



# **TEP Rocky Mountain LLC**

**Garfield Co., CO (NAD83)**

**NR 23-3 Pad**

**NR 332-4 - Slot NR 332-4**

**OH**

**Plan: Plan #2**

## **Standard Planning Report**

**15 September, 2020**



## Plan #2



Project: Garfield Co., CO (NAD83)  
Site: NR 23-3 Pad  
Well: NR 332-4  
Wellbore: OH  
Design: Plan #2  
Lat: 39.554266  
Long: -107.879171  
GL: 6728.00  
KB: KB=24' @ 6752.00usft (H&P 318)



## WELL DETAILS: NR 332-4

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1635553.70	2329229.30	39.554266	-107.879171	NR 332-4

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
NR 332-4 KMY	7332.00	1526.94	-3573.91	1637173.70	2325696.60	Circle (Radius: 50.00)
NR 332-4 PBHL	9992.00	1526.94	-3573.91	1637173.70	2325696.60	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	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	Build 3.00
1319.73	35.99	293.13	1242.37	143.24	-335.28	3.00	293.13	364.59	4752.06 hold
6071.79	35.99	293.13	5087.26	1240.45	-2903.36	0.00	0.00	3157.25	Drop -1.50
8471.26	0.00	0.00	7332.00	1526.94	-3573.91	1.50	180.00	3886.43	2660.00 hold
11131.26	0.00	0.00	9992.00	1526.94	-3573.91	0.00	0.00	3886.43	TD at 11131.26

## CASING DETAILS

TVD	MD	Name	Size
1057.56	1100.00	9 5/8"	9-5/8"

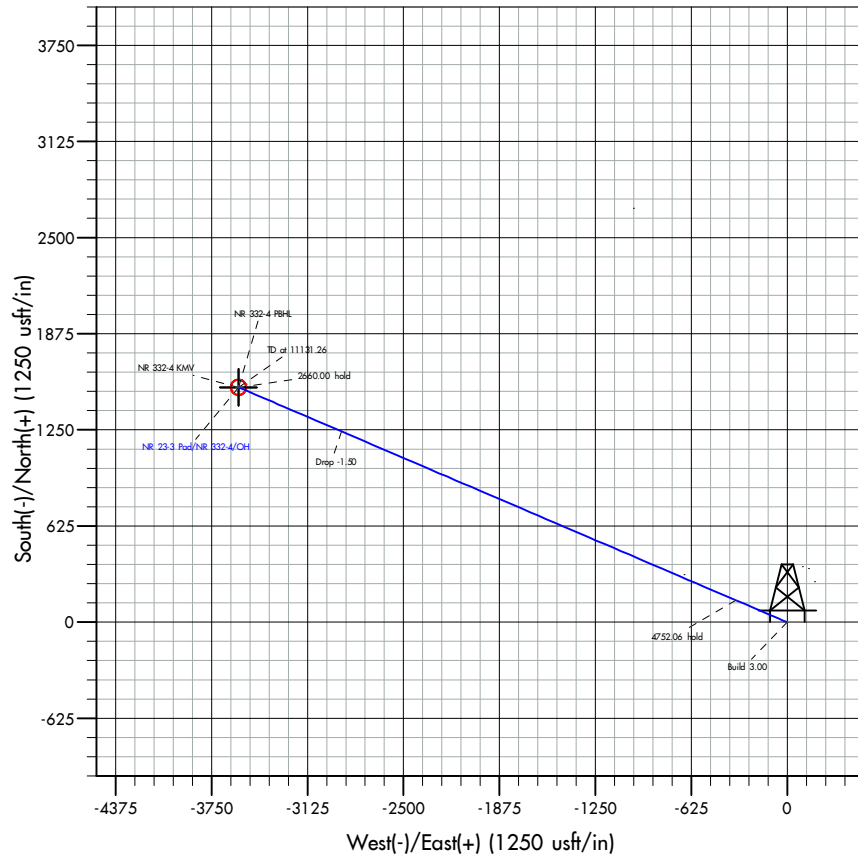
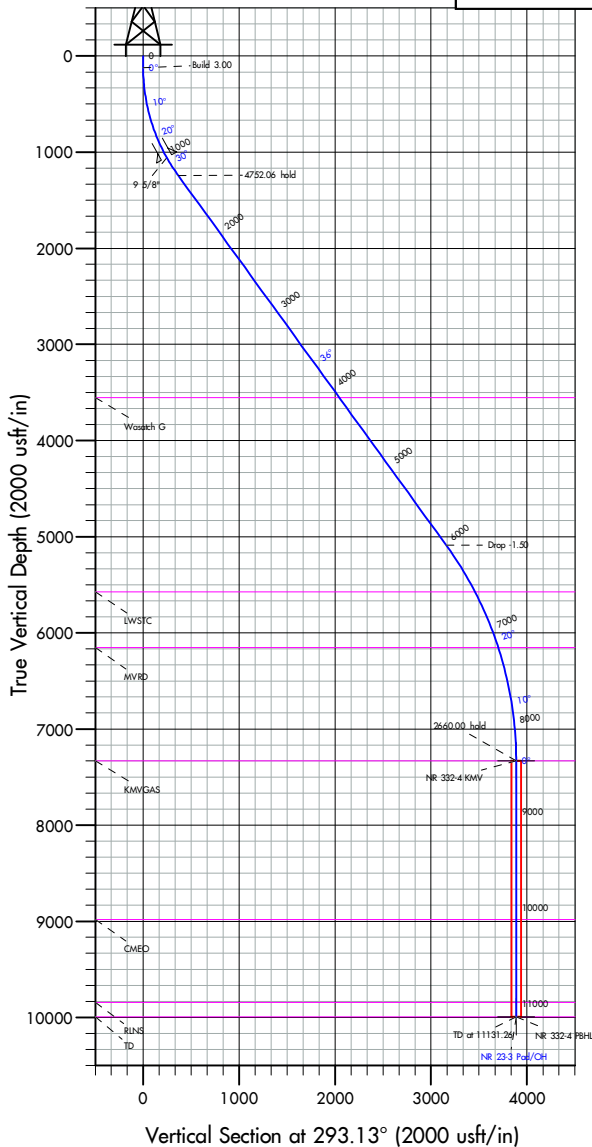
## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3552.00	4174.30	Wasatch G
5572.00	6642.15	LWSTC
6152.00	7271.63	MVRD
7332.00	8471.26	KMYGAS
8982.00	10121.26	CMEO
9842.00	10981.26	RLNS
9992.00	11131.26	TD



Azimuths to True North  
Magnetic North: 9.23°

Magnetic Field  
Strength: 51337.5nT  
Dip Angle: 65.73°  
Date: 8/23/2020  
Model: HDGM2020



Plan: Plan #2 (NR 332-4/OH)

Created By: Dusty Moyer

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NR 332-4 - Slot NR 332-4
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	KB=24' @ 6752.00usft (H&P 318)
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>MD Reference:</b>	KB=24' @ 6752.00usft (H&P 318)
<b>Site:</b>	NR 23-3 Pad	<b>North Reference:</b>	True
<b>Well:</b>	NR 332-4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #2		

<b>Project</b>	Garfield Co., 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>	NR 23-3 Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,635,494.60 usft	<b>Latitude:</b> 39.554107
<b>From:</b>	Map	<b>Easting:</b>	2,329,275.40 usft	<b>Longitude:</b> -107.879002
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	

<b>Well</b>	NR 332-4 - Slot NR 332-4			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,635,553.70 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,329,229.30 usft
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft
<b>Grid Convergence:</b>		-1.50 °	<b>Ground Level:</b>	6,728.00 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>
	HDGM2020	8/23/2020	9.23	65.73	51,337.50000000

<b>Design</b>	Plan #2			
<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	293.13

<b>Plan Survey Tool Program</b>	<b>Date</b>	9/15/2020		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	11,131.26 Plan #2 (OH)	MWD+ HGDM	
			OWSG MWD + HGDM	

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
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	
1,319.73	35.99	293.13	1,242.37	143.24	-335.28	3.00	3.00	0.00	293.13	
6,071.79	35.99	293.13	5,087.26	1,240.45	-2,903.36	0.00	0.00	0.00	0.00	
8,471.26	0.00	0.00	7,332.00	1,526.94	-3,573.91	1.50	-1.50	0.00	180.00	
11,131.26	0.00	0.00	9,992.00	1,526.94	-3,573.91	0.00	0.00	0.00	0.00	NR 332-4 PBHL

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NR 332-4 - Slot NR 332-4
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	KB=24' @ 6752.00usft (H&P 318)
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>MD Reference:</b>	KB=24' @ 6752.00usft (H&P 318)
<b>Site:</b>	NR 23-3 Pad	<b>North Reference:</b>	True
<b>Well:</b>	NR 332-4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #2		

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
<b>Build 3.00</b>									
200.00	2.40	293.13	199.98	0.66	-1.54	1.68	3.00	3.00	0.00
300.00	5.40	293.13	299.73	3.33	-7.79	8.48	3.00	3.00	0.00
400.00	8.40	293.13	399.00	8.05	-18.84	20.49	3.00	3.00	0.00
500.00	11.40	293.13	497.50	14.80	-34.65	37.68	3.00	3.00	0.00
600.00	14.40	293.13	594.96	23.57	-55.18	60.00	3.00	3.00	0.00
700.00	17.40	293.13	691.13	34.34	-80.37	87.39	3.00	3.00	0.00
800.00	20.40	293.13	785.72	47.06	-110.15	119.78	3.00	3.00	0.00
900.00	23.40	293.13	878.50	61.71	-144.45	157.08	3.00	3.00	0.00
1,000.00	26.40	293.13	969.19	78.25	-183.16	199.18	3.00	3.00	0.00
1,100.00	29.40	293.13	1,057.56	96.64	-226.18	245.96	3.00	3.00	0.00
<b>9 5/8"</b>									
1,200.00	32.40	293.13	1,143.35	116.81	-273.40	297.31	3.00	3.00	0.00
1,300.00	35.40	293.13	1,226.35	138.72	-324.69	353.08	3.00	3.00	0.00
1,319.73	35.99	293.13	1,242.37	143.24	-335.28	364.59	3.00	3.00	0.00
<b>4752.06 hold</b>									
1,400.00	35.99	293.13	1,307.32	161.78	-378.65	411.76	0.00	0.00	0.00
1,500.00	35.99	293.13	1,388.23	184.87	-432.69	470.53	0.00	0.00	0.00
1,600.00	35.99	293.13	1,469.13	207.96	-486.74	529.30	0.00	0.00	0.00
1,700.00	35.99	293.13	1,550.04	231.04	-540.78	588.07	0.00	0.00	0.00
1,800.00	35.99	293.13	1,630.95	254.13	-594.82	646.83	0.00	0.00	0.00
1,900.00	35.99	293.13	1,711.86	277.22	-648.86	705.60	0.00	0.00	0.00
2,000.00	35.99	293.13	1,792.77	300.31	-702.90	764.37	0.00	0.00	0.00
2,100.00	35.99	293.13	1,873.68	323.40	-756.94	823.13	0.00	0.00	0.00
2,200.00	35.99	293.13	1,954.59	346.49	-810.98	881.90	0.00	0.00	0.00
2,300.00	35.99	293.13	2,035.50	369.58	-865.03	940.67	0.00	0.00	0.00
2,400.00	35.99	293.13	2,116.41	392.67	-919.07	999.44	0.00	0.00	0.00
2,500.00	35.99	293.13	2,197.32	415.76	-973.11	1,058.20	0.00	0.00	0.00
2,600.00	35.99	293.13	2,278.23	438.85	-1,027.15	1,116.97	0.00	0.00	0.00
2,700.00	35.99	293.13	2,359.14	461.93	-1,081.19	1,175.74	0.00	0.00	0.00
2,800.00	35.99	293.13	2,440.05	485.02	-1,135.23	1,234.51	0.00	0.00	0.00
2,900.00	35.99	293.13	2,520.96	508.11	-1,189.28	1,293.27	0.00	0.00	0.00
3,000.00	35.99	293.13	2,601.87	531.20	-1,243.32	1,352.04	0.00	0.00	0.00
3,100.00	35.99	293.13	2,682.78	554.29	-1,297.36	1,410.81	0.00	0.00	0.00
3,200.00	35.99	293.13	2,763.69	577.38	-1,351.40	1,469.57	0.00	0.00	0.00
3,300.00	35.99	293.13	2,844.60	600.47	-1,405.44	1,528.34	0.00	0.00	0.00
3,400.00	35.99	293.13	2,925.51	623.56	-1,459.48	1,587.11	0.00	0.00	0.00
3,500.00	35.99	293.13	3,006.42	646.65	-1,513.52	1,645.88	0.00	0.00	0.00
3,600.00	35.99	293.13	3,087.33	669.74	-1,567.57	1,704.64	0.00	0.00	0.00
3,700.00	35.99	293.13	3,168.24	692.82	-1,621.61	1,763.41	0.00	0.00	0.00
3,800.00	35.99	293.13	3,249.15	715.91	-1,675.65	1,822.18	0.00	0.00	0.00
3,900.00	35.99	293.13	3,330.06	739.00	-1,729.69	1,880.94	0.00	0.00	0.00
4,000.00	35.99	293.13	3,410.97	762.09	-1,783.73	1,939.71	0.00	0.00	0.00
4,100.00	35.99	293.13	3,491.88	785.18	-1,837.77	1,998.48	0.00	0.00	0.00
4,174.30	35.99	293.13	3,552.00	802.34	-1,877.93	2,042.14	0.00	0.00	0.00
<b>Wasatch G</b>									
4,200.00	35.99	293.13	3,572.79	808.27	-1,891.81	2,057.25	0.00	0.00	0.00
4,300.00	35.99	293.13	3,653.70	831.36	-1,945.86	2,116.01	0.00	0.00	0.00
4,400.00	35.99	293.13	3,734.61	854.45	-1,999.90	2,174.78	0.00	0.00	0.00
4,500.00	35.99	293.13	3,815.52	877.54	-2,053.94	2,233.55	0.00	0.00	0.00

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<b>Site:</b>	NR 23-3 Pad	<b>North Reference:</b>	True
<b>Well:</b>	NR 332-4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #2		

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)
4,600.00	35.99	293.13	3,896.43	900.63	-2,107.98	2,292.32	0.00	0.00	0.00
4,700.00	35.99	293.13	3,977.34	923.71	-2,162.02	2,351.08	0.00	0.00	0.00
4,800.00	35.99	293.13	4,058.25	946.80	-2,216.06	2,409.85	0.00	0.00	0.00
4,900.00	35.99	293.13	4,139.16	969.89	-2,270.11	2,468.62	0.00	0.00	0.00
5,000.00	35.99	293.13	4,220.07	992.98	-2,324.15	2,527.38	0.00	0.00	0.00
5,100.00	35.99	293.13	4,300.98	1,016.07	-2,378.19	2,586.15	0.00	0.00	0.00
5,200.00	35.99	293.13	4,381.89	1,039.16	-2,432.23	2,644.92	0.00	0.00	0.00
5,300.00	35.99	293.13	4,462.80	1,062.25	-2,486.27	2,703.69	0.00	0.00	0.00
5,400.00	35.99	293.13	4,543.71	1,085.34	-2,540.31	2,762.45	0.00	0.00	0.00
5,500.00	35.99	293.13	4,624.62	1,108.43	-2,594.35	2,821.22	0.00	0.00	0.00
5,600.00	35.99	293.13	4,705.53	1,131.52	-2,648.40	2,879.99	0.00	0.00	0.00
5,700.00	35.99	293.13	4,786.44	1,154.60	-2,702.44	2,938.75	0.00	0.00	0.00
5,800.00	35.99	293.13	4,867.35	1,177.69	-2,756.48	2,997.52	0.00	0.00	0.00
5,900.00	35.99	293.13	4,948.26	1,200.78	-2,810.52	3,056.29	0.00	0.00	0.00
6,000.00	35.99	293.13	5,029.17	1,223.87	-2,864.56	3,115.06	0.00	0.00	0.00
6,071.79	35.99	293.13	5,087.26	1,240.45	-2,903.36	3,157.25	0.00	0.00	0.00
<b>Drop -1.50</b>									
6,100.00	35.57	293.13	5,110.14	1,246.93	-2,918.53	3,173.74	1.50	-1.50	0.00
6,200.00	34.07	293.13	5,192.24	1,269.36	-2,971.03	3,230.84	1.50	-1.50	0.00
6,300.00	32.57	293.13	5,275.80	1,290.94	-3,021.54	3,285.76	1.50	-1.50	0.00
6,400.00	31.07	293.13	5,360.77	1,311.65	-3,070.02	3,338.49	1.50	-1.50	0.00
6,500.00	29.57	293.13	5,447.09	1,331.49	-3,116.45	3,388.97	1.50	-1.50	0.00
6,600.00	28.07	293.13	5,534.70	1,350.43	-3,160.77	3,437.17	1.50	-1.50	0.00
6,642.15	27.44	293.13	5,572.00	1,358.14	-3,178.82	3,456.80	1.50	-1.50	0.00
<b>LWSTC</b>									
6,700.00	26.57	293.13	5,623.54	1,368.46	-3,202.97	3,483.06	1.50	-1.50	0.00
6,800.00	25.07	293.13	5,713.56	1,385.57	-3,243.02	3,526.61	1.50	-1.50	0.00
6,900.00	23.57	293.13	5,804.68	1,401.75	-3,280.89	3,567.79	1.50	-1.50	0.00
7,000.00	22.07	293.13	5,896.85	1,416.98	-3,316.56	3,606.57	1.50	-1.50	0.00
7,100.00	20.57	293.13	5,990.01	1,431.27	-3,349.99	3,642.93	1.50	-1.50	0.00
7,200.00	19.07	293.13	6,084.08	1,444.59	-3,381.16	3,676.83	1.50	-1.50	0.00
7,271.63	17.99	293.13	6,152.00	1,453.53	-3,402.10	3,699.60	1.50	-1.50	0.00
<b>MVRD</b>									
7,300.00	17.57	293.13	6,179.01	1,456.94	-3,410.07	3,708.26	1.50	-1.50	0.00
7,400.00	16.07	293.13	6,274.73	1,468.30	-3,436.67	3,737.20	1.50	-1.50	0.00
7,500.00	14.57	293.13	6,371.17	1,478.68	-3,460.97	3,763.61	1.50	-1.50	0.00
7,600.00	13.07	293.13	6,468.28	1,488.07	-3,482.93	3,787.50	1.50	-1.50	0.00
7,700.00	11.57	293.13	6,565.97	1,496.45	-3,502.55	3,808.83	1.50	-1.50	0.00
7,800.00	10.07	293.13	6,664.19	1,503.82	-3,519.81	3,827.60	1.50	-1.50	0.00
7,900.00	8.57	293.13	6,762.87	1,510.19	-3,534.70	3,843.80	1.50	-1.50	0.00
8,000.00	7.07	293.13	6,861.94	1,515.53	-3,547.21	3,857.40	1.50	-1.50	0.00
8,100.00	5.57	293.13	6,961.33	1,519.85	-3,557.33	3,868.41	1.50	-1.50	0.00
8,200.00	4.07	293.13	7,060.97	1,523.15	-3,565.06	3,876.81	1.50	-1.50	0.00
8,300.00	2.57	293.13	7,160.80	1,525.43	-3,570.38	3,882.60	1.50	-1.50	0.00
8,400.00	1.07	293.13	7,260.75	1,526.68	-3,573.30	3,885.77	1.50	-1.50	0.00
8,471.26	0.00	0.00	7,332.00	1,526.94	-3,573.91	3,886.43	1.50	-1.50	0.00
<b>2660.00 hold - KMGAS</b>									
8,500.00	0.00	0.00	7,360.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
8,600.00	0.00	0.00	7,460.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
8,700.00	0.00	0.00	7,560.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
8,800.00	0.00	0.00	7,660.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
8,900.00	0.00	0.00	7,760.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
9,000.00	0.00	0.00	7,860.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NR 332-4 - Slot NR 332-4
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	KB=24' @ 6752.00usft (H&P 318)
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>MD Reference:</b>	KB=24' @ 6752.00usft (H&P 318)
<b>Site:</b>	NR 23-3 Pad	<b>North Reference:</b>	True
<b>Well:</b>	NR 332-4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #2		

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	7,960.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
9,200.00	0.00	0.00	8,060.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
9,300.00	0.00	0.00	8,160.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
9,400.00	0.00	0.00	8,260.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
9,500.00	0.00	0.00	8,360.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
9,600.00	0.00	0.00	8,460.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
9,700.00	0.00	0.00	8,560.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
9,800.00	0.00	0.00	8,660.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
9,900.00	0.00	0.00	8,760.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,000.00	0.00	0.00	8,860.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,100.00	0.00	0.00	8,960.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,121.26	0.00	0.00	8,982.00	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
CMEO									
10,200.00	0.00	0.00	9,060.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,300.00	0.00	0.00	9,160.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,400.00	0.00	0.00	9,260.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,500.00	0.00	0.00	9,360.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,600.00	0.00	0.00	9,460.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,700.00	0.00	0.00	9,560.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,800.00	0.00	0.00	9,660.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,900.00	0.00	0.00	9,760.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
10,981.26	0.00	0.00	9,842.00	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
RLNS									
11,000.00	0.00	0.00	9,860.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
11,100.00	0.00	0.00	9,960.74	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
11,131.26	0.00	0.00	9,992.00	1,526.94	-3,573.91	3,886.43	0.00	0.00	0.00
TD at 11131.26 - TD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NR 332-4 KMV - plan hits target center - Circle (radius 50.00)	0.00	0.00	7,332.00	1,526.94	-3,573.91	1,637,173.70	2,325,696.60	39.558457	-107.891847
NR 332-4 PBHL - plan hits target center - Point	0.00	0.00	9,992.00	1,526.94	-3,573.91	1,637,173.70	2,325,696.60	39.558457	-107.891847

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,100.00	1,057.56	9 5/8"	9-5/8	13-1/2	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NR 332-4 - Slot NR 332-4
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	KB=24' @ 6752.00usft (H&P 318)
<b>Project:</b>	Garfield Co., CO (NAD83)	<b>MD Reference:</b>	KB=24' @ 6752.00usft (H&P 318)
<b>Site:</b>	NR 23-3 Pad	<b>North Reference:</b>	True
<b>Well:</b>	NR 332-4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,174.30	3,552.00	Wasatch G		0.00		
6,642.15	5,572.00	LWSTC		0.00		
7,271.63	6,152.00	MVRD		0.00		
8,471.26	7,332.00	KMVGAS		0.00		
10,121.26	8,982.00	CMEO		0.00		
10,981.26	9,842.00	RLNS		0.00		
11,131.26	9,992.00	TD		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.00	0.00	Build 3.00	
1,319.73	1,242.37	143.24	-335.28	4752.06 hold	
6,071.79	5,087.26	1,240.45	-2,903.36	Drop -1.50	
8,471.26	7,332.00	1,526.94	-3,573.91	2660.00 hold	
11,131.26	9,992.00	1,526.94	-3,573.91	TD at 11131.26	