,654.00	5,257.00	FRUN		0.00		
7,116.68	6,597.00	MVRD		0.00		
8,453.49	7,857.00	KMVGAS		0.00		
10,606.87	10,007.00	CMEO*		0.00		
11,126.87	10,527.00	RLNS		0.00		
11,276.87	10,677.00	CZZT		0.00		
11,496.87	10,897.00	CRCN		0.00		
11,846.87	11,247.00	SEGO_UPPER		0.00		
12,016.87	11,417.00	SEGO_LOWER		0.00		
12,116.87	11,517.00	TD		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
135.00	135.00	0.00	0.00	Start Build 2.00	
1,316.68	1,283.45	-238.25	-31.11	Start 6227.91 hold at 1316.68 MD	
7,544.59	6,989.02	-2,713.92	-354.33	Start Drop -1.50	
8,453.49	7,857.00	-2,974.05	-388.29	Start Drop -1.50	
9,120.16	8,520.29	-3,031.59	-395.80	Start 2996.71 hold at 9120.16 MD	
12,116.87	11,517.00	-3,031.59	-395.80	TD at 12116.87	