



TEP Rocky Mountain LLC

Garfield Co., CO (NAD83)

WMC 24-17 Pad

WMC 532-20 - Slot WMC 532-20

OH

Plan: Plan #1

Standard Planning Report

07 October, 2020





Project: Garfield Co., CO (NAD83)
 Site: WMC 24-17 Pad
 Well: WMC 532-20
 Wellbore: OH
 Design: Plan #1
 Lat: 39.439039
 Long: -107.799487
 GL: 8868.00
 KB: KB=24' @ 8892.00usft



WELL DETAILS: WMC 532-20

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	WMC 532-20
0.00	0.00	1593018.50	2350628.00	39.439039	-107.799487	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
WMC 532-20 KMW	8832.00	-2605.27	1428.99	1590377.90	2351990.60	Circle (Radius: 50.00)
WMC 532-20 PBHL	10982.00	-2605.27	1428.99	1590377.90	2351990.60	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	
230.00	0.00	0.00	230.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
1096.69	26.00	151.26	1067.25	-169.48	92.96	3.00	151.26	193.30	Start 5455.41 hold at 1096.69 MD
6552.10	26.00	151.26	5970.51	-2266.31	1243.08	0.00	0.00	2584.84	Start Drop -1.50
8285.47	0.00	0.00	7645.00	-2605.27	1428.99	1.50	180.00	2971.44	Start 3337.00 hold at 8285.47 MD
11622.47	0.00	0.00	10982.00	-2605.27	1428.99	0.00	0.00	2971.44	TD at 11622.47

CASING DETAILS

TVD	MD	Name	Size
1070.22	1100.00	9 5/8"	9-5/8

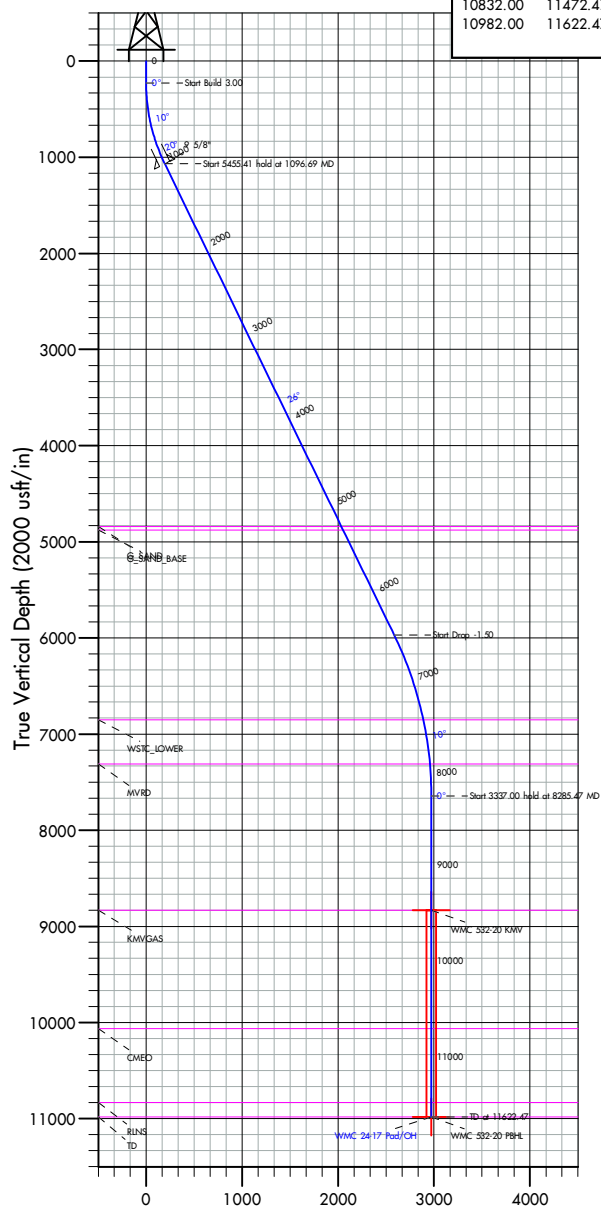
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4842.00	5296.51	G_SAND
4878.00	5336.56	G_SAND_BASE
6852.00	7486.66	WSTC_LOWER
7312.00	7952.05	MVRD
8832.00	9472.47	KMVGAS
10062.00	10702.47	CMEQ
10832.00	11472.47	RLNS
10982.00	11622.47	TD

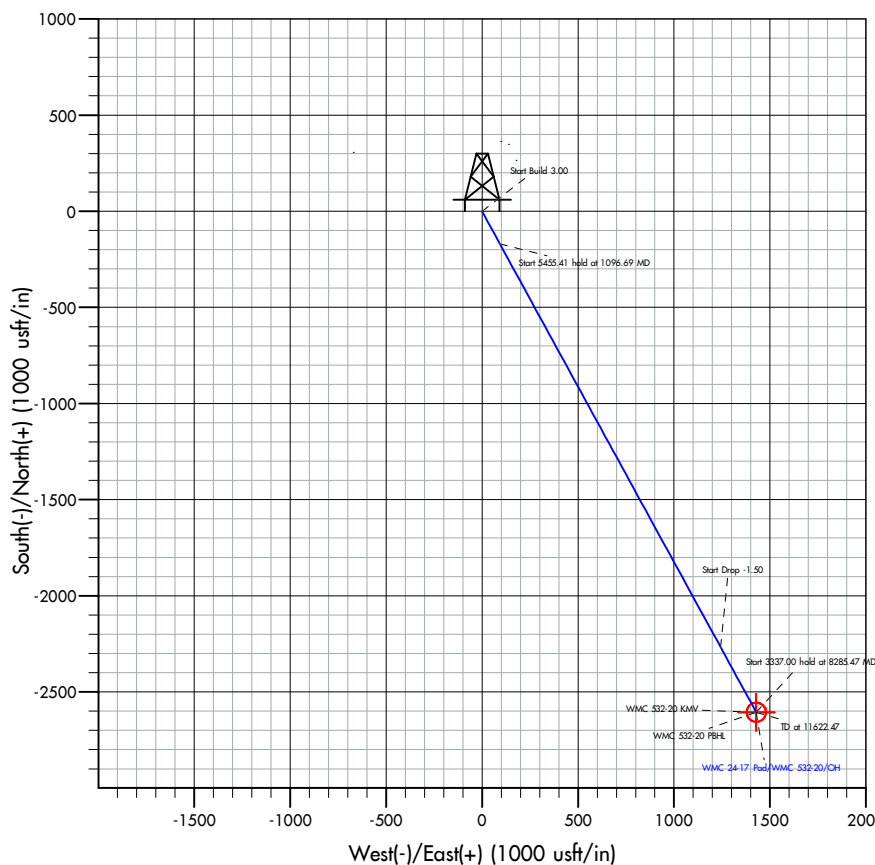


Azimuths to True North
 Magnetic North: 8.93°

Magnetic Field
 Strength: 51314.3nT
 Dip Angle: 65.48°
 Date: 9/2/2020
 Model: HDGM2020



Vertical Section at 151.26° (2000 usft/in)



Plan: Plan #1 (WMC 532-20/OH)

Created By: Dusty Mayer

Date: 13-25, October 07 2020

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well WMC 532-20 - Slot WMC 532-20
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 532-20	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 532-20 - Slot WMC 532-20				
Well Position	+N/-S	0.00 usft	Northing:	1,593,018.50 usft	Latitude:	39.439039
	+E/-W	0.00 usft	Easting:	2,350,628.00 usft	Longitude:	-107.799487
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	51,314.30000000

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	151.26	

Plan Survey Tool Program	Date	10/7/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	11,622.47 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	
230.00	0.00	0.00	230.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,096.69	26.00	151.26	1,067.25	-169.48	92.96	3.00	3.00	0.00	151.26	
6,552.10	26.00	151.26	5,970.51	-2,266.31	1,243.08	0.00	0.00	0.00	0.00	
8,285.47	0.00	0.00	7,645.00	-2,605.27	1,428.99	1.50	-1.50	0.00	180.00	
11,622.47	0.00	0.00	10,982.00	-2,605.27	1,428.99	0.00	0.00	0.00	0.00	WMC 532-20 PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well WMC 532-20 - Slot WMC 532-20
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 532-20	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
230.00	0.00	0.00	230.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
300.00	2.10	151.26	299.98	-1.12	0.62	1.28	3.00	3.00	0.00
400.00	5.10	151.26	399.78	-6.63	3.64	7.56	3.00	3.00	0.00
500.00	8.10	151.26	499.10	-16.71	9.16	19.05	3.00	3.00	0.00
600.00	11.10	151.26	597.69	-31.33	17.18	35.73	3.00	3.00	0.00
700.00	14.10	151.26	695.27	-50.45	27.67	57.54	3.00	3.00	0.00
800.00	17.10	151.26	791.58	-74.02	40.60	84.43	3.00	3.00	0.00
900.00	20.10	151.26	886.34	-101.99	55.94	116.32	3.00	3.00	0.00
1,000.00	23.10	151.26	979.31	-134.26	73.64	153.13	3.00	3.00	0.00
1,096.69	26.00	151.26	1,067.25	-169.48	92.96	193.30	3.00	3.00	0.00
Start 5455.41 hold at 1096.69 MD									
1,100.00	26.00	151.26	1,070.22	-170.75	93.66	194.75	0.00	0.00	0.00
9 5/8"									
1,200.00	26.00	151.26	1,160.10	-209.19	114.74	238.59	0.00	0.00	0.00
1,300.00	26.00	151.26	1,249.98	-247.62	135.82	282.43	0.00	0.00	0.00
1,400.00	26.00	151.26	1,339.86	-286.06	156.90	326.26	0.00	0.00	0.00
1,500.00	26.00	151.26	1,429.74	-324.49	177.99	370.10	0.00	0.00	0.00
1,600.00	26.00	151.26	1,519.62	-362.93	199.07	413.94	0.00	0.00	0.00
1,700.00	26.00	151.26	1,609.50	-401.37	220.15	457.78	0.00	0.00	0.00
1,800.00	26.00	151.26	1,699.38	-439.80	241.23	501.62	0.00	0.00	0.00
1,900.00	26.00	151.26	1,789.25	-478.24	262.31	545.45	0.00	0.00	0.00
2,000.00	26.00	151.26	1,879.13	-516.67	283.40	589.29	0.00	0.00	0.00
2,100.00	26.00	151.26	1,969.01	-555.11	304.48	633.13	0.00	0.00	0.00
2,200.00	26.00	151.26	2,058.89	-593.55	325.56	676.97	0.00	0.00	0.00
2,300.00	26.00	151.26	2,148.77	-631.98	346.64	720.81	0.00	0.00	0.00
2,400.00	26.00	151.26	2,238.65	-670.42	367.73	764.65	0.00	0.00	0.00
2,500.00	26.00	151.26	2,328.53	-708.85	388.81	808.48	0.00	0.00	0.00
2,600.00	26.00	151.26	2,418.41	-747.29	409.89	852.32	0.00	0.00	0.00
2,700.00	26.00	151.26	2,508.29	-785.73	430.97	896.16	0.00	0.00	0.00
2,800.00	26.00	151.26	2,598.17	-824.16	452.05	940.00	0.00	0.00	0.00
2,900.00	26.00	151.26	2,688.04	-862.60	473.14	983.84	0.00	0.00	0.00
3,000.00	26.00	151.26	2,777.92	-901.03	494.22	1,027.67	0.00	0.00	0.00
3,100.00	26.00	151.26	2,867.80	-939.47	515.30	1,071.51	0.00	0.00	0.00
3,200.00	26.00	151.26	2,957.68	-977.90	536.38	1,115.35	0.00	0.00	0.00
3,300.00	26.00	151.26	3,047.56	-1,016.34	557.46	1,159.19	0.00	0.00	0.00
3,400.00	26.00	151.26	3,137.44	-1,054.78	578.55	1,203.03	0.00	0.00	0.00
3,500.00	26.00	151.26	3,227.32	-1,093.21	599.63	1,246.86	0.00	0.00	0.00
3,600.00	26.00	151.26	3,317.20	-1,131.65	620.71	1,290.70	0.00	0.00	0.00
3,700.00	26.00	151.26	3,407.08	-1,170.08	641.79	1,334.54	0.00	0.00	0.00
3,800.00	26.00	151.26	3,496.95	-1,208.52	662.88	1,378.38	0.00	0.00	0.00
3,900.00	26.00	151.26	3,586.83	-1,246.96	683.96	1,422.22	0.00	0.00	0.00
4,000.00	26.00	151.26	3,676.71	-1,285.39	705.04	1,466.05	0.00	0.00	0.00
4,100.00	26.00	151.26	3,766.59	-1,323.83	726.12	1,509.89	0.00	0.00	0.00
4,200.00	26.00	151.26	3,856.47	-1,362.26	747.20	1,553.73	0.00	0.00	0.00
4,300.00	26.00	151.26	3,946.35	-1,400.70	768.29	1,597.57	0.00	0.00	0.00
4,400.00	26.00	151.26	4,036.23	-1,439.14	789.37	1,641.41	0.00	0.00	0.00
4,500.00	26.00	151.26	4,126.11	-1,477.57	810.45	1,685.24	0.00	0.00	0.00
4,600.00	26.00	151.26	4,215.99	-1,516.01	831.53	1,729.08	0.00	0.00	0.00
4,700.00	26.00	151.26	4,305.87	-1,554.44	852.62	1,772.92	0.00	0.00	0.00

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Site:	WMC 24-17 Pad	North Reference:	True
Well:	WMC 532-20	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	26.00	151.26	4,395.74	-1,592.88	873.70	1,816.76	0.00	0.00	0.00
4,900.00	26.00	151.26	4,485.62	-1,631.31	894.78	1,860.60	0.00	0.00	0.00
5,000.00	26.00	151.26	4,575.50	-1,669.75	915.86	1,904.43	0.00	0.00	0.00
5,100.00	26.00	151.26	4,665.38	-1,708.19	936.94	1,948.27	0.00	0.00	0.00
5,200.00	26.00	151.26	4,755.26	-1,746.62	958.03	1,992.11	0.00	0.00	0.00
5,296.51	26.00	151.26	4,842.00	-1,783.72	978.37	2,034.42	0.00	0.00	0.00
G_SAND									
5,300.00	26.00	151.26	4,845.14	-1,785.06	979.11	2,035.95	0.00	0.00	0.00
5,336.56	26.00	151.26	4,878.00	-1,799.11	986.82	2,051.98	0.00	0.00	0.00
G_SAND_BASE									
5,400.00	26.00	151.26	4,935.02	-1,823.49	1,000.19	2,079.79	0.00	0.00	0.00
5,500.00	26.00	151.26	5,024.90	-1,861.93	1,021.27	2,123.62	0.00	0.00	0.00
5,600.00	26.00	151.26	5,114.78	-1,900.37	1,042.35	2,167.46	0.00	0.00	0.00
5,700.00	26.00	151.26	5,204.65	-1,938.80	1,063.44	2,211.30	0.00	0.00	0.00
5,800.00	26.00	151.26	5,294.53	-1,977.24	1,084.52	2,255.14	0.00	0.00	0.00
5,900.00	26.00	151.26	5,384.41	-2,015.67	1,105.60	2,298.98	0.00	0.00	0.00
6,000.00	26.00	151.26	5,474.29	-2,054.11	1,126.68	2,342.81	0.00	0.00	0.00
6,100.00	26.00	151.26	5,564.17	-2,092.55	1,147.77	2,386.65	0.00	0.00	0.00
6,200.00	26.00	151.26	5,654.05	-2,130.98	1,168.85	2,430.49	0.00	0.00	0.00
6,300.00	26.00	151.26	5,743.93	-2,169.42	1,189.93	2,474.33	0.00	0.00	0.00
6,400.00	26.00	151.26	5,833.81	-2,207.85	1,211.01	2,518.17	0.00	0.00	0.00
6,500.00	26.00	151.26	5,923.69	-2,246.29	1,232.09	2,562.01	0.00	0.00	0.00
6,552.10	26.00	151.26	5,970.51	-2,266.31	1,243.08	2,584.84	0.00	0.00	0.00
Start Drop -1.50									
6,600.00	25.28	151.26	6,013.70	-2,284.49	1,253.05	2,605.57	1.50	-1.50	0.00
6,700.00	23.78	151.26	6,104.67	-2,320.89	1,273.01	2,647.09	1.50	-1.50	0.00
6,800.00	22.28	151.26	6,196.69	-2,355.19	1,291.83	2,686.21	1.50	-1.50	0.00
6,900.00	20.78	151.26	6,289.71	-2,387.37	1,309.48	2,722.92	1.50	-1.50	0.00
7,000.00	19.28	151.26	6,383.66	-2,417.40	1,325.95	2,757.17	1.50	-1.50	0.00
7,100.00	17.78	151.26	6,478.47	-2,445.27	1,341.24	2,788.95	1.50	-1.50	0.00
7,200.00	16.28	151.26	6,574.08	-2,470.95	1,355.32	2,818.24	1.50	-1.50	0.00
7,300.00	14.78	151.26	6,670.43	-2,494.43	1,368.20	2,845.02	1.50	-1.50	0.00
7,400.00	13.28	151.26	6,767.44	-2,515.68	1,379.86	2,869.26	1.50	-1.50	0.00
7,486.66	11.98	151.26	6,852.00	-2,532.30	1,388.97	2,888.22	1.50	-1.50	0.00
WSTC_LOWER									
7,500.00	11.78	151.26	6,865.05	-2,534.71	1,390.29	2,890.96	1.50	-1.50	0.00
7,600.00	10.28	151.26	6,963.20	-2,551.49	1,399.50	2,910.10	1.50	-1.50	0.00
7,700.00	8.78	151.26	7,061.82	-2,566.01	1,407.46	2,926.66	1.50	-1.50	0.00
7,800.00	7.28	151.26	7,160.84	-2,578.26	1,414.18	2,940.63	1.50	-1.50	0.00
7,900.00	5.78	151.26	7,260.18	-2,588.23	1,419.65	2,952.01	1.50	-1.50	0.00
7,952.05	5.00	151.26	7,312.00	-2,592.52	1,422.00	2,956.90	1.50	-1.50	0.00
MVRD									
8,000.00	4.28	151.26	7,359.80	-2,595.92	1,423.87	2,960.78	1.50	-1.50	0.00
8,100.00	2.78	151.26	7,459.60	-2,601.32	1,426.83	2,966.94	1.50	-1.50	0.00
8,200.00	1.28	151.26	7,559.54	-2,604.43	1,428.54	2,970.48	1.50	-1.50	0.00
8,285.47	0.00	0.00	7,645.00	-2,605.27	1,428.99	2,971.44	1.50	-1.50	0.00
Start 3337.00 hold at 8285.47 MD									
8,300.00	0.00	0.00	7,659.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
8,400.00	0.00	0.00	7,759.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
8,500.00	0.00	0.00	7,859.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
8,600.00	0.00	0.00	7,959.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
8,700.00	0.00	0.00	8,059.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
8,800.00	0.00	0.00	8,159.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00

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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 532-20	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	8,259.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,000.00	0.00	0.00	8,359.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,100.00	0.00	0.00	8,459.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,200.00	0.00	0.00	8,559.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,300.00	0.00	0.00	8,659.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,400.00	0.00	0.00	8,759.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,472.47	0.00	0.00	8,832.00	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
KMVGAS									
9,500.00	0.00	0.00	8,859.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,600.00	0.00	0.00	8,959.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,700.00	0.00	0.00	9,059.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,800.00	0.00	0.00	9,159.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
9,900.00	0.00	0.00	9,259.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,000.00	0.00	0.00	9,359.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,100.00	0.00	0.00	9,459.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,200.00	0.00	0.00	9,559.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,300.00	0.00	0.00	9,659.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,400.00	0.00	0.00	9,759.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,500.00	0.00	0.00	9,859.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,600.00	0.00	0.00	9,959.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,700.00	0.00	0.00	10,059.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,702.47	0.00	0.00	10,062.00	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
CME0									
10,800.00	0.00	0.00	10,159.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
10,900.00	0.00	0.00	10,259.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
11,000.00	0.00	0.00	10,359.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
11,100.00	0.00	0.00	10,459.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
11,200.00	0.00	0.00	10,559.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
11,300.00	0.00	0.00	10,659.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
11,400.00	0.00	0.00	10,759.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
11,472.47	0.00	0.00	10,832.00	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
RLNS									
11,500.00	0.00	0.00	10,859.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
11,600.00	0.00	0.00	10,959.53	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
11,622.47	0.00	0.00	10,982.00	-2,605.27	1,428.99	2,971.44	0.00	0.00	0.00
TD at 11622.47 - TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
WMC 532-20 KMV	0.00	0.00	8,832.00	-2,605.27	1,428.99	1,590,377.90	2,351,990.60	39.431887	-107.794428
- hit/miss target									
- Shape									
- plan hits target center									
- Circle (radius 50.00)									
WMC 532-20 PBHL	0.00	0.00	10,982.00	-2,605.27	1,428.99	1,590,377.90	2,351,990.60	39.431887	-107.794428
- plan hits target center									
- Point									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well WMC 532-20 - Slot WMC 532-20
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 532-20	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	1,070.22	9 5/8"	9-5/8	13-1/2

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	5,296.51	4,842.00	G_SAND			
	5,336.56	4,878.00	G_SAND_BASE			
	7,486.66	6,852.00	WSTC_LOWER			
	7,952.05	7,312.00	MVRD			
	9,472.47	8,832.00	KMVGAS			
	10,702.47	10,062.00	CMEO			
	11,472.47	10,832.00	RLNS			
	11,622.47	10,982.00	TD			

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
230.00	230.00	0.00	0.00	Start Build 3.00
1,096.69	1,067.25	-169.48	92.96	Start 5455.41 hold at 1096.69 MD
6,552.10	5,970.51	-2,266.31	1,243.08	Start Drop -1.50
8,285.47	7,645.00	-2,605.27	1,428.99	Start 3337.00 hold at 8285.47 MD
11,622.47	10,982.00	-2,605.27	1,428.99	TD at 11622.47