



# **TEP Rocky Mountain LLC**

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

**NR 23-3 Pad**

**NR 443-4 - Slot NR 443-4**

**OH**

**Plan: Plan 2**

## **Standard Planning Report**

**15 September, 2020**





Project: Garfield Co., CO (NAD83)  
 Site: NR 23-3 Pad  
 Well: NR 443-4  
 Wellbore: OH  
 Design: Plan 2  
 Lat: 39.554123  
 Long: -107.879019  
 GL: 6728.00  
 KB: KB=24' @ 6752.00usft (H&P 318)



## WELL DETAILS: NR 443-4

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1635500.50	2329270.80	39.554123	-107.879019	NR 443-4

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
NR 443-4 KMW	7152.00	-1841.19	-3473.68	1633750.90	2325750.10	Circle (Radius: 50.00)
NR 443-4 PBHL	9827.00	-1841.19	-3473.68	1633750.90	2325750.10	Point

## SECTION DETAILS

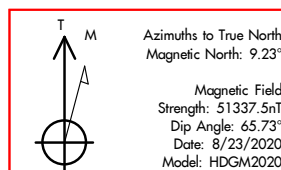
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	Build 3.00
1379.50	37.78	242.07	1290.17	-187.55	-353.84	3.00	242.07	400.47	4455.80 hold
5835.30	37.78	242.07	4811.66	-1466.09	-2766.01	0.00	0.00	3130.53	Drop -1.50
8354.30	0.00	0.00	7152.00	-1841.19	-3473.68	1.50	180.00	3931.47	2675.00 hold
11029.30	0.00	0.00	9827.00	-1841.19	-3473.68	0.00	0.00	3931.47	TD at 11029.30

## CASING DETAILS

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

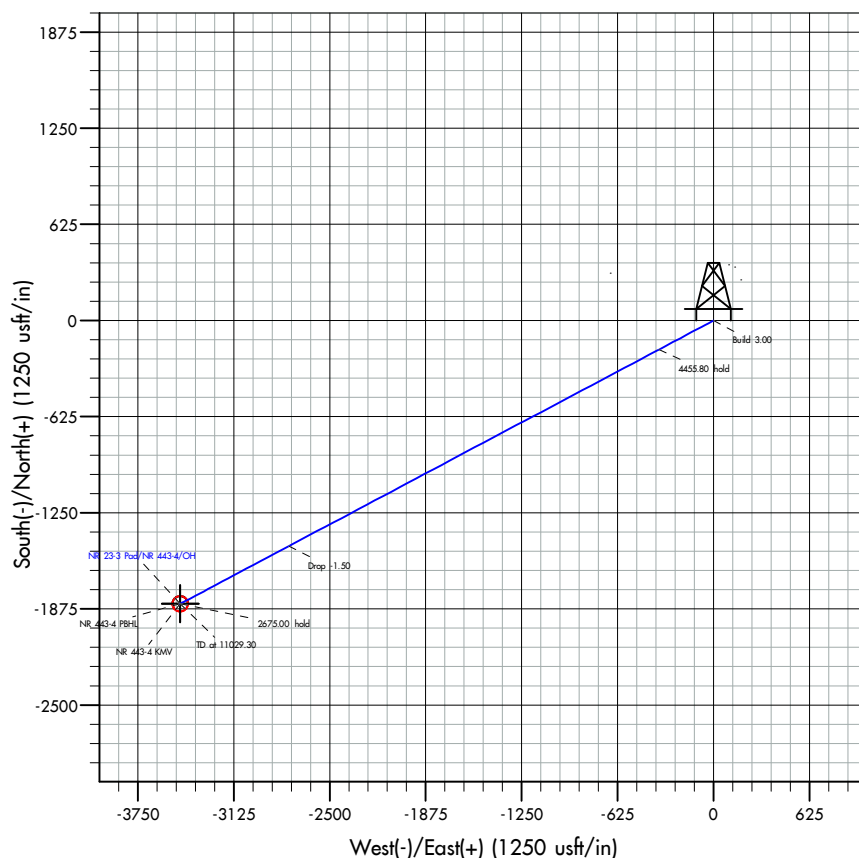
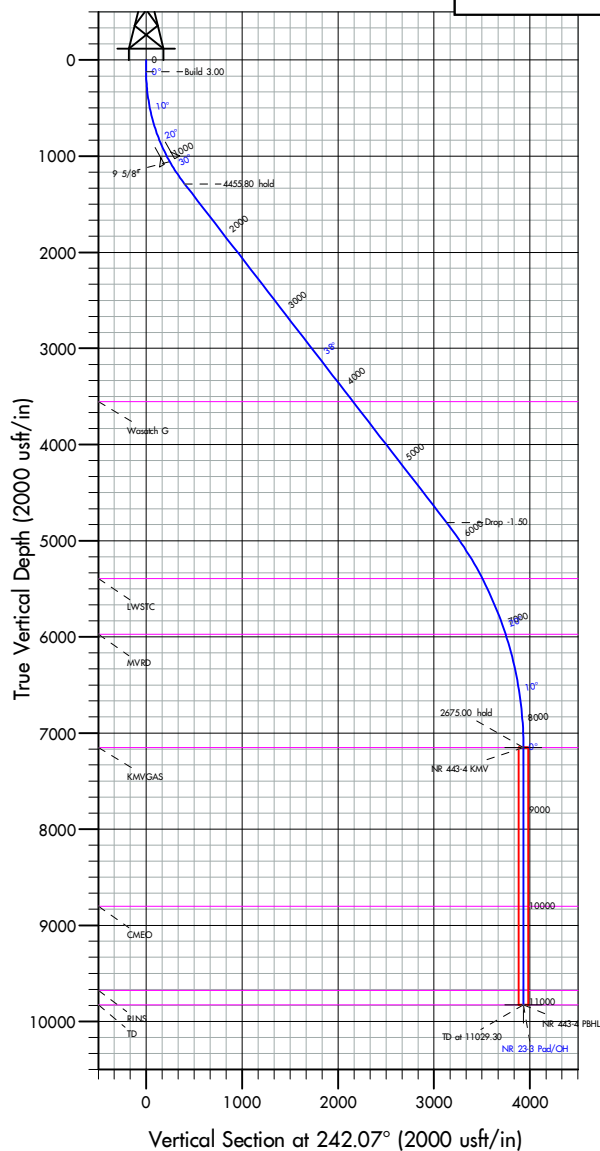
## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3552.00	4241.43	Wasatch G
5392.00	6525.19	LWSTC
5972.00	7154.67	MVRD
7152.00	8354.30	KMVGAS
8802.00	10004.30	CMEO
9677.00	10879.30	RLNS
9827.00	11029.30	TD



## SLOTS

Slot Name	+N/-S	+E/-W	Northing	Easting
NR 32-4	58.70	-35.25	1635560.10	2329237.10
NR 331-3	35.39	-16.03	1635536.30	2329255.70
NR 332-4	52.10	-42.88	1635553.70	2329229.30
NR 333-4	28.78	-23.96	1635529.90	2329247.60
NR 33-4	34.66	-28.82	1635535.90	2329242.90
NR 343-4	5.88	-4.76	1635506.50	2329266.20
NR 344-36	52.82	-30.49	1635554.10	2329241.70
NR 42-3	12.08	2.78	1635512.50	2329273.90
NR 431-3	29.51	-11.28	1635530.30	2329260.30
NR 432-4	46.32	-38.03	1635547.80	2329234.00
NR 433-4	23.30	-19.22	1635524.30	2329252.20
NR 43-4	11.65	-9.61	1635512.40	2329261.50
NR 441-3	23.73	-6.82	1635524.40	2329264.60
NR 442-3	6.20	7.64	1635506.50	2329278.60
NR 443-4	0.00	0.00	1635500.50	2329270.80
NR 444-36	47.04	-25.64	1635548.20	2329246.40
NR 532-4	40.43	-33.57	1635541.80	2329238.30
NR 533-4	17.53	-14.36	1635518.40	2329256.90
NR 541-3	17.85	-1.97	1635518.40	2329269.30
NR 542-3	0.72	12.39	1635500.90	2329283.20
NR 543-4	-5.78	4.75	1635494.60	2329275.40
NR 544-36	41.17	-20.89	1635542.20	2329251.00



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NR 443-4 - Slot NR 443-4
<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 443-4	<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 443-4 - Slot NR 443-4			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,635,500.50 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,329,270.80 usft
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b> 6,728.00 usft
<b>Grid Convergence:</b>	-1.50 °			

<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	242.07

<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	11,029.30 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	
1,379.50	37.78	242.07	1,290.17	-187.55	-353.84	3.00	3.00	0.00	242.07	
5,835.30	37.78	242.07	4,811.66	-1,466.09	-2,766.01	0.00	0.00	0.00	0.00	
8,354.30	0.00	0.00	7,152.00	-1,841.19	-3,473.68	1.50	-1.50	0.00	180.00	
11,029.30	0.00	0.00	9,827.00	-1,841.19	-3,473.68	0.00	0.00	0.00	0.00	NR 443-4 PBHL

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NR 443-4 - Slot NR 443-4
<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 443-4	<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	242.07	199.98	-0.78	-1.48	1.68	3.00	3.00	0.00
300.00	5.40	242.07	299.73	-3.97	-7.49	8.48	3.00	3.00	0.00
400.00	8.40	242.07	399.00	-9.60	-18.10	20.49	3.00	3.00	0.00
500.00	11.40	242.07	497.50	-17.65	-33.29	37.68	3.00	3.00	0.00
600.00	14.40	242.07	594.96	-28.10	-53.02	60.00	3.00	3.00	0.00
700.00	17.40	242.07	691.13	-40.93	-77.22	87.39	3.00	3.00	0.00
800.00	20.40	242.07	785.72	-56.10	-105.83	119.78	3.00	3.00	0.00
900.00	23.40	242.07	878.50	-73.56	-138.79	157.08	3.00	3.00	0.00
1,000.00	26.40	242.07	969.19	-93.28	-175.98	199.18	3.00	3.00	0.00
1,100.00	29.40	242.07	1,057.56	-115.19	-217.32	245.96	3.00	3.00	0.00
<b>9 5/8"</b>									
1,200.00	32.40	242.07	1,143.35	-139.24	-262.69	297.31	3.00	3.00	0.00
1,300.00	35.40	242.07	1,226.35	-165.35	-311.97	353.08	3.00	3.00	0.00
1,379.50	37.78	242.07	1,290.17	-187.55	-353.84	400.47	3.00	3.00	0.00
<b>4455.80 hold</b>									
1,400.00	37.78	242.07	1,306.37	-193.43	-364.93	413.03	0.00	0.00	0.00
1,500.00	37.78	242.07	1,385.40	-222.12	-419.07	474.30	0.00	0.00	0.00
1,600.00	37.78	242.07	1,464.44	-250.82	-473.21	535.57	0.00	0.00	0.00
1,700.00	37.78	242.07	1,543.47	-279.51	-527.34	596.84	0.00	0.00	0.00
1,800.00	37.78	242.07	1,622.50	-308.21	-581.48	658.11	0.00	0.00	0.00
1,900.00	37.78	242.07	1,701.53	-336.90	-635.61	719.38	0.00	0.00	0.00
2,000.00	37.78	242.07	1,780.56	-365.59	-689.75	780.65	0.00	0.00	0.00
2,100.00	37.78	242.07	1,859.59	-394.29	-743.88	841.92	0.00	0.00	0.00
2,200.00	37.78	242.07	1,938.63	-422.98	-798.02	903.19	0.00	0.00	0.00
2,300.00	37.78	242.07	2,017.66	-451.68	-852.15	964.46	0.00	0.00	0.00
2,400.00	37.78	242.07	2,096.69	-480.37	-906.29	1,025.73	0.00	0.00	0.00
2,500.00	37.78	242.07	2,175.72	-509.06	-960.43	1,087.00	0.00	0.00	0.00
2,600.00	37.78	242.07	2,254.75	-537.76	-1,014.56	1,148.27	0.00	0.00	0.00
2,700.00	37.78	242.07	2,333.78	-566.45	-1,068.70	1,209.54	0.00	0.00	0.00
2,800.00	37.78	242.07	2,412.82	-595.15	-1,122.83	1,270.81	0.00	0.00	0.00
2,900.00	37.78	242.07	2,491.85	-623.84	-1,176.97	1,332.08	0.00	0.00	0.00
3,000.00	37.78	242.07	2,570.88	-652.53	-1,231.10	1,393.35	0.00	0.00	0.00
3,100.00	37.78	242.07	2,649.91	-681.23	-1,285.24	1,454.62	0.00	0.00	0.00
3,200.00	37.78	242.07	2,728.94	-709.92	-1,339.38	1,515.89	0.00	0.00	0.00
3,300.00	37.78	242.07	2,807.97	-738.62	-1,393.51	1,577.16	0.00	0.00	0.00
3,400.00	37.78	242.07	2,887.00	-767.31	-1,447.65	1,638.43	0.00	0.00	0.00
3,500.00	37.78	242.07	2,966.04	-796.00	-1,501.78	1,699.70	0.00	0.00	0.00
3,600.00	37.78	242.07	3,045.07	-824.70	-1,555.92	1,760.97	0.00	0.00	0.00
3,700.00	37.78	242.07	3,124.10	-853.39	-1,610.05	1,822.24	0.00	0.00	0.00
3,800.00	37.78	242.07	3,203.13	-882.09	-1,664.19	1,883.51	0.00	0.00	0.00
3,900.00	37.78	242.07	3,282.16	-910.78	-1,718.32	1,944.78	0.00	0.00	0.00
4,000.00	37.78	242.07	3,361.19	-939.47	-1,772.46	2,006.05	0.00	0.00	0.00
4,100.00	37.78	242.07	3,440.23	-968.17	-1,826.60	2,067.32	0.00	0.00	0.00
4,200.00	37.78	242.07	3,519.26	-996.86	-1,880.73	2,128.59	0.00	0.00	0.00
4,241.43	37.78	242.07	3,552.00	-1,008.75	-1,903.16	2,153.97	0.00	0.00	0.00
<b>Wasatch G</b>									
4,300.00	37.78	242.07	3,598.29	-1,025.56	-1,934.87	2,189.86	0.00	0.00	0.00
4,400.00	37.78	242.07	3,677.32	-1,054.25	-1,989.00	2,251.13	0.00	0.00	0.00
4,500.00	37.78	242.07	3,756.35	-1,082.94	-2,043.14	2,312.40	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 443-4	<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	37.78	242.07	3,835.38	-1,111.64	-2,097.27	2,373.67	0.00	0.00	0.00
4,700.00	37.78	242.07	3,914.42	-1,140.33	-2,151.41	2,434.94	0.00	0.00	0.00
4,800.00	37.78	242.07	3,993.45	-1,169.03	-2,205.54	2,496.21	0.00	0.00	0.00
4,900.00	37.78	242.07	4,072.48	-1,197.72	-2,259.68	2,557.48	0.00	0.00	0.00
5,000.00	37.78	242.07	4,151.51	-1,226.41	-2,313.82	2,618.75	0.00	0.00	0.00
5,100.00	37.78	242.07	4,230.54	-1,255.11	-2,367.95	2,680.02	0.00	0.00	0.00
5,200.00	37.78	242.07	4,309.57	-1,283.80	-2,422.09	2,741.29	0.00	0.00	0.00
5,300.00	37.78	242.07	4,388.61	-1,312.49	-2,476.22	2,802.56	0.00	0.00	0.00
5,400.00	37.78	242.07	4,467.64	-1,341.19	-2,530.36	2,863.83	0.00	0.00	0.00
5,500.00	37.78	242.07	4,546.67	-1,369.88	-2,584.49	2,925.10	0.00	0.00	0.00
5,600.00	37.78	242.07	4,625.70	-1,398.58	-2,638.63	2,986.37	0.00	0.00	0.00
5,700.00	37.78	242.07	4,704.73	-1,427.27	-2,692.76	3,047.64	0.00	0.00	0.00
5,800.00	37.78	242.07	4,783.76	-1,455.96	-2,746.90	3,108.91	0.00	0.00	0.00
5,835.30	37.78	242.07	4,811.66	-1,466.09	-2,766.01	3,130.53	0.00	0.00	0.00
<b>Drop -1.50</b>									
5,900.00	36.81	242.07	4,863.13	-1,484.46	-2,800.65	3,169.74	1.50	-1.50	0.00
6,000.00	35.31	242.07	4,943.96	-1,512.02	-2,852.66	3,228.61	1.50	-1.50	0.00
6,100.00	33.81	242.07	5,026.31	-1,538.59	-2,902.79	3,285.34	1.50	-1.50	0.00
6,200.00	32.31	242.07	5,110.11	-1,564.14	-2,950.99	3,339.90	1.50	-1.50	0.00
6,300.00	30.81	242.07	5,195.31	-1,588.66	-2,997.24	3,392.24	1.50	-1.50	0.00
6,400.00	29.31	242.07	5,281.86	-1,612.12	-3,041.51	3,442.34	1.50	-1.50	0.00
6,500.00	27.81	242.07	5,369.68	-1,634.51	-3,083.75	3,490.15	1.50	-1.50	0.00
6,525.19	27.44	242.07	5,392.00	-1,639.98	-3,094.07	3,501.83	1.50	-1.50	0.00
<b>LWSTC</b>									
6,600.00	26.31	242.07	5,458.73	-1,655.82	-3,123.95	3,535.65	1.50	-1.50	0.00
6,700.00	24.81	242.07	5,548.94	-1,676.03	-3,162.08	3,578.80	1.50	-1.50	0.00
6,800.00	23.31	242.07	5,640.24	-1,695.12	-3,198.11	3,619.57	1.50	-1.50	0.00
6,900.00	21.81	242.07	5,732.59	-1,713.09	-3,232.01	3,657.95	1.50	-1.50	0.00
7,000.00	20.31	242.07	5,825.90	-1,729.92	-3,263.76	3,693.89	1.50	-1.50	0.00
7,100.00	18.81	242.07	5,920.13	-1,745.61	-3,293.35	3,727.37	1.50	-1.50	0.00
7,154.67	17.99	242.07	5,972.00	-1,753.69	-3,308.60	3,744.63	1.50	-1.50	0.00
<b>MVRD</b>									
7,200.00	17.31	242.07	6,015.19	-1,760.13	-3,320.75	3,758.38	1.50	-1.50	0.00
7,300.00	15.81	242.07	6,111.04	-1,773.48	-3,345.94	3,786.89	1.50	-1.50	0.00
7,400.00	14.31	242.07	6,207.60	-1,785.65	-3,368.90	3,812.88	1.50	-1.50	0.00
7,500.00	12.81	242.07	6,304.81	-1,796.63	-3,389.62	3,836.33	1.50	-1.50	0.00
7,600.00	11.31	242.07	6,402.60	-1,806.42	-3,408.09	3,857.23	1.50	-1.50	0.00
7,700.00	9.81	242.07	6,500.90	-1,815.01	-3,424.29	3,875.57	1.50	-1.50	0.00
7,800.00	8.31	242.07	6,599.65	-1,822.39	-3,438.21	3,891.32	1.50	-1.50	0.00
7,900.00	6.81	242.07	6,698.78	-1,828.55	-3,449.84	3,904.48	1.50	-1.50	0.00
8,000.00	5.31	242.07	6,798.21	-1,833.50	-3,459.17	3,915.05	1.50	-1.50	0.00
8,100.00	3.81	242.07	6,897.89	-1,837.22	-3,466.20	3,923.00	1.50	-1.50	0.00
8,200.00	2.31	242.07	6,997.75	-1,839.73	-3,470.93	3,928.35	1.50	-1.50	0.00
8,300.00	0.81	242.07	7,097.71	-1,841.01	-3,473.34	3,931.08	1.50	-1.50	0.00
8,354.30	0.00	0.00	7,152.00	-1,841.19	-3,473.68	3,931.47	1.50	-1.50	0.00
<b>2675.00 hold - KMGVAGS</b>									
8,400.00	0.00	0.00	7,197.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00
8,500.00	0.00	0.00	7,297.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00
8,600.00	0.00	0.00	7,397.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00
8,700.00	0.00	0.00	7,497.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00
8,800.00	0.00	0.00	7,597.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00
8,900.00	0.00	0.00	7,697.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00
9,000.00	0.00	0.00	7,797.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NR 443-4 - Slot NR 443-4
<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 443-4	<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	7,897.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
9,200.00	0.00	0.00	7,997.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
9,300.00	0.00	0.00	8,097.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
9,400.00	0.00	0.00	8,197.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
9,500.00	0.00	0.00	8,297.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
9,600.00	0.00	0.00	8,397.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
9,700.00	0.00	0.00	8,497.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
9,800.00	0.00	0.00	8,597.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
9,900.00	0.00	0.00	8,697.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,000.00	0.00	0.00	8,797.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,004.30	0.00	0.00	8,802.00	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
<b>CMEO</b>										
10,100.00	0.00	0.00	8,897.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,200.00	0.00	0.00	8,997.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,300.00	0.00	0.00	9,097.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,400.00	0.00	0.00	9,197.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,500.00	0.00	0.00	9,297.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,600.00	0.00	0.00	9,397.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,700.00	0.00	0.00	9,497.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,800.00	0.00	0.00	9,597.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
10,879.30	0.00	0.00	9,677.00	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
<b>RLNS</b>										
10,900.00	0.00	0.00	9,697.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
11,000.00	0.00	0.00	9,797.71	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
11,029.30	0.00	0.00	9,827.00	-1,841.19	-3,473.68	3,931.47	0.00	0.00	0.00	
<b>TD at 11029.30 - 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									
NR 443-4 KMV	0.00	0.00	7,152.00	-1,841.19	-3,473.68	1,633,750.90	2,325,750.10	39.549068	-107.891338
- plan hits target center									
- Circle (radius 50.00)									
NR 443-4 PBHL	0.00	0.00	9,827.00	-1,841.19	-3,473.68	1,633,750.90	2,325,750.10	39.549068	-107.891338
- plan hits target center									
- Point									

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 443-4 - Slot NR 443-4
<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 443-4	<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 (°)	
4,241.43	3,552.00	Wasatch G		0.00		
6,525.19	5,392.00	LWSTC		0.00		
7,154.67	5,972.00	MVRD		0.00		
8,354.30	7,152.00	KMVGAS		0.00		
10,004.30	8,802.00	CMEO		0.00		
10,879.30	9,677.00	RLNS		0.00		
11,029.30	9,827.00	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	
1,379.50	1,290.17	-187.55	-353.84	4455.80 hold	
5,835.30	4,811.66	-1,466.09	-2,766.01	Drop -1.50	
8,354.30	7,152.00	-1,841.19	-3,473.68	2675.00 hold	
11,029.30	9,827.00	-1,841.19	-3,473.68	TD at 11029.30	