



Company: TEP Rocky Mountain LLC  
Project: Garfield County, CO NAD83  
Site: RWF 43-9 Pad  
Well: RWF 32-9

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 #1 8June2020 sbsdi

Well Details: RWF 32-9

+N/-S	+E/-W	Northing	GL 6369.4' & KB 24' @ 6393.40usft (H&P 318)	Easting	Latitude	Longitude	RWF 32-9
3.09	14.62	1630178.6000		2327345.6000	39.5393786	-107.8853488	

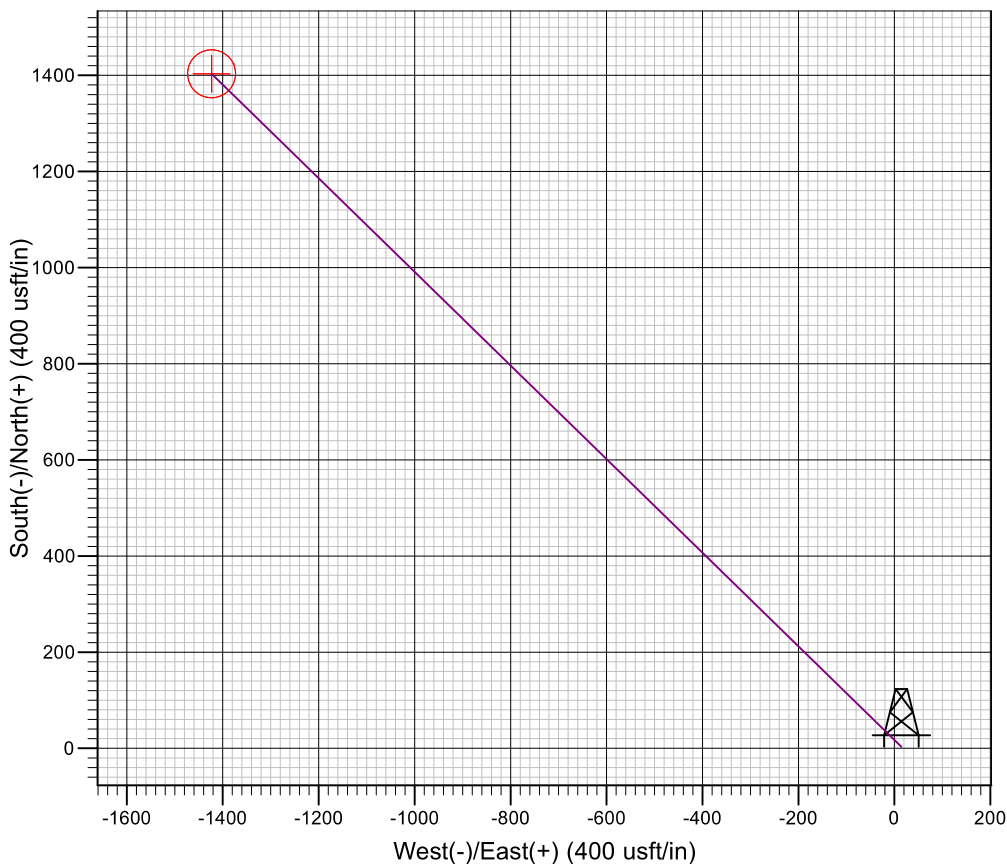
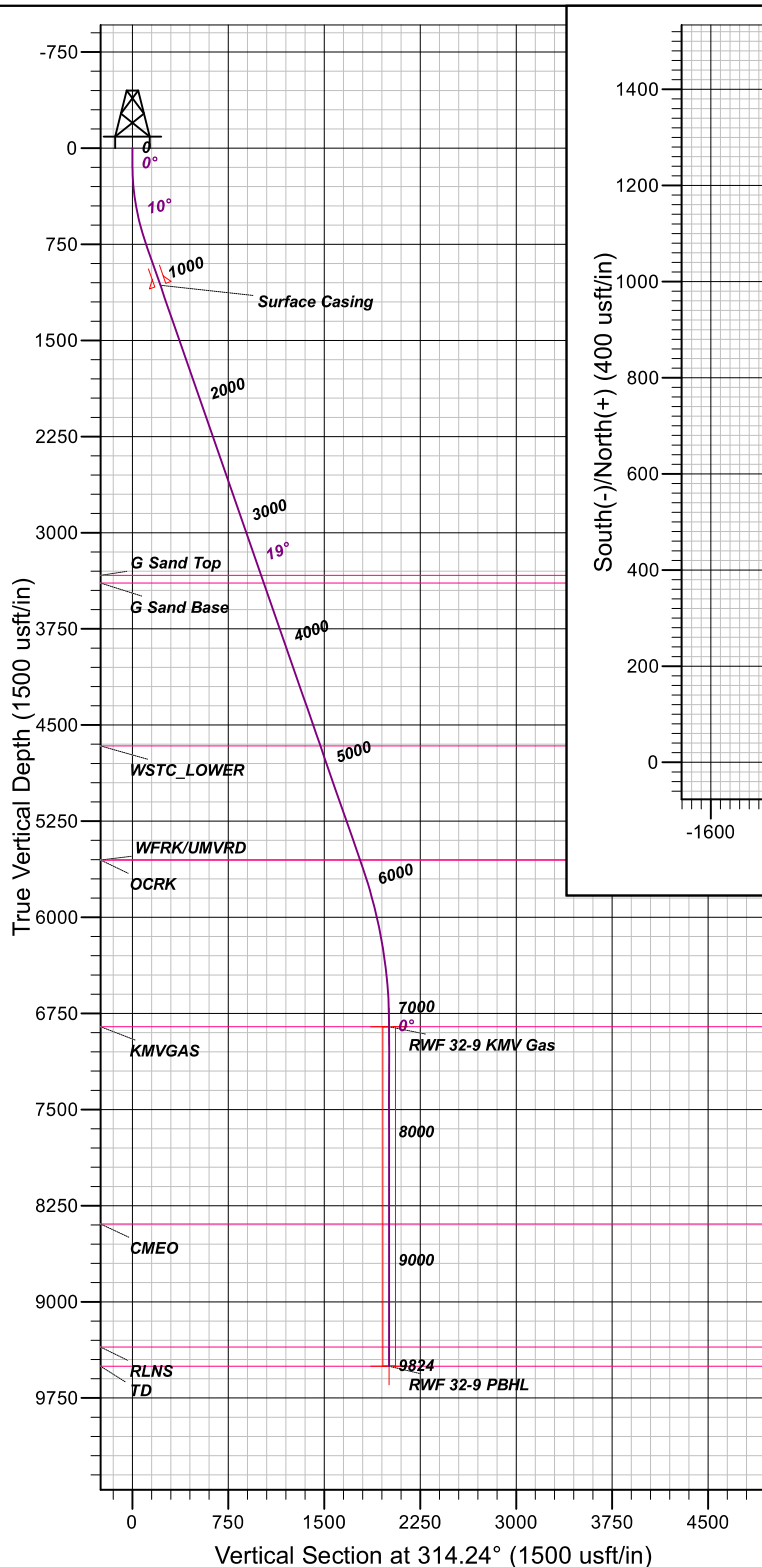


Azimuths to True North  
Magnetic North: 9.22°

Magnetic Field  
Strength: 51370.0nT  
Dip Angle: 65.72°  
Date: 6/8/2020  
Model: HDGM\_FILE

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Circle (Radius: 50.00)	Shape
RWF 32-9 KMY Gas	6853.00	1403.22	-1423.23	1631616.0000	2325945.0000	39.5432224	-107.8904474		Circle (Radius: 50.00)
RWF 32-9 PBHL	9503.00	1403.22	-1423.23	1631616.0000	2325945.0000	39.5432224	-107.8904474		Point
- plan hits target center									



#### FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
3333.00	3497.11	G Sand Top
3393.00	3560.65	G Sand Base
4663.00	4905.43	WSTC_LOWER
5553.00	5847.83	OCRK
5553.00	5847.83	WFRK/UMVRD
6853.00	7174.23	KMYGAS
8393.00	8714.23	CMEO
9353.00	9674.23	RLNS
9503.00	9824.23	TD

#### CASING DETAILS

TVD	MD	NAME
1069.18	1100.00	Surface Casing

#### SECTION DETAILS

MD	INC	AZI	TVD	+N/-S	+E/-W	DLEG	TFACE	VSECT
0.00	0.00	0.00	0.00	3.09	14.62	0.00	0.00	0.00
120.00	0.00	0.00	120.00	3.09	14.62	0.00	0.00	0.00
759.91	19.20	314.24	748.00	77.18	-61.46	3.00	314.24	106.20
5894.42	19.20	314.24	5597.00	1255.03	-1271.06	0.00	0.00	1794.53
7174.23	0.00	0.00	6853.00	1403.22	-1423.23	1.50	180.00	2006.94
9824.23	0.00	0.00	9503.00	1403.22	-1423.23	0.00	0.00	2006.94



# **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**RWF 43-9 Pad**

**RWF 32-9 - Slot RWF 32-9**

**OH**

**Plan: Plan #1 8June2020 sbsdi**

## **Standard Planning Report**

**09 June, 2020**



[www.scientificdrilling.com](http://www.scientificdrilling.com)



<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Site RWF 43-9 Pad
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 6369.4' & KB 24' @ 6393.40usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 6369.4' & KB 24' @ 6393.40usft (H&P 318)
<b>Site:</b>	RWF 43-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 32-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 8June2020 sbsdi		

<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 43-9 Pad, Site Center : RWF 43-9			
Site Position:		Northing:	1,630,175.9000 usft	Latitude:	39.5393702
From:	Map	Easting:	2,327,330.9000 usft	Longitude:	-107.8854007
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-1.50 °

Well	RWF 32-9 - Slot RWF 32-9, 2528' FSL 536' FEL Sec 9 T6S R94W					
Well Position	+N/-S	3.09 usft	Northing:	1,630,178.6000 usft	Latitude:	39.5393786
	+E/-W	14.62 usft	Easting:	2,327,345.6000 usft	Longitude:	-107.8853489
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,369.40 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	6/8/2020	9.22	65.72	51,370.00000000

<b>Design</b>	Plan #1 8June2020 sbsdi			
<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	3.09	14.62	314.24

<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	3.09	14.62	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	3.09	14.62	0.00	0.00	0.00	0.00	
759.91	19.20	314.24	748.00	77.18	-61.46	3.00	3.00	0.00	314.24	
5,894.42	19.20	314.24	5,597.00	1,255.03	-1,271.06	0.00	0.00	0.00	0.00	
7,174.23	0.00	0.00	6,853.00	1,403.22	-1,423.23	1.50	-1.50	0.00	180.00	RWF 32-9 KMW Gas
9,824.23	0.00	0.00	9,503.00	1,403.22	-1,423.23	0.00	0.00	0.00	0.00	RWF 32-9 PBHL

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<b>Site:</b>	RWF 43-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 32-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 8June2020 sbsdi		

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	3.09	14.62	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	3.09	14.62	0.00	0.00	0.00	0.00
120.00	0.00	0.00	120.00	3.09	14.62	0.00	0.00	0.00	0.00
Start Build 3.00									
200.00	2.40	314.24	199.98	4.25	13.42	1.68	3.00	3.00	0.00
300.00	5.40	314.24	299.73	9.00	8.55	8.48	3.00	3.00	0.00
400.00	8.40	314.24	399.00	17.38	-0.05	20.49	3.00	3.00	0.00
500.00	11.40	314.24	497.50	29.37	-12.37	37.68	3.00	3.00	0.00
600.00	14.40	314.24	594.96	44.94	-28.36	60.00	3.00	3.00	0.00
700.00	17.40	314.24	691.13	64.06	-47.99	87.39	3.00	3.00	0.00
759.91	19.20	314.24	748.00	77.18	-61.46	106.20	3.00	3.00	0.00
Start 5134.52 hold at 759.91 MD									
800.00	19.20	314.24	785.86	86.37	-70.91	119.39	0.00	0.00	0.00
900.00	19.20	314.24	880.30	109.31	-94.47	152.27	0.00	0.00	0.00
1,000.00	19.20	314.24	974.74	132.25	-118.03	185.15	0.00	0.00	0.00
1,100.00	19.20	314.24	1,069.18	155.19	-141.58	218.03	0.00	0.00	0.00
Surface Casing									
1,200.00	19.20	314.24	1,163.62	178.13	-165.14	250.91	0.00	0.00	0.00
1,300.00	19.20	314.24	1,258.06	201.07	-188.70	283.80	0.00	0.00	0.00
1,400.00	19.20	314.24	1,352.50	224.01	-212.26	316.68	0.00	0.00	0.00
1,500.00	19.20	314.24	1,446.94	246.95	-235.82	349.56	0.00	0.00	0.00
1,600.00	19.20	314.24	1,541.38	269.89	-259.37	382.44	0.00	0.00	0.00
1,700.00	19.20	314.24	1,635.82	292.83	-282.93	415.32	0.00	0.00	0.00
1,800.00	19.20	314.24	1,730.26	315.77	-306.49	448.21	0.00	0.00	0.00
1,900.00	19.20	314.24	1,824.70	338.71	-330.05	481.09	0.00	0.00	0.00
2,000.00	19.20	314.24	1,919.14	361.65	-353.61	513.97	0.00	0.00	0.00
2,100.00	19.20	314.24	2,013.58	384.59	-377.16	546.85	0.00	0.00	0.00
2,200.00	19.20	314.24	2,108.01	407.53	-400.72	579.73	0.00	0.00	0.00
2,300.00	19.20	314.24	2,202.45	430.47	-424.28	612.62	0.00	0.00	0.00
2,400.00	19.20	314.24	2,296.89	453.41	-447.84	645.50	0.00	0.00	0.00
2,500.00	19.20	314.24	2,391.33	476.35	-471.40	678.38	0.00	0.00	0.00
2,600.00	19.20	314.24	2,485.77	499.29	-494.95	711.26	0.00	0.00	0.00
2,700.00	19.20	314.24	2,580.21	522.23	-518.51	744.14	0.00	0.00	0.00
2,800.00	19.20	314.24	2,674.65	545.17	-542.07	777.03	0.00	0.00	0.00
2,900.00	19.20	314.24	2,769.09	568.11	-565.63	809.91	0.00	0.00	0.00
3,000.00	19.20	314.24	2,863.53	591.05	-589.19	842.79	0.00	0.00	0.00
3,100.00	19.20	314.24	2,957.97	613.99	-612.74	875.67	0.00	0.00	0.00
3,200.00	19.20	314.24	3,052.41	636.93	-636.30	908.55	0.00	0.00	0.00
3,300.00	19.20	314.24	3,146.85	659.87	-659.86	941.44	0.00	0.00	0.00
3,400.00	19.20	314.24	3,241.29	682.81	-683.42	974.32	0.00	0.00	0.00
3,497.11	19.20	314.24	3,333.00	705.09	-706.30	1,006.25	0.00	0.00	0.00
G Sand Top									
3,500.00	19.20	314.24	3,335.73	705.75	-706.98	1,007.20	0.00	0.00	0.00
3,560.65	19.20	314.24	3,393.00	719.67	-721.26	1,027.14	0.00	0.00	0.00
G Sand Base									
3,600.00	19.20	314.24	3,430.16	728.69	-730.53	1,040.08	0.00	0.00	0.00
3,700.00	19.20	314.24	3,524.60	751.63	-754.09	1,072.96	0.00	0.00	0.00
3,800.00	19.20	314.24	3,619.04	774.57	-777.65	1,105.85	0.00	0.00	0.00
3,900.00	19.20	314.24	3,713.48	797.51	-801.21	1,138.73	0.00	0.00	0.00
4,000.00	19.20	314.24	3,807.92	820.45	-824.77	1,171.61	0.00	0.00	0.00
4,100.00	19.20	314.24	3,902.36	843.39	-848.32	1,204.49	0.00	0.00	0.00

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<b>Site:</b>	RWF 43-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 32-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 8June2020 sbsdi		

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)	
4,200.00	19.20	314.24	3,996.80	866.33	-871.88	1,237.37	0.00	0.00	0.00	
4,300.00	19.20	314.24	4,091.24	889.27	-895.44	1,270.26	0.00	0.00	0.00	
4,400.00	19.20	314.24	4,185.68	912.21	-919.00	1,303.14	0.00	0.00	0.00	
4,500.00	19.20	314.24	4,280.12	935.15	-942.56	1,336.02	0.00	0.00	0.00	
4,600.00	19.20	314.24	4,374.56	958.09	-966.12	1,368.90	0.00	0.00	0.00	
4,700.00	19.20	314.24	4,469.00	981.03	-989.67	1,401.78	0.00	0.00	0.00	
4,800.00	19.20	314.24	4,563.44	1,003.97	-1,013.23	1,434.67	0.00	0.00	0.00	
4,900.00	19.20	314.24	4,657.87	1,026.91	-1,036.79	1,467.55	0.00	0.00	0.00	
4,905.43	19.20	314.24	4,663.00	1,028.16	-1,038.07	1,469.33	0.00	0.00	0.00	
WSTC_LOWER										
5,000.00	19.20	314.24	4,752.31	1,049.85	-1,060.35	1,500.43	0.00	0.00	0.00	
5,100.00	19.20	314.24	4,846.75	1,072.79	-1,083.91	1,533.31	0.00	0.00	0.00	
5,200.00	19.20	314.24	4,941.19	1,095.73	-1,107.46	1,566.19	0.00	0.00	0.00	
5,300.00	19.20	314.24	5,035.63	1,118.67	-1,131.02	1,599.08	0.00	0.00	0.00	
5,400.00	19.20	314.24	5,130.07	1,141.61	-1,154.58	1,631.96	0.00	0.00	0.00	
5,500.00	19.20	314.24	5,224.51	1,164.55	-1,178.14	1,664.84	0.00	0.00	0.00	
5,600.00	19.20	314.24	5,318.95	1,187.49	-1,201.70	1,697.72	0.00	0.00	0.00	
5,700.00	19.20	314.24	5,413.39	1,210.43	-1,225.25	1,730.60	0.00	0.00	0.00	
5,800.00	19.20	314.24	5,507.83	1,233.37	-1,248.81	1,763.49	0.00	0.00	0.00	
5,847.83	19.20	314.24	5,553.00	1,244.35	-1,260.08	1,779.21	0.00	0.00	0.00	
OCRK - WFRK/UMVRD										
5,894.42	19.20	314.24	5,597.00	1,255.03	-1,271.06	1,794.53	0.00	0.00	0.00	
Start Drop -1.50										
5,900.00	19.11	314.24	5,602.27	1,256.31	-1,272.37	1,796.36	1.50	-1.50	0.00	
6,000.00	17.61	314.24	5,697.17	1,278.29	-1,294.94	1,827.87	1.50	-1.50	0.00	
6,100.00	16.11	314.24	5,792.87	1,298.53	-1,315.72	1,856.88	1.50	-1.50	0.00	
6,200.00	14.61	314.24	5,889.29	1,317.01	-1,334.70	1,883.37	1.50	-1.50	0.00	
6,300.00	13.11	314.24	5,986.38	1,333.73	-1,351.87	1,907.33	1.50	-1.50	0.00	
6,400.00	11.61	314.24	6,084.06	1,348.66	-1,367.21	1,928.74	1.50	-1.50	0.00	
6,500.00	10.11	314.24	6,182.26	1,361.81	-1,380.71	1,947.59	1.50	-1.50	0.00	
6,600.00	8.61	314.24	6,280.93	1,373.16	-1,392.37	1,963.86	1.50	-1.50	0.00	
6,700.00	7.11	314.24	6,379.98	1,382.71	-1,402.17	1,977.54	1.50	-1.50	0.00	
6,800.00	5.61	314.24	6,479.36	1,390.44	-1,410.11	1,988.62	1.50	-1.50	0.00	
6,900.00	4.11	314.24	6,579.00	1,396.35	-1,416.18	1,997.10	1.50	-1.50	0.00	
7,000.00	2.61	314.24	6,678.83	1,400.45	-1,420.38	2,002.96	1.50	-1.50	0.00	
7,100.00	1.11	314.24	6,778.77	1,402.71	-1,422.71	2,006.22	1.50	-1.50	0.00	
7,174.23	0.00	0.00	6,853.00	1,403.22	-1,423.23	2,006.94	1.50	-1.50	0.00	
Start 2650.00 hold at 7174.23 MD - KMGAS										
7,200.00	0.00	0.00	6,878.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
7,300.00	0.00	0.00	6,978.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,078.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,178.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,278.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,378.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,478.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,578.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,678.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,778.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,878.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
8,300.00	0.00	0.00	7,978.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,078.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,178.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00	

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<b>Site:</b>	RWF 43-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 32-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 8June2020 sbsdi		

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)
8,600.00	0.00	0.00	8,278.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
8,700.00	0.00	0.00	8,378.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
8,714.23	0.00	0.00	8,393.00	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
CMEO									
8,800.00	0.00	0.00	8,478.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
8,900.00	0.00	0.00	8,578.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,000.00	0.00	0.00	8,678.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,100.00	0.00	0.00	8,778.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,200.00	0.00	0.00	8,878.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,300.00	0.00	0.00	8,978.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,400.00	0.00	0.00	9,078.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,500.00	0.00	0.00	9,178.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,600.00	0.00	0.00	9,278.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,674.23	0.00	0.00	9,353.00	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
RLNS									
9,700.00	0.00	0.00	9,378.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,800.00	0.00	0.00	9,478.77	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
9,824.23	0.00	0.00	9,503.00	1,403.22	-1,423.23	2,006.94	0.00	0.00	0.00
TD at 9824.23 - TD									

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
- hit/miss target										
- Shape								Longitude		
RWF 32-9 KVM Gas	0.00	0.00	6,853.00	1,403.22	-1,423.23	1,631,616.0000	2,325,945.0000	39.5432225		
- plan hits target center										
- Circle (radius 50.00)										
RWF 32-9 PBHL	0.00	0.00	9,503.00	1,403.22	-1,423.23	1,631,616.0000	2,325,945.0000	39.5432225		
- plan hits target center										
- Point										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (in)	Hole Diameter (in)
1,100.00	1,069.18	Surface Casing		13.50	13.50

<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Site RWF 43-9 Pad
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 6369.4' & KB 24' @ 6393.40usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 6369.4' & KB 24' @ 6393.40usft (H&P 318)
<b>Site:</b>	RWF 43-9 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 32-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 8June2020 sbsdi		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,497.11	3,333.00	G Sand Top		0.00		
3,560.65	3,393.00	G Sand Base		0.00		
4,905.43	4,663.00	WSTC_LOWER		0.00		
5,847.83	5,553.00	OCRK		0.00		
5,847.83	5,553.00	WFRK/UMVRD		0.00		
7,174.23	6,853.00	KMVGAS		0.00		
8,714.23	8,393.00	CME0		0.00		
9,674.23	9,353.00	RLNS		0.00		
9,824.23	9,503.00	TD		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	3.09	14.62	Start Build 3.00	
759.91	748.00	77.18	-61.46	Start 5134.52 hold at 759.91 MD	
5,894.42	5,597.00	1,255.03	-1,271.06	Start Drop -1.50	
7,174.23	6,853.00	1,403.22	-1,423.23	Start 2650.00 hold at 7174.23 MD	
9,824.23	9,503.00	1,403.22	-1,423.23	TD at 9824.23	