



TEP Rocky Mountain LLC

Garfield Co., CO (NAD83)

NR 23-3 Pad

NR 432-4 - Slot NR 432-4

OH

Plan: Plan #2

Standard Planning Report

15 September, 2020





Project: Garfield Co., CO (NAD83)
 Site: NR 23-3 Pad
 Well: NR 432-4
 Wellbore: OH
 Design: Plan #2
 Lat: 39.554250
 Long: -107.879154
 GL: 6728.00
 KB: KB=24' @ 6752.00usft (H&P 318)



WELL DETAILS: NR 432-4

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1635547.80	2329234.00	39.554250	-107.879154	NR 432-4

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
NR 432-4 KMW	7312.00	1192.01	-3719.69	1636836.80	2325546.80	Circle (Radius: 50.00)
NR 432-4 PBHL	9977.00	1192.01	-3719.69	1636836.80	2325546.80	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
1330.87	36.33	287.77	1251.37	113.27	-353.46	3.00	287.77	371.17	4714.04 hold
6044.92	36.33	287.77	5049.27	965.47	-3012.77	0.00	0.00	3163.68	Drop -1.50
8466.66	0.00	0.00	7312.00	1192.01	-3719.69	1.50	180.00	3906.02	2665.00 hold
11131.66	0.00	0.00	9977.00	1192.01	-3719.69	0.00	0.00	3906.02	TD at 11131.66

CASING DETAILS

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

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3552.00	4186.47	Wasatch G
5552.00	6637.56	LWSTC
6132.00	7267.04	MVRD
7312.00	8466.66	KMVGAS
8962.00	10116.66	CMEC
9827.00	10981.66	RLNS
9977.00	11131.66	TD

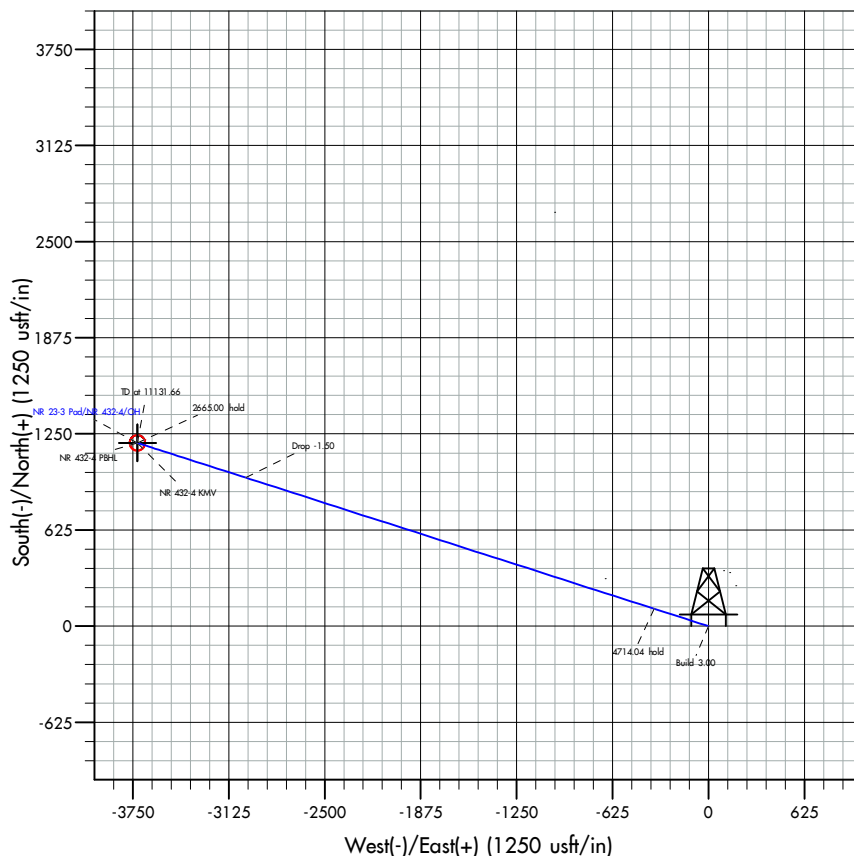
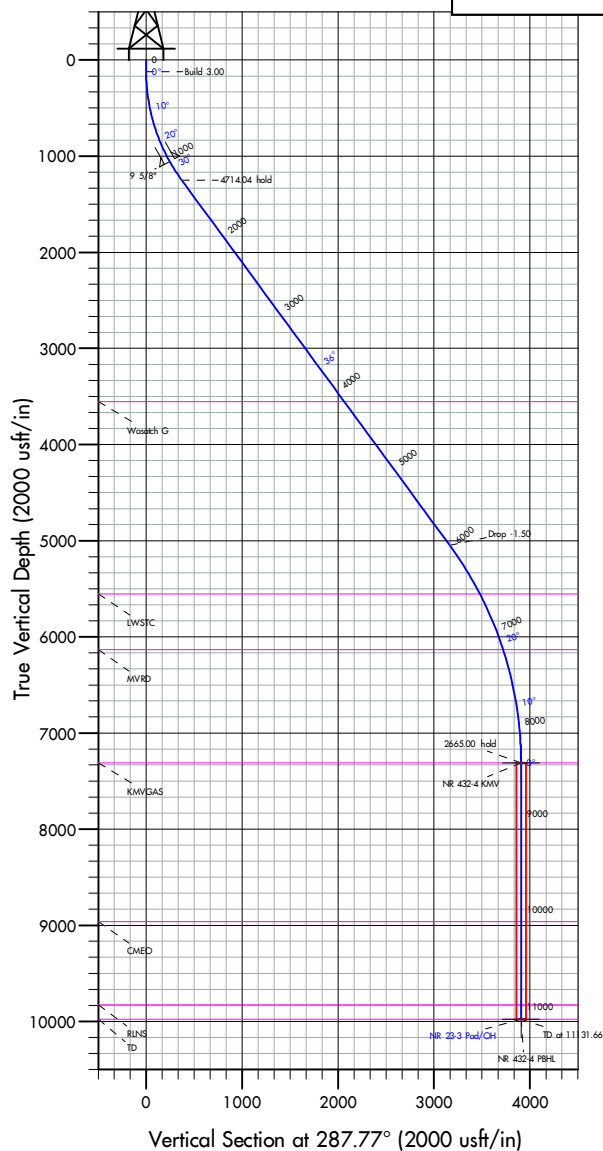


Azimuths to True North
 Magnetic North: 9.23°

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

SLOTS

Slot Name	+N/-S	+E/-W	Northing	Easting
NR 32-4	12.38	2.78	1635560.10	2329237.10
NR 331-3	-10.93	21.99	1635536.30	2329255.70
NR 332-4	5.77	-4.85	1635553.70	2329229.30
NR 333-4	-17.54	14.06	1635529.90	2329247.60
NR 33-4	-11.66	9.21	1635535.90	2329242.90
NR 343-4	-40.44	33.27	1635506.50	2329266.20
NR 344-36	6.50	7.53	1635554.10	2329241.70
NR 42-3	-34.24	40.81	1635512.50	2329273.90
NR 431-3	-16.81	26.75	1635530.30	2329260.30
NR 432-4	0.00	0.00	1635547.80	2329234.00
NR 433-4	-23.02	18.81	1635524.30	2329252.20
NR 43-4	-34.67	28.42	1635512.40	2329261.50
NR 441-3	-22.59	31.20	1635524.40	2329264.60
NR 442-3	-40.12	45.67	1635506.50	2329278.60
NR 443-4	-46.32	38.03	1635500.50	2329270.80
NR 444-36	0.72	12.39	1635548.20	2329246.40
NR 532-4	-5.89	4.46	1635541.80	2329238.30
NR 533-4	-28.79	23.66	1635518.40	2329256.90
NR 541-3	-28.47	36.06	1635518.40	2329269.30
NR 542-3	-45.60	50.41	1635500.90	2329283.20
NR 543-4	-52.10	42.78	1635494.60	2329275.40
NR 544-36	-5.15	17.14	1635542.20	2329251.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NR 432-4 - Slot NR 432-4
Company:	TEP Rocky Mountain LLC	TVD Reference:	KB=24' @ 6752.00usft (H&P 318)
Project:	Garfield Co., CO (NAD83)	MD Reference:	KB=24' @ 6752.00usft (H&P 318)
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 432-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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

Well		NR 432-4 - Slot NR 432-4				
Well Position	+N/-S	0.00 usft	Northing:	1,635,547.80 usft	Latitude:	39.554250
	+E/-W	0.00 usft	Easting:	2,329,234.00 usft	Longitude:	-107.879154
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,728.00 usft
Grid Convergence:	-1.50 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	8/23/2020	9.23	65.73	51,337.50000000

Design	Plan #2			
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	287.77

Plan Survey Tool Program	Date	9/15/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	11,131.66 Plan #2 (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	
1,330.87	36.33	287.77	1,251.37	113.27	-353.46	3.00	3.00	0.00	287.77	
6,044.92	36.33	287.77	5,049.27	965.47	-3,012.77	0.00	0.00	0.00	0.00	
8,466.66	0.00	0.00	7,312.00	1,192.01	-3,719.69	1.50	-1.50	0.00	180.00	
11,131.66	0.00	0.00	9,977.00	1,192.01	-3,719.69	0.00	0.00	0.00	0.00	NR 432-4 PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NR 432-4 - Slot NR 432-4
Company:	TEP Rocky Mountain LLC	TVD Reference:	KB=24' @ 6752.00usft (H&P 318)
Project:	Garfield Co., CO (NAD83)	MD Reference:	KB=24' @ 6752.00usft (H&P 318)
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 432-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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
Build 3.00									
200.00	2.40	287.77	199.98	0.51	-1.60	1.68	3.00	3.00	0.00
300.00	5.40	287.77	299.73	2.59	-8.07	8.48	3.00	3.00	0.00
400.00	8.40	287.77	399.00	6.25	-19.51	20.49	3.00	3.00	0.00
500.00	11.40	287.77	497.50	11.50	-35.88	37.68	3.00	3.00	0.00
600.00	14.40	287.77	594.96	18.31	-57.14	60.00	3.00	3.00	0.00
700.00	17.40	287.77	691.13	26.67	-83.23	87.39	3.00	3.00	0.00
800.00	20.40	287.77	785.72	36.55	-114.07	119.78	3.00	3.00	0.00
900.00	23.40	287.77	878.50	47.94	-149.58	157.08	3.00	3.00	0.00
1,000.00	26.40	287.77	969.19	60.78	-189.67	199.18	3.00	3.00	0.00
1,100.00	29.40	287.77	1,057.56	75.06	-234.23	245.96	3.00	3.00	0.00
9 5/8"									
1,200.00	32.40	287.77	1,143.35	90.73	-283.13	297.31	3.00	3.00	0.00
1,300.00	35.40	287.77	1,226.35	107.75	-336.24	353.08	3.00	3.00	0.00
1,330.87	36.33	287.77	1,251.37	113.27	-353.46	371.17	3.00	3.00	0.00
4714.04 hold									
1,400.00	36.33	287.77	1,307.06	125.77	-392.46	412.12	0.00	0.00	0.00
1,500.00	36.33	287.77	1,387.62	143.84	-448.87	471.35	0.00	0.00	0.00
1,600.00	36.33	287.77	1,468.19	161.92	-505.28	530.59	0.00	0.00	0.00
1,700.00	36.33	287.77	1,548.76	180.00	-561.69	589.83	0.00	0.00	0.00
1,800.00	36.33	287.77	1,629.32	198.08	-618.11	649.07	0.00	0.00	0.00
1,900.00	36.33	287.77	1,709.89	216.16	-674.52	708.31	0.00	0.00	0.00
2,000.00	36.33	287.77	1,790.45	234.23	-730.93	767.55	0.00	0.00	0.00
2,100.00	36.33	287.77	1,871.02	252.31	-787.34	826.78	0.00	0.00	0.00
2,200.00	36.33	287.77	1,951.58	270.39	-843.76	886.02	0.00	0.00	0.00
2,300.00	36.33	287.77	2,032.15	288.47	-900.17	945.26	0.00	0.00	0.00
2,400.00	36.33	287.77	2,112.72	306.54	-956.58	1,004.50	0.00	0.00	0.00
2,500.00	36.33	287.77	2,193.28	324.62	-1,012.99	1,063.74	0.00	0.00	0.00
2,600.00	36.33	287.77	2,273.85	342.70	-1,069.41	1,122.97	0.00	0.00	0.00
2,700.00	36.33	287.77	2,354.41	360.78	-1,125.82	1,182.21	0.00	0.00	0.00
2,800.00	36.33	287.77	2,434.98	378.86	-1,182.23	1,241.45	0.00	0.00	0.00
2,900.00	36.33	287.77	2,515.54	396.93	-1,238.64	1,300.69	0.00	0.00	0.00
3,000.00	36.33	287.77	2,596.11	415.01	-1,295.06	1,359.93	0.00	0.00	0.00
3,100.00	36.33	287.77	2,676.68	433.09	-1,351.47	1,419.17	0.00	0.00	0.00
3,200.00	36.33	287.77	2,757.24	451.17	-1,407.88	1,478.40	0.00	0.00	0.00
3,300.00	36.33	287.77	2,837.81	469.24	-1,464.29	1,537.64	0.00	0.00	0.00
3,400.00	36.33	287.77	2,918.37	487.32	-1,520.71	1,596.88	0.00	0.00	0.00
3,500.00	36.33	287.77	2,998.94	505.40	-1,577.12	1,656.12	0.00	0.00	0.00
3,600.00	36.33	287.77	3,079.50	523.48	-1,633.53	1,715.36	0.00	0.00	0.00
3,700.00	36.33	287.77	3,160.07	541.56	-1,689.94	1,774.60	0.00	0.00	0.00
3,800.00	36.33	287.77	3,240.64	559.63	-1,746.35	1,833.83	0.00	0.00	0.00
3,900.00	36.33	287.77	3,321.20	577.71	-1,802.77	1,893.07	0.00	0.00	0.00
4,000.00	36.33	287.77	3,401.77	595.79	-1,859.18	1,952.31	0.00	0.00	0.00
4,100.00	36.33	287.77	3,482.33	613.87	-1,915.59	2,011.55	0.00	0.00	0.00
4,186.47	36.33	287.77	3,552.00	629.50	-1,964.37	2,062.77	0.00	0.00	0.00
Wasatch G									
4,200.00	36.33	287.77	3,562.90	631.95	-1,972.00	2,070.79	0.00	0.00	0.00
4,300.00	36.33	287.77	3,643.46	650.02	-2,028.42	2,130.02	0.00	0.00	0.00
4,400.00	36.33	287.77	3,724.03	668.10	-2,084.83	2,189.26	0.00	0.00	0.00
4,500.00	36.33	287.77	3,804.60	686.18	-2,141.24	2,248.50	0.00	0.00	0.00

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Project:	Garfield Co., CO (NAD83)	MD Reference:	KB=24' @ 6752.00usft (H&P 318)
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 432-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	36.33	287.77	3,885.16	704.26	-2,197.65	2,307.74	0.00	0.00	0.00
4,700.00	36.33	287.77	3,965.73	722.33	-2,254.07	2,366.98	0.00	0.00	0.00
4,800.00	36.33	287.77	4,046.29	740.41	-2,310.48	2,426.22	0.00	0.00	0.00
4,900.00	36.33	287.77	4,126.86	758.49	-2,366.89	2,485.45	0.00	0.00	0.00
5,000.00	36.33	287.77	4,207.42	776.57	-2,423.30	2,544.69	0.00	0.00	0.00
5,100.00	36.33	287.77	4,287.99	794.65	-2,479.72	2,603.93	0.00	0.00	0.00
5,200.00	36.33	287.77	4,368.56	812.72	-2,536.13	2,663.17	0.00	0.00	0.00
5,300.00	36.33	287.77	4,449.12	830.80	-2,592.54	2,722.41	0.00	0.00	0.00
5,400.00	36.33	287.77	4,529.69	848.88	-2,648.95	2,781.65	0.00	0.00	0.00
5,500.00	36.33	287.77	4,610.25	866.96	-2,705.37	2,840.88	0.00	0.00	0.00
5,600.00	36.33	287.77	4,690.82	885.04	-2,761.78	2,900.12	0.00	0.00	0.00
5,700.00	36.33	287.77	4,771.38	903.11	-2,818.19	2,959.36	0.00	0.00	0.00
5,800.00	36.33	287.77	4,851.95	921.19	-2,874.60	3,018.60	0.00	0.00	0.00
5,900.00	36.33	287.77	4,932.51	939.27	-2,931.02	3,077.84	0.00	0.00	0.00
6,000.00	36.33	287.77	5,013.08	957.35	-2,987.43	3,137.07	0.00	0.00	0.00
6,044.92	36.33	287.77	5,049.27	965.47	-3,012.77	3,163.68	0.00	0.00	0.00
Drop -1.50									
6,100.00	35.50	287.77	5,093.88	975.33	-3,043.53	3,195.99	1.50	-1.50	0.00
6,200.00	34.00	287.77	5,176.04	992.72	-3,097.81	3,252.99	1.50	-1.50	0.00
6,300.00	32.50	287.77	5,259.67	1,009.45	-3,150.03	3,307.82	1.50	-1.50	0.00
6,400.00	31.00	287.77	5,344.70	1,025.51	-3,200.14	3,360.44	1.50	-1.50	0.00
6,500.00	29.50	287.77	5,431.08	1,040.88	-3,248.11	3,410.81	1.50	-1.50	0.00
6,600.00	28.00	287.77	5,518.75	1,055.56	-3,293.91	3,458.91	1.50	-1.50	0.00
6,637.56	27.44	287.77	5,552.00	1,060.89	-3,310.55	3,476.38	1.50	-1.50	0.00
LWSTC									
6,700.00	26.50	287.77	5,607.65	1,069.53	-3,337.51	3,504.70	1.50	-1.50	0.00
6,800.00	25.00	287.77	5,697.72	1,082.79	-3,378.88	3,548.14	1.50	-1.50	0.00
6,900.00	23.50	287.77	5,788.89	1,095.33	-3,418.00	3,589.21	1.50	-1.50	0.00
7,000.00	22.00	287.77	5,881.11	1,107.13	-3,454.82	3,627.88	1.50	-1.50	0.00
7,100.00	20.50	287.77	5,974.31	1,118.19	-3,489.33	3,664.12	1.50	-1.50	0.00
7,200.00	19.00	287.77	6,068.42	1,128.50	-3,521.51	3,697.91	1.50	-1.50	0.00
7,267.04	17.99	287.77	6,132.00	1,134.99	-3,541.77	3,719.18	1.50	-1.50	0.00
MVRD									
7,300.00	17.50	287.77	6,163.39	1,138.06	-3,551.33	3,729.23	1.50	-1.50	0.00
7,400.00	16.00	287.77	6,259.15	1,146.85	-3,578.78	3,758.05	1.50	-1.50	0.00
7,500.00	14.50	287.77	6,355.62	1,154.88	-3,603.83	3,784.35	1.50	-1.50	0.00
7,600.00	13.00	287.77	6,452.75	1,162.13	-3,626.46	3,808.12	1.50	-1.50	0.00
7,700.00	11.50	287.77	6,550.47	1,168.60	-3,646.67	3,829.34	1.50	-1.50	0.00
7,800.00	10.00	287.77	6,648.72	1,174.30	-3,664.43	3,847.99	1.50	-1.50	0.00
7,900.00	8.50	287.77	6,747.41	1,179.20	-3,679.73	3,864.06	1.50	-1.50	0.00
8,000.00	7.00	287.77	6,846.50	1,183.32	-3,692.58	3,877.55	1.50	-1.50	0.00
8,100.00	5.50	287.77	6,945.90	1,186.64	-3,702.94	3,888.43	1.50	-1.50	0.00
8,200.00	4.00	287.77	7,045.55	1,189.17	-3,710.83	3,896.71	1.50	-1.50	0.00
8,300.00	2.50	287.77	7,145.39	1,190.90	-3,716.23	3,902.38	1.50	-1.50	0.00
8,400.00	1.00	287.77	7,245.34	1,191.83	-3,719.14	3,905.43	1.50	-1.50	0.00
8,466.66	0.00	0.00	7,312.00	1,192.01	-3,719.69	3,906.02	1.50	-1.50	0.00
2665.00 hold - KMGAS									
8,500.00	0.00	0.00	7,345.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
8,600.00	0.00	0.00	7,445.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
8,700.00	0.00	0.00	7,545.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
8,800.00	0.00	0.00	7,645.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
8,900.00	0.00	0.00	7,745.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
9,000.00	0.00	0.00	7,845.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NR 432-4 - Slot NR 432-4
Company:	TEP Rocky Mountain LLC	TVD Reference:	KB=24' @ 6752.00usft (H&P 318)
Project:	Garfield Co., CO (NAD83)	MD Reference:	KB=24' @ 6752.00usft (H&P 318)
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 432-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	7,945.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
9,200.00	0.00	0.00	8,045.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
9,300.00	0.00	0.00	8,145.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
9,400.00	0.00	0.00	8,245.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
9,500.00	0.00	0.00	8,345.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
9,600.00	0.00	0.00	8,445.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
9,700.00	0.00	0.00	8,545.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
9,800.00	0.00	0.00	8,645.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
9,900.00	0.00	0.00	8,745.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,000.00	0.00	0.00	8,845.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,100.00	0.00	0.00	8,945.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,116.66	0.00	0.00	8,962.00	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
CMEO									
10,200.00	0.00	0.00	9,045.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,300.00	0.00	0.00	9,145.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,400.00	0.00	0.00	9,245.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,500.00	0.00	0.00	9,345.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,600.00	0.00	0.00	9,445.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,700.00	0.00	0.00	9,545.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,800.00	0.00	0.00	9,645.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,900.00	0.00	0.00	9,745.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
10,981.66	0.00	0.00	9,827.00	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
RLNS									
11,000.00	0.00	0.00	9,845.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
11,100.00	0.00	0.00	9,945.34	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
11,131.66	0.00	0.00	9,977.00	1,192.01	-3,719.69	3,906.02	0.00	0.00	0.00
TD at 11131.66 - 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 432-4 KMV - plan hits target center - Circle (radius 50.00)	0.00	0.00	7,312.00	1,192.01	-3,719.69	1,636,836.80	2,325,546.80	39.557522	-107.892347
NR 432-4 PBHL - plan hits target center - Point	0.00	0.00	9,977.00	1,192.01	-3,719.69	1,636,836.80	2,325,546.80	39.557522	-107.892347

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	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NR 432-4 - Slot NR 432-4
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Project:	Garfield Co., CO (NAD83)	MD Reference:	KB=24' @ 6752.00usft (H&P 318)
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 432-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,186.47	3,552.00	Wasatch G		0.00		
6,637.56	5,552.00	LWSTC		0.00		
7,267.04	6,132.00	MVRD		0.00		
8,466.66	7,312.00	KMVGAS		0.00		
10,116.66	8,962.00	CME0		0.00		
10,981.66	9,827.00	RLNS		0.00		
11,131.66	9,977.00	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	
1,330.87	1,251.37	113.27	-353.46	4714.04 hold	
6,044.92	5,049.27	965.47	-3,012.77	Drop -1.50	
8,466.66	7,312.00	1,192.01	-3,719.69	2665.00 hold	
11,131.66	9,977.00	1,192.01	-3,719.69	TD at 11131.66	