



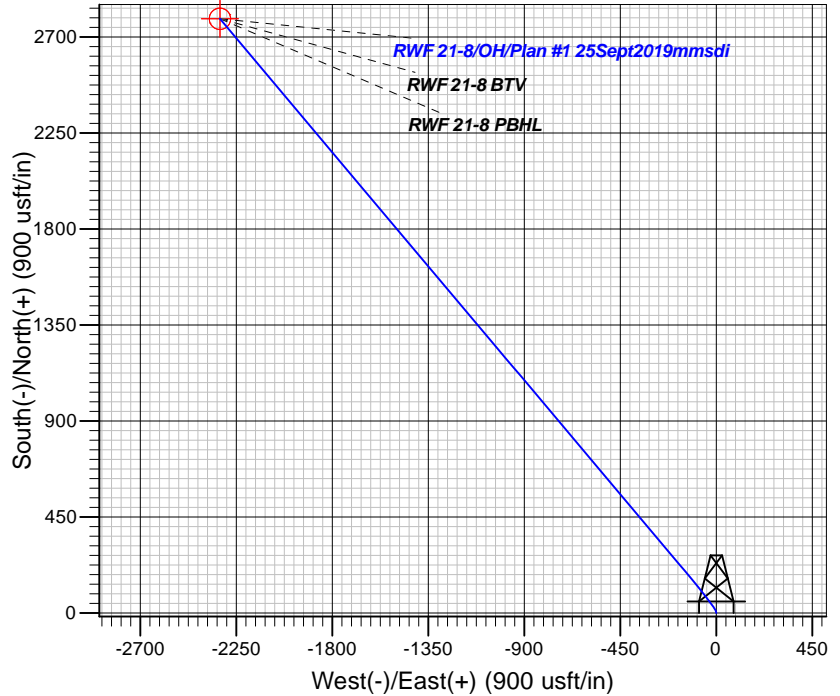
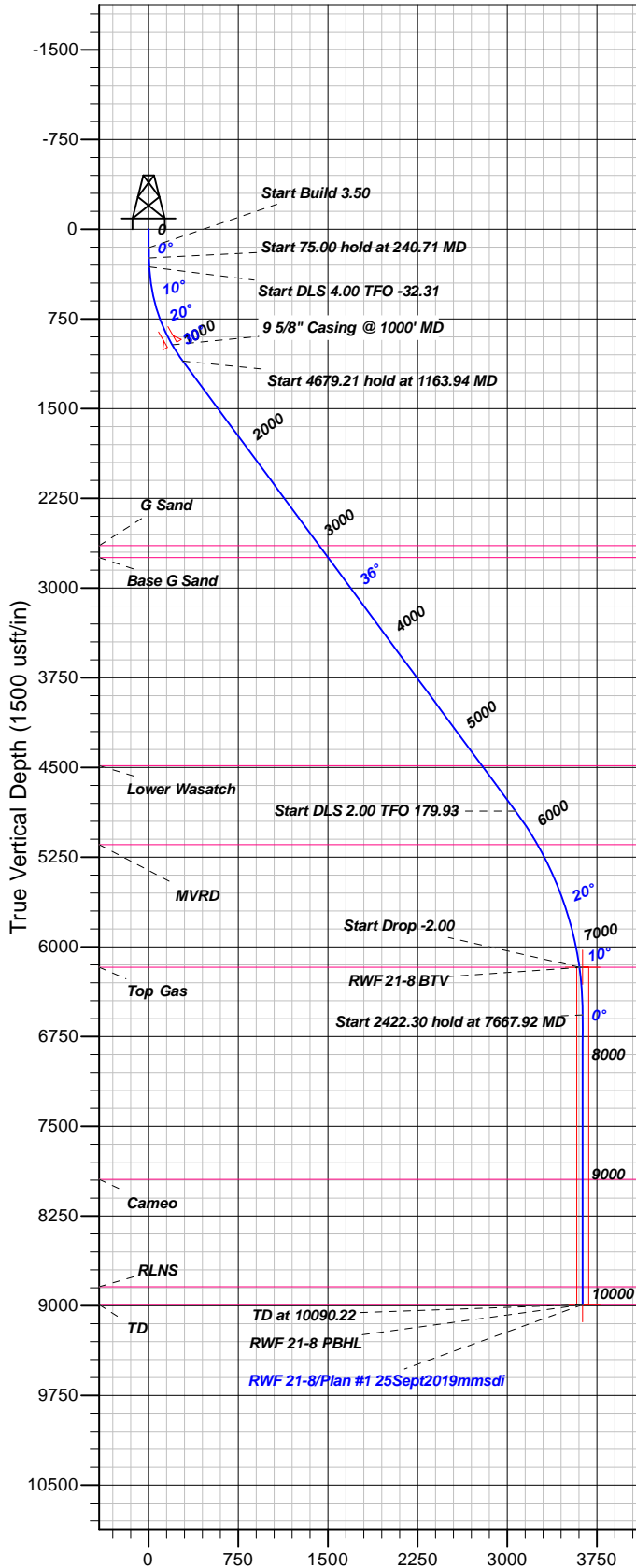
Azimuths to True North  
Magnetic North: 9.30°

Magnetic Field  
Strength: 51443.5snT  
Dip Angle: 65.73°  
Date: 9/25/2019  
Model: HDGM

## Well Details: RWF 21-8

GL 5979.6' & RKB 24' @ 6003.60usft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1630278.4760	2322152.8610	39.5392770	-107.9037640	RWF 21-8 (B4)



## FORMATION TOP DETAILS

TVDP	MD	Formation
2645.00	3081.83	G Sand
2745.00	3206.22	Base G Sand
4485.00	5370.65	Lower Wasatch
5145.00	6177.95	MVRD
6170.00	7267.92	Top Gas
7944.00	9043.22	Cameo
8841.00	9940.22	RLNS
8991.00	10090.22	TD

Plan: Plan #1 25Sept2019mmsdi

17:40, October 07 2019  
Created By: Mel Mireles

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

## CASING DETAILS

TVD	MD	Name	Size
966.13	1000.00	5/8" Casing @ 1000' MD	9.62

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	155.00	0.00	0.00	155.00	0.00	0.00	0.00	0.00	0.00	
3	240.71	3.00	350.00	240.68	2.21	-0.39	3.50	350.00	1.95	
4	315.71	3.00	350.00	315.57	6.07	-1.07	0.00	0.00	5.35	
5	1163.94	36.50	319.89	1103.20	227.36	-172.47	4.00	-32.31	285.06	
6	5843.15	36.50	319.89	4864.84	2355.89	-1965.35	0.00	0.00	3068.03	
7	7267.92	8.00	320.13	6170.00	2764.50	-2308.98	2.00	179.93	3601.92	
8	7667.92	0.00	0.00	6568.70	2785.90	-2326.85	2.00	180.00	3629.80	
9	10090.22	0.00	0.00	8991.00	2785.90	-2326.85	0.00	0.00	3629.80	RWF 21-8 PBHL

## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RWF 21-8 BT	6170.00	2785.90	-2326.85	3124.96	19900.5300	39.5469251	-107.9120154	Circle (Radius: 50.00)
- plan misses target center by 27.61usft at 7271.65usft MD (6173.69 TVD, 2764.90 N, -2309.31 E)								
RWF 21-8 PBHL	8991.00	2785.90	-2326.85	3124.96	19900.5300	39.5469251	-107.9120154	Point
- plan hits target center								



# **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**RWF 12-9 Pad**

**RWF 21-8 - Slot RWF 21-8 (B4)**

**OH**

**Plan: Plan #1 25Sept2019mmsdi**

## **Standard Planning Report**

**07 October, 2019**



<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RWF 21-8 - Slot RWF 21-8 (B4)
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Site:</b>	RWF 12-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 21-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 25Sept2019mmsdi		

<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		

Site		RWF 12-9 Pad, Sec 9 T6S R94W			
Site Position:		Northing:	1,630,302.1330 usft	Latitude:	39.5393436
From:	Map	Easting:	2,322,174.9450 usft	Longitude:	-107.9036880
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-1.52 °

Well	RWF 21-8 - Slot RWF 21-8 (B4)					
Well Position	+N/-S	-24.23 usft	Northing:	1,630,278.4760 usft	Latitude:	39.5392770
	+E/-W	-21.45 usft	Easting:	2,322,152.8610 usft	Longitude:	-107.9037640
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	5,979.60 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	9/25/2019	9.30	65.73	51,444

<b>Design</b>	Plan #1 25Sept2019mmsdi			
<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	320.13

<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	
155.00	0.00	0.00	155.00	0.00	0.00	0.00	0.00	0.00	0.00	
240.71	3.00	350.00	240.68	2.21	-0.39	3.50	3.50	0.00	350.00	
315.71	3.00	350.00	315.57	6.07	-1.07	0.00	0.00	0.00	0.00	
1,163.94	36.50	319.89	1,103.20	227.36	-172.47	4.00	3.95	-3.55	-32.31	
5,843.15	36.50	319.89	4,864.84	2,355.89	-1,965.35	0.00	0.00	0.00	0.00	
7,267.92	8.00	320.13	6,170.00	2,764.50	-2,308.98	2.00	-2.00	0.02	179.93	
7,667.92	0.00	0.00	6,568.70	2,785.90	-2,326.85	2.00	-2.00	0.00	180.00	
10,090.22	0.00	0.00	8,991.00	2,785.90	-2,326.85	0.00	0.00	0.00	0.00	RWF 21-8 PBHL

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RWF 21-8 - Slot RWF 21-8 (B4)
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Site:</b>	RWF 12-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 21-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 25Sept2019mmsdi		

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
155.00	0.00	0.00	155.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 3.50</b>									
200.00	1.58	350.00	199.99	0.61	-0.11	0.54	3.50	3.50	0.00
240.71	3.00	350.00	240.68	2.21	-0.39	1.95	3.50	3.50	0.00
<b>Start 75.00 hold at 240.71 MD</b>									
300.00	3.00	350.00	299.88	5.27	-0.93	4.64	0.00	0.00	0.00
315.71	3.00	350.00	315.57	6.07	-1.07	5.35	0.00	0.00	0.00
<b>Start DLS 4.00 TFO -32.31</b>									
400.00	6.12	332.85	399.58	12.25	-3.51	11.65	4.00	3.70	-20.34
500.00	10.04	326.82	498.57	24.29	-10.71	25.51	4.00	3.91	-6.03
600.00	14.00	324.17	596.36	41.39	-22.56	46.23	4.00	3.96	-2.65
700.00	17.98	322.67	692.48	63.48	-39.00	73.72	4.00	3.98	-1.50
800.00	21.96	321.70	786.45	90.44	-59.96	107.85	4.00	3.99	-0.97
900.00	25.95	321.02	877.81	122.14	-85.32	148.44	4.00	3.99	-0.68
1,000.00	29.95	320.51	966.13	158.42	-114.97	195.29	4.00	3.99	-0.51
<b>9 5/8" Casing @ 1000' MD</b>									
1,100.00	33.94	320.11	1,050.97	199.12	-148.77	248.19	4.00	3.99	-0.40
1,163.94	36.50	319.89	1,103.20	227.36	-172.47	285.06	4.00	4.00	-0.34
<b>Start 4679.21 hold at 1163.94 MD</b>									
1,200.00	36.50	319.89	1,132.19	243.77	-186.28	306.51	0.00	0.00	0.00
1,300.00	36.50	319.89	1,212.58	289.26	-224.60	365.98	0.00	0.00	0.00
1,400.00	36.50	319.89	1,292.97	334.75	-262.92	425.46	0.00	0.00	0.00
1,500.00	36.50	319.89	1,373.36	380.23	-301.23	484.93	0.00	0.00	0.00
1,600.00	36.50	319.89	1,453.75	425.72	-339.55	544.41	0.00	0.00	0.00
1,700.00	36.50	319.89	1,534.14	471.21	-377.86	603.89	0.00	0.00	0.00
1,800.00	36.50	319.89	1,614.53	516.70	-416.18	663.36	0.00	0.00	0.00
1,900.00	36.50	319.89	1,694.92	562.19	-454.50	722.84	0.00	0.00	0.00
2,000.00	36.50	319.89	1,775.31	607.68	-492.81	782.31	0.00	0.00	0.00
2,100.00	36.50	319.89	1,855.71	653.17	-531.13	841.79	0.00	0.00	0.00
2,200.00	36.50	319.89	1,936.10	698.66	-569.44	901.26	0.00	0.00	0.00
2,300.00	36.50	319.89	2,016.49	744.15	-607.76	960.74	0.00	0.00	0.00
2,400.00	36.50	319.89	2,096.88	789.64	-646.08	1,020.21	0.00	0.00	0.00
2,500.00	36.50	319.89	2,177.27	835.12	-684.39	1,079.69	0.00	0.00	0.00
2,600.00	36.50	319.89	2,257.66	880.61	-722.71	1,139.16	0.00	0.00	0.00
2,700.00	36.50	319.89	2,338.05	926.10	-761.02	1,198.64	0.00	0.00	0.00
2,800.00	36.50	319.89	2,418.44	971.59	-799.34	1,258.11	0.00	0.00	0.00
2,900.00	36.50	319.89	2,498.83	1,017.08	-837.66	1,317.59	0.00	0.00	0.00
3,000.00	36.50	319.89	2,579.22	1,062.57	-875.97	1,377.06	0.00	0.00	0.00
3,081.83	36.50	319.89	2,645.00	1,099.79	-907.32	1,425.73	0.00	0.00	0.00
<b>G Sand</b>									
3,100.00	36.50	319.89	2,659.61	1,108.06	-914.29	1,436.54	0.00	0.00	0.00
3,200.00	36.50	319.89	2,740.00	1,153.55	-952.60	1,496.01	0.00	0.00	0.00
3,206.22	36.50	319.89	2,745.00	1,156.38	-954.99	1,499.71	0.00	0.00	0.00
<b>Base G Sand</b>									
3,300.00	36.50	319.89	2,820.39	1,199.04	-990.92	1,555.49	0.00	0.00	0.00
3,400.00	36.50	319.89	2,900.78	1,244.53	-1,029.24	1,614.96	0.00	0.00	0.00
3,500.00	36.50	319.89	2,981.17	1,290.02	-1,067.55	1,674.44	0.00	0.00	0.00
3,600.00	36.50	319.89	3,061.56	1,335.50	-1,105.87	1,733.92	0.00	0.00	0.00
3,700.00	36.50	319.89	3,141.95	1,380.99	-1,144.18	1,793.39	0.00	0.00	0.00
3,800.00	36.50	319.89	3,222.34	1,426.48	-1,182.50	1,852.87	0.00	0.00	0.00
3,900.00	36.50	319.89	3,302.73	1,471.97	-1,220.82	1,912.34	0.00	0.00	0.00

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RWF 21-8 - Slot RWF 21-8 (B4)
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Site:</b>	RWF 12-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 21-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 25Sept2019mmsdi		

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)
4,000.00	36.50	319.89	3,383.12	1,517.46	-1,259.13	1,971.82	0.00	0.00	0.00
4,100.00	36.50	319.89	3,463.52	1,562.95	-1,297.45	2,031.29	0.00	0.00	0.00
4,200.00	36.50	319.89	3,543.91	1,608.44	-1,335.76	2,090.77	0.00	0.00	0.00
4,300.00	36.50	319.89	3,624.30	1,653.93	-1,374.08	2,150.24	0.00	0.00	0.00
4,400.00	36.50	319.89	3,704.69	1,699.42	-1,412.40	2,209.72	0.00	0.00	0.00
4,500.00	36.50	319.89	3,785.08	1,744.91	-1,450.71	2,269.19	0.00	0.00	0.00
4,600.00	36.50	319.89	3,865.47	1,790.39	-1,489.03	2,328.67	0.00	0.00	0.00
4,700.00	36.50	319.89	3,945.86	1,835.88	-1,527.34	2,388.14	0.00	0.00	0.00
4,800.00	36.50	319.89	4,026.25	1,881.37	-1,565.66	2,447.62	0.00	0.00	0.00
4,900.00	36.50	319.89	4,106.64	1,926.86	-1,603.98	2,507.09	0.00	0.00	0.00
5,000.00	36.50	319.89	4,187.03	1,972.35	-1,642.29	2,566.57	0.00	0.00	0.00
5,100.00	36.50	319.89	4,267.42	2,017.84	-1,680.61	2,626.04	0.00	0.00	0.00
5,200.00	36.50	319.89	4,347.81	2,063.33	-1,718.92	2,685.52	0.00	0.00	0.00
5,300.00	36.50	319.89	4,428.20	2,108.82	-1,757.24	2,744.99	0.00	0.00	0.00
5,370.65	36.50	319.89	4,485.00	2,140.96	-1,784.31	2,787.02	0.00	0.00	0.00
<b>Lower Wasatch</b>									
5,400.00	36.50	319.89	4,508.59	2,154.31	-1,795.56	2,804.47	0.00	0.00	0.00
5,500.00	36.50	319.89	4,588.98	2,199.80	-1,833.87	2,863.95	0.00	0.00	0.00
5,600.00	36.50	319.89	4,669.37	2,245.28	-1,872.19	2,923.42	0.00	0.00	0.00
5,700.00	36.50	319.89	4,749.76	2,290.77	-1,910.50	2,982.90	0.00	0.00	0.00
5,800.00	36.50	319.89	4,830.15	2,336.26	-1,948.82	3,042.37	0.00	0.00	0.00
5,843.15	36.50	319.89	4,864.84	2,355.89	-1,965.35	3,068.03	0.00	0.00	0.00
<b>Start DLS 2.00 TFO 179.93</b>									
5,900.00	35.36	319.89	4,910.88	2,381.40	-1,986.84	3,101.39	2.00	-2.00	0.00
6,000.00	33.36	319.90	4,993.43	2,424.57	-2,023.19	3,157.82	2.00	-2.00	0.00
6,100.00	31.36	319.90	5,077.89	2,465.51	-2,057.67	3,211.34	2.00	-2.00	0.01
6,177.95	29.80	319.91	5,145.00	2,495.84	-2,083.20	3,251.00	2.00	-2.00	0.01
<b>MVRD</b>									
6,200.00	29.36	319.91	5,164.18	2,504.17	-2,090.21	3,261.88	2.00	-2.00	0.01
6,300.00	27.36	319.92	5,252.17	2,540.51	-2,120.80	3,309.38	2.00	-2.00	0.01
6,400.00	25.36	319.92	5,341.77	2,574.48	-2,149.38	3,353.77	2.00	-2.00	0.01
6,500.00	23.36	319.93	5,432.86	2,606.04	-2,175.93	3,395.01	2.00	-2.00	0.01
6,600.00	21.36	319.94	5,525.34	2,635.15	-2,200.42	3,433.05	2.00	-2.00	0.01
6,700.00	19.36	319.95	5,619.09	2,661.78	-2,222.80	3,467.84	2.00	-2.00	0.01
6,800.00	17.36	319.97	5,714.00	2,685.89	-2,243.06	3,499.33	2.00	-2.00	0.01
6,900.00	15.36	319.99	5,809.94	2,707.45	-2,261.17	3,527.50	2.00	-2.00	0.02
7,000.00	13.36	320.01	5,906.81	2,726.45	-2,277.11	3,552.29	2.00	-2.00	0.02
7,100.00	11.36	320.04	6,004.49	2,742.85	-2,290.86	3,573.69	2.00	-2.00	0.03
7,200.00	9.36	320.09	6,102.86	2,756.64	-2,302.41	3,591.67	2.00	-2.00	0.04
7,267.92	8.00	320.13	6,170.00	2,764.50	-2,308.98	3,601.92	2.00	-2.00	0.06
<b>Start Drop -2.00 - Top Gas</b>									
7,271.65	7.93	320.13	6,173.69	2,764.90	-2,309.31	3,602.44	2.00	-2.00	0.00
<b>RWF 21-8 BTV</b>									
7,300.00	7.36	320.13	6,201.79	2,767.79	-2,311.73	3,606.21	2.00	-2.00	0.00
7,400.00	5.36	320.13	6,301.17	2,776.29	-2,318.83	3,617.28	2.00	-2.00	0.00
7,500.00	3.36	320.13	6,400.88	2,782.12	-2,323.70	3,624.88	2.00	-2.00	0.00
7,600.00	1.36	320.13	6,500.79	2,785.28	-2,326.34	3,629.00	2.00	-2.00	0.00
7,667.92	0.00	0.00	6,568.70	2,785.90	-2,326.85	3,629.80	2.00	-2.00	0.00
<b>Start 2422.30 hold at 7667.92 MD</b>									
7,700.00	0.00	0.00	6,600.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
7,800.00	0.00	0.00	6,700.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
7,900.00	0.00	0.00	6,800.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
8,000.00	0.00	0.00	6,900.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RWF 21-8 - Slot RWF 21-8 (B4)
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Site:</b>	RWF 12-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 21-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 25Sept2019mmsdi		

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)
8,100.00	0.00	0.00	7,000.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
8,200.00	0.00	0.00	7,100.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
8,300.00	0.00	0.00	7,200.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
8,400.00	0.00	0.00	7,300.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
8,500.00	0.00	0.00	7,400.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
8,600.00	0.00	0.00	7,500.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
8,700.00	0.00	0.00	7,600.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
8,800.00	0.00	0.00	7,700.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
8,900.00	0.00	0.00	7,800.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,000.00	0.00	0.00	7,900.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,043.22	0.00	0.00	7,944.00	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
Cameo									
9,100.00	0.00	0.00	8,000.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,200.00	0.00	0.00	8,100.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,300.00	0.00	0.00	8,200.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,400.00	0.00	0.00	8,300.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,500.00	0.00	0.00	8,400.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,600.00	0.00	0.00	8,500.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,700.00	0.00	0.00	8,600.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,800.00	0.00	0.00	8,700.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,900.00	0.00	0.00	8,800.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
9,940.22	0.00	0.00	8,841.00	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
RLNS									
10,000.00	0.00	0.00	8,900.78	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
10,090.22	0.00	0.00	8,991.00	2,785.90	-2,326.85	3,629.80	0.00	0.00	0.00
TD at 10090.22 - TD - RWF 21-8 PBHL									

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									
RWF 21-8 BTV	0.00	0.00	6,170.00	2,785.90	-2,326.85	1,633,124.9600	2,319,900.5300	39.5469252	-107.9120154
- plan misses target center by 27.61usft at 7271.65usft MD (6173.69 TVD, 2764.90 N, -2309.31 E)									
- Circle (radius 50.00)									
RWF 21-8 PBHL	0.00	0.00	8,991.00	2,785.90	-2,326.85	1,633,124.9600	2,319,900.5300	39.5469252	-107.9120154
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.00	966.13	9 5/8" Casing @ 1000' MD	9.62	13.50	

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RWF 21-8 - Slot RWF 21-8 (B4)
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 5979.6' & RKB 24' @ 6003.60usft
<b>Site:</b>	RWF 12-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 21-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 25Sept2019mmsdi		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,081.83	2,645.00	G Sand		0.00	0.00	
3,206.22	2,745.00	Base G Sand		0.00	0.00	
5,370.65	4,485.00	Lower Wasatch		0.00	0.00	
6,177.95	5,145.00	MVRD		0.00	0.00	
7,267.92	6,170.00	Top Gas		0.00	0.00	
9,043.22	7,944.00	Cameo		0.00	0.00	
9,940.22	8,841.00	RLNS		0.00	0.00	
10,090.22	8,991.00	TD		0.00	0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
155.00	155.00	0.00	0.00	Start Build 3.50	
240.71	240.68	2.21	-0.39	Start 75.00 hold at 240.71 MD	
315.71	315.57	6.07	-1.07	Start DLS 4.00 TFO -32.31	
1,163.94	1,103.20	227.36	-172.47	Start 4679.21 hold at 1163.94 MD	
5,843.15	4,864.84	2,355.89	-1,965.35	Start DLS 2.00 TFO 179.93	
7,267.92	6,170.00	2,764.50	-2,308.98	Start Drop -2.00	
7,667.92	6,568.70	2,785.90	-2,326.85	Start 2422.30 hold at 7667.92 MD	
10,090.22	8,991.00	2,785.90	-2,326.85	TD at 10090.22	