



TEP Rocky Mountain LLC

Garfield Co., CO (NAD83)

NR 23-3 Pad

NR 441-3 - Slot NR 441-3

OH

Plan: Plan #2

Standard Planning Report

15 September, 2020





Project: Garfield Co., CO (NAD83)
 Site: NR 23-3 Pad
 Well: NR 441-3
 Wellbore: OH
 Design: Plan #2
 Lat: 39.554188
 Long: -107.879043
 GL: 6728.00
 KB: KB=24' @ 6752.00usft (H&P 318)



WELL DETAILS: NR 441-3

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	NR 441-3
0.00	0.00	1635524.40	2329264.60	39.554188	-107.879043	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
NR 441-3 KMW	7502.00	2141.59	3320.86	1637578.30	2332640.40	Circle (Radius: 50.00)
NR 441-3 PBHL	10082.00	2141.59	3320.86	1637578.30	2332640.40	Point

SECTION DETAILS

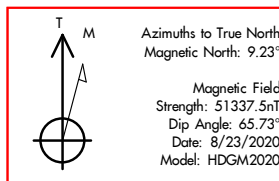
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	Build 3.00
1301.53	35.45	57.18	1227.59	191.84	297.47	3.00	57.18	353.96	4982.70 hold
6284.23	35.45	57.18	5286.82	1757.92	2725.92	0.00	0.00	3243.59	Drop -1.50
8647.28	0.00	0.00	7502.00	2141.59	3320.86	1.50	180.00	3951.52	2580.00 hold
11227.28	0.00	0.00	10082.00	2141.59	3320.86	0.00	0.00	3951.52	TD at 11227.28

CASING DETAILS

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

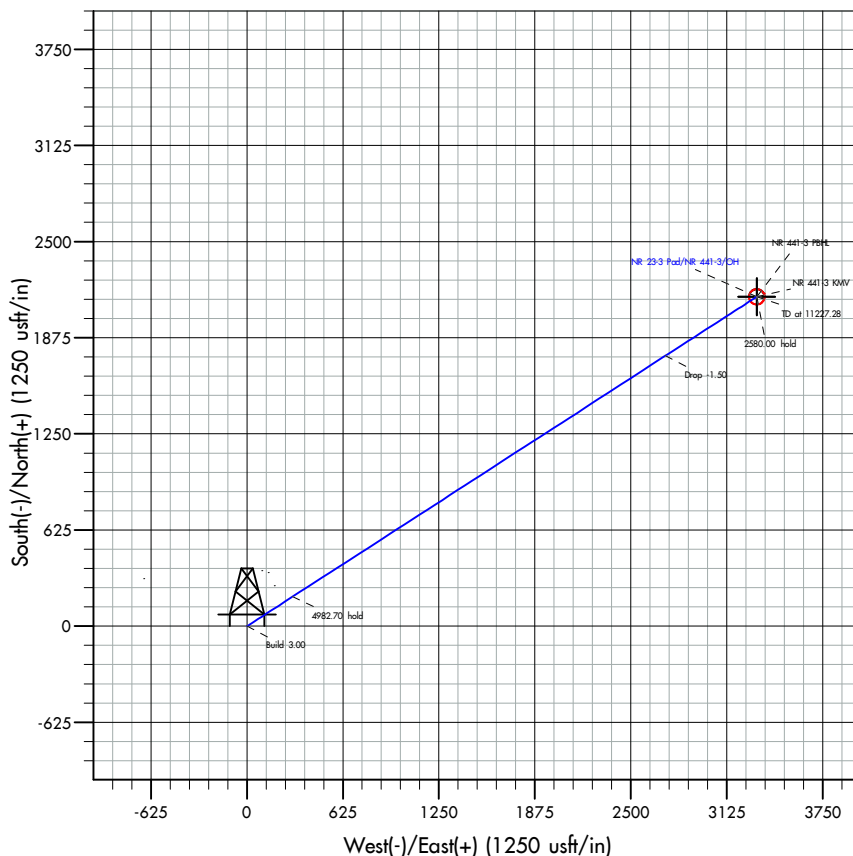
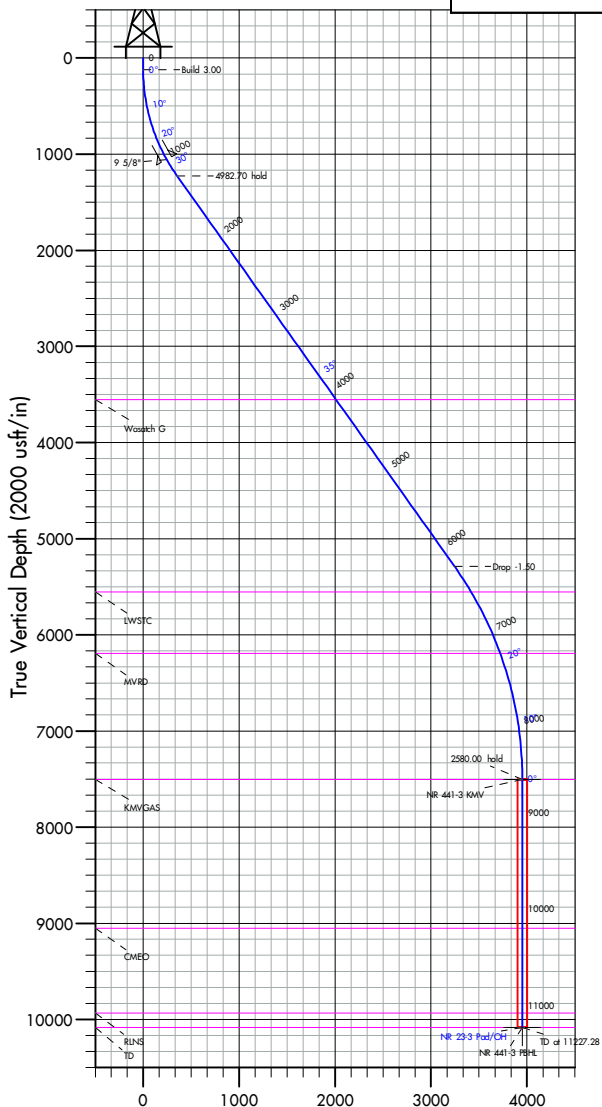
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3552.00	4154.74	Wasatch G
5552.00	6600.77	LWSTC
6192.00	7310.14	MVRD
7502.00	8647.28	KMVGAS
9052.00	10197.28	CME0
9932.00	11077.28	RLNS
10082.00	11227.28	TD



SLOTS

Slot Name	+N/-S	+E/-W	Northing	Easting
NR 32-4	34.97	-28.43	1635560.10	2329237.10
NR 331-3	11.66	-9.21	1635536.30	2329255.70
NR 332-4	28.37	-36.06	1635553.70	2329229.30
NR 333-4	5.05	-17.14	1635529.90	2329247.60
NR 33-4	10.93	-21.99	1635535.90	2329242.90
NR 343-4	-17.85	2.07	1635506.50	2329266.20
NR 344-36	29.09	-23.67	1635554.10	2329241.70
NR 42-3	-11.65	9.61	1635512.50	2329273.90
NR 431-3	5.79	-4.45	1635530.30	2329260.30
NR 432-4	22.59	-31.20	1635547.80	2329234.00
NR 433-4	-0.42	-12.39	1635524.30	2329252.20
NR 43-4	-12.08	-2.78	1635512.40	2329261.50
NR 441-3	0.00	0.00	1635524.40	2329264.60
NR 442-3	-17.53	14.46	1635506.50	2329278.60
NR 443-4	-23.73	6.82	1635500.50	2329270.80
NR 444-36	23.32	-18.82	1635548.20	2329246.40
NR 532-4	16.71	-26.75	1635541.80	2329238.30
NR 533-4	-6.20	-7.54	1635518.40	2329256.90
NR 541-3	-5.87	4.86	1635518.40	2329269.30
NR 542-3	-23.00	19.21	1635500.90	2329283.20
NR 543-4	-29.51	11.58	1635494.60	2329275.40
NR 544-36	17.44	-14.06	1635542.20	2329251.00





Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NR 441-3 - Slot NR 441-3
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 441-3	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 441-3 - Slot NR 441-3					
Well Position	+N/-S	0.00 usft	Northing:	1,635,524.40 usft	Latitude:	39.554188
	+E/-W	0.00 usft	Easting:	2,329,264.60 usft	Longitude:	-107.879043
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	57.18

Plan Survey Tool Program	Date	9/15/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	11,227.28 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	
1,301.53	35.45	57.18	1,227.59	191.84	297.47	3.00	3.00	0.00	57.18	
6,284.23	35.45	57.18	5,286.82	1,757.92	2,725.92	0.00	0.00	0.00	0.00	
8,647.28	0.00	0.00	7,502.00	2,141.59	3,320.86	1.50	-1.50	0.00	180.00	
11,227.28	0.00	0.00	10,082.00	2,141.59	3,320.86	0.00	0.00	0.00	0.00	NR 441-3 PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NR 441-3 - Slot NR 441-3
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 441-3	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	57.18	199.98	0.91	1.41	1.68	3.00	3.00	0.00
300.00	5.40	57.18	299.73	4.59	7.12	8.48	3.00	3.00	0.00
400.00	8.40	57.18	399.00	11.10	17.22	20.49	3.00	3.00	0.00
500.00	11.40	57.18	497.50	20.42	31.67	37.68	3.00	3.00	0.00
600.00	14.40	57.18	594.96	32.52	50.43	60.00	3.00	3.00	0.00
700.00	17.40	57.18	691.13	47.36	73.45	87.39	3.00	3.00	0.00
800.00	20.40	57.18	785.72	64.92	100.67	119.78	3.00	3.00	0.00
900.00	23.40	57.18	878.50	85.13	132.01	157.08	3.00	3.00	0.00
1,000.00	26.40	57.18	969.19	107.95	167.39	199.18	3.00	3.00	0.00
1,100.00	29.40	57.18	1,057.56	133.30	206.71	245.96	3.00	3.00	0.00
9 5/8"									
1,200.00	32.40	57.18	1,143.35	161.13	249.86	297.31	3.00	3.00	0.00
1,301.53	35.45	57.18	1,227.59	191.84	297.47	353.96	3.00	3.00	0.00
4982.70 hold									
1,400.00	35.45	57.18	1,307.81	222.79	345.47	411.07	0.00	0.00	0.00
1,500.00	35.45	57.18	1,389.28	254.22	394.20	469.07	0.00	0.00	0.00
1,600.00	35.45	57.18	1,470.75	285.65	442.94	527.06	0.00	0.00	0.00
1,700.00	35.45	57.18	1,552.21	317.08	491.68	585.05	0.00	0.00	0.00
1,800.00	35.45	57.18	1,633.68	348.51	540.42	643.05	0.00	0.00	0.00
1,900.00	35.45	57.18	1,715.14	379.94	589.15	701.04	0.00	0.00	0.00
2,000.00	35.45	57.18	1,796.61	411.37	637.89	759.03	0.00	0.00	0.00
2,100.00	35.45	57.18	1,878.08	442.80	686.63	817.03	0.00	0.00	0.00
2,200.00	35.45	57.18	1,959.54	474.23	735.37	875.02	0.00	0.00	0.00
2,300.00	35.45	57.18	2,041.01	505.66	784.10	933.01	0.00	0.00	0.00
2,400.00	35.45	57.18	2,122.48	537.09	832.84	991.00	0.00	0.00	0.00
2,500.00	35.45	57.18	2,203.94	568.52	881.58	1,049.00	0.00	0.00	0.00
2,600.00	35.45	57.18	2,285.41	599.95	930.32	1,106.99	0.00	0.00	0.00
2,700.00	35.45	57.18	2,366.88	631.38	979.05	1,164.98	0.00	0.00	0.00
2,800.00	35.45	57.18	2,448.34	662.81	1,027.79	1,222.98	0.00	0.00	0.00
2,900.00	35.45	57.18	2,529.81	694.24	1,076.53	1,280.97	0.00	0.00	0.00
3,000.00	35.45	57.18	2,611.28	725.67	1,125.27	1,338.96	0.00	0.00	0.00
3,100.00	35.45	57.18	2,692.74	757.10	1,174.00	1,396.96	0.00	0.00	0.00
3,200.00	35.45	57.18	2,774.21	788.53	1,222.74	1,454.95	0.00	0.00	0.00
3,300.00	35.45	57.18	2,855.68	819.96	1,271.48	1,512.94	0.00	0.00	0.00
3,400.00	35.45	57.18	2,937.14	851.39	1,320.22	1,570.94	0.00	0.00	0.00
3,500.00	35.45	57.18	3,018.61	882.82	1,368.95	1,628.93	0.00	0.00	0.00
3,600.00	35.45	57.18	3,100.08	914.25	1,417.69	1,686.92	0.00	0.00	0.00
3,700.00	35.45	57.18	3,181.54	945.68	1,466.43	1,744.92	0.00	0.00	0.00
3,800.00	35.45	57.18	3,263.01	977.12	1,515.17	1,802.91	0.00	0.00	0.00
3,900.00	35.45	57.18	3,344.47	1,008.55	1,563.90	1,860.90	0.00	0.00	0.00
4,000.00	35.45	57.18	3,425.94	1,039.98	1,612.64	1,918.90	0.00	0.00	0.00
4,100.00	35.45	57.18	3,507.41	1,071.41	1,661.38	1,976.89	0.00	0.00	0.00
4,154.74	35.45	57.18	3,552.00	1,088.61	1,688.06	2,008.63	0.00	0.00	0.00
Wasatch G									
4,200.00	35.45	57.18	3,588.87	1,102.84	1,710.12	2,034.88	0.00	0.00	0.00
4,300.00	35.45	57.18	3,670.34	1,134.27	1,758.85	2,092.88	0.00	0.00	0.00
4,400.00	35.45	57.18	3,751.81	1,165.70	1,807.59	2,150.87	0.00	0.00	0.00
4,500.00	35.45	57.18	3,833.27	1,197.13	1,856.33	2,208.86	0.00	0.00	0.00
4,600.00	35.45	57.18	3,914.74	1,228.56	1,905.07	2,266.86	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 441-3	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)
4,700.00	35.45	57.18	3,996.21	1,259.99	1,953.80	2,324.85	0.00	0.00	0.00
4,800.00	35.45	57.18	4,077.67	1,291.42	2,002.54	2,382.84	0.00	0.00	0.00
4,900.00	35.45	57.18	4,159.14	1,322.85	2,051.28	2,440.84	0.00	0.00	0.00
5,000.00	35.45	57.18	4,240.61	1,354.28	2,100.02	2,498.83	0.00	0.00	0.00
5,100.00	35.45	57.18	4,322.07	1,385.71	2,148.75	2,556.82	0.00	0.00	0.00
5,200.00	35.45	57.18	4,403.54	1,417.14	2,197.49	2,614.81	0.00	0.00	0.00
5,300.00	35.45	57.18	4,485.01	1,448.57	2,246.23	2,672.81	0.00	0.00	0.00
5,400.00	35.45	57.18	4,566.47	1,480.00	2,294.97	2,730.80	0.00	0.00	0.00
5,500.00	35.45	57.18	4,647.94	1,511.43	2,343.70	2,788.79	0.00	0.00	0.00
5,600.00	35.45	57.18	4,729.40	1,542.86	2,392.44	2,846.79	0.00	0.00	0.00
5,700.00	35.45	57.18	4,810.87	1,574.29	2,441.18	2,904.78	0.00	0.00	0.00
5,800.00	35.45	57.18	4,892.34	1,605.72	2,489.92	2,962.77	0.00	0.00	0.00
5,900.00	35.45	57.18	4,973.80	1,637.15	2,538.65	3,020.77	0.00	0.00	0.00
6,000.00	35.45	57.18	5,055.27	1,668.58	2,587.39	3,078.76	0.00	0.00	0.00
6,100.00	35.45	57.18	5,136.74	1,700.01	2,636.13	3,136.75	0.00	0.00	0.00
6,200.00	35.45	57.18	5,218.20	1,731.44	2,684.87	3,194.75	0.00	0.00	0.00
6,284.23	35.45	57.18	5,286.82	1,757.92	2,725.92	3,243.59	0.00	0.00	0.00
Drop -1.50									
6,300.00	35.21	57.18	5,299.69	1,762.86	2,733.58	3,252.71	1.50	-1.50	0.00
6,400.00	33.71	57.18	5,382.14	1,793.52	2,781.13	3,309.29	1.50	-1.50	0.00
6,500.00	32.21	57.18	5,466.04	1,823.01	2,826.85	3,363.70	1.50	-1.50	0.00
6,600.00	30.71	57.18	5,551.34	1,851.29	2,870.71	3,415.88	1.50	-1.50	0.00
6,600.77	30.70	57.18	5,552.00	1,851.50	2,871.04	3,416.28	1.50	-1.50	0.00
LWSTC									
6,700.00	29.21	57.18	5,637.98	1,878.36	2,912.68	3,465.82	1.50	-1.50	0.00
6,800.00	27.71	57.18	5,725.89	1,904.18	2,952.72	3,513.47	1.50	-1.50	0.00
6,900.00	26.21	57.18	5,815.02	1,928.75	2,990.82	3,558.81	1.50	-1.50	0.00
7,000.00	24.71	57.18	5,905.31	1,952.05	3,026.95	3,601.79	1.50	-1.50	0.00
7,100.00	23.21	57.18	5,996.69	1,974.06	3,061.08	3,642.40	1.50	-1.50	0.00
7,200.00	21.71	57.18	6,089.10	1,994.76	3,093.18	3,680.60	1.50	-1.50	0.00
7,300.00	20.21	57.18	6,182.48	2,014.15	3,123.24	3,716.37	1.50	-1.50	0.00
7,310.14	20.06	57.18	6,192.00	2,016.04	3,126.17	3,719.86	1.50	-1.50	0.00
MVRD									
7,400.00	18.71	57.18	6,276.77	2,032.20	3,151.24	3,749.68	1.50	-1.50	0.00
7,500.00	17.21	57.18	6,371.89	2,048.91	3,177.15	3,780.52	1.50	-1.50	0.00
7,600.00	15.71	57.18	6,467.79	2,064.27	3,200.96	3,808.85	1.50	-1.50	0.00
7,700.00	14.21	57.18	6,564.40	2,078.26	3,222.65	3,834.66	1.50	-1.50	0.00
7,800.00	12.71	57.18	6,661.65	2,090.87	3,242.21	3,857.94	1.50	-1.50	0.00
7,900.00	11.21	57.18	6,759.48	2,102.10	3,259.63	3,878.66	1.50	-1.50	0.00
8,000.00	9.71	57.18	6,857.81	2,111.94	3,274.88	3,896.81	1.50	-1.50	0.00
8,100.00	8.21	57.18	6,956.59	2,120.38	3,287.97	3,912.38	1.50	-1.50	0.00
8,200.00	6.71	57.18	7,055.74	2,127.41	3,298.88	3,925.36	1.50	-1.50	0.00
8,300.00	5.21	57.18	7,155.20	2,133.04	3,307.60	3,935.75	1.50	-1.50	0.00
8,400.00	3.71	57.18	7,254.89	2,137.25	3,314.14	3,943.52	1.50	-1.50	0.00
8,500.00	2.21	57.18	7,354.76	2,140.05	3,318.48	3,948.68	1.50	-1.50	0.00
8,600.00	0.71	57.18	7,454.72	2,141.43	3,320.62	3,951.23	1.50	-1.50	0.00
8,647.28	0.00	0.00	7,502.00	2,141.59	3,320.86	3,951.52	1.50	-1.50	0.00
2580.00 hold - KMGAS									
8,700.00	0.00	0.00	7,554.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00
8,800.00	0.00	0.00	7,654.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00
8,900.00	0.00	0.00	7,754.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00
9,000.00	0.00	0.00	7,854.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00
9,100.00	0.00	0.00	7,954.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NR 441-3 - Slot NR 441-3
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 441-3	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)	
9,200.00	0.00	0.00	8,054.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
9,300.00	0.00	0.00	8,154.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
9,400.00	0.00	0.00	8,254.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
9,500.00	0.00	0.00	8,354.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
9,600.00	0.00	0.00	8,454.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
9,700.00	0.00	0.00	8,554.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
9,800.00	0.00	0.00	8,654.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
9,900.00	0.00	0.00	8,754.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,000.00	0.00	0.00	8,854.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,100.00	0.00	0.00	8,954.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,197.28	0.00	0.00	9,052.00	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
CMEO										
10,200.00	0.00	0.00	9,054.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,300.00	0.00	0.00	9,154.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,400.00	0.00	0.00	9,254.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,500.00	0.00	0.00	9,354.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,600.00	0.00	0.00	9,454.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,700.00	0.00	0.00	9,554.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,800.00	0.00	0.00	9,654.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
10,900.00	0.00	0.00	9,754.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
11,000.00	0.00	0.00	9,854.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
11,077.28	0.00	0.00	9,932.00	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
RLNS										
11,100.00	0.00	0.00	9,954.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
11,200.00	0.00	0.00	10,054.72	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
11,227.28	0.00	0.00	10,082.00	2,141.59	3,320.86	3,951.52	0.00	0.00	0.00	
TD at 11227.28 - TD										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NR 441-3 KMV - hit/miss target - Shape	0.00	0.00	7,502.00	2,141.59	3,320.86	1,637,578.30	2,332,640.40	39.560067	-107.867265
- plan hits target center - Circle (radius 50.00)									
NR 441-3 PBHL - plan hits target center - Point	0.00	0.00	10,082.00	2,141.59	3,320.86	1,637,578.30	2,332,640.40	39.560067	-107.867265

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 441-3 - Slot NR 441-3
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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 441-3	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,154.74	3,552.00	Wasatch G		0.00		
6,600.77	5,552.00	LWSTC		0.00		
7,310.14	6,192.00	MVRD		0.00		
8,647.28	7,502.00	KMVGAS		0.00		
10,197.28	9,052.00	CMEO		0.00		
11,077.28	9,932.00	RLNS		0.00		
11,227.28	10,082.00	TD		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
120.00	120.00	0.00	0.00	Build 3.00	
1,301.53	1,227.59	191.84	297.47	4982.70 hold	
6,284.23	5,286.82	1,757.92	2,725.92	Drop -1.50	
8,647.28	7,502.00	2,141.59	3,320.86	2580.00 hold	
11,227.28	10,082.00	2,141.59	3,320.86	TD at 11227.28	