



TEP Rocky Mountain LLC

Garfield Co., CO (NAD83)

WMC 24-17 Pad

WMC 411-20 - Slot WMC 411-20

OH

Plan: Plan #1

Standard Planning Report

07 October, 2020





Project: Garfield Co., CO (NAD83)
 Site: WMC 24-17 Pad
 Well: WMC 411-20
 Wellbore: OH
 Design: Plan #1
 Lat: 39.439094
 Long: -107.799573
 GL: 8868.00
 KB: KB=24' @ 8892.00usft



WELL DETAILS: WMC 411-20

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	WMC 411-20
0.00	0.00	1593039.10	2350604.00	39.439094	-107.799573	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
WMC 411-20 KMW	8812.00	-1087.48	-1182.55	1591981.90	2349394.30	Circle (Radius: 50.00)
WMC 411-20 PBHL	10962.00	-1087.48	-1182.55	1591981.90	2349394.30	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSECT	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
702.39	11.47	227.40	699.84	-25.83	-28.08	3.00	227.40	38.15	Start 7502.35 hold at 702.39 MD
8204.74	11.47	227.40	8052.32	-1035.83	-1126.39	0.00	0.00	1530.26	Start Drop -1.50
8969.52	0.00	0.00	8812.00	-1087.48	-1182.55	1.50	180.00	1606.56	Start 2150.00 hold at 8969.52 MD
11119.52	0.00	0.00	10962.00	-1087.48	-1182.55	0.00	0.00	1606.56	TD at 11119.52

CASING DETAILS

TVD	MD	Name	Size
1089.51	1100.00	9 5/8"	9-5/8

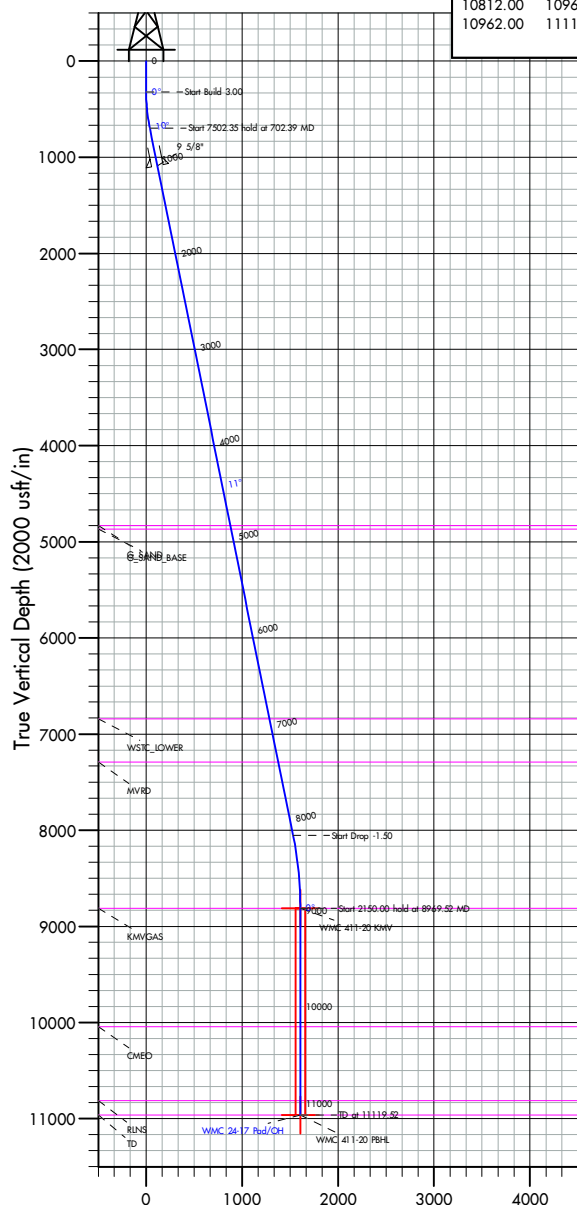
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4832.00	4918.78	G_SAND
4868.00	4955.51	G_SAND_BASE
6842.00	6969.75	WSTC_LOWER
7292.00	7428.93	MVRD
8812.00	8969.52	KMVGAS
10042.00	10199.52	CMEQ
10812.00	10969.52	RLNS
10962.00	11119.52	TD

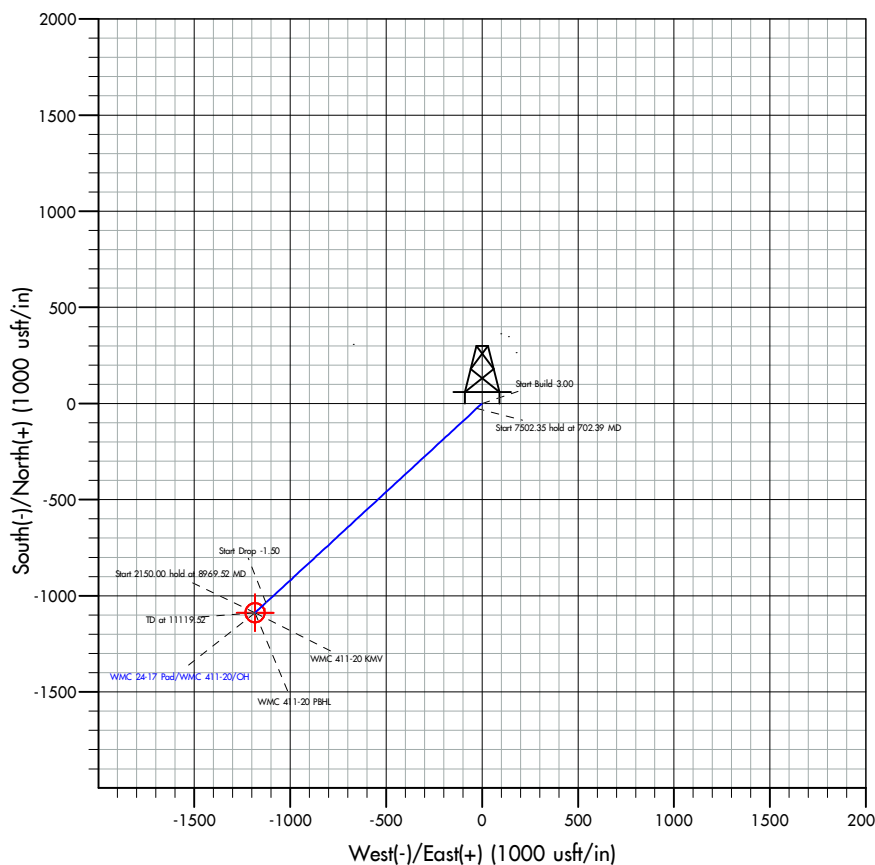


Azimuths to True North
 Magnetic North: 8.93°

Magnetic Field
 Strength: 51314.7nT
 Dip Angle: 65.48°
 Date: 9/2/2020
 Model: HDGM2020



Vertical Section at 227.40° (2000 usft/in)



Plan: Plan #1 (WMC 411-20/OH)

Created By: Dusty Mayer

Date: 12-58, October 07 2020

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well WMC 411-20 - Slot WMC 411-20
Company:	TEP Rocky Mountain LLC	TVD Reference:	KB=24' @ 8892.00usft
Project:	Garfield Co., CO (NAD83)	MD Reference:	KB=24' @ 8892.00usft
Site:	WMC 24-17 Pad	North Reference:	True
Well:	WMC 411-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Garfield Co., 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	WMC 24-17 Pad			
Site Position:		Northing:	1,593,032.70 usft	Latitude: 39.439076
From:	Map	Easting:	2,350,593.20 usft	Longitude: -107.799611
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	

Well	WMC 411-20 - Slot WMC 411-20			
Well Position	+N/-S	0.00 usft	Northing:	1,593,039.10 usft
	+E/-W	0.00 usft	Easting:	2,350,604.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level: 8,868.00 usft
Grid Convergence:	-1.45 °			

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	9/2/2020	8.93	65.48	51,314.70000000

Design	Plan #1			
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	227.40

Plan Survey Tool Program	Date	10/7/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	11,119.52 Plan #1 (OH)	MWD+ HGDM	
			OWSG MWD + HGDM	

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	
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00	
702.39	11.47	227.40	699.84	-25.83	-28.08	3.00	3.00	0.00	227.40	
8,204.74	11.47	227.40	8,052.32	-1,035.83	-1,126.39	0.00	0.00	0.00	0.00	
8,969.52	0.00	0.00	8,812.00	-1,087.48	-1,182.55	1.50	-1.50	0.00	180.00	WMC 411-20 KMV
11,119.52	0.00	0.00	10,962.00	-1,087.48	-1,182.55	0.00	0.00	0.00	0.00	WMC 411-20 PBHL

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Project:	Garfield Co., CO (NAD83)	MD Reference:	KB=24' @ 8892.00usft
Site:	WMC 24-17 Pad	North Reference:	True
Well:	WMC 411-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
400.00	2.40	227.40	399.98	-1.13	-1.23	1.68	3.00	3.00	0.00
500.00	5.40	227.40	499.73	-5.74	-6.24	8.48	3.00	3.00	0.00
600.00	8.40	227.40	599.00	-13.87	-15.08	20.49	3.00	3.00	0.00
702.39	11.47	227.40	699.84	-25.83	-28.08	38.15	3.00	3.00	0.00
Start 7502.35 hold at 702.39 MD									
800.00	11.47	227.40	795.50	-38.97	-42.37	57.57	0.00	0.00	0.00
900.00	11.47	227.40	893.50	-52.43	-57.01	77.45	0.00	0.00	0.00
1,000.00	11.47	227.40	991.50	-65.89	-71.65	97.34	0.00	0.00	0.00
1,100.00	11.47	227.40	1,089.51	-79.35	-86.29	117.23	0.00	0.00	0.00
9 5/8"									
1,200.00	11.47	227.40	1,187.51	-92.82	-100.93	137.12	0.00	0.00	0.00
1,300.00	11.47	227.40	1,285.51	-106.28	-115.57	157.01	0.00	0.00	0.00
1,400.00	11.47	227.40	1,383.51	-119.74	-130.21	176.90	0.00	0.00	0.00
1,500.00	11.47	227.40	1,481.52	-133.20	-144.85	196.79	0.00	0.00	0.00
1,600.00	11.47	227.40	1,579.52	-146.67	-159.49	216.67	0.00	0.00	0.00
1,700.00	11.47	227.40	1,677.52	-160.13	-174.13	236.56	0.00	0.00	0.00
1,800.00	11.47	227.40	1,775.52	-173.59	-188.77	256.45	0.00	0.00	0.00
1,900.00	11.47	227.40	1,873.53	-187.05	-203.41	276.34	0.00	0.00	0.00
2,000.00	11.47	227.40	1,971.53	-200.52	-218.05	296.23	0.00	0.00	0.00
2,100.00	11.47	227.40	2,069.53	-213.98	-232.69	316.12	0.00	0.00	0.00
2,200.00	11.47	227.40	2,167.53	-227.44	-247.33	336.00	0.00	0.00	0.00
2,300.00	11.47	227.40	2,265.53	-240.90	-261.97	355.89	0.00	0.00	0.00
2,400.00	11.47	227.40	2,363.54	-254.37	-276.60	375.78	0.00	0.00	0.00
2,500.00	11.47	227.40	2,461.54	-267.83	-291.24	395.67	0.00	0.00	0.00
2,600.00	11.47	227.40	2,559.54	-281.29	-305.88	415.56	0.00	0.00	0.00
2,700.00	11.47	227.40	2,657.54	-294.75	-320.52	435.45	0.00	0.00	0.00
2,800.00	11.47	227.40	2,755.55	-308.22	-335.16	455.34	0.00	0.00	0.00
2,900.00	11.47	227.40	2,853.55	-321.68	-349.80	475.22	0.00	0.00	0.00
3,000.00	11.47	227.40	2,951.55	-335.14	-364.44	495.11	0.00	0.00	0.00
3,100.00	11.47	227.40	3,049.55	-348.60	-379.08	515.00	0.00	0.00	0.00
3,200.00	11.47	227.40	3,147.56	-362.07	-393.72	534.89	0.00	0.00	0.00
3,300.00	11.47	227.40	3,245.56	-375.53	-408.36	554.78	0.00	0.00	0.00
3,400.00	11.47	227.40	3,343.56	-388.99	-423.00	574.67	0.00	0.00	0.00
3,500.00	11.47	227.40	3,441.56	-402.45	-437.64	594.56	0.00	0.00	0.00
3,600.00	11.47	227.40	3,539.56	-415.92	-452.28	614.44	0.00	0.00	0.00
3,700.00	11.47	227.40	3,637.57	-429.38	-466.92	634.33	0.00	0.00	0.00
3,800.00	11.47	227.40	3,735.57	-442.84	-481.56	654.22	0.00	0.00	0.00
3,900.00	11.47	227.40	3,833.57	-456.30	-496.20	674.11	0.00	0.00	0.00
4,000.00	11.47	227.40	3,931.57	-469.77	-510.84	694.00	0.00	0.00	0.00
4,100.00	11.47	227.40	4,029.58	-483.23	-525.48	713.89	0.00	0.00	0.00
4,200.00	11.47	227.40	4,127.58	-496.69	-540.11	733.77	0.00	0.00	0.00
4,300.00	11.47	227.40	4,225.58	-510.15	-554.75	753.66	0.00	0.00	0.00
4,400.00	11.47	227.40	4,323.58	-523.62	-569.39	773.55	0.00	0.00	0.00
4,500.00	11.47	227.40	4,421.59	-537.08	-584.03	793.44	0.00	0.00	0.00
4,600.00	11.47	227.40	4,519.59	-550.54	-598.67	813.33	0.00	0.00	0.00
4,700.00	11.47	227.40	4,617.59	-564.00	-613.31	833.22	0.00	0.00	0.00
4,800.00	11.47	227.40	4,715.59	-577.46	-627.95	853.11	0.00	0.00	0.00

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Site:	WMC 24-17 Pad	North Reference:	True
Well:	WMC 411-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
4,900.00	11.47	227.40	4,813.59	-590.93	-642.59	872.99	0.00	0.00	0.00
4,918.78	11.47	227.40	4,832.00	-593.46	-645.34	876.73	0.00	0.00	0.00
G_SAND									
4,955.52	11.47	227.40	4,868.00	-598.40	-650.72	884.03	0.00	0.00	0.00
G_SAND_BASE									
5,000.00	11.47	227.40	4,911.60	-604.39	-657.23	892.88	0.00	0.00	0.00
5,100.00	11.47	227.40	5,009.60	-617.85	-671.87	912.77	0.00	0.00	0.00
5,200.00	11.47	227.40	5,107.60	-631.31	-686.51	932.66	0.00	0.00	0.00
5,300.00	11.47	227.40	5,205.60	-644.78	-701.15	952.55	0.00	0.00	0.00
5,400.00	11.47	227.40	5,303.61	-658.24	-715.79	972.44	0.00	0.00	0.00
5,500.00	11.47	227.40	5,401.61	-671.70	-730.43	992.32	0.00	0.00	0.00
5,600.00	11.47	227.40	5,499.61	-685.16	-745.07	1,012.21	0.00	0.00	0.00
5,700.00	11.47	227.40	5,597.61	-698.63	-759.71	1,032.10	0.00	0.00	0.00
5,800.00	11.47	227.40	5,695.61	-712.09	-774.35	1,051.99	0.00	0.00	0.00
5,900.00	11.47	227.40	5,793.62	-725.55	-788.99	1,071.88	0.00	0.00	0.00
6,000.00	11.47	227.40	5,891.62	-739.01	-803.62	1,091.77	0.00	0.00	0.00
6,100.00	11.47	227.40	5,989.62	-752.48	-818.26	1,111.66	0.00	0.00	0.00
6,200.00	11.47	227.40	6,087.62	-765.94	-832.90	1,131.54	0.00	0.00	0.00
6,300.00	11.47	227.40	6,185.63	-779.40	-847.54	1,151.43	0.00	0.00	0.00
6,400.00	11.47	227.40	6,283.63	-792.86	-862.18	1,171.32	0.00	0.00	0.00
6,500.00	11.47	227.40	6,381.63	-806.33	-876.82	1,191.21	0.00	0.00	0.00
6,600.00	11.47	227.40	6,479.63	-819.79	-891.46	1,211.10	0.00	0.00	0.00
6,700.00	11.47	227.40	6,577.64	-833.25	-906.10	1,230.99	0.00	0.00	0.00
6,800.00	11.47	227.40	6,675.64	-846.71	-920.74	1,250.87	0.00	0.00	0.00
6,900.00	11.47	227.40	6,773.64	-860.18	-935.38	1,270.76	0.00	0.00	0.00
6,969.75	11.47	227.40	6,842.00	-869.57	-945.59	1,284.64	0.00	0.00	0.00
WSTC_LOWER									
7,000.00	11.47	227.40	6,871.64	-873.64	-950.02	1,290.65	0.00	0.00	0.00
7,100.00	11.47	227.40	6,969.64	-887.10	-964.66	1,310.54	0.00	0.00	0.00
7,200.00	11.47	227.40	7,067.65	-900.56	-979.30	1,330.43	0.00	0.00	0.00
7,300.00	11.47	227.40	7,165.65	-914.03	-993.94	1,350.32	0.00	0.00	0.00
7,400.00	11.47	227.40	7,263.65	-927.49	-1,008.58	1,370.21	0.00	0.00	0.00
7,428.93	11.47	227.40	7,292.00	-931.38	-1,012.81	1,375.96	0.00	0.00	0.00
MVRD									
7,500.00	11.47	227.40	7,361.65	-940.95	-1,023.22	1,390.09	0.00	0.00	0.00
7,600.00	11.47	227.40	7,459.66	-954.41	-1,037.86	1,409.98	0.00	0.00	0.00
7,700.00	11.47	227.40	7,557.66	-967.88	-1,052.50	1,429.87	0.00	0.00	0.00
7,800.00	11.47	227.40	7,655.66	-981.34	-1,067.13	1,449.76	0.00	0.00	0.00
7,900.00	11.47	227.40	7,753.66	-994.80	-1,081.77	1,469.65	0.00	0.00	0.00
8,000.00	11.47	227.40	7,851.67	-1,008.26	-1,096.41	1,489.54	0.00	0.00	0.00
8,100.00	11.47	227.40	7,949.67	-1,021.73	-1,111.05	1,509.43	0.00	0.00	0.00
8,204.74	11.47	227.40	8,052.32	-1,035.83	-1,126.39	1,530.26	0.00	0.00	0.00
Start Drop -1.50									
8,300.00	10.04	227.40	8,145.90	-1,047.86	-1,139.47	1,548.04	1.50	-1.50	0.00
8,400.00	8.54	227.40	8,244.58	-1,058.79	-1,151.36	1,564.18	1.50	-1.50	0.00
8,500.00	7.04	227.40	8,343.66	-1,067.97	-1,161.34	1,577.74	1.50	-1.50	0.00
8,600.00	5.54	227.40	8,443.05	-1,075.39	-1,169.41	1,588.70	1.50	-1.50	0.00
8,700.00	4.04	227.40	8,542.70	-1,081.05	-1,175.56	1,597.06	1.50	-1.50	0.00
8,800.00	2.54	227.40	8,642.53	-1,084.93	-1,179.79	1,602.80	1.50	-1.50	0.00
8,900.00	1.04	227.40	8,742.48	-1,087.05	-1,182.09	1,605.93	1.50	-1.50	0.00
8,969.52	0.00	0.00	8,812.00	-1,087.48	-1,182.55	1,606.56	1.50	-1.50	0.00
Start 2150.00 hold at 8969.52 MD - KMGAS									
9,000.00	0.00	0.00	8,842.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00

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Site:	WMC 24-17 Pad	North Reference:	True
Well:	WMC 411-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)	
9,100.00	0.00	0.00	8,942.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,042.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,142.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,242.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,342.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,442.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,542.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,642.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,742.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,842.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,942.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,199.52	0.00	0.00	10,042.00	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
CME0										
10,200.00	0.00	0.00	10,042.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,142.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,242.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,342.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,442.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,542.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,642.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,742.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
10,969.52	0.00	0.00	10,812.00	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
RLNS										
11,000.00	0.00	0.00	10,842.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
11,100.00	0.00	0.00	10,942.48	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
11,119.52	0.00	0.00	10,962.00	-1,087.48	-1,182.55	1,606.56	0.00	0.00	0.00	
TD at 11119.52 - TD										

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									
WMC 411-20 KMV	0.00	0.00	8,812.00	-1,087.48	-1,182.55	1,591,981.90	2,349,394.30	39.436109	-107.803761
- plan hits target center									
- Circle (radius 50.00)									
WMC 411-20 PBHL	0.00	0.00	10,962.00	-1,087.48	-1,182.55	1,591,981.90	2,349,394.30	39.436109	-107.803761
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,100.00	1,089.51	9 5/8"	9-5/8	13-1/2	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well WMC 411-20 - Slot WMC 411-20
Company:	TEP Rocky Mountain LLC	TVD Reference:	KB=24' @ 8892.00usft
Project:	Garfield Co., CO (NAD83)	MD Reference:	KB=24' @ 8892.00usft
Site:	WMC 24-17 Pad	North Reference:	True
Well:	WMC 411-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,918.78	4,832.00	G_SAND				
4,955.52	4,868.00	G_SAND_BASE				
6,969.75	6,842.00	WSTC_LOWER				
7,428.93	7,292.00	MVRD				
8,969.52	8,812.00	KMVGAS				
10,199.52	10,042.00	CME0				
10,969.52	10,812.00	RLNS				
11,119.52	10,962.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
320.00	320.00	0.00	0.00	Start Build 3.00	
702.39	699.84	-25.83	-28.08	Start 7502.35 hold at 702.39 MD	
8,204.74	8,052.32	-1,035.83	-1,126.39	Start Drop -1.50	
8,969.52	8,812.00	-1,087.48	-1,182.55	Start 2150.00 hold at 8969.52 MD	
11,119.52	10,962.00	-1,087.48	-1,182.55	TD at 11119.52	