



Company: TEP Rocky Mountain LLC
Project: Garfield County, CO NAD83
Site: RGU 23-7-297 Pad
Well: Federal RG 312-7-297

Plan: Plan #2 7April2020 SB-SDI

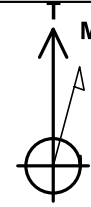
PROJECT DETAILS: Garfield County, CO NAD83

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

System Datum: Mean Sea Level

Well Details: Federal RG 312-7-297

+N/-S 0.00 +E/-W 0.00 Northing 1760883.6000 GL 6603' & KB 24' @ 6627.00usft (H&P 318)
Easting 2206242.2000 Longitude 39.8885094 -108.3289763 RGU 312-7-297

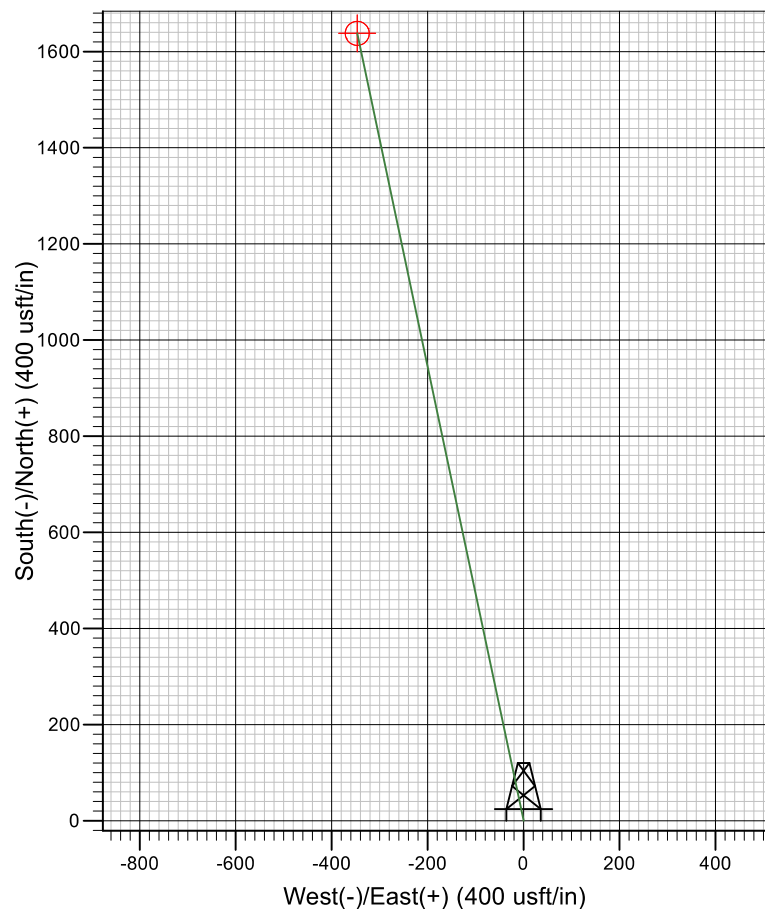
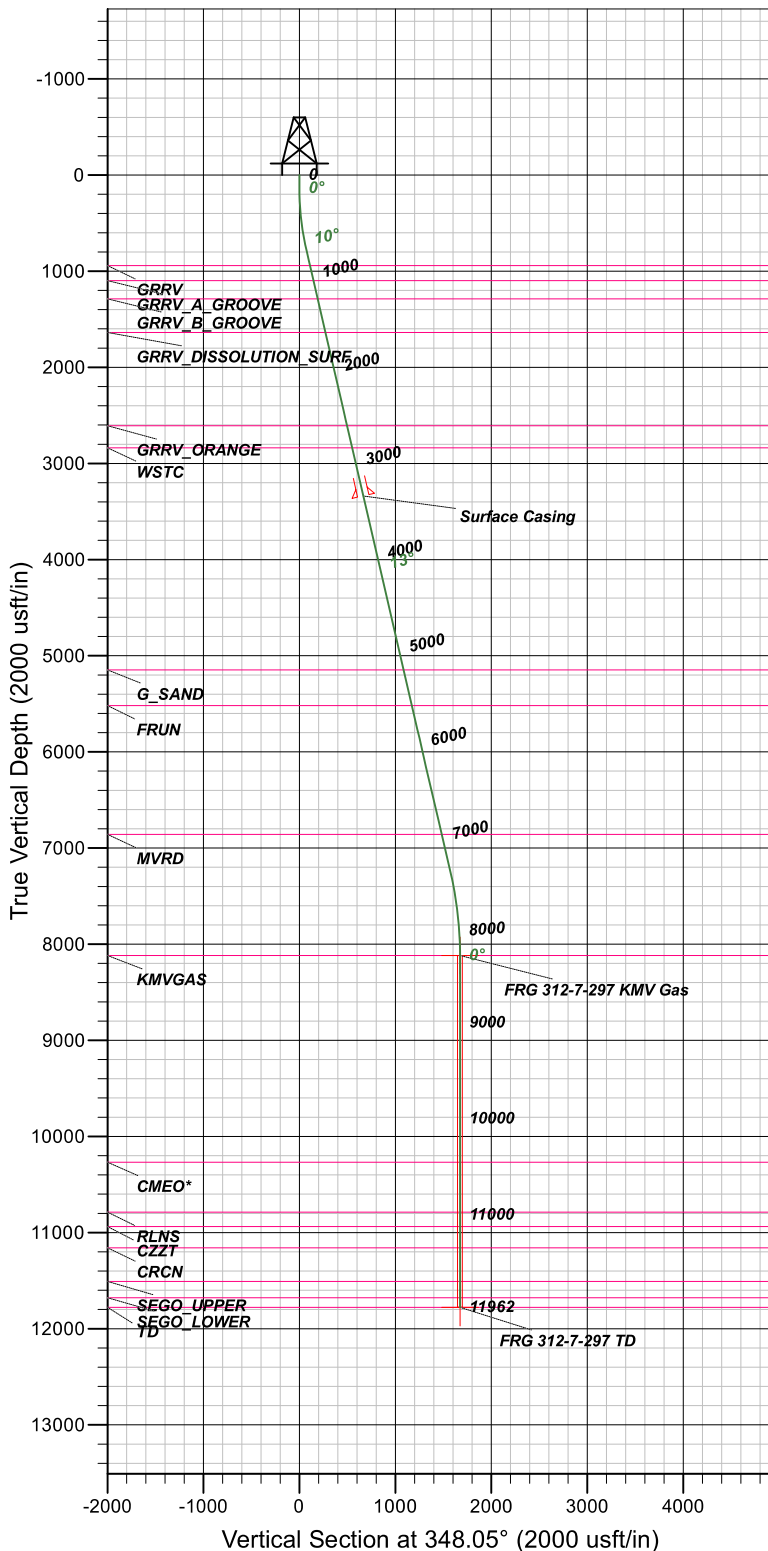


Azimuths to True North
Magnetic North: 9.28°

Magnetic Field
Strength: 51354.8nT
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 312-7-297 KMV Gas	8117.00	1638.10	-346.77	1762531.7000	2205946.6000	39.8930061	-108.3302121	Circle (Radius: 25.00)
FRG 312-7-297 TD	11777.00	1638.10	-346.77	1762531.7000	2205946.6000	39.8930061	-108.3302121	Point



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
942.00	951.88	GRRV
1097.00	1111.00	GRRV_A GROOVE
1287.00	1306.04	GRRV_B GROOVE
1637.00	1665.34	GRRV DISSOLUTION SURF
2607.00	2661.11	GRRV_ORANGE
2837.00	2897.22	WSTC
5147.00	5268.58	G_SAND
5517.00	5648.41	FRUN
6857.00	7024.00	MVRD
8117.00	8302.06	KMVGAS
10267.00	10452.06	CMEO*
10787.00	10972.06	RLNS
10937.00	11122.06	CZZT
11157.00	11342.06	CRCN
11507.00	11692.06	SEGO_UPPER
11677.00	11862.06	SEGO_LOWER
11777.00	11962.06	TD

CASING DETAILS

TVD	MD	Name
3337.00	3410.50	Surface Casing

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect
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
788.12	13.06	348.05	782.48	72.52	-15.35	2.00	348.05	74.13
7431.23	13.06	348.05	7253.69	1541.40	-326.30	0.00	0.00	1575.56
8302.06	0.00	0.00	8117.00	1638.10	-346.77	1.50	180.00	1674.40
11962.06	0.00	0.00	11777.00	1638.10	-346.77	0.00	0.00	1674.40

TEP Rocky Mountain LLC

Garfield County, CO NAD83

RGU 23-7-297 Pad

Federal RG 312-7-297 - Slot RGU 312-7-297

OH

Plan: Plan #2 7April2020 SB-SDI

Standard Planning Report

07 April, 2020



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Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 312-7-297 - Slot RGU 312-7-297
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 312-7-297	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 312-7-297 - Slot RGU 312-7-297, 1806' FSL 1358' FWL Sec 7 T2S R97W			
Well Position	+N/-S	3.90 usft	Northing:	1,760,883.6000 usft
	+E/-W	38.60 usft	Easting:	2,206,242.2000 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	51,354.80000000

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	348.05

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	
788.12	13.06	348.05	782.48	72.52	-15.35	2.00	2.00	0.00	348.05	
7,431.23	13.06	348.05	7,253.69	1,541.40	-326.30	0.00	0.00	0.00	0.00	
8,302.06	0.00	0.00	8,117.00	1,638.10	-346.77	1.50	-1.50	0.00	180.00	FRG 312-7-297 KMV
11,962.06	0.00	0.00	11,777.00	1,638.10	-346.77	0.00	0.00	0.00	0.00	FRG 312-7-297 TD

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Planning Report

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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 312-7-297	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	348.05	199.99	0.72	-0.15	0.74	2.00	2.00	0.00	
300.00	3.30	348.05	299.91	4.65	-0.98	4.75	2.00	2.00	0.00	
400.00	5.30	348.05	399.62	11.98	-2.54	12.25	2.00	2.00	0.00	
500.00	7.30	348.05	499.01	22.72	-4.81	23.22	2.00	2.00	0.00	
600.00	9.30	348.05	597.96	36.84	-7.80	37.66	2.00	2.00	0.00	
700.00	11.30	348.05	696.34	54.33	-11.50	55.53	2.00	2.00	0.00	
788.12	13.06	348.05	782.48	72.52	-15.35	74.13	2.00	2.00	0.00	
Start 6643.11 hold at 788.12 MD										
800.00	13.06	348.05	794.05	75.15	-15.91	76.81	0.00	0.00	0.00	
900.00	13.06	348.05	891.46	97.26	-20.59	99.41	0.00	0.00	0.00	
951.88	13.06	348.05	942.00	108.73	-23.02	111.14	0.00	0.00	0.00	
GRRV										
1,000.00	13.06	348.05	988.87	119.37	-25.27	122.02	0.00	0.00	0.00	
1,100.00	13.06	348.05	1,086.29	141.48	-29.95	144.62	0.00	0.00	0.00	
1,111.00	13.06	348.05	1,097.00	143.91	-30.47	147.10	0.00	0.00	0.00	
GRRV_A_GROOVE										
1,200.00	13.06	348.05	1,183.70	163.59	-34.63	167.22	0.00	0.00	0.00	
1,300.00	13.06	348.05	1,281.11	185.70	-39.31	189.82	0.00	0.00	0.00	
1,306.04	13.06	348.05	1,287.00	187.04	-39.59	191.19	0.00	0.00	0.00	
GRRV_B_GROOVE										
1,400.00	13.06	348.05	1,378.52	207.82	-43.99	212.42	0.00	0.00	0.00	
1,500.00	13.06	348.05	1,475.94	229.93	-48.67	235.02	0.00	0.00	0.00	
1,600.00	13.06	348.05	1,573.35	252.04	-53.35	257.62	0.00	0.00	0.00	
1,665.34	13.06	348.05	1,637.00	266.49	-56.41	272.39	0.00	0.00	0.00	
GRRV DISSOLUTION_SURF										
1,700.00	13.06	348.05	1,670.76	274.15	-58.04	280.23	0.00	0.00	0.00	
1,800.00	13.06	348.05	1,768.17	296.26	-62.72	302.83	0.00	0.00	0.00	
1,900.00	13.06	348.05	1,865.59	318.37	-67.40	325.43	0.00	0.00	0.00	
2,000.00	13.06	348.05	1,963.00	340.48	-72.08	348.03	0.00	0.00	0.00	
2,100.00	13.06	348.05	2,060.41	362.60	-76.76	370.63	0.00	0.00	0.00	
2,200.00	13.06	348.05	2,157.82	384.71	-81.44	393.23	0.00	0.00	0.00	
2,300.00	13.06	348.05	2,255.24	406.82	-86.12	415.83	0.00	0.00	0.00	
2,400.00	13.06	348.05	2,352.65	428.93	-90.80	438.43	0.00	0.00	0.00	
2,500.00	13.06	348.05	2,450.06	451.04	-95.48	461.04	0.00	0.00	0.00	
2,600.00	13.06	348.05	2,547.47	473.15	-100.16	483.64	0.00	0.00	0.00	
2,661.11	13.06	348.05	2,607.00	486.66	-103.02	497.45	0.00	0.00	0.00	
GRRV_ORANGE										
2,700.00	13.06	348.05	2,644.89	495.26	-104.84	506.24	0.00	0.00	0.00	
2,800.00	13.06	348.05	2,742.30	517.37	-109.52	528.84	0.00	0.00	0.00	
2,897.22	13.06	348.05	2,837.00	538.87	-114.07	550.81	0.00	0.00	0.00	
WSTC										
2,900.00	13.06	348.05	2,839.71	539.49	-114.20	551.44	0.00	0.00	0.00	
3,000.00	13.06	348.05	2,937.12	561.60	-118.89	574.04	0.00	0.00	0.00	
3,100.00	13.06	348.05	3,034.54	583.71	-123.57	596.64	0.00	0.00	0.00	
3,200.00	13.06	348.05	3,131.95	605.82	-128.25	619.25	0.00	0.00	0.00	
3,300.00	13.06	348.05	3,229.36	627.93	-132.93	641.85	0.00	0.00	0.00	
3,400.00	13.06	348.05	3,326.77	650.04	-137.61	664.45	0.00	0.00	0.00	
3,410.50	13.06	348.05	3,337.00	652.36	-138.10	666.82	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 312-7-297	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	13.06	348.05	3,424.18	672.15	-142.29	687.05	0.00	0.00	0.00
3,600.00	13.06	348.05	3,521.60	694.27	-146.97	709.65	0.00	0.00	0.00
3,700.00	13.06	348.05	3,619.01	716.38	-151.65	732.25	0.00	0.00	0.00
3,800.00	13.06	348.05	3,716.42	738.49	-156.33	754.85	0.00	0.00	0.00
3,900.00	13.06	348.05	3,813.83	760.60	-161.01	777.45	0.00	0.00	0.00
4,000.00	13.06	348.05	3,911.25	782.71	-165.69	800.06	0.00	0.00	0.00
4,100.00	13.06	348.05	4,008.66	804.82	-170.37	822.66	0.00	0.00	0.00
4,200.00	13.06	348.05	4,106.07	826.93	-175.05	845.26	0.00	0.00	0.00
4,300.00	13.06	348.05	4,203.48	849.04	-179.74	867.86	0.00	0.00	0.00
4,400.00	13.06	348.05	4,300.90	871.16	-184.42	890.46	0.00	0.00	0.00
4,500.00	13.06	348.05	4,398.31	893.27	-189.10	913.06	0.00	0.00	0.00
4,600.00	13.06	348.05	4,495.72	915.38	-193.78	935.66	0.00	0.00	0.00
4,700.00	13.06	348.05	4,593.13	937.49	-198.46	958.27	0.00	0.00	0.00
4,800.00	13.06	348.05	4,690.55	959.60	-203.14	980.87	0.00	0.00	0.00
4,900.00	13.06	348.05	4,787.96	981.71	-207.82	1,003.47	0.00	0.00	0.00
5,000.00	13.06	348.05	4,885.37	1,003.82	-212.50	1,026.07	0.00	0.00	0.00
5,100.00	13.06	348.05	4,982.78	1,025.94	-217.18	1,048.67	0.00	0.00	0.00
5,200.00	13.06	348.05	5,080.20	1,048.05	-221.86	1,071.27	0.00	0.00	0.00
5,268.58	13.06	348.05	5,147.00	1,063.21	-225.07	1,086.77	0.00	0.00	0.00
G_SAND									
5,300.00	13.06	348.05	5,177.61	1,070.16	-226.54	1,093.87	0.00	0.00	0.00
5,400.00	13.06	348.05	5,275.02	1,092.27	-231.22	1,116.48	0.00	0.00	0.00
5,500.00	13.06	348.05	5,372.43	1,114.38	-235.90	1,139.08	0.00	0.00	0.00
5,600.00	13.06	348.05	5,469.85	1,136.49	-240.59	1,161.68	0.00	0.00	0.00
5,648.41	13.06	348.05	5,517.00	1,147.20	-242.85	1,172.62	0.00	0.00	0.00
FRUN									
5,700.00	13.06	348.05	5,567.26	1,158.60	-245.27	1,184.28	0.00	0.00	0.00
5,800.00	13.06	348.05	5,664.67	1,180.71	-249.95	1,206.88	0.00	0.00	0.00
5,900.00	13.06	348.05	5,762.08	1,202.83	-254.63	1,229.48	0.00	0.00	0.00
6,000.00	13.06	348.05	5,859.50	1,224.94	-259.31	1,252.08	0.00	0.00	0.00
6,100.00	13.06	348.05	5,956.91	1,247.05	-263.99	1,274.68	0.00	0.00	0.00
6,200.00	13.06	348.05	6,054.32	1,269.16	-268.67	1,297.29	0.00	0.00	0.00
6,300.00	13.06	348.05	6,151.73	1,291.27	-273.35	1,319.89	0.00	0.00	0.00
6,400.00	13.06	348.05	6,249.14	1,313.38	-278.03	1,342.49	0.00	0.00	0.00
6,500.00	13.06	348.05	6,346.56	1,335.49	-282.71	1,365.09	0.00	0.00	0.00
6,600.00	13.06	348.05	6,443.97	1,357.61	-287.39	1,387.69	0.00	0.00	0.00
6,700.00	13.06	348.05	6,541.38	1,379.72	-292.07	1,410.29	0.00	0.00	0.00
6,800.00	13.06	348.05	6,638.79	1,401.83	-296.75	1,432.89	0.00	0.00	0.00
6,900.00	13.06	348.05	6,736.21	1,423.94	-301.44	1,455.50	0.00	0.00	0.00
7,000.00	13.06	348.05	6,833.62	1,446.05	-306.12	1,478.10	0.00	0.00	0.00
7,024.00	13.06	348.05	6,857.00	1,451.36	-307.24	1,483.52	0.00	0.00	0.00
MVRD									
7,100.00	13.06	348.05	6,931.03	1,468.16	-310.80	1,500.70	0.00	0.00	0.00
7,200.00	13.06	348.05	7,028.44	1,490.27	-315.48	1,523.30	0.00	0.00	0.00
7,300.00	13.06	348.05	7,125.86	1,512.38	-320.16	1,545.90	0.00	0.00	0.00
7,400.00	13.06	348.05	7,223.27	1,534.50	-324.84	1,568.50	0.00	0.00	0.00
7,431.23	13.06	348.05	7,253.69	1,541.40	-326.30	1,575.56	0.00	0.00	0.00
Start Drop -1.50									
7,500.00	12.03	348.05	7,320.82	1,556.02	-329.39	1,590.50	1.50	-1.50	0.00
7,600.00	10.53	348.05	7,418.88	1,575.15	-333.45	1,610.06	1.50	-1.50	0.00
7,700.00	9.03	348.05	7,517.43	1,591.77	-336.96	1,627.05	1.50	-1.50	0.00

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7,800.00	7.53	348.05	7,616.38	1,605.86	-339.95	1,641.45	1.50	-1.50	0.00
7,900.00	6.03	348.05	7,715.68	1,617.41	-342.39	1,653.26	1.50	-1.50	0.00
8,000.00	4.53	348.05	7,815.25	1,626.42	-344.30	1,662.46	1.50	-1.50	0.00
8,100.00	3.03	348.05	7,915.03	1,632.87	-345.66	1,669.06	1.50	-1.50	0.00
8,200.00	1.53	348.05	8,014.95	1,636.76	-346.49	1,673.04	1.50	-1.50	0.00
8,300.00	0.03	348.05	8,114.94	1,638.10	-346.77	1,674.40	1.50	-1.50	0.00
8,302.06	0.00	0.00	8,117.00	1,638.10	-346.77	1,674.40	1.50	-1.50	0.00
Start 3660.00 hold at 8302.06 MD - KMSGAS									
8,400.00	0.00	0.00	8,214.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
8,500.00	0.00	0.00	8,314.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
8,600.00	0.00	0.00	8,414.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
8,700.00	0.00	0.00	8,514.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
8,800.00	0.00	0.00	8,614.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
8,900.00	0.00	0.00	8,714.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,000.00	0.00	0.00	8,814.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,100.00	0.00	0.00	8,914.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,200.00	0.00	0.00	9,014.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,300.00	0.00	0.00	9,114.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,400.00	0.00	0.00	9,214.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,500.00	0.00	0.00	9,314.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,600.00	0.00	0.00	9,414.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,700.00	0.00	0.00	9,514.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,800.00	0.00	0.00	9,614.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
9,900.00	0.00	0.00	9,714.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,000.00	0.00	0.00	9,814.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,100.00	0.00	0.00	9,914.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,200.00	0.00	0.00	10,014.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,300.00	0.00	0.00	10,114.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,400.00	0.00	0.00	10,214.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,452.06	0.00	0.00	10,267.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
CME0*									
10,500.00	0.00	0.00	10,314.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,600.00	0.00	0.00	10,414.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,700.00	0.00	0.00	10,514.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,800.00	0.00	0.00	10,614.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,900.00	0.00	0.00	10,714.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
10,972.06	0.00	0.00	10,787.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
RLNS									
11,000.00	0.00	0.00	10,814.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
11,100.00	0.00	0.00	10,914.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
11,122.06	0.00	0.00	10,937.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
CZZT									
11,200.00	0.00	0.00	11,014.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
11,300.00	0.00	0.00	11,114.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
11,342.06	0.00	0.00	11,157.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
CRCN									
11,400.00	0.00	0.00	11,214.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
11,500.00	0.00	0.00	11,314.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
11,600.00	0.00	0.00	11,414.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
11,692.06	0.00	0.00	11,507.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00
SEGO_UPPER									
11,700.00	0.00	0.00	11,514.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00

Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 312-7-297 - Slot RGU 312-7-297
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 312-7-297	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	11,614.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,862.06	0.00	0.00	11,677.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
SEGO_LOWER										
11,900.00	0.00	0.00	11,714.94	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
11,962.06	0.00	0.00	11,777.00	1,638.10	-346.77	1,674.40	0.00	0.00	0.00	
TD at 11962.06 - 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 312-7-297 KMV Gε	0.00	0.00	8,117.00	1,638.10	-346.77	1,762,531.7000	2,205,946.6000	39.8930061	-108.3302121	
- plan hits target center										
- Circle (radius 25.00)										
FRG 312-7-297 TD	0.00	0.00	11,777.00	1,638.10	-346.77	1,762,531.7000	2,205,946.6000	39.8930061	-108.3302121	
- plan hits target center										
- Point										

Casing Points							Casing Diameter (in)	Hole Diameter (in)
Measured Depth (usft)	Vertical Depth (usft)	Name						
3,410.50	3,337.00	Surface Casing					0.00	0.00

Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 312-7-297 - Slot RGU 312-7-297
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 312-7-297	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 (°)	
951.88	942.00	GRRV		0.00		
1,111.00	1,097.00	GRRV_A_GROOVE		0.00		
1,306.04	1,287.00	GRRV_B_GROOVE		0.00		
1,665.34	1,637.00	GRRV DISSOLUTION_SURF		0.00		
2,661.11	2,607.00	GRRV_ORANGE		0.00		
2,897.22	2,837.00	WSTC		0.00		
5,268.58	5,147.00	G_SAND		0.00		
5,648.41	5,517.00	FRUN		0.00		
7,024.00	6,857.00	MVRD		0.00		
8,302.06	8,117.00	KMVGAS		0.00		
10,452.06	10,267.00	CMEO*		0.00		
10,972.06	10,787.00	RLNS		0.00		
11,122.06	10,937.00	CZZT		0.00		
11,342.06	11,157.00	CRCN		0.00		
11,692.06	11,507.00	SEGO_UPPER		0.00		
11,862.06	11,677.00	SEGO_LOWER		0.00		
11,962.06	11,777.00	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	
788.12	782.48	72.52	-15.35	Start 6643.11 hold at 788.12 MD	
7,431.23	7,253.69	1,541.40	-326.30	Start Drop -1.50	
8,302.06	8,117.00	1,638.10	-346.77	Start 3660.00 hold at 8302.06 MD	
11,962.06	11,777.00	1,638.10	-346.77	TD at 11962.06	