



Company: TEP Rocky Mountain LLC  
Project: Garfield County, CO NAD83  
Site: RWF 43-9 Pad  
Well: RWF 543-9

PROJECT DETAILS: Garfield County, CO NAD83

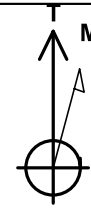
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Central Zone

System Datum: Mean Sea Level

Plan: Plan #1 8June2020 sbdsi

Well Details: RWF 543-9

+N/-S 0.00 +E/-W 0.00 Northing 1630196.5000 Easting 2327388.1000 Latitude 39.5394308 Longitude -107.8851999 RWF 543-9

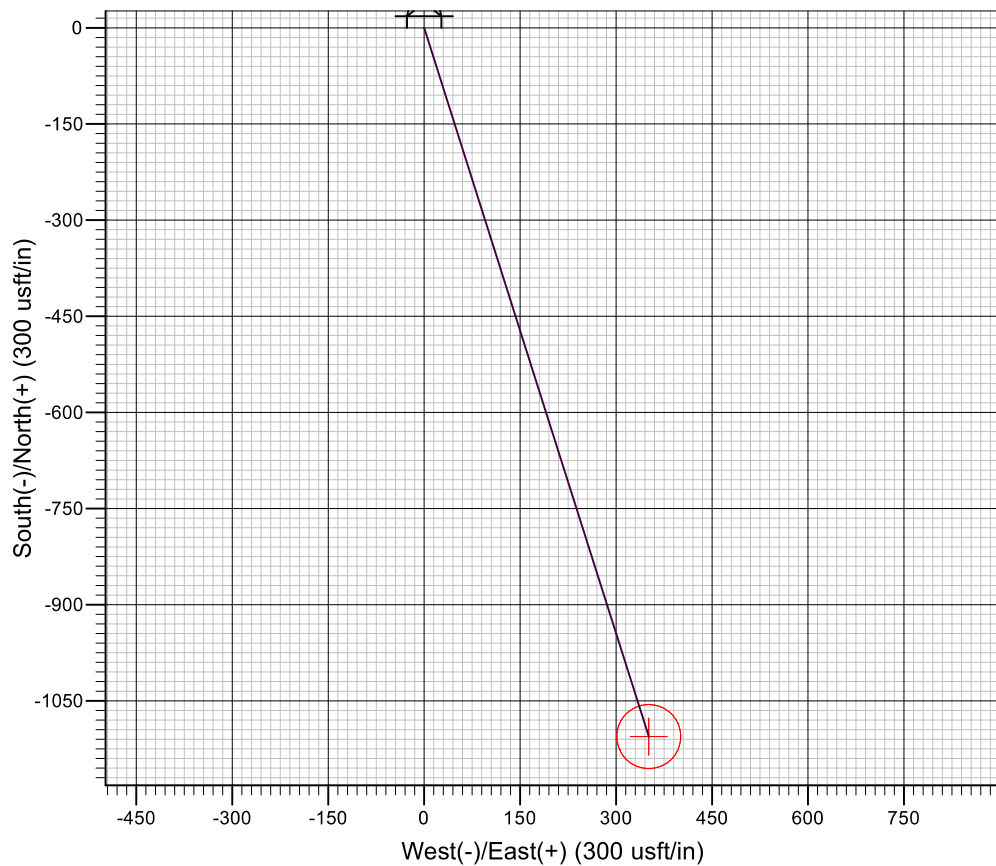
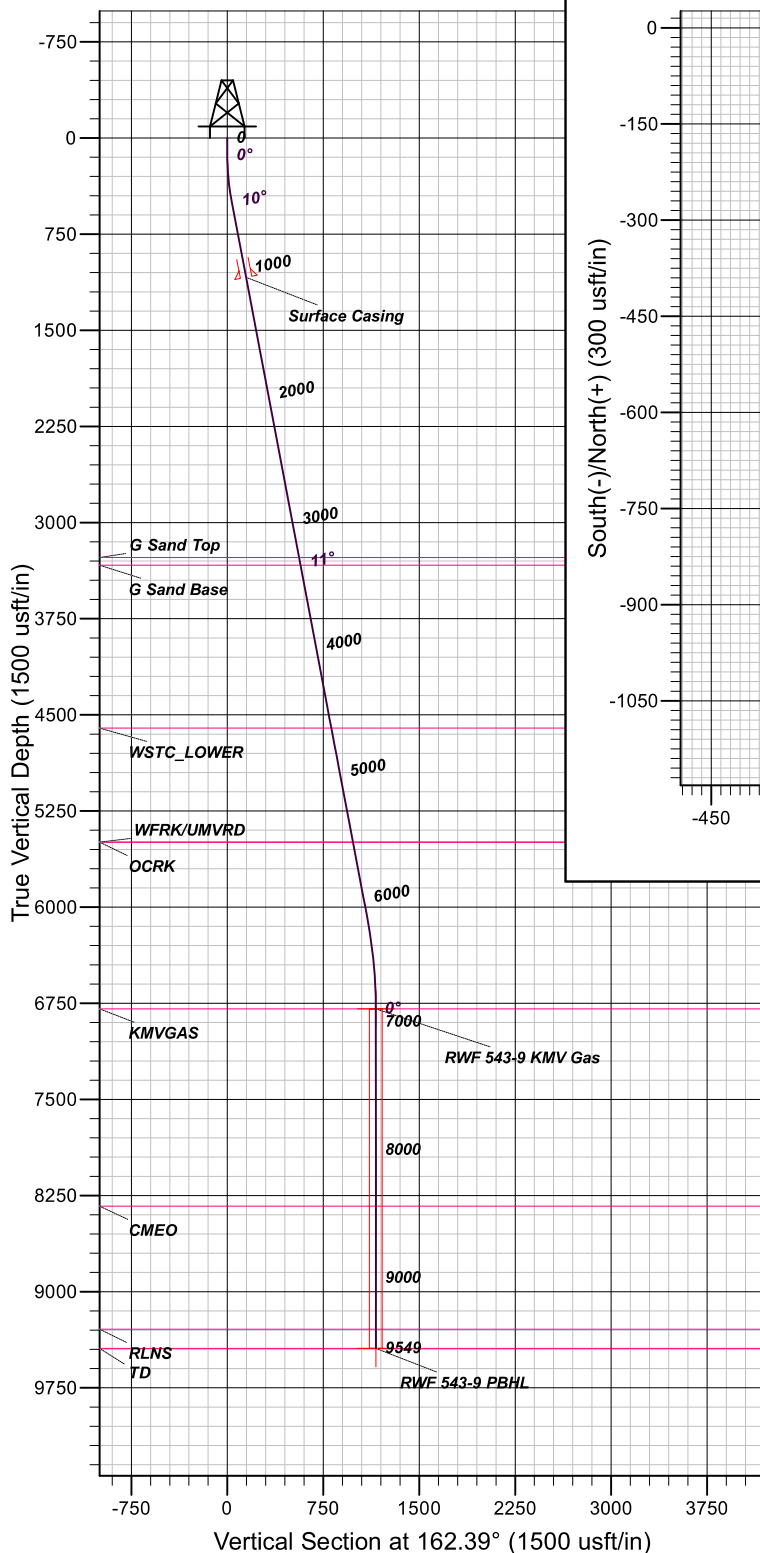


Azimuths to True North  
Magnetic North: 9.22°

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 543-9 KMV Gas	6793.00	-1105.67	351.05	1629082.0000	2327710.0000	39.5363953	-107.8839552		Circle (Radius: 50.00)
RWF 543-9 PBHL	9443.00	-1105.67	351.05	1629082.0000	2327710.0000	39.5363953	-107.8839552		Point



#### FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
3273.00	3324.64	G Sand Top
3333.00	3385.70	G Sand Base
4603.00	4678.32	WSTC_LOWER
5493.00	5584.17	WFRK/UMVRD
5493.00	5584.17	OCRK
6793.00	6898.83	KMGAS
8333.00	8438.83	CMEO
9293.00	9398.83	RLNS
9443.00	9548.83	TD

#### CASING DETAILS

TVD	MD	NAME
1087.29	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	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
492.79	10.73	162.39	490.70	-31.85	10.11	3.00	162.39	33.42
6183.26	10.73	162.39	6081.60	-1041.97	330.82	0.00	0.00	1093.23
6898.83	0.00	0.00	6793.00	-1105.67	351.05	1.50	180.00	1160.06
9548.83	0.00	0.00	9443.00	-1105.67	351.05	0.00	0.00	1160.06



# **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**RWF 43-9 Pad**

**RWF 543-9 - Slot RWF 543-9**

**OH**

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

## **Standard Planning Report**

**10 June, 2020**



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



<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well RWF 543-9 - Slot RWF 543-9
<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 543-9	<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		

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

<b>Well</b>	RWF 543-9 - Slot RWF 543-9, 2547' FSL 494' FEL Sec 9 T6S R94W		
<b>Well Position</b>	<b>+N/-S</b>	22.09 usft	<b>Northing:</b> 1,630,196.5000 usft
	<b>+E/-W</b>	56.64 usft	<b>Easting:</b> 2,327,388.1000 usft
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 39.5394308
			<b>Longitude:</b> -107.8851999
			<b>Ground Level:</b> 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	0.00	0.00	162.39

<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	
492.79	10.73	162.39	490.70	-31.85	10.11	3.00	3.00	0.00	162.39	
6,183.26	10.73	162.39	6,081.60	-1,041.97	330.82	0.00	0.00	0.00	0.00	
6,898.83	0.00	0.00	6,793.00	-1,105.67	351.05	1.50	-1.50	0.00	180.00	RWF 543-9 KVM Gas
9,548.83	0.00	0.00	9,443.00	-1,105.67	351.05	0.00	0.00	0.00	0.00	RWF 543-9 PBHL

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<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 543-9	<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	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 3.00										
200.00	1.95	162.39	199.99	-1.05	0.33	1.11	3.00	3.00	0.00	
300.00	4.95	162.39	299.79	-6.79	2.16	7.12	3.00	3.00	0.00	
400.00	7.95	162.39	399.15	-17.49	5.55	18.36	3.00	3.00	0.00	
492.79	10.73	162.39	490.70	-31.85	10.11	33.42	3.00	3.00	0.00	
Start 5690.47 hold at 492.79 MD										
500.00	10.73	162.39	497.78	-33.13	10.52	34.76	0.00	0.00	0.00	
600.00	10.73	162.39	596.03	-50.88	16.15	53.38	0.00	0.00	0.00	
700.00	10.73	162.39	694.28	-68.63	21.79	72.01	0.00	0.00	0.00	
800.00	10.73	162.39	792.53	-86.38	27.43	90.63	0.00	0.00	0.00	
900.00	10.73	162.39	890.78	-104.13	33.06	109.26	0.00	0.00	0.00	
1,000.00	10.73	162.39	989.03	-121.88	38.70	127.88	0.00	0.00	0.00	
1,100.00	10.73	162.39	1,087.29	-139.64	44.33	146.50	0.00	0.00	0.00	
Surface Casing										
1,200.00	10.73	162.39	1,185.53	-157.39	49.97	165.13	0.00	0.00	0.00	
1,300.00	10.73	162.39	1,283.79	-175.14	55.61	183.75	0.00	0.00	0.00	
1,400.00	10.73	162.39	1,382.04	-192.89	61.24	202.38	0.00	0.00	0.00	
1,500.00	10.73	162.39	1,480.29	-210.64	66.88	221.00	0.00	0.00	0.00	
1,600.00	10.73	162.39	1,578.54	-228.39	72.51	239.63	0.00	0.00	0.00	
1,700.00	10.73	162.39	1,676.79	-246.14	78.15	258.25	0.00	0.00	0.00	
1,800.00	10.73	162.39	1,775.04	-263.89	83.79	276.87	0.00	0.00	0.00	
1,900.00	10.73	162.39	1,873.29	-281.64	89.42	295.50	0.00	0.00	0.00	
2,000.00	10.73	162.39	1,971.54	-299.39	95.06	314.12	0.00	0.00	0.00	
2,100.00	10.73	162.39	2,069.79	-317.15	100.69	332.75	0.00	0.00	0.00	
2,200.00	10.73	162.39	2,168.04	-334.90	106.33	351.37	0.00	0.00	0.00	
2,300.00	10.73	162.39	2,266.29	-352.65	111.97	370.00	0.00	0.00	0.00	
2,400.00	10.73	162.39	2,364.54	-370.40	117.60	388.62	0.00	0.00	0.00	
2,500.00	10.73	162.39	2,462.79	-388.15	123.24	407.24	0.00	0.00	0.00	
2,599.99	10.73	162.39	2,561.04	-405.90	128.87	425.87	0.00	0.00	0.00	
2,699.99	10.73	162.39	2,659.29	-423.65	134.51	444.49	0.00	0.00	0.00	
2,799.99	10.73	162.39	2,757.54	-441.40	140.14	463.12	0.00	0.00	0.00	
2,899.99	10.73	162.39	2,855.79	-459.15	145.78	481.74	0.00	0.00	0.00	
2,999.99	10.73	162.39	2,954.04	-476.90	151.42	500.37	0.00	0.00	0.00	
3,099.99	10.73	162.39	3,052.29	-494.66	157.05	518.99	0.00	0.00	0.00	
3,199.99	10.73	162.39	3,150.54	-512.41	162.69	537.61	0.00	0.00	0.00	
3,299.99	10.73	162.39	3,248.79	-530.16	168.32	556.24	0.00	0.00	0.00	
3,324.64	10.73	162.39	3,273.00	-534.53	169.71	560.83	0.00	0.00	0.00	
G Sand Top										
3,385.70	10.73	162.39	3,333.00	-545.37	173.16	572.20	0.00	0.00	0.00	
G Sand Base										
3,399.99	10.73	162.39	3,347.04	-547.91	173.96	574.86	0.00	0.00	0.00	
3,499.99	10.73	162.39	3,445.29	-565.66	179.60	593.49	0.00	0.00	0.00	
3,599.99	10.73	162.39	3,543.54	-583.41	185.23	612.11	0.00	0.00	0.00	
3,699.99	10.73	162.39	3,641.79	-601.16	190.87	630.73	0.00	0.00	0.00	
3,799.99	10.73	162.39	3,740.04	-618.91	196.50	649.36	0.00	0.00	0.00	
3,899.99	10.73	162.39	3,838.29	-636.66	202.14	667.98	0.00	0.00	0.00	
3,999.99	10.73	162.39	3,936.54	-654.42	207.78	686.61	0.00	0.00	0.00	
4,099.99	10.73	162.39	4,034.79	-672.17	213.41	705.23	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 543-9	<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)
4,199.99	10.73	162.39	4,133.04	-689.92	219.05	723.86	0.00	0.00	0.00
4,299.99	10.73	162.39	4,231.29	-707.67	224.68	742.48	0.00	0.00	0.00
4,399.99	10.73	162.39	4,329.54	-725.42	230.32	761.10	0.00	0.00	0.00
4,499.99	10.73	162.39	4,427.79	-743.17	235.96	779.73	0.00	0.00	0.00
4,599.99	10.73	162.39	4,526.04	-760.92	241.59	798.35	0.00	0.00	0.00
4,678.32	10.73	162.39	4,603.00	-774.83	246.01	812.94	0.00	0.00	0.00
<b>WSTC_LOWER</b>									
4,699.99	10.73	162.39	4,624.29	-778.67	247.23	816.98	0.00	0.00	0.00
4,799.99	10.73	162.39	4,722.54	-796.42	252.86	835.60	0.00	0.00	0.00
4,899.99	10.73	162.39	4,820.79	-814.17	258.50	854.23	0.00	0.00	0.00
4,999.99	10.73	162.39	4,919.04	-831.93	264.14	872.85	0.00	0.00	0.00
5,099.99	10.73	162.39	5,017.29	-849.68	269.77	891.47	0.00	0.00	0.00
5,199.99	10.73	162.39	5,115.54	-867.43	275.41	910.10	0.00	0.00	0.00
5,299.99	10.73	162.39	5,213.79	-885.18	281.04	928.72	0.00	0.00	0.00
5,399.99	10.73	162.39	5,312.04	-902.93	286.68	947.35	0.00	0.00	0.00
5,499.99	10.73	162.39	5,410.29	-920.68	292.31	965.97	0.00	0.00	0.00
5,584.17	10.73	162.39	5,493.00	-935.62	297.06	981.65	0.00	0.00	0.00
<b>OCRK - WFRK/UMVRD</b>									
5,599.99	10.73	162.39	5,508.54	-938.43	297.95	984.60	0.00	0.00	0.00
5,699.99	10.73	162.39	5,606.79	-956.18	303.59	1,003.22	0.00	0.00	0.00
5,799.99	10.73	162.39	5,705.04	-973.93	309.22	1,021.84	0.00	0.00	0.00
5,899.99	10.73	162.39	5,803.29	-991.68	314.86	1,040.47	0.00	0.00	0.00
5,999.99	10.73	162.39	5,901.54	-1,009.44	320.49	1,059.09	0.00	0.00	0.00
6,099.99	10.73	162.39	5,999.79	-1,027.19	326.13	1,077.72	0.00	0.00	0.00
6,183.26	10.73	162.39	6,081.60	-1,041.97	330.82	1,093.23	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
6,199.99	10.48	162.39	6,098.05	-1,044.90	331.76	1,096.31	1.50	-1.50	0.00
6,299.99	8.98	162.39	6,196.61	-1,061.02	336.87	1,113.21	1.50	-1.50	0.00
6,399.99	7.48	162.39	6,295.57	-1,074.66	341.20	1,127.53	1.50	-1.50	0.00
6,499.99	5.98	162.39	6,394.88	-1,085.84	344.75	1,139.25	1.50	-1.50	0.00
6,599.99	4.48	162.39	6,494.46	-1,094.53	347.51	1,148.37	1.50	-1.50	0.00
6,699.99	2.98	162.39	6,594.25	-1,100.73	349.48	1,154.88	1.50	-1.50	0.00
6,799.99	1.48	162.39	6,694.17	-1,104.45	350.66	1,158.78	1.50	-1.50	0.00
6,898.83	0.00	0.00	6,793.00	-1,105.67	351.05	1,160.06	1.50	-1.50	0.00
<b>Start 2650.00 hold at 6898.83 MD - KMGAS</b>									
6,899.99	0.00	0.00	6,794.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
6,999.99	0.00	0.00	6,894.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,099.99	0.00	0.00	6,994.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,199.99	0.00	0.00	7,094.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,299.99	0.00	0.00	7,194.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,399.99	0.00	0.00	7,294.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,499.99	0.00	0.00	7,394.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,599.98	0.00	0.00	7,494.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,699.98	0.00	0.00	7,594.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,799.98	0.00	0.00	7,694.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,899.98	0.00	0.00	7,794.16	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
7,999.98	0.00	0.00	7,894.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
8,099.98	0.00	0.00	7,994.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
8,199.98	0.00	0.00	8,094.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
8,299.98	0.00	0.00	8,194.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
8,399.98	0.00	0.00	8,294.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00
8,438.83	0.00	0.00	8,333.00	-1,105.67	351.05	1,160.06	0.00	0.00	0.00

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<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 543-9	<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)	
<b>CMEO</b>										
8,499.98	0.00	0.00	8,394.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
8,599.98	0.00	0.00	8,494.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
8,699.98	0.00	0.00	8,594.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
8,799.98	0.00	0.00	8,694.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
8,899.98	0.00	0.00	8,794.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
8,999.98	0.00	0.00	8,894.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
9,099.98	0.00	0.00	8,994.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
9,199.98	0.00	0.00	9,094.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
9,299.98	0.00	0.00	9,194.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
9,398.83	0.00	0.00	9,293.00	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
<b>RLNS</b>										
9,399.98	0.00	0.00	9,294.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
9,499.98	0.00	0.00	9,394.15	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
9,548.83	0.00	0.00	9,443.00	-1,105.67	351.05	1,160.06	0.00	0.00	0.00	
<b>TD at 9548.83 - 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										
RWF 543-9 KMV Gas	0.00	0.00	6,793.00	-1,105.67	351.05	1,629,082.0000	2,327,710.0000	39.5363953	-107.8839552	
- plan hits target center										
- Circle (radius 50.00)										
RWF 543-9 PBHL	0.00	0.00	9,443.00	-1,105.67	351.05	1,629,082.0000	2,327,710.0000	39.5363953	-107.8839552	
- plan hits target center										
- Point										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,100.00	1,087.29	Surface Casing	13.50	13.50	

<b>Database:</b>	Grand Junction	<b>Local Co-ordinate Reference:</b>	Well RWF 543-9 - Slot RWF 543-9
<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 543-9	<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 (°)	
3,324.64	3,273.00	G Sand Top		0.00		
3,385.70	3,333.00	G Sand Base		0.00		
4,678.32	4,603.00	WSTC_LOWER		0.00		
5,584.17	5,493.00	OCRK		0.00		
5,584.17	5,493.00	WFRK/UMVRD		0.00		
6,898.83	6,793.00	KMVGAS		0.00		
8,438.83	8,333.00	CME0		0.00		
9,398.83	9,293.00	RLNS		0.00		
9,548.83	9,443.00	TD		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
135.00	135.00	0.00	0.00	Start Build 3.00	
492.79	490.70	-31.85	10.11	Start 5690.47 hold at 492.79 MD	
6,183.26	6,081.60	-1,041.97	330.82	Start Drop -1.50	
6,898.83	6,793.00	-1,105.67	351.05	Start 2650.00 hold at 6898.83 MD	
9,548.83	9,443.00	-1,105.67	351.05	TD at 9548.83	