



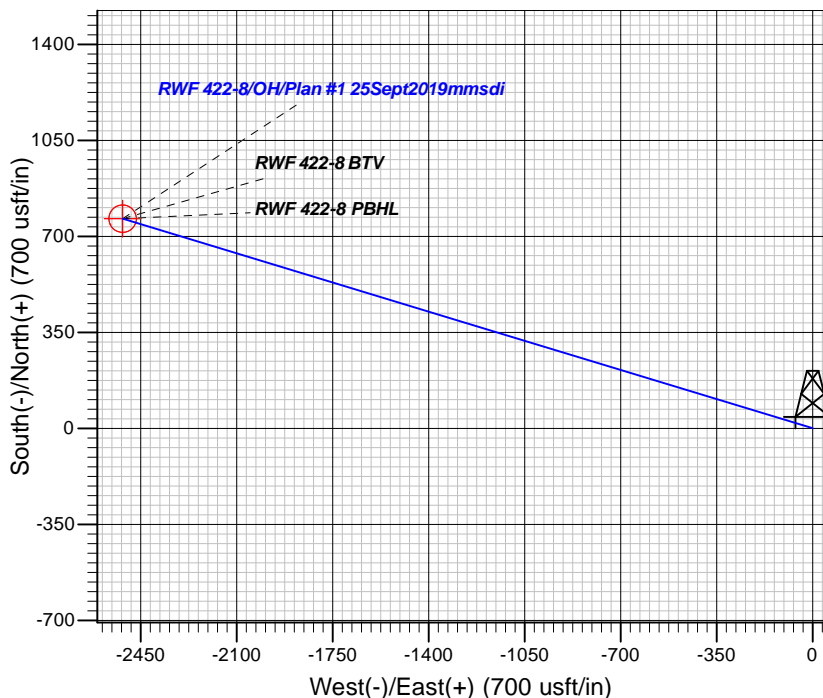
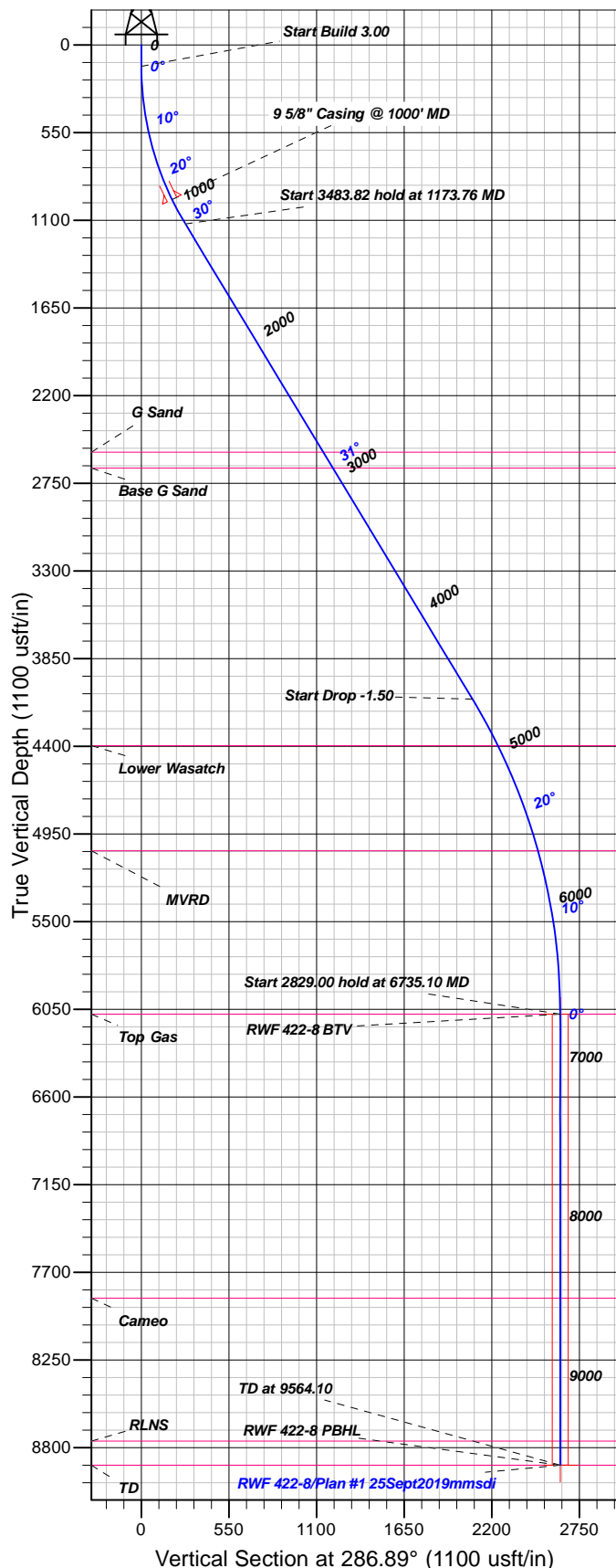
Azimuths to True North  
Magnetic North: 9.30°

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

## Well Details: RWF 422-8

GL 5979.6' & RKB 24' @ 6003.60usft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1630234.8440	2322121.8010	39.5391550	-107.9038700	RWF 422-8 (A11)



## FORMATION TOP DETAILS

TVDP	MD	Formation
2556.00	2848.06	G Sand
2656.00	2964.93	Base G Sand
4396.00	4990.02	Lower Wasatch
5056.00	5697.38	MVRD
6081.00	6735.10	Top Gas
7863.00	8517.10	Cameo
8760.00	9414.10	RLNS
8910.00	9564.10	TD

Plan: Plan #1 25Sept2019mmsdi

11:33, October 08 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

TVDP	MD	Name	Size
970.73	1000.00	5/8" Casing @ 1000' MD	9.62

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	
3	1173.76	31.16	286.89	1123.30	80.08	-263.70	3.00	286.89	275.59	
4	4657.58	31.16	286.89	4104.41	603.96	-1988.68	0.00	0.00	2078.37	
5	6735.10	0.00	0.00	6081.00	764.12	-2516.08	1.50	180.00	2629.55	RWF 422-8 BTV
6	9564.10	0.00	0.00	8910.00	764.12	-2516.08	0.00	0.00	2629.55	RWF 422-8 PBHL

## DESIGN TARGET DETAILS

Name	TVDP	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RWF 422-8 BTV	6081.00	764.12	-2516.08	31065.27	2319626.82	39.5412525	-107.9127917	Circle (Radius: 50.00)
- plan hits target center								
RWF 422-8 PBHL	8910.00	764.12	-2516.08	31065.27	2319626.82	39.5412525	-107.9127917	Point
- plan hits target center								



# **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**RWF 12-9 Pad**

**RWF 422-8 - Slot RWF 422-8 (A11)**

**OH**

**Plan: Plan #1 25Sept2019mmsdi**

## **Standard Planning Report**

**08 October, 2019**



<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RWF 422-8 - Slot RWF 422-8 (A11)
<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 422-8	<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 422-8 - Slot RWF 422-8 (A11)					
Well Position	+N/-S	-68.67 usft	Northing:	1,630,234.8440 usft	Latitude:	39.5391550
	+E/-W	-51.35 usft	Easting:	2,322,121.8010 usft	Longitude:	-107.9038700
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	286.89

<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	
1,173.76	31.16	286.89	1,123.30	80.08	-263.70	3.00	3.00	0.00	286.89	
4,657.58	31.16	286.89	4,104.41	603.96	-1,988.68	0.00	0.00	0.00	0.00	
6,735.10	0.00	0.00	6,081.00	764.12	-2,516.08	1.50	-1.50	0.00	180.00	RWF 422-8 BTV
9,564.10	0.00	0.00	8,910.00	764.12	-2,516.08	0.00	0.00	0.00	0.00	RWF 422-8 PBHL

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<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 422-8	<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
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 3.00</b>									
200.00	1.95	286.89	199.99	0.32	-1.06	1.11	3.00	3.00	0.00
300.00	4.95	286.89	299.79	2.07	-6.82	7.12	3.00	3.00	0.00
400.00	7.95	286.89	399.15	5.33	-17.56	18.36	3.00	3.00	0.00
500.00	10.95	286.89	497.78	10.10	-33.27	34.77	3.00	3.00	0.00
600.00	13.95	286.89	595.42	16.37	-53.90	56.33	3.00	3.00	0.00
700.00	16.95	286.89	691.79	24.11	-79.39	82.97	3.00	3.00	0.00
800.00	19.95	286.89	786.64	33.30	-109.66	114.61	3.00	3.00	0.00
900.00	22.95	286.89	879.71	43.93	-144.65	151.17	3.00	3.00	0.00
1,000.00	25.95	286.89	970.73	55.96	-184.25	192.56	3.00	3.00	0.00
<b>9 5/8" Casing @ 1000' MD</b>									
1,100.00	28.95	286.89	1,059.46	69.35	-228.35	238.65	3.00	3.00	0.00
1,173.76	31.16	286.89	1,123.30	80.08	-263.70	275.59	3.00	3.00	0.00
<b>Start 3483.82 hold at 1173.76 MD</b>									
1,200.00	31.16	286.89	1,145.75	84.03	-276.69	289.17	0.00	0.00	0.00
1,300.00	31.16	286.89	1,231.32	99.07	-326.21	340.92	0.00	0.00	0.00
1,400.00	31.16	286.89	1,316.89	114.10	-375.72	392.66	0.00	0.00	0.00
1,500.00	31.16	286.89	1,402.46	129.14	-425.23	444.41	0.00	0.00	0.00
1,600.00	31.16	286.89	1,488.03	144.18	-474.75	496.16	0.00	0.00	0.00
1,700.00	31.16	286.89	1,573.60	159.22	-524.26	547.91	0.00	0.00	0.00
1,800.00	31.16	286.89	1,659.17	174.25	-573.78	599.65	0.00	0.00	0.00
1,900.00	31.16	286.89	1,744.74	189.29	-623.29	651.40	0.00	0.00	0.00
2,000.00	31.16	286.89	1,830.31	204.33	-672.80	703.15	0.00	0.00	0.00
2,100.00	31.16	286.89	1,915.88	219.37	-722.32	754.89	0.00	0.00	0.00
2,200.00	31.16	286.89	2,001.45	234.40	-771.83	806.64	0.00	0.00	0.00
2,300.00	31.16	286.89	2,087.02	249.44	-821.35	858.39	0.00	0.00	0.00
2,400.00	31.16	286.89	2,172.59	264.48	-870.86	910.14	0.00	0.00	0.00
2,500.00	31.16	286.89	2,258.16	279.51	-920.37	961.88	0.00	0.00	0.00
2,600.00	31.16	286.89	2,343.73	294.55	-969.89	1,013.63	0.00	0.00	0.00
2,700.00	31.16	286.89	2,429.30	309.59	-1,019.40	1,065.38	0.00	0.00	0.00
2,800.00	31.16	286.89	2,514.87	324.63	-1,068.92	1,117.12	0.00	0.00	0.00
2,848.06	31.16	286.89	2,556.00	331.85	-1,092.71	1,141.99	0.00	0.00	0.00
<b>G Sand</b>									
2,900.00	31.16	286.89	2,600.44	339.66	-1,118.43	1,168.87	0.00	0.00	0.00
2,964.93	31.16	286.89	2,656.00	349.43	-1,150.58	1,202.47	0.00	0.00	0.00
<b>Base G Sand</b>									
3,000.00	31.16	286.89	2,686.01	354.70	-1,167.95	1,220.62	0.00	0.00	0.00
3,100.00	31.16	286.89	2,771.58	369.74	-1,217.46	1,272.37	0.00	0.00	0.00
3,200.00	31.16	286.89	2,857.15	384.78	-1,266.97	1,324.11	0.00	0.00	0.00
3,300.00	31.16	286.89	2,942.72	399.81	-1,316.49	1,375.86	0.00	0.00	0.00
3,400.00	31.16	286.89	3,028.29	414.85	-1,366.00	1,427.61	0.00	0.00	0.00
3,500.00	31.16	286.89	3,113.86	429.89	-1,415.52	1,479.35	0.00	0.00	0.00
3,600.00	31.16	286.89	3,199.43	444.92	-1,465.03	1,531.10	0.00	0.00	0.00
3,700.00	31.16	286.89	3,285.00	459.96	-1,514.54	1,582.85	0.00	0.00	0.00
3,800.00	31.16	286.89	3,370.57	475.00	-1,564.06	1,634.59	0.00	0.00	0.00
3,900.00	31.16	286.89	3,456.14	490.04	-1,613.57	1,686.34	0.00	0.00	0.00
4,000.00	31.16	286.89	3,541.71	505.07	-1,663.09	1,738.09	0.00	0.00	0.00
4,100.00	31.16	286.89	3,627.28	520.11	-1,712.60	1,789.84	0.00	0.00	0.00
4,200.00	31.16	286.89	3,712.85	535.15	-1,762.11	1,841.58	0.00	0.00	0.00
4,300.00	31.16	286.89	3,798.42	550.18	-1,811.63	1,893.33	0.00	0.00	0.00
4,400.00	31.16	286.89	3,883.99	565.22	-1,861.14	1,945.08	0.00	0.00	0.00

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<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 422-8	<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)
4,500.00	31.16	286.89	3,969.56	580.26	-1,910.66	1,996.82	0.00	0.00	0.00
4,600.00	31.16	286.89	4,055.13	595.30	-1,960.17	2,048.57	0.00	0.00	0.00
4,657.58	31.16	286.89	4,104.41	603.96	-1,988.68	2,078.37	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
4,700.00	30.53	286.89	4,140.83	610.27	-2,009.49	2,100.12	1.50	-1.50	0.00
4,800.00	29.03	286.89	4,227.62	624.71	-2,057.01	2,149.78	1.50	-1.50	0.00
4,900.00	27.53	286.89	4,315.68	638.47	-2,102.34	2,197.15	1.50	-1.50	0.00
4,990.02	26.18	286.89	4,396.00	650.29	-2,141.24	2,237.81	1.50	-1.50	0.00
<b>Lower Wasatch</b>									
5,000.00	26.03	286.89	4,404.96	651.56	-2,145.44	2,242.20	1.50	-1.50	0.00
5,100.00	24.53	286.89	4,495.38	663.97	-2,186.30	2,284.90	1.50	-1.50	0.00
5,200.00	23.03	286.89	4,586.89	675.69	-2,224.87	2,325.21	1.50	-1.50	0.00
5,300.00	21.53	286.89	4,679.43	686.70	-2,261.14	2,363.12	1.50	-1.50	0.00
5,400.00	20.03	286.89	4,772.92	697.01	-2,295.08	2,398.59	1.50	-1.50	0.00
5,500.00	18.53	286.89	4,867.31	706.60	-2,326.67	2,431.60	1.50	-1.50	0.00
5,600.00	17.03	286.89	4,962.53	715.47	-2,355.88	2,462.13	1.50	-1.50	0.00
5,697.38	15.57	286.89	5,056.00	723.41	-2,382.03	2,489.46	1.50	-1.50	0.00
<b>MVRD</b>									
5,700.00	15.53	286.89	5,058.52	723.62	-2,382.70	2,490.16	1.50	-1.50	0.00
5,800.00	14.03	286.89	5,155.21	731.03	-2,407.10	2,515.66	1.50	-1.50	0.00
5,900.00	12.53	286.89	5,252.54	737.70	-2,429.08	2,538.63	1.50	-1.50	0.00
6,000.00	11.03	286.89	5,350.43	743.63	-2,448.61	2,559.03	1.50	-1.50	0.00
6,100.00	9.53	286.89	5,448.82	748.82	-2,465.68	2,576.87	1.50	-1.50	0.00
6,200.00	8.03	286.89	5,547.65	753.25	-2,480.27	2,592.13	1.50	-1.50	0.00
6,300.00	6.53	286.89	5,646.84	756.93	-2,492.39	2,604.80	1.50	-1.50	0.00
6,400.00	5.03	286.89	5,746.33	759.86	-2,502.02	2,614.86	1.50	-1.50	0.00
6,500.00	3.53	286.89	5,846.05	762.02	-2,509.16	2,622.32	1.50	-1.50	0.00
6,600.00	2.03	286.89	5,945.93	763.43	-2,513.79	2,627.16	1.50	-1.50	0.00
6,700.00	0.53	286.89	6,045.90	764.08	-2,515.92	2,629.39	1.50	-1.50	0.00
6,735.10	0.00	0.00	6,081.00	764.12	-2,516.08	2,629.55	1.50	-1.50	208.29
<b>Start 2829.00 hold at 6735.10 MD - Top Gas - RWF 422-8 BTV</b>									
6,800.00	0.00	0.00	6,145.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
6,900.00	0.00	0.00	6,245.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,000.00	0.00	0.00	6,345.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,100.00	0.00	0.00	6,445.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,200.00	0.00	0.00	6,545.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,300.00	0.00	0.00	6,645.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,400.00	0.00	0.00	6,745.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,500.00	0.00	0.00	6,845.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,600.00	0.00	0.00	6,945.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,700.00	0.00	0.00	7,045.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,800.00	0.00	0.00	7,145.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
7,900.00	0.00	0.00	7,245.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
8,000.00	0.00	0.00	7,345.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
8,100.00	0.00	0.00	7,445.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
8,200.00	0.00	0.00	7,545.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
8,300.00	0.00	0.00	7,645.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
8,400.00	0.00	0.00	7,745.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
8,500.00	0.00	0.00	7,845.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
8,517.10	0.00	0.00	7,863.00	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
<b>Cameo</b>									
8,600.00	0.00	0.00	7,945.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
8,700.00	0.00	0.00	8,045.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00

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<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 422-8	<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)
8,800.00	0.00	0.00	8,145.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
8,900.00	0.00	0.00	8,245.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
9,000.00	0.00	0.00	8,345.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
9,100.00	0.00	0.00	8,445.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
9,200.00	0.00	0.00	8,545.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
9,300.00	0.00	0.00	8,645.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
9,400.00	0.00	0.00	8,745.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
9,414.10	0.00	0.00	8,760.00	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
RLNS									
9,500.00	0.00	0.00	8,845.90	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
9,564.10	0.00	0.00	8,910.00	764.12	-2,516.08	2,629.55	0.00	0.00	0.00
TD at 9564.10 - TD - RWF 422-8 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 422-8 BTV	0.00	0.00	6,081.00	764.12	-2,516.08	1,631,065.2700	2,319,626.8200	39.5412525	-107.9127917
- plan hits target center									
- Circle (radius 50.00)									
RWF 422-8 PBHL	0.00	0.00	8,910.00	764.12	-2,516.08	1,631,065.2700	2,319,626.8200	39.5412525	-107.9127917
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.00	970.73	9 5/8" Casing @ 1000' MD	9.62	13.50	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,848.06	2,556.00	G Sand		0.00	0.00
2,964.93	2,656.00	Base G Sand		0.00	0.00
4,990.02	4,396.00	Lower Wasatch		0.00	0.00
5,697.38	5,056.00	MVRD		0.00	0.00
6,735.10	6,081.00	Top Gas		0.00	0.00
8,517.10	7,863.00	Cameo		0.00	0.00
9,414.10	8,760.00	RLNS		0.00	0.00
9,564.10	8,910.00	TD		0.00	0.00

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RWF 422-8 - Slot RWF 422-8 (A11)
<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 422-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 25Sept2019mmsdi		

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 3.00
1,173.76	1,123.30	80.08	-263.70	Start 3483.82 hold at 1173.76 MD
4,657.58	4,104.41	603.96	-1,988.68	Start Drop -1.50
6,735.10	6,081.00	764.12	-2,516.08	Start 2829.00 hold at 6735.10 MD
9,564.10	8,910.00	764.12	-2,516.08	TD at 9564.10