



Company: TEP Rocky Mountain LLC  
Project: Garfield County, CO NAD83  
Site: RGU 23-7-297 Pad  
Well: Federal RG 313-7-297

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 313-7-297

+N/-S +E/-W Northing Easting Longitude  
0.00 0.00 1760889.3000 2206212.8000 39.8885225 -108.3290816 RGU 313-7-297

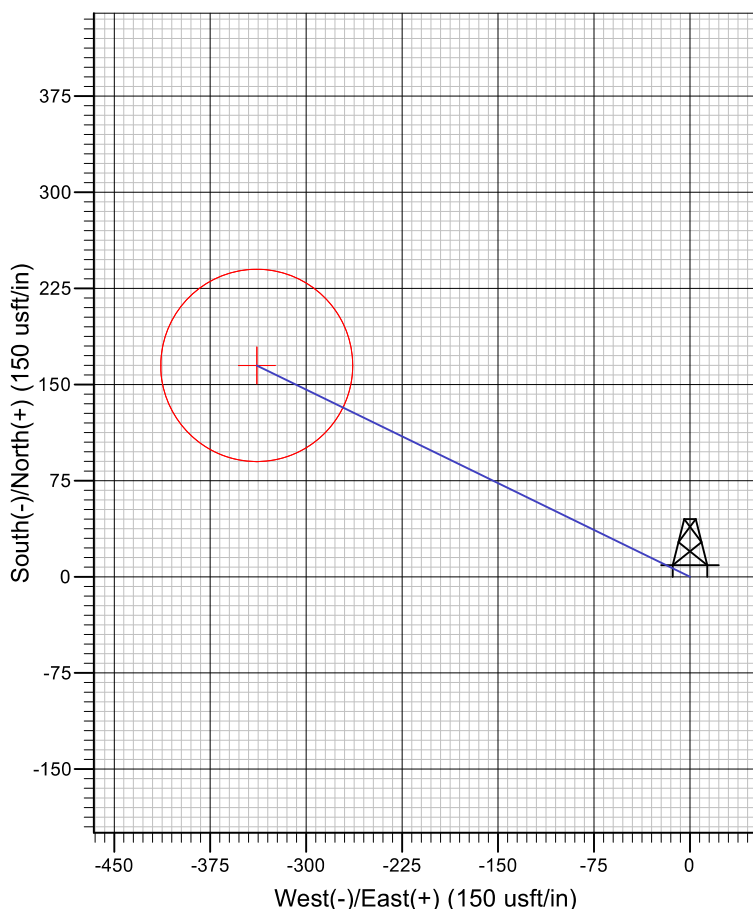
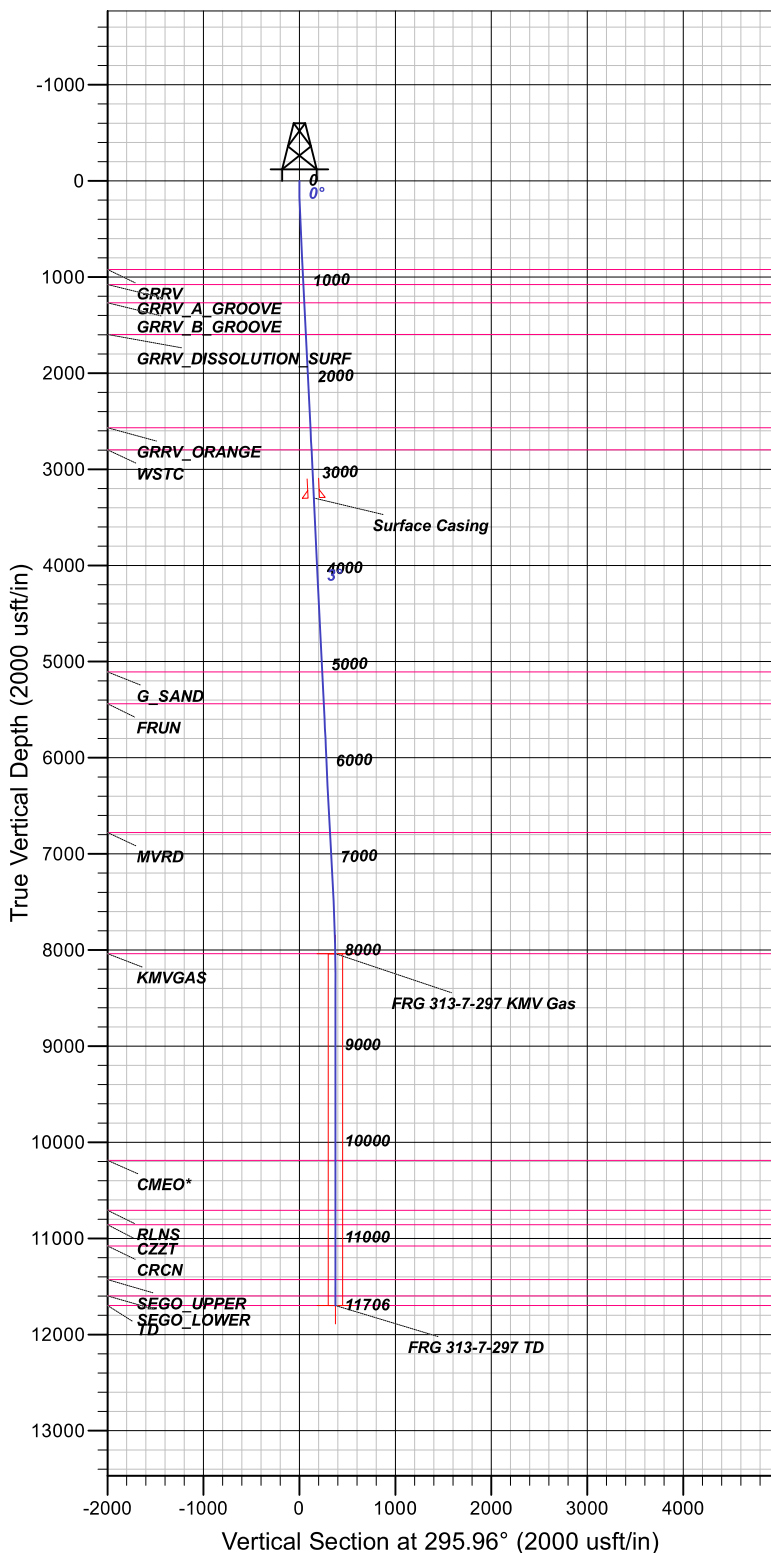


Azimuths to True North  
Magnetic North: 9.28°

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	Circle	Shape
FRG 313-7-297 KMV Gas	8037.00	164.93	-338.70	1761064.7000	2205879.4000	39.8889753	-108.3302886	Circle (Radius: 75.00)	
- plan hits target center									
FRG 313-7-297 TD	11697.00	164.93	-338.70	1761064.7000	2205879.4000	39.8889753	-108.3302886		Point
- plan hits target center									



#### FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
922.00	922.82	GRRV
1077.00	1078.01	GRRV_A GROOVE
1267.00	1268.23	GRRV_B GROOVE
1597.00	1598.62	GRRV DISSOLUTION SURF
2567.00	2569.77	GRRV_ORANGE
2797.00	2800.04	WSTC
5107.00	5112.78	G_SAND
5437.00	5443.17	FRUN
6777.00	6784.75	MVRD
8037.00	8046.10	KMGAS
10187.00	10196.10	CMEO*
10707.00	10716.10	RLNS
10857.00	10866.10	CZZT
11077.00	11086.10	CRCN
11427.00	11436.10	SEGO_UPPER
11597.00	11606.10	SEGO_LOWER
11697.00	11706.10	TD

#### CASING DETAILS

TVD	MD	NAME
3297.00	3300.63	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
274.34	2.79	295.96	274.28	1.48	-3.05	2.00	295.96	3.39
7860.32	2.79	295.96	7851.29	162.96	-334.64	0.00	0.00	372.21
8046.10	0.00	0.00	8037.00	164.93	-338.70	1.50	180.00	376.72
11706.10	0.00	0.00	11697.00	164.93	-338.70	0.00	0.00	376.72

# **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**RGU 23-7-297 Pad**

**Federal RG 313-7-297 - Slot RGU 313-7-297**

**OH**

**Plan: Plan #2 7April2020 SB-SDI**

## **Standard Planning Report**

**07 April, 2020**



# Scientific Drilling, Intl

## Planning Report

<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well Federal RG 313-7-297 - Slot RGU 313-7-297
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Federal RG 313-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #2 7April2020 SB-SDI		

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

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

<b>Well</b>	Federal RG 313-7-297 - Slot RGU 313-7-297, 1812' FSL 1329' FWL Sec 7 T2S R97W			
<b>Well Position</b>	<b>+N/-S</b>	8.69 usft	<b>Northing:</b>	1,760,889.3000 usft
	<b>+E/-W</b>	9.03 usft	<b>Easting:</b>	2,206,212.8000 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 6,603.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM_FILE	4/7/2020	9.28	65.83	51,354.80000000

<b>Design</b>	Plan #2 7April2020 SB-SDI			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	295.96

<b>Plan Sections</b>										
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	
274.34	2.79	295.96	274.28	1.48	-3.05	2.00	2.00	0.00	295.96	
7,860.32	2.79	295.96	7,851.29	162.96	-334.64	0.00	0.00	0.00	0.00	
8,046.10	0.00	0.00	8,037.00	164.93	-338.70	1.50	-1.50	0.00	180.00	FRG 313-7-297 KMV
11,706.10	0.00	0.00	11,697.00	164.93	-338.70	0.00	0.00	0.00	0.00	FRG 313-7-297 TD

# Scientific Drilling, Intl

## Planning Report

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<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Federal RG 313-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	295.96	199.99	0.32	-0.66	0.74	2.00	2.00	0.00
274.34	2.79	295.96	274.28	1.48	-3.05	3.39	2.00	2.00	0.00
Start 7585.98 hold at 274.34 MD									
300.00	2.79	295.96	299.91	2.03	-4.17	4.64	0.00	0.00	0.00
400.00	2.79	295.96	399.80	4.16	-8.54	9.50	0.00	0.00	0.00
500.00	2.79	295.96	499.68	6.29	-12.91	14.36	0.00	0.00	0.00
600.00	2.79	295.96	599.56	8.42	-17.28	19.22	0.00	0.00	0.00
700.00	2.79	295.96	699.44	10.54	-21.65	24.08	0.00	0.00	0.00
800.00	2.79	295.96	799.32	12.67	-26.02	28.94	0.00	0.00	0.00
900.00	2.79	295.96	899.21	14.80	-30.39	33.81	0.00	0.00	0.00
922.82	2.79	295.96	922.00	15.29	-31.39	34.92	0.00	0.00	0.00
GRRV									
1,000.00	2.79	295.96	999.09	16.93	-34.77	38.67	0.00	0.00	0.00
1,078.01	2.79	295.96	1,077.00	18.59	-38.18	42.46	0.00	0.00	0.00
GRRV_A_GROOVE									
1,100.00	2.79	295.96	1,098.97	19.06	-39.14	43.53	0.00	0.00	0.00
1,200.00	2.79	295.96	1,198.85	21.19	-43.51	48.39	0.00	0.00	0.00
1,268.23	2.79	295.96	1,267.00	22.64	-46.49	51.71	0.00	0.00	0.00
GRRV_B_GROOVE									
1,300.00	2.79	295.96	1,298.73	23.32	-47.88	53.25	0.00	0.00	0.00
1,400.00	2.79	295.96	1,398.61	25.44	-52.25	58.12	0.00	0.00	0.00
1,500.00	2.79	295.96	1,498.50	27.57	-56.62	62.98	0.00	0.00	0.00
1,598.62	2.79	295.96	1,597.00	29.67	-60.93	67.77	0.00	0.00	0.00
GRRV DISSOLUTION_SURF									
1,600.00	2.79	295.96	1,598.38	29.70	-60.99	67.84	0.00	0.00	0.00
1,700.00	2.79	295.96	1,698.26	31.83	-65.36	72.70	0.00	0.00	0.00
1,800.00	2.79	295.96	1,798.14	33.96	-69.73	77.56	0.00	0.00	0.00
1,900.00	2.79	295.96	1,898.02	36.09	-74.11	82.43	0.00	0.00	0.00
2,000.00	2.79	295.96	1,997.90	38.22	-78.48	87.29	0.00	0.00	0.00
2,100.00	2.79	295.96	2,097.79	40.34	-82.85	92.15	0.00	0.00	0.00
2,200.00	2.79	295.96	2,197.67	42.47	-87.22	97.01	0.00	0.00	0.00
2,300.00	2.79	295.96	2,297.55	44.60	-91.59	101.87	0.00	0.00	0.00
2,400.00	2.79	295.96	2,397.43	46.73	-95.96	106.73	0.00	0.00	0.00
2,500.00	2.79	295.96	2,497.31	48.86	-100.33	111.60	0.00	0.00	0.00
2,569.77	2.79	295.96	2,567.00	50.34	-103.38	114.99	0.00	0.00	0.00
GRRV_ORANGE									
2,600.00	2.79	295.96	2,597.19	50.99	-104.70	116.46	0.00	0.00	0.00
2,700.00	2.79	295.96	2,697.08	53.12	-109.07	121.32	0.00	0.00	0.00
2,800.00	2.79	295.96	2,796.96	55.24	-113.45	126.18	0.00	0.00	0.00
2,800.04	2.79	295.96	2,797.00	55.24	-113.45	126.18	0.00	0.00	0.00
WSTC									
2,900.00	2.79	295.96	2,896.84	57.37	-117.82	131.04	0.00	0.00	0.00
3,000.00	2.79	295.96	2,996.72	59.50	-122.19	135.91	0.00	0.00	0.00
3,100.00	2.79	295.96	3,096.60	61.63	-126.56	140.77	0.00	0.00	0.00
3,200.00	2.79	295.96	3,196.49	63.76	-130.93	145.63	0.00	0.00	0.00
3,300.00	2.79	295.96	3,296.37	65.89	-135.30	150.49	0.00	0.00	0.00
3,300.63	2.79	295.96	3,297.00	65.90	-135.33	150.52	0.00	0.00	0.00
Surface Casing									

# Scientific Drilling, Intl

## Planning Report

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<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Federal RG 313-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	2.79	295.96	3,396.25	68.02	-139.67	155.35	0.00	0.00	0.00	
3,500.00	2.79	295.96	3,496.13	70.14	-144.04	160.21	0.00	0.00	0.00	
3,600.00	2.79	295.96	3,596.01	72.27	-148.41	165.08	0.00	0.00	0.00	
3,700.00	2.79	295.96	3,695.89	74.40	-152.79	169.94	0.00	0.00	0.00	
3,800.00	2.79	295.96	3,795.78	76.53	-157.16	174.80	0.00	0.00	0.00	
3,900.00	2.79	295.96	3,895.66	78.66	-161.53	179.66	0.00	0.00	0.00	
4,000.00	2.79	295.96	3,995.54	80.79	-165.90	184.52	0.00	0.00	0.00	
4,100.00	2.79	295.96	4,095.42	82.92	-170.27	189.39	0.00	0.00	0.00	
4,200.00	2.79	295.96	4,195.30	85.04	-174.64	194.25	0.00	0.00	0.00	
4,300.00	2.79	295.96	4,295.18	87.17	-179.01	199.11	0.00	0.00	0.00	
4,400.00	2.79	295.96	4,395.07	89.30	-183.38	203.97	0.00	0.00	0.00	
4,500.00	2.79	295.96	4,494.95	91.43	-187.75	208.83	0.00	0.00	0.00	
4,600.00	2.79	295.96	4,594.83	93.56	-192.13	213.69	0.00	0.00	0.00	
4,700.00	2.79	295.96	4,694.71	95.69	-196.50	218.56	0.00	0.00	0.00	
4,800.00	2.79	295.96	4,794.59	97.82	-200.87	223.42	0.00	0.00	0.00	
4,900.00	2.79	295.96	4,894.47	99.94	-205.24	228.28	0.00	0.00	0.00	
5,000.00	2.79	295.96	4,994.36	102.07	-209.61	233.14	0.00	0.00	0.00	
5,100.00	2.79	295.96	5,094.24	104.20	-213.98	238.00	0.00	0.00	0.00	
5,112.78	2.79	295.96	5,107.00	104.47	-214.54	238.63	0.00	0.00	0.00	
<b>G_SAND</b>										
5,200.00	2.79	295.96	5,194.12	106.33	-218.35	242.87	0.00	0.00	0.00	
5,300.00	2.79	295.96	5,294.00	108.46	-222.72	247.73	0.00	0.00	0.00	
5,400.00	2.79	295.96	5,393.88	110.59	-227.09	252.59	0.00	0.00	0.00	
5,443.17	2.79	295.96	5,437.00	111.51	-228.98	254.69	0.00	0.00	0.00	
<b>FRUN</b>										
5,500.00	2.79	295.96	5,493.77	112.72	-231.47	257.45	0.00	0.00	0.00	
5,600.00	2.79	295.96	5,593.65	114.84	-235.84	262.31	0.00	0.00	0.00	
5,700.00	2.79	295.96	5,693.53	116.97	-240.21	267.18	0.00	0.00	0.00	
5,800.00	2.79	295.96	5,793.41	119.10	-244.58	272.04	0.00	0.00	0.00	
5,900.00	2.79	295.96	5,893.29	121.23	-248.95	276.90	0.00	0.00	0.00	
6,000.00	2.79	295.96	5,993.17	123.36	-253.32	281.76	0.00	0.00	0.00	
6,100.00	2.79	295.96	6,093.06	125.49	-257.69	286.62	0.00	0.00	0.00	
6,200.00	2.79	295.96	6,192.94	127.62	-262.06	291.48	0.00	0.00	0.00	
6,300.00	2.79	295.96	6,292.82	129.74	-266.44	296.35	0.00	0.00	0.00	
6,400.00	2.79	295.96	6,392.70	131.87	-270.81	301.21	0.00	0.00	0.00	
6,500.00	2.79	295.96	6,492.58	134.00	-275.18	306.07	0.00	0.00	0.00	
6,600.00	2.79	295.96	6,592.46	136.13	-279.55	310.93	0.00	0.00	0.00	
6,700.00	2.79	295.96	6,692.35	138.26	-283.92	315.79	0.00	0.00	0.00	
6,784.75	2.79	295.96	6,777.00	140.06	-287.62	319.91	0.00	0.00	0.00	
<b>MVRD</b>										
6,800.00	2.79	295.96	6,792.23	140.39	-288.29	320.66	0.00	0.00	0.00	
6,900.00	2.79	295.96	6,892.11	142.52	-292.66	325.52	0.00	0.00	0.00	
7,000.00	2.79	295.96	6,991.99	144.64	-297.03	330.38	0.00	0.00	0.00	
7,100.00	2.79	295.96	7,091.87	146.77	-301.40	335.24	0.00	0.00	0.00	
7,200.00	2.79	295.96	7,191.76	148.90	-305.78	340.10	0.00	0.00	0.00	
7,300.00	2.79	295.96	7,291.64	151.03	-310.15	344.96	0.00	0.00	0.00	
7,400.00	2.79	295.96	7,391.52	153.16	-314.52	349.83	0.00	0.00	0.00	
7,500.00	2.79	295.96	7,491.40	155.29	-318.89	354.69	0.00	0.00	0.00	
7,600.00	2.79	295.96	7,591.28	157.42	-323.26	359.55	0.00	0.00	0.00	
7,700.00	2.79	295.96	7,691.16	159.54	-327.63	364.41	0.00	0.00	0.00	
7,800.00	2.79	295.96	7,791.05	161.67	-332.00	369.27	0.00	0.00	0.00	
7,860.32	2.79	295.96	7,851.29	162.96	-334.64	372.21	0.00	0.00	0.00	

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## Planning Report

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<b>Well:</b>	Federal RG 313-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
<b>Start Drop -1.50</b>									
7,900.00	2.19	295.96	7,890.94	163.71	-336.19	373.93	1.50	-1.50	0.00
8,000.00	0.69	295.96	7,990.90	164.81	-338.45	376.45	1.50	-1.50	0.00
8,046.10	0.00	0.00	8,037.00	164.93	-338.70	376.72	1.50	-1.50	138.91
<b>Start 3660.00 hold at 8046.10 MD - KLVGAS</b>									
8,100.00	0.00	0.00	8,090.90	164.93	-338.70	376.72	0.00	0.00	0.00
8,200.00	0.00	0.00	8,190.90	164.93	-338.70	376.72	0.00	0.00	0.00
8,300.00	0.00	0.00	8,290.90	164.93	-338.70	376.72	0.00	0.00	0.00
8,400.00	0.00	0.00	8,390.90	164.93	-338.70	376.72	0.00	0.00	0.00
8,500.00	0.00	0.00	8,490.90	164.93	-338.70	376.72	0.00	0.00	0.00
8,600.00	0.00	0.00	8,590.90	164.93	-338.70	376.72	0.00	0.00	0.00
8,700.00	0.00	0.00	8,690.90	164.93	-338.70	376.72	0.00	0.00	0.00
8,800.00	0.00	0.00	8,790.90	164.93	-338.70	376.72	0.00	0.00	0.00
8,900.00	0.00	0.00	8,890.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,000.00	0.00	0.00	8,990.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,100.00	0.00	0.00	9,090.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,200.00	0.00	0.00	9,190.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,300.00	0.00	0.00	9,290.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,400.00	0.00	0.00	9,390.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,500.00	0.00	0.00	9,490.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,600.00	0.00	0.00	9,590.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,700.00	0.00	0.00	9,690.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,800.00	0.00	0.00	9,790.90	164.93	-338.70	376.72	0.00	0.00	0.00
9,900.00	0.00	0.00	9,890.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,000.00	0.00	0.00	9,990.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,100.00	0.00	0.00	10,090.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,196.10	0.00	0.00	10,187.00	164.93	-338.70	376.72	0.00	0.00	0.00
<b>CME0*</b>									
10,200.00	0.00	0.00	10,190.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,300.00	0.00	0.00	10,290.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,400.00	0.00	0.00	10,390.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,500.00	0.00	0.00	10,490.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,600.00	0.00	0.00	10,590.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,700.00	0.00	0.00	10,690.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,716.10	0.00	0.00	10,707.00	164.93	-338.70	376.72	0.00	0.00	0.00
<b>RLNS</b>									
10,800.00	0.00	0.00	10,790.90	164.93	-338.70	376.72	0.00	0.00	0.00
10,866.10	0.00	0.00	10,857.00	164.93	-338.70	376.72	0.00	0.00	0.00
<b>CZZT</b>									
10,900.00	0.00	0.00	10,890.90	164.93	-338.70	376.72	0.00	0.00	0.00
11,000.00	0.00	0.00	10,990.90	164.93	-338.70	376.72	0.00	0.00	0.00
11,086.10	0.00	0.00	11,077.00	164.93	-338.70	376.72	0.00	0.00	0.00
<b>CRCN</b>									
11,100.00	0.00	0.00	11,090.90	164.93	-338.70	376.72	0.00	0.00	0.00
11,200.00	0.00	0.00	11,190.90	164.93	-338.70	376.72	0.00	0.00	0.00
11,300.00	0.00	0.00	11,290.90	164.93	-338.70	376.72	0.00	0.00	0.00
11,400.00	0.00	0.00	11,390.90	164.93	-338.70	376.72	0.00	0.00	0.00
11,436.10	0.00	0.00	11,427.00	164.93	-338.70	376.72	0.00	0.00	0.00
<b>SEGO_UPPER</b>									
11,500.00	0.00	0.00	11,490.90	164.93	-338.70	376.72	0.00	0.00	0.00
11,600.00	0.00	0.00	11,590.90	164.93	-338.70	376.72	0.00	0.00	0.00
11,606.10	0.00	0.00	11,597.00	164.93	-338.70	376.72	0.00	0.00	0.00

# Scientific Drilling, Intl

## Planning Report

<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well Federal RG 313-7-297 - Slot RGU 313-7-297
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Federal RG 313-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
<b>SEGO_LOWER</b>									
11,700.00	0.00	0.00	11,690.90	164.93	-338.70	376.72	0.00	0.00	0.00
11,706.10	0.00	0.00	11,697.00	164.93	-338.70	376.72	0.00	0.00	0.00
<b>TD at 11706.10 - TD</b>									

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 313-7-297 KMV Gz	0.00	0.00	8,037.00	164.93	-338.70	1,761,064.7000	2,205,879.4000	39.8889753	-108.3302886
- plan hits target center									
- Circle (radius 75.00)									
FRG 313-7-297 TD	0.00	0.00	11,697.00	164.93	-338.70	1,761,064.7000	2,205,879.4000	39.8889753	-108.3302886
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
3,300.63	3,297.00	Surface Casing	0.00	0.00	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
922.82	922.00	GRRV		0.00	
1,078.01	1,077.00	GRRV_A_GROOVE		0.00	
1,268.23	1,267.00	GRRV_B_GROOVE		0.00	
1,598.62	1,597.00	GRRV DISSOLUTION_SURF		0.00	
2,569.77	2,567.00	GRRV_ORANGE		0.00	
2,800.04	2,797.00	WSTC		0.00	
5,112.78	5,107.00	G_SAND		0.00	
5,443.17	5,437.00	FRUN		0.00	
6,784.75	6,777.00	MVRD		0.00	
8,046.10	8,037.00	KMVGAS		0.00	
10,196.10	10,187.00	CMEQ*		0.00	
10,716.10	10,707.00	RLNS		0.00	
10,866.10	10,857.00	CZZT		0.00	
11,086.10	11,077.00	CRCN		0.00	
11,436.10	11,427.00	SEGO_UPPER		0.00	
11,606.10	11,597.00	SEGO_LOWER		0.00	
11,706.10	11,697.00	TD		0.00	

# Scientific Drilling, Intl

## Planning Report

<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well Federal RG 313-7-297 - Slot RGU 313-7-297
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 6603' & KB 24' @ 6627.00usft (H&P 318)
<b>Site:</b>	RGU 23-7-297 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Federal RG 313-7-297	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #2 7April2020 SB-SDI		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
135.00	135.00	0.00	0.00	Start Build 2.00
274.34	274.28	1.48	-3.05	Start 7585.98 hold at 274.34 MD
7,860.32	7,851.29	162.96	-334.64	Start Drop -1.50
8,046.10	8,037.00	164.93	-338.70	Start 3660.00 hold at 8046.10 MD
11,706.10	11,697.00	164.93	-338.70	TD at 11706.10