



TEP Rocky Mountain LLC

Garfield Co., CO (NAD83)

WMC 24-17 Pad

WMC 512-20 - Slot WMC 512-20

OH

Plan: Plan #1

Standard Planning Report

07 October, 2020





Project: Garfield Co., CO (NAD83)
 Site: WMC 24-17 Pad
 Well: WMC 512-20
 Wellbore: OH
 Design: Plan #1
 Lat: 39.439054
 Long: -107.799536
 GL: 8868.00
 KB: KB=24' @ 8892.00usft



WELL DETAILS: WMC 512-20

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	WMC 512-20
0.00	0.00	1593024.20	2350614.10	39.439054	-107.799536	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
WMC 512-20 KMW	8812.00	-2692.16	-1208.75	1590363.50	2349337.60	Circle (Radius: 50.00)
WMC 512-20 PBHL	10962.00	-2692.16	-1208.75	1590363.50	2349337.60	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Annotation
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	Start Build 3.00
935.26	24.46	204.18	910.72	-156.34	-70.20	3.00	204.18	171.38	Start 5886.00 hold at 935.26 MD
6821.26	24.46	204.18	6268.55	-2379.47	-1068.36	0.00	0.00	2608.31	Start Drop -1.50
8451.77	0.00	0.00	7850.00	-2692.16	-1208.75	1.50	180.00	2951.06	Start 3112.00 hold at 8451.77 MD
11563.77	0.00	0.00	10962.00	-2692.16	-1208.75	0.00	0.00	2951.06	TD at 11563.77

CASING DETAILS

TVD	MD	Name	Size
1060.68	1100.00	9 5/8"	9-5/8

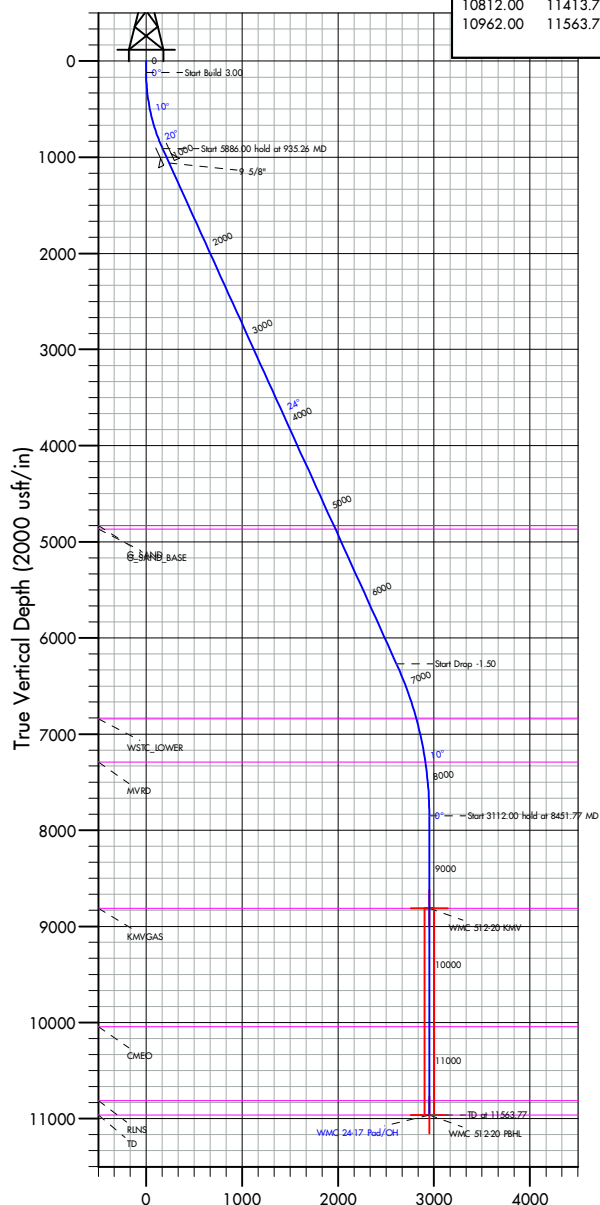
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4832.00	5243.09	G_SAND
4868.00	5282.64	G_SAND_BASE
6842.00	7431.69	WSTC_LOWER
7292.00	7891.77	MVRD
8812.00	9413.77	KMWGAS
10042.00	10643.77	CMEQ
10812.00	11413.77	RLNS
10962.00	11563.77	TD

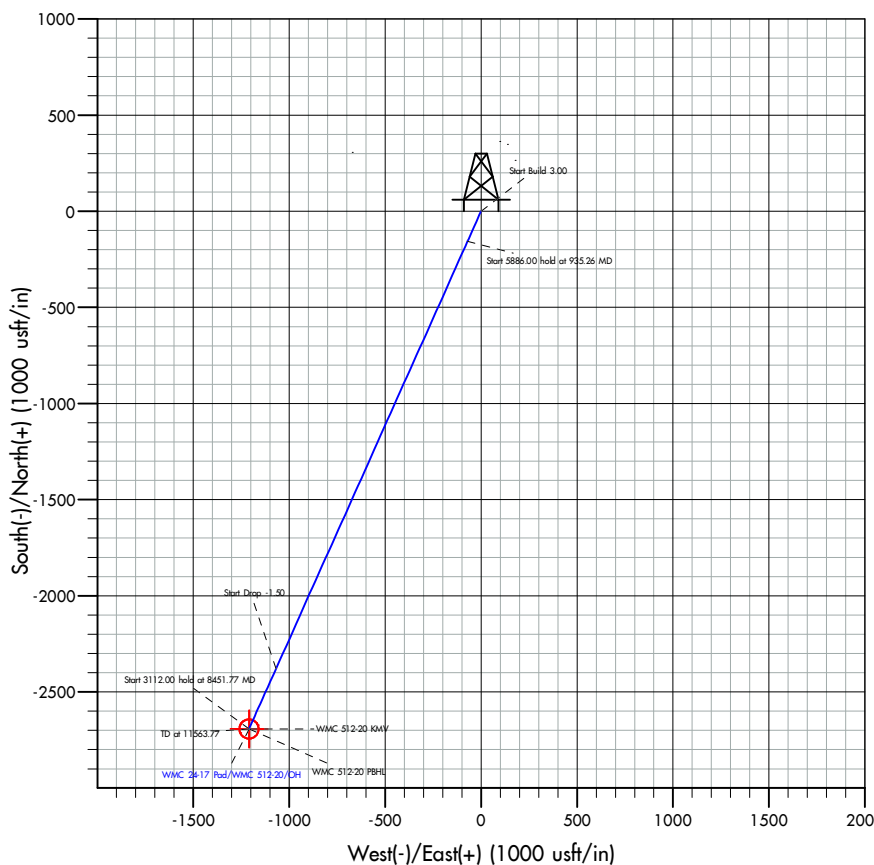


Azimuths to True North
 Magnetic North: 8.93°

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



Vertical Section at 204.18° (2000 usft/in)



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well WMC 512-20 - Slot WMC 512-20
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 512-20	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 512-20 - Slot WMC 512-20				
Well Position	+N/-S	0.00 usft	Northing:	1,593,024.20 usft	Latitude:	39.439054
	+E/-W	0.00 usft	Easting:	2,350,614.10 usft	Longitude:	-107.799537
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	204.18	

Plan Survey Tool Program	Date	10/7/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	11,563.77 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	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
935.26	24.46	204.18	910.72	-156.34	-70.20	3.00	3.00	0.00	204.18	
6,821.26	24.46	204.18	6,268.55	-2,379.47	-1,068.36	0.00	0.00	0.00	0.00	
8,451.77	0.00	0.00	7,850.00	-2,692.16	-1,208.75	1.50	-1.50	0.00	180.00	
11,563.77	0.00	0.00	10,962.00	-2,692.16	-1,208.75	0.00	0.00	0.00	0.00	WMC 512-20 PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well WMC 512-20 - Slot WMC 512-20
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 512-20	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
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
200.00	2.40	204.18	199.98	-1.53	-0.69	1.68	3.00	3.00	0.00
300.00	5.40	204.18	299.73	-7.73	-3.47	8.48	3.00	3.00	0.00
400.00	8.40	204.18	399.00	-18.69	-8.39	20.49	3.00	3.00	0.00
500.00	11.40	204.18	497.50	-34.37	-15.43	37.68	3.00	3.00	0.00
600.00	14.40	204.18	594.96	-54.74	-24.58	60.00	3.00	3.00	0.00
700.00	17.40	204.18	691.13	-79.73	-35.80	87.39	3.00	3.00	0.00
800.00	20.40	204.18	785.72	-109.27	-49.06	119.78	3.00	3.00	0.00
900.00	23.40	204.18	878.50	-143.30	-64.34	157.08	3.00	3.00	0.00
935.26	24.46	204.18	910.72	-156.34	-70.20	171.38	3.00	3.00	0.00
Start 5886.00 hold at 935.26 MD									
1,000.00	24.46	204.18	969.66	-180.79	-81.18	198.18	0.00	0.00	0.00
1,100.00	24.46	204.18	1,060.68	-218.56	-98.13	239.58	0.00	0.00	0.00
9 5/8"									
1,200.00	24.46	204.18	1,151.71	-256.33	-115.09	280.99	0.00	0.00	0.00
1,300.00	24.46	204.18	1,242.74	-294.10	-132.05	322.39	0.00	0.00	0.00
1,400.00	24.46	204.18	1,333.76	-331.87	-149.01	363.79	0.00	0.00	0.00
1,500.00	24.46	204.18	1,424.79	-369.64	-165.97	405.19	0.00	0.00	0.00
1,600.00	24.46	204.18	1,515.82	-407.41	-182.92	446.60	0.00	0.00	0.00
1,700.00	24.46	204.18	1,606.84	-445.18	-199.88	488.00	0.00	0.00	0.00
1,800.00	24.46	204.18	1,697.87	-482.95	-216.84	529.40	0.00	0.00	0.00
1,900.00	24.46	204.18	1,788.90	-520.72	-233.80	570.80	0.00	0.00	0.00
2,000.00	24.46	204.18	1,879.92	-558.49	-250.76	612.20	0.00	0.00	0.00
2,100.00	24.46	204.18	1,970.95	-596.26	-267.72	653.61	0.00	0.00	0.00
2,200.00	24.46	204.18	2,061.98	-634.03	-284.67	695.01	0.00	0.00	0.00
2,300.00	24.46	204.18	2,153.00	-671.80	-301.63	736.41	0.00	0.00	0.00
2,400.00	24.46	204.18	2,244.03	-709.57	-318.59	777.81	0.00	0.00	0.00
2,500.00	24.46	204.18	2,335.06	-747.34	-335.55	819.21	0.00	0.00	0.00
2,600.00	24.46	204.18	2,426.08	-785.11	-352.51	860.62	0.00	0.00	0.00
2,700.00	24.46	204.18	2,517.11	-822.88	-369.47	902.02	0.00	0.00	0.00
2,800.00	24.46	204.18	2,608.14	-860.65	-386.42	943.42	0.00	0.00	0.00
2,900.00	24.46	204.18	2,699.16	-898.42	-403.38	984.82	0.00	0.00	0.00
3,000.00	24.46	204.18	2,790.19	-936.19	-420.34	1,026.23	0.00	0.00	0.00
3,100.00	24.46	204.18	2,881.22	-973.96	-437.30	1,067.63	0.00	0.00	0.00
3,200.00	24.46	204.18	2,972.24	-1,011.73	-454.26	1,109.03	0.00	0.00	0.00
3,300.00	24.46	204.18	3,063.27	-1,049.50	-471.21	1,150.43	0.00	0.00	0.00
3,400.00	24.46	204.18	3,154.30	-1,087.27	-488.17	1,191.83	0.00	0.00	0.00
3,500.00	24.46	204.18	3,245.32	-1,125.04	-505.13	1,233.24	0.00	0.00	0.00
3,600.00	24.46	204.18	3,336.35	-1,162.81	-522.09	1,274.64	0.00	0.00	0.00
3,700.00	24.46	204.18	3,427.38	-1,200.58	-539.05	1,316.04	0.00	0.00	0.00
3,800.00	24.46	204.18	3,518.40	-1,238.35	-556.01	1,357.44	0.00	0.00	0.00
3,900.00	24.46	204.18	3,609.43	-1,276.12	-572.96	1,398.85	0.00	0.00	0.00
4,000.00	24.46	204.18	3,700.46	-1,313.89	-589.92	1,440.25	0.00	0.00	0.00
4,100.00	24.46	204.18	3,791.48	-1,351.66	-606.88	1,481.65	0.00	0.00	0.00
4,200.00	24.46	204.18	3,882.51	-1,389.43	-623.84	1,523.05	0.00	0.00	0.00
4,300.00	24.46	204.18	3,973.54	-1,427.20	-640.80	1,564.45	0.00	0.00	0.00
4,400.00	24.46	204.18	4,064.56	-1,464.97	-657.76	1,605.86	0.00	0.00	0.00
4,500.00	24.46	204.18	4,155.59	-1,502.74	-674.71	1,647.26	0.00	0.00	0.00
4,600.00	24.46	204.18	4,246.62	-1,540.51	-691.67	1,688.66	0.00	0.00	0.00
4,700.00	24.46	204.18	4,337.64	-1,578.28	-708.63	1,730.06	0.00	0.00	0.00

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Site:	WMC 24-17 Pad	North Reference:	True
Well:	WMC 512-20	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)
4,800.00	24.46	204.18	4,428.67	-1,616.05	-725.59	1,771.46	0.00	0.00	0.00
4,900.00	24.46	204.18	4,519.70	-1,653.82	-742.55	1,812.87	0.00	0.00	0.00
5,000.00	24.46	204.18	4,610.72	-1,691.59	-759.50	1,854.27	0.00	0.00	0.00
5,100.00	24.46	204.18	4,701.75	-1,729.36	-776.46	1,895.67	0.00	0.00	0.00
5,200.00	24.46	204.18	4,792.78	-1,767.13	-793.42	1,937.07	0.00	0.00	0.00
5,243.09	24.46	204.18	4,832.00	-1,783.40	-800.73	1,954.91	0.00	0.00	0.00
G_SAND									
5,282.64	24.46	204.18	4,868.00	-1,798.34	-807.44	1,971.29	0.00	0.00	0.00
G_SAND_BASE									
5,300.00	24.46	204.18	4,883.80	-1,804.90	-810.38	1,978.48	0.00	0.00	0.00
5,400.00	24.46	204.18	4,974.83	-1,842.67	-827.34	2,019.88	0.00	0.00	0.00
5,500.00	24.46	204.18	5,065.86	-1,880.44	-844.30	2,061.28	0.00	0.00	0.00
5,600.00	24.46	204.18	5,156.88	-1,918.21	-861.25	2,102.68	0.00	0.00	0.00
5,700.00	24.46	204.18	5,247.91	-1,955.98	-878.21	2,144.08	0.00	0.00	0.00
5,800.00	24.46	204.18	5,338.94	-1,993.75	-895.17	2,185.49	0.00	0.00	0.00
5,900.00	24.46	204.18	5,429.96	-2,031.52	-912.13	2,226.89	0.00	0.00	0.00
6,000.00	24.46	204.18	5,520.99	-2,069.29	-929.09	2,268.29	0.00	0.00	0.00
6,100.00	24.46	204.18	5,612.02	-2,107.05	-946.05	2,309.69	0.00	0.00	0.00
6,200.00	24.46	204.18	5,703.04	-2,144.82	-963.00	2,351.10	0.00	0.00	0.00
6,300.00	24.46	204.18	5,794.07	-2,182.59	-979.96	2,392.50	0.00	0.00	0.00
6,400.00	24.46	204.18	5,885.10	-2,220.36	-996.92	2,433.90	0.00	0.00	0.00
6,500.00	24.46	204.18	5,976.12	-2,258.13	-1,013.88	2,475.30	0.00	0.00	0.00
6,600.00	24.46	204.18	6,067.15	-2,295.90	-1,030.84	2,516.70	0.00	0.00	0.00
6,700.00	24.46	204.18	6,158.18	-2,333.67	-1,047.80	2,558.11	0.00	0.00	0.00
6,800.00	24.46	204.18	6,249.20	-2,371.44	-1,064.75	2,599.51	0.00	0.00	0.00
6,821.26	24.46	204.18	6,268.55	-2,379.47	-1,068.36	2,608.31	0.00	0.00	0.00
Start Drop -1.50									
6,900.00	23.28	204.18	6,340.56	-2,408.54	-1,081.41	2,640.17	1.50	-1.50	0.00
7,000.00	21.78	204.18	6,432.93	-2,443.49	-1,097.10	2,678.48	1.50	-1.50	0.00
7,100.00	20.28	204.18	6,526.27	-2,476.22	-1,111.80	2,714.36	1.50	-1.50	0.00
7,200.00	18.78	204.18	6,620.51	-2,506.71	-1,125.49	2,747.78	1.50	-1.50	0.00
7,300.00	17.28	204.18	6,715.60	-2,534.94	-1,138.16	2,778.73	1.50	-1.50	0.00
7,400.00	15.78	204.18	6,811.47	-2,560.89	-1,149.81	2,807.17	1.50	-1.50	0.00
7,431.69	15.30	204.18	6,842.00	-2,568.63	-1,153.29	2,815.66	1.50	-1.50	0.00
WSTC_LOWER									
7,500.00	14.28	204.18	6,908.05	-2,584.54	-1,160.43	2,833.10	1.50	-1.50	0.00
7,600.00	12.78	204.18	7,005.27	-2,605.88	-1,170.01	2,856.49	1.50	-1.50	0.00
7,700.00	11.28	204.18	7,103.07	-2,624.88	-1,178.55	2,877.32	1.50	-1.50	0.00
7,800.00	9.78	204.18	7,201.39	-2,641.55	-1,186.03	2,895.59	1.50	-1.50	0.00
7,891.77	8.40	204.18	7,292.00	-2,654.77	-1,191.97	2,910.09	1.50	-1.50	0.00
MVRD									
7,900.00	8.28	204.18	7,300.15	-2,655.86	-1,192.45	2,911.28	1.50	-1.50	0.00
8,000.00	6.78	204.18	7,399.28	-2,667.81	-1,197.82	2,924.38	1.50	-1.50	0.00
8,100.00	5.28	204.18	7,498.73	-2,677.39	-1,202.12	2,934.88	1.50	-1.50	0.00
8,200.00	3.78	204.18	7,598.41	-2,684.59	-1,205.35	2,942.77	1.50	-1.50	0.00
8,300.00	2.28	204.18	7,698.27	-2,689.41	-1,207.51	2,948.05	1.50	-1.50	0.00
8,400.00	0.78	204.18	7,798.23	-2,691.84	-1,208.61	2,950.71	1.50	-1.50	0.00
8,451.77	0.00	0.00	7,850.00	-2,692.16	-1,208.75	2,951.06	1.50	-1.50	0.00
Start 3112.00 hold at 8451.77 MD									
8,500.00	0.00	0.00	7,898.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
8,600.00	0.00	0.00	7,998.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
8,700.00	0.00	0.00	8,098.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
8,800.00	0.00	0.00	8,198.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00

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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 512-20	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)
8,900.00	0.00	0.00	8,298.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,000.00	0.00	0.00	8,398.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,100.00	0.00	0.00	8,498.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,200.00	0.00	0.00	8,598.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,300.00	0.00	0.00	8,698.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,400.00	0.00	0.00	8,798.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,413.77	0.00	0.00	8,812.00	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
KMVGAS									
9,500.00	0.00	0.00	8,898.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,600.00	0.00	0.00	8,998.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,700.00	0.00	0.00	9,098.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,800.00	0.00	0.00	9,198.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
9,900.00	0.00	0.00	9,298.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,000.00	0.00	0.00	9,398.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,100.00	0.00	0.00	9,498.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,200.00	0.00	0.00	9,598.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,300.00	0.00	0.00	9,698.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,400.00	0.00	0.00	9,798.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,500.00	0.00	0.00	9,898.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,600.00	0.00	0.00	9,998.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,643.77	0.00	0.00	10,042.00	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
CMEO									
10,700.00	0.00	0.00	10,098.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,800.00	0.00	0.00	10,198.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
10,900.00	0.00	0.00	10,298.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
11,000.00	0.00	0.00	10,398.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
11,100.00	0.00	0.00	10,498.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
11,200.00	0.00	0.00	10,598.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
11,300.00	0.00	0.00	10,698.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
11,400.00	0.00	0.00	10,798.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
11,413.77	0.00	0.00	10,812.00	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
RLNS									
11,500.00	0.00	0.00	10,898.23	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
11,563.77	0.00	0.00	10,962.00	-2,692.16	-1,208.75	2,951.06	0.00	0.00	0.00
TD at 11563.77 - 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 512-20 KMV	0.00	0.00	8,812.00	-2,692.16	-1,208.75	1,590,363.50	2,349,337.60	39.431663	-107.803816
- plan hits target center									
- Circle (radius 50.00)									
WMC 512-20 PBHL	0.00	0.00	10,962.00	-2,692.16	-1,208.75	1,590,363.50	2,349,337.60	39.431663	-107.803816
- plan hits target center									
- Point									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well WMC 512-20 - Slot WMC 512-20
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 512-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,100.00	1,060.68	9 5/8"	9-5/8	13-1/2	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,243.09	4,832.00	G_SAND				
5,282.64	4,868.00	G_SAND_BASE				
7,431.69	6,842.00	WSTC_LOWER				
7,891.77	7,292.00	MVRD				
9,413.77	8,812.00	KMVGAS				
10,643.77	10,042.00	CMEO				
11,413.77	10,812.00	RLNS				
11,563.77	10,962.00	TD				

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 3.00	
935.26	910.72	-156.34	-70.20	Start 5886.00 hold at 935.26 MD	
6,821.26	6,268.55	-2,379.47	-1,068.36	Start Drop -1.50	
8,451.77	7,850.00	-2,692.16	-1,208.75	Start 3112.00 hold at 8451.77 MD	
11,563.77	10,962.00	-2,692.16	-1,208.75	TD at 11563.77	