

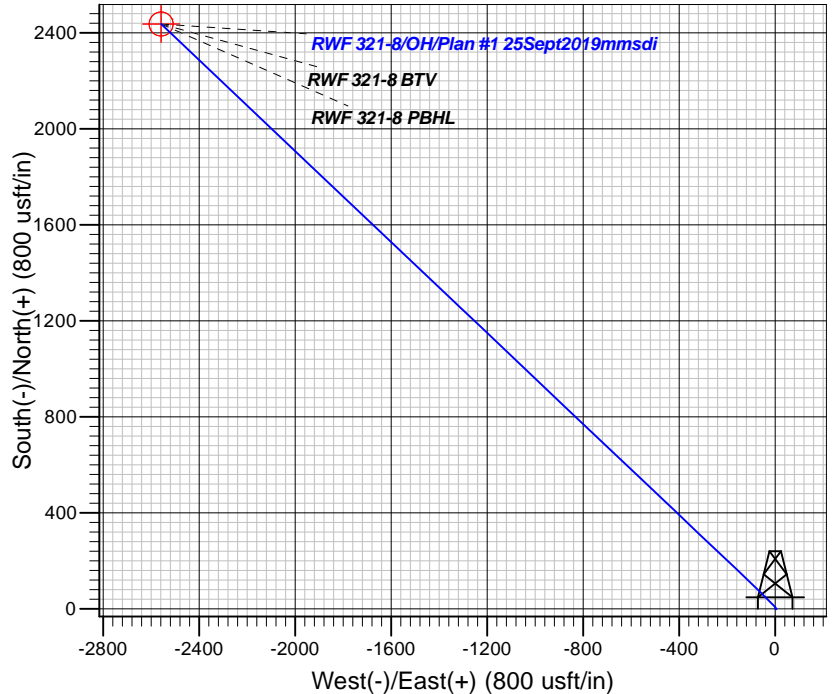
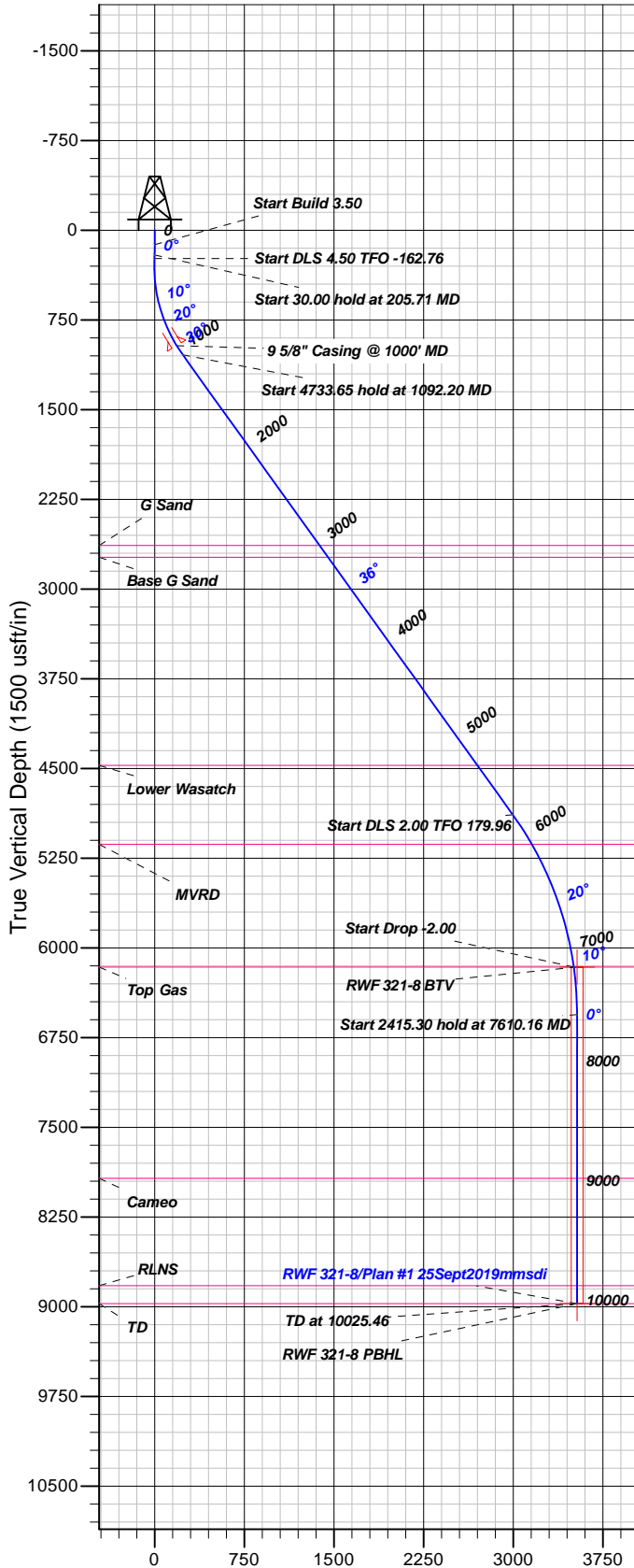


Azimuths to True North
Magnetic North: 9.30°

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

Well Details: RWF 321-8

GL 5979.6' & RKB 24' @ 6003.60usft
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1630282.7270 2322143.6630 39.5392880 -107.9037970 RWF 321-8 (A4)



FORMATION TOP DETAILS

TVDPth	MDPath	Formation
2634.00	3052.56	G Sand
2734.00	3175.68	Base G Sand
4474.00	5317.94	Lower Wasatch
5134.00	6120.19	MVRD
6159.00	7210.16	Top Gas
7926.00	8978.46	Cameo
8823.00	9875.46	RLNS
8973.00	10025.46	TD

Plan: Plan #1 25Sept2019mmsdi

17:52, 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

TVDP	MD	Name	Size
964.98	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	120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	
3	205.71	3.00	115.00	205.68	-0.95	2.03	3.50	115.00	-2.13	
4	235.71	3.00	115.00	235.63	-1.61	3.46	0.00	0.00	-3.61	
5	1092.20	35.69	313.45	1041.75	167.14	-163.94	4.50	-162.76	233.98	
6	5825.85	35.69	313.45	4886.54	2066.25	-2168.55	0.00	0.00	2995.33	
7	7210.16	8.00	313.60	6159.00	2417.22	-2538.65	2.00	179.96	3505.38	
8	7610.16	0.00	0.00	6557.70	2436.45	-2558.84	2.00	180.00	3533.26	
9	10025.46	0.00	0.00	8973.00	2436.45	-2558.84	0.00	0.00	3533.26	RWF 321-8 PBHL

DESIGN TARGET DETAILS

Name	TVDP	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RWF 321-8 BTM	6159.00	2436.45	-2558.84	1630282.7270	2322143.6630	39.5459767	-107.9128709	Circle (Radius: 50.00)
- plan misses target center by 27.61usft at 7213.61usft MD (6162.41 TVD, 2417.55 N, -2539.00 E)								
RWF 321-8 PBHL	8973.00	2436.45	-2558.84	1630282.7270	2322143.6630	39.5459767	-107.9128709	Point
- plan hits target center								



TEP Rocky Mountain LLC

Garfield County, CO NAD83

RWF 12-9 Pad

RWF 321-8 - Slot RWF 321-8 (A4)

OH

Plan: Plan #1 25Sept2019mmsdi

Standard Planning Report

07 October, 2019



Database:	Grand Junction District	Local Co-ordinate Reference:	Well RWF 321-8 - Slot RWF 321-8 (A4)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Site:	RWF 12-9 Pad	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 25Sept2019mmsdi		

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		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 321-8 - Slot RWF 321-8 (A4)					
Well Position	+N/-S	-20.23 usft	Northing:	1,630,282.7270 usft	Latitude:	39.5392880
	+E/-W	-30.76 usft	Easting:	2,322,143.6630 usft	Longitude:	-107.9037970
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	5,979.60 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/25/2019	9.30	65.73	51,444

Design	Plan #1 25Sept2019mmsdi			
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	313.60

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	
205.71	3.00	115.00	205.68	-0.95	2.03	3.50	3.50	0.00	115.00	
235.71	3.00	115.00	235.63	-1.61	3.46	0.00	0.00	0.00	0.00	
1,092.20	35.69	313.45	1,041.75	167.14	-163.94	4.50	3.82	-18.86	-162.76	
5,825.85	35.69	313.45	4,886.54	2,066.25	-2,168.55	0.00	0.00	0.00	0.00	
7,210.16	8.00	313.60	6,159.00	2,417.22	-2,538.65	2.00	-2.00	0.01	179.96	
7,610.16	0.00	0.00	6,557.70	2,436.45	-2,558.84	2.00	-2.00	0.00	180.00	
10,025.46	0.00	0.00	8,973.00	2,436.45	-2,558.84	0.00	0.00	0.00	0.00	RWF 321-8 PBHL

Database:	Grand Junction District	Local Co-ordinate Reference:	Well RWF 321-8 - Slot RWF 321-8 (A4)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Site:	RWF 12-9 Pad	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.50									
200.00	2.80	115.00	199.97	-0.83	1.77	-1.85	3.50	3.50	0.00
205.71	3.00	115.00	205.68	-0.95	2.03	-2.13	3.50	3.50	0.00
Start 30.00 hold at 205.71 MD									
235.71	3.00	115.00	235.63	-1.61	3.46	-3.61	0.00	0.00	0.00
Start DLS 4.50 TFO -162.76									
300.00	0.89	40.45	299.89	-1.94	5.30	-5.18	4.50	-3.28	-115.97
400.00	4.61	323.30	399.77	1.87	3.40	-1.17	4.50	3.72	-77.15
500.00	9.07	317.79	499.03	10.94	-4.30	10.66	4.50	4.46	-5.51
600.00	13.56	315.90	597.06	25.20	-17.76	30.24	4.50	4.49	-1.89
700.00	18.05	314.94	693.26	44.57	-36.89	57.45	4.50	4.49	-0.96
800.00	22.54	314.36	787.03	68.93	-61.57	92.12	4.50	4.50	-0.59
900.00	27.04	313.96	877.79	98.12	-91.66	134.04	4.50	4.50	-0.40
1,000.00	31.54	313.66	964.98	131.98	-126.96	182.95	4.50	4.50	-0.29
9 5/8" Casing @ 1000' MD									
1,092.20	35.69	313.45	1,041.75	167.14	-163.94	233.98	4.50	4.50	-0.23
Start 4733.65 hold at 1092.20 MD									
1,100.00	35.69	313.45	1,048.08	170.26	-167.25	238.53	0.00	0.00	0.00
1,200.00	35.69	313.45	1,129.31	210.38	-209.59	296.87	0.00	0.00	0.00
1,300.00	35.69	313.45	1,210.53	250.50	-251.94	355.20	0.00	0.00	0.00
1,400.00	35.69	313.45	1,291.75	290.62	-294.29	413.54	0.00	0.00	0.00
1,500.00	35.69	313.45	1,372.97	330.74	-336.64	471.87	0.00	0.00	0.00
1,600.00	35.69	313.45	1,454.20	370.86	-378.99	530.20	0.00	0.00	0.00
1,700.00	35.69	313.45	1,535.42	410.98	-421.33	588.54	0.00	0.00	0.00
1,800.00	35.69	313.45	1,616.64	451.10	-463.68	646.87	0.00	0.00	0.00
1,900.00	35.69	313.45	1,697.86	491.22	-506.03	705.21	0.00	0.00	0.00
2,000.00	35.69	313.45	1,779.09	531.34	-548.38	763.54	0.00	0.00	0.00
2,100.00	35.69	313.45	1,860.31	571.46	-590.73	821.88	0.00	0.00	0.00
2,200.00	35.69	313.45	1,941.53	611.58	-633.07	880.21	0.00	0.00	0.00
2,300.00	35.69	313.45	2,022.75	651.70	-675.42	938.54	0.00	0.00	0.00
2,400.00	35.69	313.45	2,103.98	691.82	-717.77	996.88	0.00	0.00	0.00
2,500.00	35.69	313.45	2,185.20	731.94	-760.12	1,055.21	0.00	0.00	0.00
2,600.00	35.69	313.45	2,266.42	772.05	-802.47	1,113.55	0.00	0.00	0.00
2,700.00	35.69	313.45	2,347.64	812.17	-844.81	1,171.88	0.00	0.00	0.00
2,800.00	35.69	313.45	2,428.87	852.29	-887.16	1,230.22	0.00	0.00	0.00
2,900.00	35.69	313.45	2,510.09	892.41	-929.51	1,288.55	0.00	0.00	0.00
3,000.00	35.69	313.45	2,591.31	932.53	-971.86	1,346.88	0.00	0.00	0.00
3,052.56	35.69	313.45	2,634.00	953.62	-994.11	1,377.54	0.00	0.00	0.00
G Sand									
3,100.00	35.69	313.45	2,672.53	972.65	-1,014.20	1,405.22	0.00	0.00	0.00
3,175.68	35.69	313.45	2,734.00	1,003.01	-1,046.25	1,449.36	0.00	0.00	0.00
Base G Sand									
3,200.00	35.69	313.45	2,753.76	1,012.77	-1,056.55	1,463.55	0.00	0.00	0.00
3,300.00	35.69	313.45	2,834.98	1,052.89	-1,098.90	1,521.89	0.00	0.00	0.00
3,400.00	35.69	313.45	2,916.20	1,093.01	-1,141.25	1,580.22	0.00	0.00	0.00
3,500.00	35.69	313.45	2,997.42	1,133.13	-1,183.60	1,638.55	0.00	0.00	0.00
3,600.00	35.69	313.45	3,078.65	1,173.25	-1,225.94	1,696.89	0.00	0.00	0.00
3,700.00	35.69	313.45	3,159.87	1,213.37	-1,268.29	1,755.22	0.00	0.00	0.00
3,800.00	35.69	313.45	3,241.09	1,253.49	-1,310.64	1,813.56	0.00	0.00	0.00
3,900.00	35.69	313.45	3,322.31	1,293.61	-1,352.99	1,871.89	0.00	0.00	0.00

Database:	Grand Junction District	Local Co-ordinate Reference:	Well RWF 321-8 - Slot RWF 321-8 (A4)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Site:	RWF 12-9 Pad	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	35.69	313.45	3,403.54	1,333.73	-1,395.34	1,930.23	0.00	0.00	0.00
4,100.00	35.69	313.45	3,484.76	1,373.84	-1,437.68	1,988.56	0.00	0.00	0.00
4,200.00	35.69	313.45	3,565.98	1,413.96	-1,480.03	2,046.89	0.00	0.00	0.00
4,300.00	35.69	313.45	3,647.20	1,454.08	-1,522.38	2,105.23	0.00	0.00	0.00
4,400.00	35.69	313.45	3,728.43	1,494.20	-1,564.73	2,163.56	0.00	0.00	0.00
4,500.00	35.69	313.45	3,809.65	1,534.32	-1,607.08	2,221.90	0.00	0.00	0.00
4,600.00	35.69	313.45	3,890.87	1,574.44	-1,649.42	2,280.23	0.00	0.00	0.00
4,700.00	35.69	313.45	3,972.09	1,614.56	-1,691.77	2,338.57	0.00	0.00	0.00
4,800.00	35.69	313.45	4,053.32	1,654.68	-1,734.12	2,396.90	0.00	0.00	0.00
4,900.00	35.69	313.45	4,134.54	1,694.80	-1,776.47	2,455.23	0.00	0.00	0.00
5,000.00	35.69	313.45	4,215.76	1,734.92	-1,818.82	2,513.57	0.00	0.00	0.00
5,100.00	35.69	313.45	4,296.98	1,775.04	-1,861.16	2,571.90	0.00	0.00	0.00
5,200.00	35.69	313.45	4,378.21	1,815.16	-1,903.51	2,630.24	0.00	0.00	0.00
5,300.00	35.69	313.45	4,459.43	1,855.28	-1,945.86	2,688.57	0.00	0.00	0.00
5,317.94	35.69	313.45	4,474.00	1,862.47	-1,953.46	2,699.04	0.00	0.00	0.00
Lower Wasatch									
5,400.00	35.69	313.45	4,540.65	1,895.40	-1,988.21	2,746.91	0.00	0.00	0.00
5,500.00	35.69	313.45	4,621.87	1,935.52	-2,030.56	2,805.24	0.00	0.00	0.00
5,600.00	35.69	313.45	4,703.10	1,975.63	-2,072.90	2,863.57	0.00	0.00	0.00
5,700.00	35.69	313.45	4,784.32	2,015.75	-2,115.25	2,921.91	0.00	0.00	0.00
5,800.00	35.69	313.45	4,865.54	2,055.87	-2,157.60	2,980.24	0.00	0.00	0.00
5,825.85	35.69	313.45	4,886.54	2,066.25	-2,168.55	2,995.33	0.00	0.00	0.00
Start DLS 2.00 TFO 179.96									
5,900.00	34.20	313.45	4,947.32	2,095.45	-2,199.38	3,037.79	2.00	-2.00	0.00
6,000.00	32.20	313.46	5,030.99	2,133.12	-2,239.13	3,092.55	2.00	-2.00	0.00
6,100.00	30.20	313.46	5,116.51	2,168.75	-2,276.73	3,144.36	2.00	-2.00	0.00
6,120.19	29.80	313.46	5,134.00	2,175.69	-2,284.06	3,154.45	2.00	-2.00	0.00
MVRD									
6,200.00	28.20	313.46	5,203.80	2,202.31	-2,312.14	3,193.14	2.00	-2.00	0.00
6,300.00	26.20	313.47	5,292.73	2,233.76	-2,345.32	3,238.86	2.00	-2.00	0.00
6,400.00	24.20	313.47	5,383.21	2,263.05	-2,376.22	3,281.44	2.00	-2.00	0.00
6,500.00	22.20	313.48	5,475.12	2,290.16	-2,404.81	3,320.83	2.00	-2.00	0.01
6,600.00	20.20	313.49	5,568.34	2,315.05	-2,431.05	3,357.00	2.00	-2.00	0.01
6,700.00	18.20	313.49	5,662.77	2,337.68	-2,454.91	3,389.89	2.00	-2.00	0.01
6,800.00	16.20	313.50	5,758.29	2,358.04	-2,476.37	3,419.47	2.00	-2.00	0.01
6,900.00	14.20	313.52	5,854.79	2,376.09	-2,495.38	3,445.69	2.00	-2.00	0.01
7,000.00	12.20	313.54	5,952.14	2,391.82	-2,511.94	3,468.53	2.00	-2.00	0.02
7,100.00	10.20	313.56	6,050.23	2,405.21	-2,526.03	3,487.96	2.00	-2.00	0.02
7,200.00	8.20	313.60	6,148.94	2,416.23	-2,537.61	3,503.95	2.00	-2.00	0.04
7,210.16	8.00	313.60	6,159.00	2,417.22	-2,538.65	3,505.38	2.00	-2.00	0.05
Start Drop -2.00 - Top Gas									
7,213.61	7.93	313.60	6,162.41	2,417.55	-2,539.00	3,505.86	2.00	-2.00	0.00
RWF 321-8 BTV									
7,300.00	6.20	313.60	6,248.14	2,424.88	-2,546.69	3,516.49	2.00	-2.00	0.00
7,400.00	4.20	313.60	6,347.73	2,431.13	-2,553.26	3,525.56	2.00	-2.00	0.00
7,500.00	2.20	313.60	6,447.57	2,434.99	-2,557.31	3,531.14	2.00	-2.00	0.00
7,600.00	0.20	313.60	6,547.54	2,436.43	-2,558.83	3,533.24	2.00	-2.00	0.00
7,610.16	0.00	0.00	6,557.70	2,436.45	-2,558.84	3,533.26	2.00	-2.00	0.00
Start 2415.30 hold at 7610.16 MD									
7,700.00	0.00	0.00	6,647.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
7,800.00	0.00	0.00	6,747.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
7,900.00	0.00	0.00	6,847.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,000.00	0.00	0.00	6,947.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00

Database:	Grand Junction District	Local Co-ordinate Reference:	Well RWF 321-8 - Slot RWF 321-8 (A4)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Site:	RWF 12-9 Pad	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	7,047.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,200.00	0.00	0.00	7,147.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,300.00	0.00	0.00	7,247.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,400.00	0.00	0.00	7,347.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,500.00	0.00	0.00	7,447.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,600.00	0.00	0.00	7,547.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,700.00	0.00	0.00	7,647.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,800.00	0.00	0.00	7,747.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,900.00	0.00	0.00	7,847.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
8,978.46	0.00	0.00	7,926.00	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
Cameo									
9,000.00	0.00	0.00	7,947.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
9,100.00	0.00	0.00	8,047.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
9,200.00	0.00	0.00	8,147.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
9,300.00	0.00	0.00	8,247.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
9,400.00	0.00	0.00	8,347.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
9,500.00	0.00	0.00	8,447.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
9,600.00	0.00	0.00	8,547.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
9,700.00	0.00	0.00	8,647.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
9,800.00	0.00	0.00	8,747.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
9,875.46	0.00	0.00	8,823.00	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
RLNS									
9,900.00	0.00	0.00	8,847.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
10,000.00	0.00	0.00	8,947.54	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
10,025.46	0.00	0.00	8,973.00	2,436.45	-2,558.84	3,533.26	0.00	0.00	0.00
TD at 10025.46 - TD - RWF 321-8 PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RWF 321-8 BTV	0.00	0.00	6,159.00	2,436.45	-2,558.84	1,632,786.0200	2,319,650.1800	39.5459767	-107.9128709
- plan misses target center by 27.61usft at 7213.61usft MD (6162.41 TVD, 2417.55 N, -2539.00 E)									
- Circle (radius 50.00)									
RWF 321-8 PBHL	0.00	0.00	8,973.00	2,436.45	-2,558.84	1,632,786.0200	2,319,650.1800	39.5459767	-107.9128709
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.00	964.98	9 5/8" Casing @ 1000' MD	9.62	13.50	

Database:	Grand Junction District	Local Co-ordinate Reference:	Well RWF 321-8 - Slot RWF 321-8 (A4)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 5979.6' & RKB 24' @ 6003.60usft
Site:	RWF 12-9 Pad	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 25Sept2019mmsdi		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,052.56	2,634.00	G Sand		0.00	0.00	
3,175.68	2,734.00	Base G Sand		0.00	0.00	
5,317.94	4,474.00	Lower Wasatch		0.00	0.00	
6,120.19	5,134.00	MVRD		0.00	0.00	
7,210.16	6,159.00	Top Gas		0.00	0.00	
8,978.46	7,926.00	Cameo		0.00	0.00	
9,875.46	8,823.00	RLNS		0.00	0.00	
10,025.46	8,973.00	TD		0.00	0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.00	0.00	Start Build 3.50	
205.71	205.68	-0.95	2.03	Start 30.00 hold at 205.71 MD	
235.71	235.63	-1.61	3.46	Start DLS 4.50 TFO -162.76	
1,092.20	1,041.75	167.14	-163.94	Start 4733.65 hold at 1092.20 MD	
5,825.85	4,886.54	2,066.25	-2,168.55	Start DLS 2.00 TFO 179.96	
7,210.16	6,159.00	2,417.22	-2,538.65	Start Drop -2.00	
7,610.16	6,557.70	2,436.45	-2,558.84	Start 2415.30 hold at 7610.16 MD	
10,025.46	8,973.00	2,436.45	-2,558.84	TD at 10025.46	