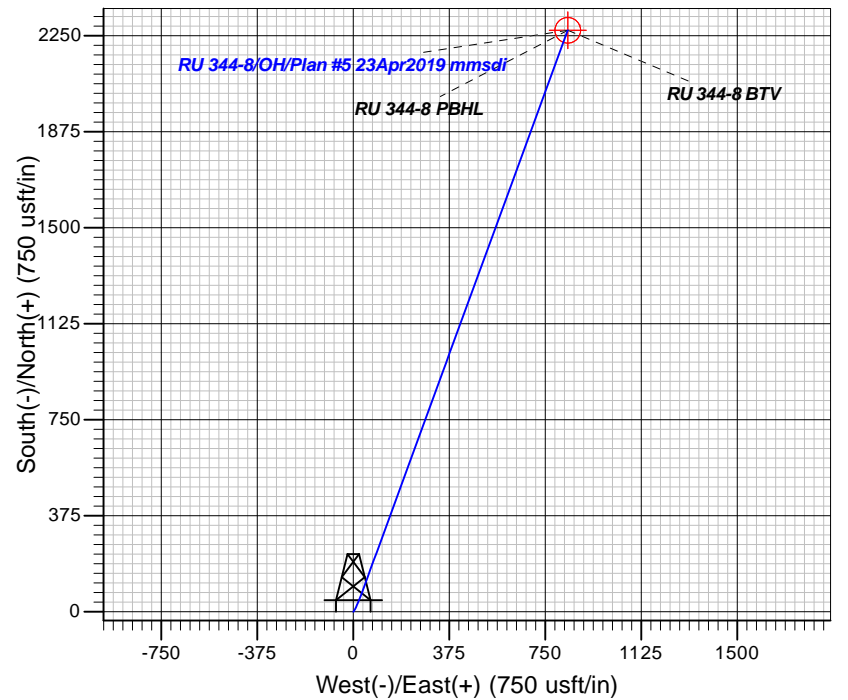
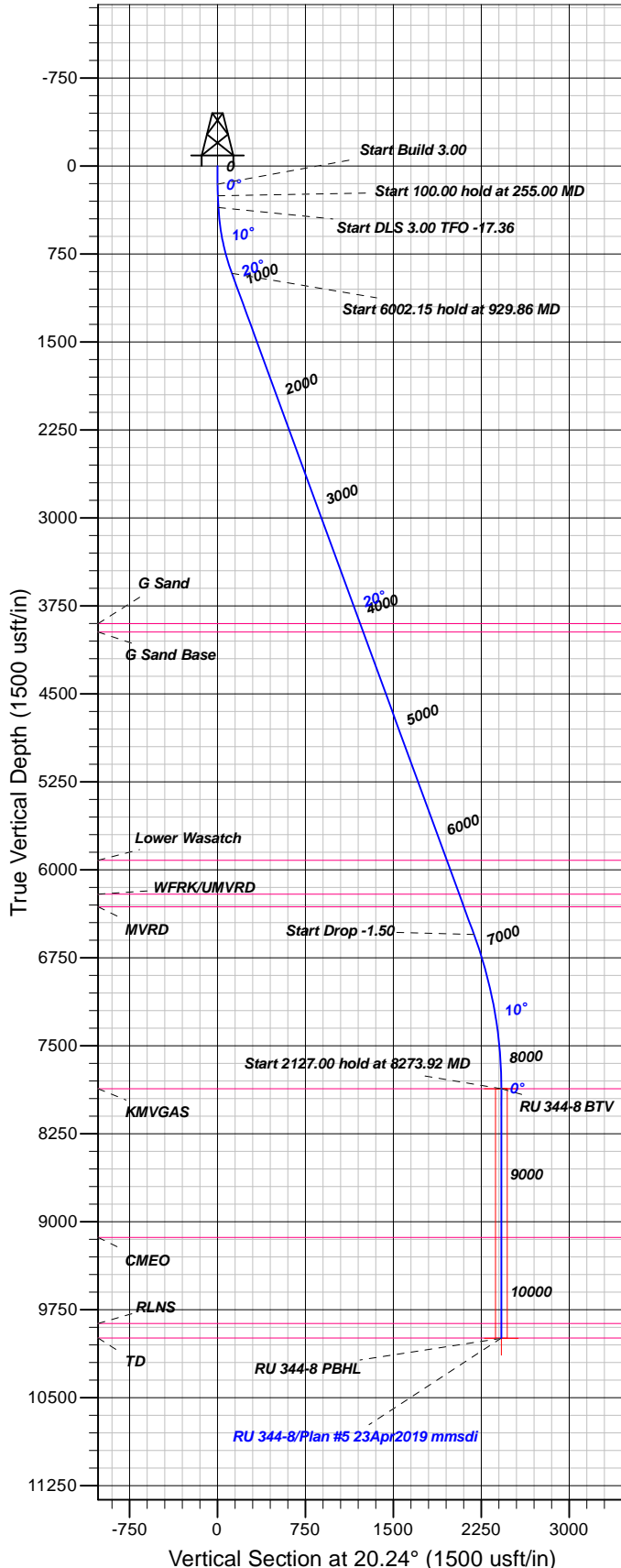


## Well Details: RU 344-8

GL 7864' & RKB 24' @ 7888.00usft (H&P 318)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1597007.80	2351724.60	39.4500645	-107.7959620	RU 344-8



## FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
3902.00	4110.13	G Sand
3972.00	4184.68	G Sand Base
5919.00	6258.34	Lower Wasatch
6208.00	6566.14	WFRK/UMVRD
6316.00	6681.16	MVRD
7866.00	8273.92	KMVGAS
9134.00	9541.92	CMEO
9868.00	10275.92	RLNS
9992.99	10400.91	TD

Plan: Plan #5 23Apr2019 mmsdi

17:49, April 29 2019  
Created By: Mel Mireles

PROJECT DETAILS: Garfield County, CO NAD83

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Central Zone

System Datum: Mean Sea Level

## CASING DETAILS

TVD	MD	Name	Size
1075.72	1100.00	9 5/8" @ 1100' MD	9.62

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	155.00	0.00	0.00	155.00	0.00	0.00	0.00	0.00	0.00	
3	255.00	3.00	35.00	254.95	2.14	1.50	3.00	35.00	2.53	
4	355.00	3.00	35.00	354.82	6.43	4.50	0.00	0.00	7.59	
5	929.86	20.13	20.10	915.97	112.44	47.45	3.00	-17.36	121.92	
6	6932.01	20.13	20.10	6551.53	2052.11	757.39	0.00	0.00	187.41	
7	8273.92	0.00	0.00	7866.00	2271.19	837.57	1.50	180.00	2420.71	RU 344-8 BTM
8	10400.92	0.00	0.00	9993.00	2271.19	837.57	0.00	0.00	2420.71	RU 344-8 PBHL

## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RU 344-8 BTM	7866.00	2271.19	837.57	1599257.10	2352619.30	39.4563000	-107.7929957	Circle (Radius: 50.00)
- plan hits target center								
RU 344-8 PBHL	9993.00	2271.19	837.57	1599257.10	2352619.30	39.4563000	-107.7929957	Point
- plan hits target center								



# **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**RU 31-17 Pad**

**RU 344-8 - Slot RU 344-8**

**OH**

**Plan: Plan #5 23Apr2019 mmsdi**

## **Standard Planning Report**

**29 April, 2019**



<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RU 344-8 - Slot RU 344-8
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Site:</b>	RU 31-17 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 344-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #5 23Apr2019 mmsdi		

<b>Project</b>	Garfield County, 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		

Site		RU 31-17 Pad			
Site Position:		Northing:	1,596,940.40 usft	Latitude:	39.4498852
From:	Map	Easting:	2,351,805.70 usft	Longitude:	-107.7956689
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-1.45 °

Well	RU 344-8 - Slot RU 344-8					
Well Position	+N/-S	65.33 usft	Northing:	1,597,007.80 usft	Latitude:	39.4500645
	+E/-W	-82.78 usft	Easting:	2,351,724.60 usft	Longitude:	-107.7959621
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	7,864.00 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>
	HDGM	2/9/2017	9.30	65.63	51,716

<b>Design</b>	Plan #5 23Apr2019 mmsdi			
<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	20.24

<b>Plan Sections</b>										
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	
155.00	0.00	0.00	155.00	0.00	0.00	0.00	0.00	0.00	0.00	
255.00	3.00	35.00	254.95	2.14	1.50	3.00	3.00	0.00	35.00	
355.00	3.00	35.00	354.82	6.43	4.50	0.00	0.00	0.00	0.00	
929.86	20.13	20.10	915.97	112.44	47.45	3.00	2.98	-2.59	-17.36	
6,932.01	20.13	20.10	6,551.53	2,052.11	757.39	0.00	0.00	0.00	0.00	
8,273.92	0.00	0.00	7,866.00	2,271.19	837.57	1.50	-1.50	0.00	180.00	RU 344-8 BTV
10,400.92	0.00	0.00	9,993.00	2,271.19	837.57	0.00	0.00	0.00	0.00	RU 344-8 PBHL

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RU 344-8 - Slot RU 344-8
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Site:</b>	RU 31-17 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 344-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #5 23Apr2019 mmsdi		

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
155.00	0.00	0.00	155.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
200.00	1.35	35.00	200.00	0.43	0.30	0.51	3.00	3.00	0.00
255.00	3.00	35.00	254.95	2.14	1.50	2.53	3.00	3.00	0.00
Start 100.00 hold at 255.00 MD									
300.00	3.00	35.00	299.89	4.07	2.85	4.81	0.00	0.00	0.00
355.00	3.00	35.00	354.82	6.43	4.50	7.59	0.00	0.00	0.00
Start DLS 3.00 TFO -17.36									
400.00	4.31	29.63	399.72	8.86	6.01	10.40	3.00	2.91	-11.94
500.00	7.27	24.69	499.20	17.88	10.51	20.41	3.00	2.96	-4.93
600.00	10.25	22.61	598.03	31.84	16.58	35.61	3.00	2.98	-2.08
700.00	13.24	21.47	695.92	50.72	24.20	55.96	3.00	2.99	-1.15
800.00	16.24	20.73	792.62	74.46	33.34	81.40	3.00	2.99	-0.73
900.00	19.23	20.23	887.86	103.00	43.99	111.86	3.00	3.00	-0.51
929.86	20.13	20.10	915.97	112.44	47.45	121.92	3.00	3.00	-0.41
Start 6002.15 hold at 929.86 MD									
1,000.00	20.13	20.10	981.83	135.11	55.75	146.05	0.00	0.00	0.00
1,100.00	20.13	20.10	1,075.72	167.42	67.58	180.46	0.00	0.00	0.00
9 5/8" @ 1100' MD									
1,200.00	20.13	20.10	1,169.61	199.74	79.41	214.88	0.00	0.00	0.00
1,300.00	20.13	20.10	1,263.50	232.06	91.23	249.29	0.00	0.00	0.00
1,400.00	20.13	20.10	1,357.40	264.37	103.06	283.70	0.00	0.00	0.00
1,500.00	20.13	20.10	1,451.29	296.69	114.89	318.12	0.00	0.00	0.00
1,600.00	20.13	20.10	1,545.18	329.00	126.72	352.53	0.00	0.00	0.00
1,700.00	20.13	20.10	1,639.07	361.32	138.55	386.94	0.00	0.00	0.00
1,800.00	20.13	20.10	1,732.97	393.64	150.37	421.35	0.00	0.00	0.00
1,900.00	20.13	20.10	1,826.86	425.95	162.20	455.77	0.00	0.00	0.00
2,000.00	20.13	20.10	1,920.75	458.27	174.03	490.18	0.00	0.00	0.00
2,100.00	20.13	20.10	2,014.64	490.59	185.86	524.59	0.00	0.00	0.00
2,200.00	20.13	20.10	2,108.53	522.90	197.69	559.00	0.00	0.00	0.00
2,300.00	20.13	20.10	2,202.43	555.22	209.51	593.42	0.00	0.00	0.00
2,400.00	20.13	20.10	2,296.32	587.53	221.34	627.83	0.00	0.00	0.00
2,500.00	20.13	20.10	2,390.21	619.85	233.17	662.24	0.00	0.00	0.00
2,600.00	20.13	20.10	2,484.10	652.17	245.00	696.65	0.00	0.00	0.00
2,700.00	20.13	20.10	2,578.00	684.48	256.83	731.07	0.00	0.00	0.00
2,800.00	20.13	20.10	2,671.89	716.80	268.65	765.48	0.00	0.00	0.00
2,900.00	20.13	20.10	2,765.78	749.12	280.48	799.89	0.00	0.00	0.00
3,000.00	20.13	20.10	2,859.67	781.43	292.31	834.30	0.00	0.00	0.00
3,100.00	20.13	20.10	2,953.57	813.75	304.14	868.72	0.00	0.00	0.00
3,200.00	20.13	20.10	3,047.46	846.06	315.97	903.13	0.00	0.00	0.00
3,300.00	20.13	20.10	3,141.35	878.38	327.79	937.54	0.00	0.00	0.00
3,400.00	20.13	20.10	3,235.24	910.70	339.62	971.96	0.00	0.00	0.00
3,500.00	20.13	20.10	3,329.13	943.01	351.45	1,006.37	0.00	0.00	0.00
3,600.00	20.13	20.10	3,423.03	975.33	363.28	1,040.78	0.00	0.00	0.00
3,700.00	20.13	20.10	3,516.92	1,007.64	375.11	1,075.19	0.00	0.00	0.00
3,800.00	20.13	20.10	3,610.81	1,039.96	386.93	1,109.61	0.00	0.00	0.00
3,900.00	20.13	20.10	3,704.70	1,072.28	398.76	1,144.02	0.00	0.00	0.00
4,000.00	20.13	20.10	3,798.60	1,104.59	410.59	1,178.43	0.00	0.00	0.00
4,100.00	20.13	20.10	3,892.49	1,136.91	422.42	1,212.84	0.00	0.00	0.00

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RU 344-8 - Slot RU 344-8
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Site:</b>	RU 31-17 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 344-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #5 23Apr2019 mmsdi		

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)
4,110.13	20.13	20.10	3,902.00	1,140.18	423.62	1,216.33	0.00	0.00	0.00
<b>G Sand</b>									
4,184.68	20.13	20.10	3,972.00	1,164.28	432.43	1,241.99	0.00	0.00	0.00
<b>G Sand Base</b>									
4,200.00	20.13	20.10	3,986.38	1,169.23	434.25	1,247.26	0.00	0.00	0.00
4,300.00	20.13	20.10	4,080.27	1,201.54	446.07	1,281.67	0.00	0.00	0.00
4,400.00	20.13	20.10	4,174.17	1,233.86	457.90	1,316.08	0.00	0.00	0.00
4,500.00	20.13	20.10	4,268.06	1,266.17	469.73	1,350.49	0.00	0.00	0.00
4,600.00	20.13	20.10	4,361.95	1,298.49	481.56	1,384.91	0.00	0.00	0.00
4,700.00	20.13	20.10	4,455.84	1,330.81	493.38	1,419.32	0.00	0.00	0.00
4,800.00	20.13	20.10	4,549.73	1,363.12	505.21	1,453.73	0.00	0.00	0.00
4,900.00	20.13	20.10	4,643.63	1,395.44	517.04	1,488.14	0.00	0.00	0.00
5,000.00	20.13	20.10	4,737.52	1,427.75	528.87	1,522.56	0.00	0.00	0.00
5,100.00	20.13	20.10	4,831.41	1,460.07	540.70	1,556.97	0.00	0.00	0.00
5,200.00	20.13	20.10	4,925.30	1,492.39	552.52	1,591.38	0.00	0.00	0.00
5,300.00	20.13	20.10	5,019.20	1,524.70	564.35	1,625.80	0.00	0.00	0.00
5,400.00	20.13	20.10	5,113.09	1,557.02	576.18	1,660.21	0.00	0.00	0.00
5,500.00	20.13	20.10	5,206.98	1,589.34	588.01	1,694.62	0.00	0.00	0.00
5,600.00	20.13	20.10	5,300.87	1,621.65	599.84	1,729.03	0.00	0.00	0.00
5,700.00	20.13	20.10	5,394.77	1,653.97	611.66	1,763.45	0.00	0.00	0.00
5,800.00	20.13	20.10	5,488.66	1,686.28	623.49	1,797.86	0.00	0.00	0.00
5,900.00	20.13	20.10	5,582.55	1,718.60	635.32	1,832.27	0.00	0.00	0.00
6,000.00	20.13	20.10	5,676.44	1,750.92	647.15	1,866.68	0.00	0.00	0.00
6,100.00	20.13	20.10	5,770.33	1,783.23	658.98	1,901.10	0.00	0.00	0.00
6,200.00	20.13	20.10	5,864.23	1,815.55	670.80	1,935.51	0.00	0.00	0.00
6,258.34	20.13	20.10	5,919.00	1,834.40	677.70	1,955.58	0.00	0.00	0.00
<b>Lower Wasatch</b>									
6,300.00	20.13	20.10	5,958.12	1,847.87	682.63	1,969.92	0.00	0.00	0.00
6,400.00	20.13	20.10	6,052.01	1,880.18	694.46	2,004.33	0.00	0.00	0.00
6,500.00	20.13	20.10	6,145.90	1,912.50	706.29	2,038.75	0.00	0.00	0.00
6,566.14	20.13	20.10	6,208.00	1,933.87	714.11	2,061.51	0.00	0.00	0.00
<b>WFRK/UMVRD</b>									
6,600.00	20.13	20.10	6,239.80	1,944.81	718.12	2,073.16	0.00	0.00	0.00
6,681.16	20.13	20.10	6,316.00	1,971.04	727.72	2,101.09	0.00	0.00	0.00
<b>MVRD</b>									
6,700.00	20.13	20.10	6,333.69	1,977.13	729.94	2,107.57	0.00	0.00	0.00
6,800.00	20.13	20.10	6,427.58	2,009.45	741.77	2,141.98	0.00	0.00	0.00
6,900.00	20.13	20.10	6,521.47	2,041.76	753.60	2,176.40	0.00	0.00	0.00
6,932.01	20.13	20.10	6,551.53	2,052.11	757.39	2,187.41	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
7,000.00	19.11	20.10	6,615.57	2,073.54	765.23	2,210.24	1.50	-1.50	0.00
7,100.00	17.61	20.10	6,710.48	2,103.12	776.06	2,241.74	1.50	-1.50	0.00
7,200.00	16.11	20.10	6,806.18	2,130.35	786.03	2,270.74	1.50	-1.50	0.00
7,300.00	14.61	20.10	6,902.60	2,155.23	795.13	2,297.22	1.50	-1.50	0.00
7,400.00	13.11	20.10	6,999.69	2,177.72	803.36	2,321.17	1.50	-1.50	0.00
7,500.00	11.61	20.10	7,097.37	2,197.82	810.72	2,342.58	1.50	-1.50	0.00
7,600.00	10.11	20.10	7,195.58	2,215.51	817.19	2,361.41	1.50	-1.50	0.00
7,700.00	8.61	20.10	7,294.24	2,230.78	822.78	2,377.68	1.50	-1.50	0.00
7,800.00	7.11	20.10	7,393.30	2,243.62	827.48	2,391.35	1.50	-1.50	0.00
7,900.00	5.61	20.10	7,492.68	2,254.02	831.29	2,402.42	1.50	-1.50	0.00
8,000.00	4.11	20.10	7,592.32	2,261.97	834.20	2,410.89	1.50	-1.50	0.00

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RU 344-8 - Slot RU 344-8
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Site:</b>	RU 31-17 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 344-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #5 23Apr2019 mmsdi		

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)	
8,100.00	2.61	20.10	7,692.14	2,267.47	836.21	2,416.75	1.50	-1.50	0.00	
8,200.00	1.11	20.10	7,792.09	2,270.52	837.33	2,420.00	1.50	-1.50	0.00	
8,273.92	0.00	0.00	7,866.00	2,271.19	837.57	2,420.71	1.50	-1.50	0.00	
Start 2127.00 hold at 8273.92 MD - KMGAS - RU 344-8 BTV										
8,300.00	0.00	0.00	7,892.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
8,400.00	0.00	0.00	7,992.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,092.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,192.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,292.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,392.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,492.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,592.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,692.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,200.00	0.00	0.00	8,792.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,300.00	0.00	0.00	8,892.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,400.00	0.00	0.00	8,992.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,092.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,541.92	0.00	0.00	9,134.00	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
CME0										
9,600.00	0.00	0.00	9,192.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,292.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,392.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,492.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,592.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,692.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
10,200.00	0.00	0.00	9,792.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
10,275.92	0.00	0.00	9,868.00	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
RLNS										
10,300.00	0.00	0.00	9,892.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
10,400.00	0.00	0.00	9,992.08	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
10,400.91	0.00	0.00	9,992.99	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
TD										
10,400.92	0.00	0.00	9,993.00	2,271.19	837.57	2,420.71	0.00	0.00	0.00	
TD at 10400.92 - RU 344-8 PBHL										

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										
RU 344-8 BTV	0.00	0.00	7,866.00	2,271.19	837.57	1,599,257.10	2,352,619.30	39.4563000	-107.7929957	
- plan hits target center										
- Circle (radius 50.00)										
RU 344-8 PBHL	0.00	0.00	9,993.00	2,271.19	837.57	1,599,257.10	2,352,619.30	39.4563000	-107.7929957	
- plan hits target center										
- Point										

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well RU 344-8 - Slot RU 344-8
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7864' & RKB 24' @ 7888.00usft (H&P 318)
<b>Site:</b>	RU 31-17 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 344-8	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #5 23Apr2019 mmsdi		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,100.00	1,075.72	9 5/8" @ 1100' MD	9.62	9.62	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,110.13	3,902.00	G Sand		0.00	0.00
4,184.68	3,972.00	G Sand Base		0.00	0.00
6,258.34	5,919.00	Lower Wasatch		0.00	0.00
6,566.14	6,208.00	WFRK/UMVRD		0.00	0.00
6,681.16	6,316.00	MVRD		0.00	0.00
8,273.92	7,866.00	KMVGAS		0.00	0.00
9,541.92	9,134.00	CMEO		0.00	0.00
10,275.92	9,868.00	RLNS		0.00	0.00
10,400.91	9,992.99	TD		0.00	0.00

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
155.00	155.00	0.00	0.00	Start Build 3.00	
255.00	254.95	2.14	1.50	Start 100.00 hold at 255.00 MD	
355.00	354.82	6.43	4.50	Start DLS 3.00 TFO -17.36	
929.86	915.97	112.44	47.45	Start 6002.15 hold at 929.86 MD	
6,932.01	6,551.53	2,052.11	757.39	Start Drop -1.50	
8,273.92	7,866.00	2,271.19	837.57	Start 2127.00 hold at 8273.92 MD	
10,400.92	9,993.00	2,271.19	837.57	TD at 10400.92	