



Company: TEP Rocky Mountain LLC
Project: Garfield County, CO NAD83
Site: RGU 23-7-297 Pad
Well: Federal RG 13-7-297

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 13-7-297

+N/-S +E/-W Northing Easting Longitude
0.00 0.00 1760887.9000 2206220.1000 39.8885193 -108.3290555 RGU 13-7-297

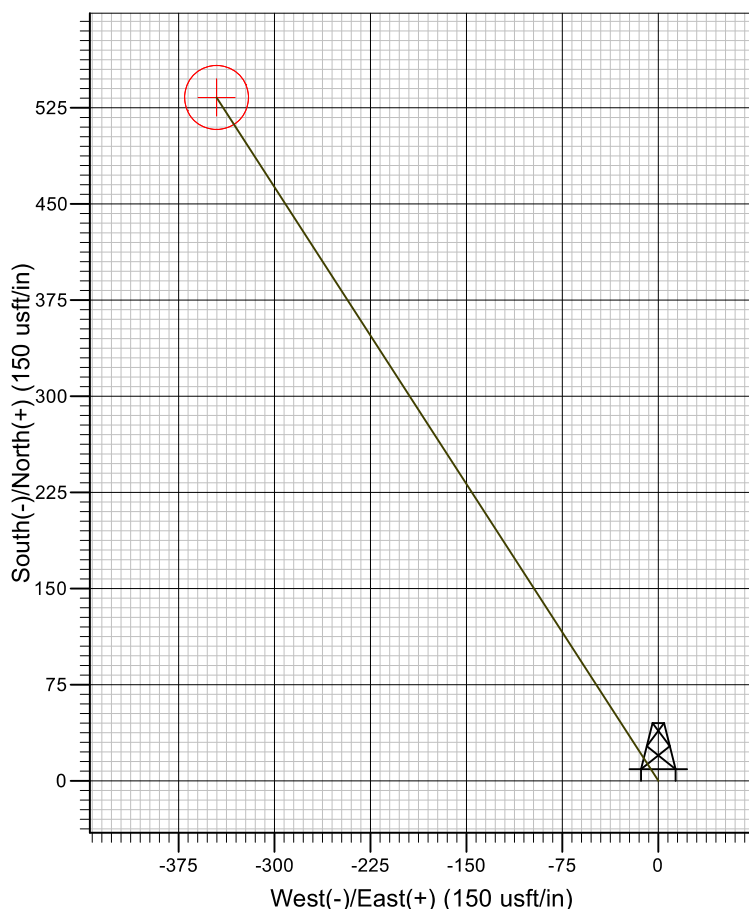
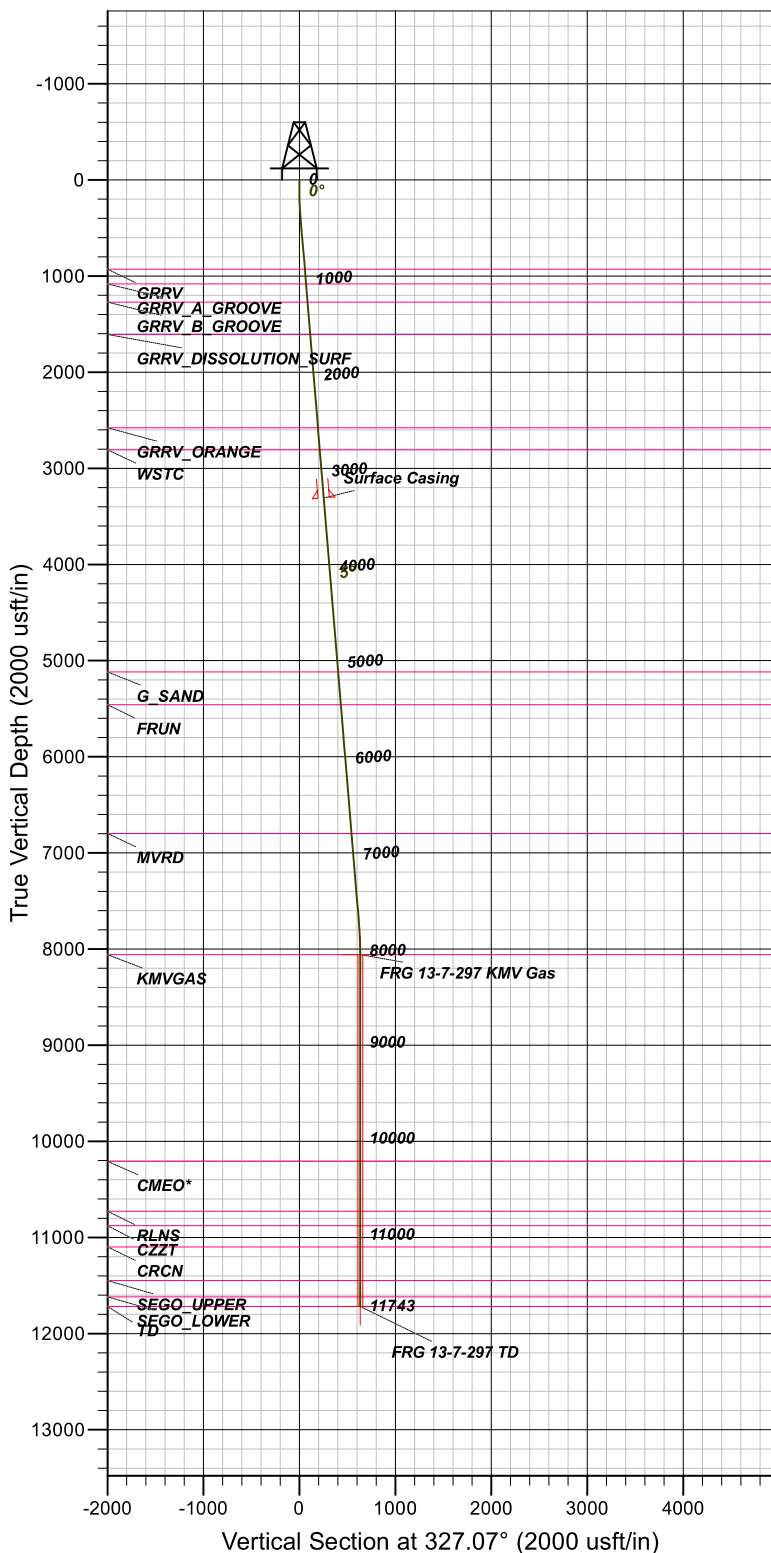


Azimuths to True North
Magnetic North: 9.28°

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 13-7-297 KMV Gas	8057.00	533.01	-345.26	1761431.4000	2205891.6000	39.8899825	-108.3302858	Circle (Radius: 25.00)
FRG 13-7-297 TD	11717.00	533.01	-345.26	1761431.4000	2205891.6000	39.8899825	-108.3302858	Point
- plan hits target center								



FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
927.00	929.23	GRRV
1082.00	1084.76	GRRV_A GROOVE
1272.00	1275.41	GRRV_B GROOVE
1607.00	1611.56	GRRV DISSOLUTION SURF
2577.00	2584.89	GRRV_ORANGE
2807.00	2815.68	WSTC
5117.00	5133.60	G SAND
5457.00	5474.77	FRUN
6797.00	6819.36	MVRD
8057.00	8082.96	KMVGAS
10207.00	10232.96	CMEO*
10727.00	10752.96	RLNS
10877.00	10902.96	CZZT
11097.00	11122.96	CRCN
11447.00	11472.96	SEGO_UPPER
11617.00	11642.96	SEGO_LOWER
11717.00	11742.96	TD

CASING DETAILS

TVD	MD	NAME
3307.00	3317.39	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
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00
356.96	4.74	327.07	356.69	8.22	-5.32	2.00	327.07	9.79
7767.02	4.74	327.07	7741.42	522.05	-338.16	0.00	0.00	622.00
8082.96	0.00	0.00	8057.00	533.01	-345.26	1.50	180.00	635.06
11742.96	0.00	0.00	11717.00	533.01	-345.26	0.00	0.00	635.06

TEP Rocky Mountain LLC

Garfield County, CO NAD83

RGU 23-7-297 Pad

Federal RG 13-7-297 - Slot RGU 13-7-297

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 13-7-297 - Slot RGU 13-7-297
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 13-7-297	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 13-7-297 - Slot RGU 13-7-297, 1810' FSL 1336' FWL Sec 7 T2S R97W			
Well Position	+N/-S	7.51 usft	Northing:	1,760,887.9000 usft
	+E/-W	16.37 usft	Easting:	2,206,220.1000 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	327.07

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	
356.96	4.74	327.07	356.69	8.22	-5.32	2.00	2.00	0.00	327.07	
7,767.02	4.74	327.07	7,741.42	522.05	-338.16	0.00	0.00	0.00	0.00	
8,082.96	0.00	0.00	8,057.00	533.01	-345.26	1.50	-1.50	0.00	180.00	FRG 13-7-297 KMV C
11,742.96	0.00	0.00	11,717.00	533.01	-345.26	0.00	0.00	0.00	0.00	FRG 13-7-297 TD

Scientific Drilling, Intl

Planning Report

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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 13-7-297	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	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
200.00	1.60	327.07	199.99	0.94	-0.61	1.12	2.00	2.00	0.00	
300.00	3.60	327.07	299.88	4.74	-3.07	5.65	2.00	2.00	0.00	
356.96	4.74	327.07	356.69	8.22	-5.32	9.79	2.00	2.00	0.00	
Start 7410.07 hold at 356.96 MD										
400.00	4.74	327.07	399.58	11.20	-7.26	13.35	0.00	0.00	0.00	
500.00	4.74	327.07	499.24	18.14	-11.75	21.61	0.00	0.00	0.00	
600.00	4.74	327.07	598.90	25.07	-16.24	29.87	0.00	0.00	0.00	
700.00	4.74	327.07	698.56	32.01	-20.73	38.14	0.00	0.00	0.00	
800.00	4.74	327.07	798.22	38.94	-25.23	46.40	0.00	0.00	0.00	
900.00	4.74	327.07	897.87	45.88	-29.72	54.66	0.00	0.00	0.00	
929.23	4.74	327.07	927.00	47.90	-31.03	57.07	0.00	0.00	0.00	
GRRV										
1,000.00	4.74	327.07	997.53	52.81	-34.21	62.92	0.00	0.00	0.00	
1,084.76	4.74	327.07	1,082.00	58.69	-38.02	69.92	0.00	0.00	0.00	
GRRV_A_GROOVE										
1,100.00	4.74	327.07	1,097.19	59.74	-38.70	71.18	0.00	0.00	0.00	
1,200.00	4.74	327.07	1,196.85	66.68	-43.19	79.45	0.00	0.00	0.00	
1,275.41	4.74	327.07	1,272.00	71.91	-46.58	85.68	0.00	0.00	0.00	
GRRV_B_GROOVE										
1,300.00	4.74	327.07	1,296.51	73.61	-47.68	87.71	0.00	0.00	0.00	
1,400.00	4.74	327.07	1,396.16	80.55	-52.18	95.97	0.00	0.00	0.00	
1,500.00	4.74	327.07	1,495.82	87.48	-56.67	104.23	0.00	0.00	0.00	
1,600.00	4.74	327.07	1,595.48	94.42	-61.16	112.49	0.00	0.00	0.00	
1,611.56	4.74	327.07	1,607.00	95.22	-61.68	113.45	0.00	0.00	0.00	
GRRV DISSOLUTION_SURF										
1,700.00	4.74	327.07	1,695.14	101.35	-65.65	120.75	0.00	0.00	0.00	
1,800.00	4.74	327.07	1,794.80	108.28	-70.14	129.02	0.00	0.00	0.00	
1,900.00	4.74	327.07	1,894.45	115.22	-74.63	137.28	0.00	0.00	0.00	
2,000.00	4.74	327.07	1,994.11	122.15	-79.13	145.54	0.00	0.00	0.00	
2,100.00	4.74	327.07	2,093.77	129.09	-83.62	153.80	0.00	0.00	0.00	
2,200.00	4.74	327.07	2,193.43	136.02	-88.11	162.06	0.00	0.00	0.00	
2,300.00	4.74	327.07	2,293.09	142.95	-92.60	170.33	0.00	0.00	0.00	
2,400.00	4.74	327.07	2,392.75	149.89	-97.09	178.59	0.00	0.00	0.00	
2,500.00	4.74	327.07	2,492.40	156.82	-101.58	186.85	0.00	0.00	0.00	
2,584.89	4.74	327.07	2,577.00	162.71	-105.40	193.86	0.00	0.00	0.00	
GRRV_ORANGE										
2,600.00	4.74	327.07	2,592.06	163.76	-106.08	195.11	0.00	0.00	0.00	
2,700.00	4.74	327.07	2,691.72	170.69	-110.57	203.37	0.00	0.00	0.00	
2,800.00	4.74	327.07	2,791.38	177.63	-115.06	211.64	0.00	0.00	0.00	
2,815.68	4.74	327.07	2,807.00	178.71	-115.76	212.93	0.00	0.00	0.00	
WSTC										
2,900.00	4.74	327.07	2,891.04	184.56	-119.55	219.90	0.00	0.00	0.00	
3,000.00	4.74	327.07	2,990.69	191.49	-124.04	228.16	0.00	0.00	0.00	
3,100.00	4.74	327.07	3,090.35	198.43	-128.53	236.42	0.00	0.00	0.00	
3,200.00	4.74	327.07	3,190.01	205.36	-133.03	244.68	0.00	0.00	0.00	
3,300.00	4.74	327.07	3,289.67	212.30	-137.52	252.94	0.00	0.00	0.00	
3,317.39	4.74	327.07	3,307.00	213.50	-138.30	254.38	0.00	0.00	0.00	
Surface Casing										

Scientific Drilling, Intl

Planning Report

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Site:	RGU 23-7-297 Pad	North Reference:	True
Well:	Federal RG 13-7-297	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)	
3,400.00	4.74	327.07	3,389.33	219.23	-142.01	261.21	0.00	0.00	0.00	
3,500.00	4.74	327.07	3,488.98	226.16	-146.50	269.47	0.00	0.00	0.00	
3,600.00	4.74	327.07	3,588.64	233.10	-150.99	277.73	0.00	0.00	0.00	
3,700.00	4.74	327.07	3,688.30	240.03	-155.48	285.99	0.00	0.00	0.00	
3,800.00	4.74	327.07	3,787.96	246.97	-159.98	294.25	0.00	0.00	0.00	
3,900.00	4.74	327.07	3,887.62	253.90	-164.47	302.52	0.00	0.00	0.00	
4,000.00	4.74	327.07	3,987.28	260.84	-168.96	310.78	0.00	0.00	0.00	
4,100.00	4.74	327.07	4,086.93	267.77	-173.45	319.04	0.00	0.00	0.00	
4,200.00	4.74	327.07	4,186.59	274.70	-177.94	327.30	0.00	0.00	0.00	
4,300.00	4.74	327.07	4,286.25	281.64	-182.43	335.56	0.00	0.00	0.00	
4,400.00	4.74	327.07	4,385.91	288.57	-186.93	343.82	0.00	0.00	0.00	
4,500.00	4.74	327.07	4,485.57	295.51	-191.42	352.09	0.00	0.00	0.00	
4,600.00	4.74	327.07	4,585.22	302.44	-195.91	360.35	0.00	0.00	0.00	
4,700.00	4.74	327.07	4,684.88	309.37	-200.40	368.61	0.00	0.00	0.00	
4,800.00	4.74	327.07	4,784.54	316.31	-204.89	376.87	0.00	0.00	0.00	
4,900.00	4.74	327.07	4,884.20	323.24	-209.39	385.13	0.00	0.00	0.00	
5,000.00	4.74	327.07	4,983.86	330.18	-213.88	393.40	0.00	0.00	0.00	
5,100.00	4.74	327.07	5,083.51	337.11	-218.37	401.66	0.00	0.00	0.00	
5,133.60	4.74	327.07	5,117.00	339.44	-219.88	404.43	0.00	0.00	0.00	
G_SAND										
5,200.00	4.74	327.07	5,183.17	344.05	-222.86	409.92	0.00	0.00	0.00	
5,300.00	4.74	327.07	5,282.83	350.98	-227.35	418.18	0.00	0.00	0.00	
5,400.00	4.74	327.07	5,382.49	357.91	-231.84	426.44	0.00	0.00	0.00	
5,474.77	4.74	327.07	5,457.00	363.10	-235.20	432.62	0.00	0.00	0.00	
FRUN										
5,500.00	4.74	327.07	5,482.15	364.85	-236.34	434.71	0.00	0.00	0.00	
5,600.00	4.74	327.07	5,581.81	371.78	-240.83	442.97	0.00	0.00	0.00	
5,700.00	4.74	327.07	5,681.46	378.72	-245.32	451.23	0.00	0.00	0.00	
5,800.00	4.74	327.07	5,781.12	385.65	-249.81	459.49	0.00	0.00	0.00	
5,900.00	4.74	327.07	5,880.78	392.59	-254.30	467.75	0.00	0.00	0.00	
6,000.00	4.74	327.07	5,980.44	399.52	-258.79	476.01	0.00	0.00	0.00	
6,100.00	4.74	327.07	6,080.10	406.45	-263.29	484.28	0.00	0.00	0.00	
6,200.00	4.74	327.07	6,179.75	413.39	-267.78	492.54	0.00	0.00	0.00	
6,300.00	4.74	327.07	6,279.41	420.32	-272.27	500.80	0.00	0.00	0.00	
6,400.00	4.74	327.07	6,379.07	427.26	-276.76	509.06	0.00	0.00	0.00	
6,500.00	4.74	327.07	6,478.73	434.19	-281.25	517.32	0.00	0.00	0.00	
6,600.00	4.74	327.07	6,578.39	441.12	-285.74	525.59	0.00	0.00	0.00	
6,700.00	4.74	327.07	6,678.04	448.06	-290.24	533.85	0.00	0.00	0.00	
6,800.00	4.74	327.07	6,777.70	454.99	-294.73	542.11	0.00	0.00	0.00	
6,819.36	4.74	327.07	6,797.00	456.34	-295.60	543.71	0.00	0.00	0.00	
MVRD										
6,900.00	4.74	327.07	6,877.36	461.93	-299.22	550.37	0.00	0.00	0.00	
7,000.00	4.74	327.07	6,977.02	468.86	-303.71	558.63	0.00	0.00	0.00	
7,100.00	4.74	327.07	7,076.68	475.80	-308.20	566.90	0.00	0.00	0.00	
7,200.00	4.74	327.07	7,176.34	482.73	-312.69	575.16	0.00	0.00	0.00	
7,300.00	4.74	327.07	7,275.99	489.66	-317.19	583.42	0.00	0.00	0.00	
7,400.00	4.74	327.07	7,375.65	496.60	-321.68	591.68	0.00	0.00	0.00	
7,500.00	4.74	327.07	7,475.31	503.53	-326.17	599.94	0.00	0.00	0.00	
7,600.00	4.74	327.07	7,574.97	510.47	-330.66	608.20	0.00	0.00	0.00	
7,700.00	4.74	327.07	7,674.63	517.40	-335.15	616.47	0.00	0.00	0.00	
7,767.02	4.74	327.07	7,741.42	522.05	-338.16	622.00	0.00	0.00	0.00	
Start Drop -1.50										

Scientific Drilling, Intl

Planning Report

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Wellbore:	OH		
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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	4.24	327.07	7,774.30	524.22	-339.57	624.59	1.50	-1.50	0.00
7,900.00	2.74	327.07	7,874.11	529.33	-342.88	630.68	1.50	-1.50	0.00
8,000.00	1.24	327.07	7,974.04	532.25	-344.77	634.16	1.50	-1.50	0.00
8,082.96	0.00	0.00	8,057.00	533.01	-345.26	635.06	1.50	-1.50	0.00
Start 3660.00 hold at 8082.96 MD - KMGAS									
8,100.00	0.00	0.00	8,074.04	533.01	-345.26	635.06	0.00	0.00	0.00
8,200.00	0.00	0.00	8,174.04	533.01	-345.26	635.06	0.00	0.00	0.00
8,300.00	0.00	0.00	8,274.04	533.01	-345.26	635.06	0.00	0.00	0.00
8,400.00	0.00	0.00	8,374.04	533.01	-345.26	635.06	0.00	0.00	0.00
8,500.00	0.00	0.00	8,474.04	533.01	-345.26	635.06	0.00	0.00	0.00
8,600.00	0.00	0.00	8,574.04	533.01	-345.26	635.06	0.00	0.00	0.00
8,700.00	0.00	0.00	8,674.04	533.01	-345.26	635.06	0.00	0.00	0.00
8,800.00	0.00	0.00	8,774.04	533.01	-345.26	635.06	0.00	0.00	0.00
8,900.00	0.00	0.00	8,874.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,000.00	0.00	0.00	8,974.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,100.00	0.00	0.00	9,074.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,200.00	0.00	0.00	9,174.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,300.00	0.00	0.00	9,274.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,400.00	0.00	0.00	9,374.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,500.00	0.00	0.00	9,474.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,600.00	0.00	0.00	9,574.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,700.00	0.00	0.00	9,674.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,800.00	0.00	0.00	9,774.04	533.01	-345.26	635.06	0.00	0.00	0.00
9,900.00	0.00	0.00	9,874.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,000.00	0.00	0.00	9,974.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,100.00	0.00	0.00	10,074.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,200.00	0.00	0.00	10,174.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,232.96	0.00	0.00	10,207.00	533.01	-345.26	635.06	0.00	0.00	0.00
CMEO*									
10,300.00	0.00	0.00	10,274.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,400.00	0.00	0.00	10,374.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,500.00	0.00	0.00	10,474.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,600.00	0.00	0.00	10,574.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,700.00	0.00	0.00	10,674.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,752.96	0.00	0.00	10,727.00	533.01	-345.26	635.06	0.00	0.00	0.00
RLNS									
10,800.00	0.00	0.00	10,774.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,900.00	0.00	0.00	10,874.04	533.01	-345.26	635.06	0.00	0.00	0.00
10,902.96	0.00	0.00	10,877.00	533.01	-345.26	635.06	0.00	0.00	0.00
CZZT									
11,000.00	0.00	0.00	10,974.04	533.01	-345.26	635.06	0.00	0.00	0.00
11,100.00	0.00	0.00	11,074.04	533.01	-345.26	635.06	0.00	0.00	0.00
11,122.96	0.00	0.00	11,097.00	533.01	-345.26	635.06	0.00	0.00	0.00
CRCN									
11,200.00	0.00	0.00	11,174.04	533.01	-345.26	635.06	0.00	0.00	0.00
11,300.00	0.00	0.00	11,274.04	533.01	-345.26	635.06	0.00	0.00	0.00
11,400.00	0.00	0.00	11,374.04	533.01	-345.26	635.06	0.00	0.00	0.00
11,472.96	0.00	0.00	11,447.00	533.01	-345.26	635.06	0.00	0.00	0.00
SEGO_UPPER									
11,500.00	0.00	0.00	11,474.04	533.01	-345.26	635.06	0.00	0.00	0.00
11,600.00	0.00	0.00	11,574.04	533.01	-345.26	635.06	0.00	0.00	0.00
11,642.96	0.00	0.00	11,617.00	533.01	-345.26	635.06	0.00	0.00	0.00

Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 13-7-297 - Slot RGU 13-7-297
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 13-7-297	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)
SEGO_LOWER									
11,700.00	0.00	0.00	11,674.04	533.01	-345.26	635.06	0.00	0.00	0.00
11,742.96	0.00	0.00	11,717.00	533.01	-345.26	635.06	0.00	0.00	0.00
TD at 11742.96 - 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 13-7-297 KMG Gas	0.00	0.00	8,057.00	533.01	-345.26	1,761,431.4000	2,205,891.6000	39.8899825	-108.3302859
- plan hits target center									
- Circle (radius 25.00)									
FRG 13-7-297 TD	0.00	0.00	11,717.00	533.01	-345.26	1,761,431.4000	2,205,891.6000	39.8899825	-108.3302859
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
3,317.39	3,307.00	Surface Casing	0.00	0.00	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
929.23	927.00	GRRV		0.00	
1,084.76	1,082.00	GRRV_A_GROOVE		0.00	
1,275.41	1,272.00	GRRV_B_GROOVE		0.00	
1,611.56	1,607.00	GRRV DISSOLUTION_SURF		0.00	
2,584.89	2,577.00	GRRV_ORANGE		0.00	
2,815.68	2,807.00	WSTC		0.00	
5,133.60	5,117.00	G_SAND		0.00	
5,474.77	5,457.00	FRUN		0.00	
6,819.36	6,797.00	MVRD		0.00	
8,082.96	8,057.00	KMVGAS		0.00	
10,232.96	10,207.00	CMEQ*		0.00	
10,752.96	10,727.00	RLNS		0.00	
10,902.96	10,877.00	CZZT		0.00	
11,122.96	11,097.00	CRCN		0.00	
11,472.96	11,447.00	SEGO_UPPER		0.00	
11,642.96	11,617.00	SEGO_LOWER		0.00	
11,742.96	11,717.00	TD		0.00	

Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 13-7-297 - Slot RGU 13-7-297
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 13-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 7April2020 SB-SDI		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.00	120.00	0.00	0.00	Start Build 2.00
356.96	356.69	8.22	-5.32	Start 7410.07 hold at 356.96 MD
7,767.02	7,741.42	522.05	-338.16	Start Drop -1.50
8,082.96	8,057.00	533.01	-345.26	Start 3660.00 hold at 8082.96 MD
11,742.96	11,717.00	533.01	-345.26	TD at 11742.96