



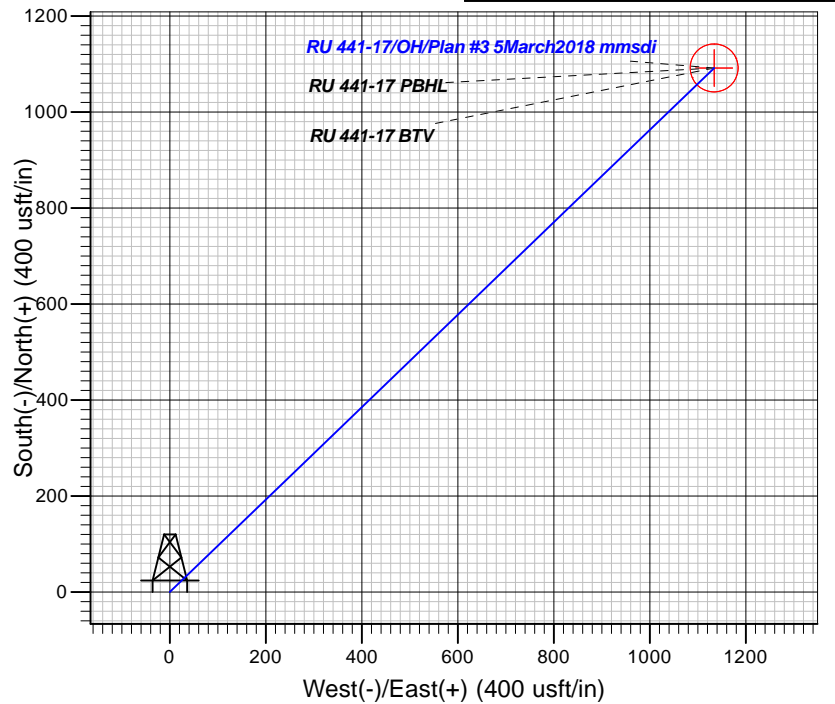
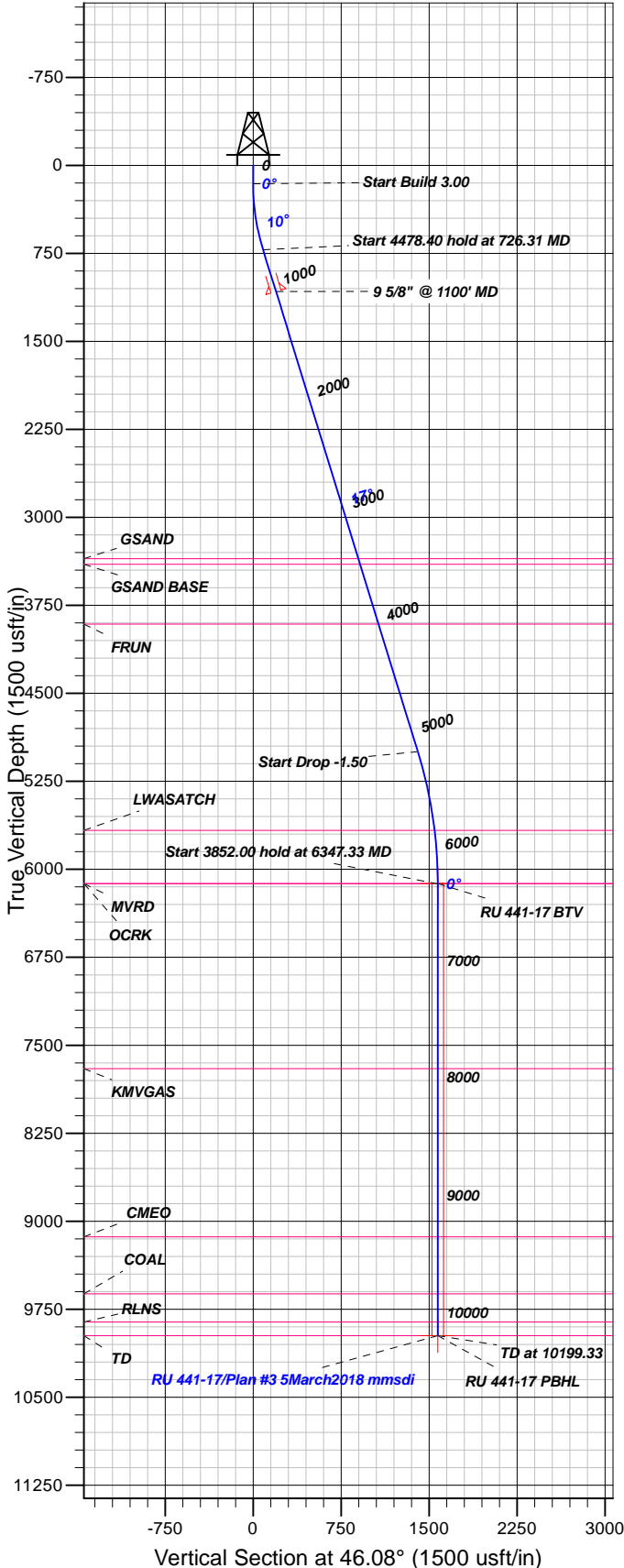
Azimuths to True North
Magnetic North: 9.30°

Magnetic Field
Strength: 51715.6snT
Dip Angle: 65.63°
Date: 2/9/2017
Model: HDGM

Well Details: RU 441-17

GL 7859' & RKB 24' @ 7883.00usft (H&P 318)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1506088.30	2251758.10	39.4500433	-107.7958417	RU 441-17



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3351.00	3481.85	GSAND
3400.00	3533.13	GSAND BASE
3910.00	4066.83	FRUN
5668.00	5891.25	LWASATCH
6123.00	6347.33	MVRD
6123.00	6347.33	OCRK
7699.00	7923.33	KMGAS
9133.00	9357.33	CMEQ
9618.00	9842.33	COAL
9858.00	10082.33	RLNS
9975.00	10199.33	TD

Plan: Plan #3 5March2018 mmsdi

16:27, March 06 2018
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
1074.92	1100.00	9 5/8" @ 1100' MD	9.62

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	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	726.31	17.14	46.08	717.83	58.83	61.10	3.00	46.08	84.81	
4	5204.71	17.14	46.08	4997.34	974.24	1011.78	0.00	0.00	1404.58	
5	6347.33	0.00	0.00	6123.00	1091.90	1133.97	1.50	180.00	574.21	RU 441-17 BTM
6	10199.33	0.00	0.00	9975.00	1091.90	1133.97	0.00	0.00	574.21	RU 441-17 PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RU 441-17 BTM	6123.00	1091.90	1133.97	1598051.20	2352919.30	39.4530110	-107.7918258	Circle (Radius: 50.00)
- plan hits target center								
RU 441-17 PBHL	9975.00	1091.90	1133.97	1598051.20	2352919.30	39.4530110	-107.7918258	Point
- plan hits target center								



TEP Rocky Mountain LLC

Garfield County, CO NAD83

RU 31-17 Pad

RU 441-17 - Slot RU 441-17

OH

Plan: Plan #3 5March2018 mmsdi

Standard Planning Report

06 March, 2018



Database:	Grand Junction District	Local Co-ordinate Reference:	Well RU 441-17 - Slot RU 441-17
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 7859' & RKB 24' @ 7883.00usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 7859' & RKB 24' @ 7883.00usft (H&P 318)
Site:	RU 31-17 Pad	North Reference:	True
Well:	RU 441-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 5March2018 mmsdi		

Project	Garfield County, 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	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 441-17 - Slot RU 441-17			
Well Position	+N/-S 46.68 usft	Northing:	1,596,988.30 usft	Latitude: 39.4500133
	+E/-W -48.80 usft	Easting:	2,351,758.10 usft	Longitude: -107.7958417
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 7,859.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/9/2017	9.30	65.63	51,716

Design	Plan #3 5March2018 mmsdi			
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	46.08

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	
155.00	0.00	0.00	155.00	0.00	0.00	0.00	0.00	0.00	0.00	
726.31	17.14	46.08	717.83	58.83	61.10	3.00	3.00	0.00	46.08	
5,204.71	17.14	46.08	4,997.34	974.24	1,011.78	0.00	0.00	0.00	0.00	
6,347.33	0.00	0.00	6,123.00	1,091.90	1,133.97	1.50	-1.50	0.00	180.00	RU 441-17 BTW
10,199.33	0.00	0.00	9,975.00	1,091.90	1,133.97	0.00	0.00	0.00	0.00	RU 441-17 PBHL

Database:	Grand Junction District	Local Co-ordinate Reference:	Well RU 441-17 - Slot RU 441-17
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 7859' & RKB 24' @ 7883.00usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 7859' & RKB 24' @ 7883.00usft (H&P 318)
Site:	RU 31-17 Pad	North Reference:	True
Well:	RU 441-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 5March2018 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	46.08	200.00	0.37	0.38	0.53	3.00	3.00	0.00
300.00	4.35	46.08	299.86	3.82	3.96	5.50	3.00	3.00	0.00
400.00	7.35	46.08	399.33	10.88	11.30	15.69	3.00	3.00	0.00
500.00	10.35	46.08	498.13	21.55	22.39	31.08	3.00	3.00	0.00
600.00	13.35	46.08	595.98	35.80	37.18	51.61	3.00	3.00	0.00
700.00	16.35	46.08	692.63	53.57	55.64	77.23	3.00	3.00	0.00
726.31	17.14	46.08	717.83	58.83	61.10	84.81	3.00	3.00	0.00
Start 4478.40 hold at 726.31 MD									
800.00	17.14	46.08	788.25	73.89	76.74	106.53	0.00	0.00	0.00
900.00	17.14	46.08	883.80	94.33	97.97	136.00	0.00	0.00	0.00
1,000.00	17.14	46.08	979.36	114.77	119.20	165.47	0.00	0.00	0.00
1,100.00	17.14	46.08	1,074.92	135.21	140.42	194.94	0.00	0.00	0.00
9 5/8" @ 1100' MD									
1,200.00	17.14	46.08	1,170.48	155.65	161.65	224.41	0.00	0.00	0.00
1,300.00	17.14	46.08	1,266.04	176.10	182.88	253.88	0.00	0.00	0.00
1,400.00	17.14	46.08	1,361.60	196.54	204.11	283.35	0.00	0.00	0.00
1,500.00	17.14	46.08	1,457.16	216.98	225.34	312.82	0.00	0.00	0.00
1,600.00	17.14	46.08	1,552.72	237.42	246.56	342.29	0.00	0.00	0.00
1,700.00	17.14	46.08	1,648.28	257.86	267.79	371.76	0.00	0.00	0.00
1,800.00	17.14	46.08	1,743.84	278.30	289.02	401.23	0.00	0.00	0.00
1,900.00	17.14	46.08	1,839.40	298.74	310.25	430.70	0.00	0.00	0.00
2,000.00	17.14	46.08	1,934.95	319.18	331.48	460.17	0.00	0.00	0.00
2,100.00	17.14	46.08	2,030.51	339.62	352.71	489.64	0.00	0.00	0.00
2,200.00	17.14	46.08	2,126.07	360.06	373.93	519.11	0.00	0.00	0.00
2,300.00	17.14	46.08	2,221.63	380.50	395.16	548.58	0.00	0.00	0.00
2,400.00	17.14	46.08	2,317.19	400.94	416.39	578.04	0.00	0.00	0.00
2,500.00	17.14	46.08	2,412.75	421.38	437.62	607.51	0.00	0.00	0.00
2,600.00	17.14	46.08	2,508.31	441.82	458.85	636.98	0.00	0.00	0.00
2,700.00	17.14	46.08	2,603.87	462.27	480.07	666.45	0.00	0.00	0.00
2,800.00	17.14	46.08	2,699.43	482.71	501.30	695.92	0.00	0.00	0.00
2,900.00	17.14	46.08	2,794.99	503.15	522.53	725.39	0.00	0.00	0.00
3,000.00	17.14	46.08	2,890.55	523.59	543.76	754.86	0.00	0.00	0.00
3,100.00	17.14	46.08	2,986.10	544.03	564.99	784.33	0.00	0.00	0.00
3,200.00	17.14	46.08	3,081.66	564.47	586.22	813.80	0.00	0.00	0.00
3,300.00	17.14	46.08	3,177.22	584.91	607.44	843.27	0.00	0.00	0.00
3,400.00	17.14	46.08	3,272.78	605.35	628.67	872.74	0.00	0.00	0.00
3,481.85	17.14	46.08	3,351.00	622.08	646.05	896.86	0.00	0.00	0.00
GSAND									
3,500.00	17.14	46.08	3,368.34	625.79	649.90	902.21	0.00	0.00	0.00
3,533.13	17.14	46.08	3,400.00	632.56	656.93	911.97	0.00	0.00	0.00
GSAND BASE									
3,600.00	17.14	46.08	3,463.90	646.23	671.13	931.68	0.00	0.00	0.00
3,700.00	17.14	46.08	3,559.46	666.67	692.36	961.15	0.00	0.00	0.00
3,800.00	17.14	46.08	3,655.02	687.11	713.59	990.62	0.00	0.00	0.00
3,900.00	17.14	46.08	3,750.58	707.55	734.81	1,020.09	0.00	0.00	0.00
4,000.00	17.14	46.08	3,846.14	727.99	756.04	1,049.56	0.00	0.00	0.00
4,066.83	17.14	46.08	3,910.00	741.65	770.23	1,069.25	0.00	0.00	0.00

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Project:	Garfield County, CO NAD83	MD Reference:	GL 7859' & RKB 24' @ 7883.00usft (H&P 318)
Site:	RU 31-17 Pad	North Reference:	True
Well:	RU 441-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 5March2018 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)
FRUN									
4,100.00	17.14	46.08	3,941.70	748.43	777.27	1,079.03	0.00	0.00	0.00
4,200.00	17.14	46.08	4,037.25	768.88	798.50	1,108.50	0.00	0.00	0.00
4,300.00	17.14	46.08	4,132.81	789.32	819.73	1,137.97	0.00	0.00	0.00
4,400.00	17.14	46.08	4,228.37	809.76	840.95	1,167.44	0.00	0.00	0.00
4,500.00	17.14	46.08	4,323.93	830.20	862.18	1,196.91	0.00	0.00	0.00
4,600.00	17.14	46.08	4,419.49	850.64	883.41	1,226.38	0.00	0.00	0.00
4,700.00	17.14	46.08	4,515.05	871.08	904.64	1,255.85	0.00	0.00	0.00
4,800.00	17.14	46.08	4,610.61	891.52	925.87	1,285.32	0.00	0.00	0.00
4,900.00	17.14	46.08	4,706.17	911.96	947.10	1,314.79	0.00	0.00	0.00
5,000.00	17.14	46.08	4,801.73	932.40	968.32	1,344.26	0.00	0.00	0.00
5,100.00	17.14	46.08	4,897.29	952.84	989.55	1,373.72	0.00	0.00	0.00
5,200.00	17.14	46.08	4,992.85	973.28	1,010.78	1,403.19	0.00	0.00	0.00
5,204.71	17.14	46.08	4,997.34	974.24	1,011.78	1,404.58	0.00	0.00	0.00
Start Drop -1.50									
5,300.00	15.71	46.08	5,088.75	992.93	1,031.19	1,431.53	1.50	-1.50	0.00
5,400.00	14.21	46.08	5,185.35	1,010.84	1,049.78	1,457.34	1.50	-1.50	0.00
5,500.00	12.71	46.08	5,282.60	1,026.98	1,066.55	1,480.61	1.50	-1.50	0.00
5,600.00	11.21	46.08	5,380.43	1,041.36	1,081.48	1,501.34	1.50	-1.50	0.00
5,700.00	9.71	46.08	5,478.77	1,053.95	1,094.55	1,519.49	1.50	-1.50	0.00
5,800.00	8.21	46.08	5,577.54	1,064.75	1,105.77	1,535.07	1.50	-1.50	0.00
5,891.25	6.84	46.08	5,668.00	1,073.04	1,114.38	1,547.02	1.50	-1.50	0.00
LWASATCH									
5,900.00	6.71	46.08	5,676.69	1,073.76	1,115.12	1,548.05	1.50	-1.50	0.00
6,000.00	5.21	46.08	5,776.15	1,080.96	1,122.60	1,558.43	1.50	-1.50	0.00
6,100.00	3.71	46.08	5,875.84	1,086.35	1,128.20	1,566.21	1.50	-1.50	0.00
6,200.00	2.21	46.08	5,975.71	1,089.93	1,131.92	1,571.37	1.50	-1.50	0.00
6,300.00	0.71	46.08	6,075.67	1,091.70	1,133.76	1,573.92	1.50	-1.50	0.00
6,347.33	0.00	0.00	6,123.00	1,091.90	1,133.97	1,574.21	1.50	-1.50	-97.37
Start 3852.00 hold at 6347.33 MD - OCRK - MVRD - RU 441-17 BTW									
6,400.00	0.00	0.00	6,175.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
6,500.00	0.00	0.00	6,275.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
6,600.00	0.00	0.00	6,375.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
6,700.00	0.00	0.00	6,475.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
6,800.00	0.00	0.00	6,575.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
6,900.00	0.00	0.00	6,675.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,000.00	0.00	0.00	6,775.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,100.00	0.00	0.00	6,875.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,200.00	0.00	0.00	6,975.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,300.00	0.00	0.00	7,075.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,400.00	0.00	0.00	7,175.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,500.00	0.00	0.00	7,275.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,600.00	0.00	0.00	7,375.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,700.00	0.00	0.00	7,475.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,800.00	0.00	0.00	7,575.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,900.00	0.00	0.00	7,675.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
7,923.33	0.00	0.00	7,699.00	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
KMVGAS									
8,000.00	0.00	0.00	7,775.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
8,100.00	0.00	0.00	7,875.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00
8,200.00	0.00	0.00	7,975.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00

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Site:	RU 31-17 Pad	North Reference:	True
Well:	RU 441-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 5March2018 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)	
8,300.00	0.00	0.00	8,075.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,175.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,275.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,375.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,475.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,575.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,675.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,775.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,875.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,200.00	0.00	0.00	8,975.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,075.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,357.33	0.00	0.00	9,133.00	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
CMEO										
9,400.00	0.00	0.00	9,175.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,275.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,375.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,475.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,575.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
9,842.33	0.00	0.00	9,618.00	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
COAL										
9,900.00	0.00	0.00	9,675.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,775.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
10,082.33	0.00	0.00	9,858.00	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
RLNS										
10,100.00	0.00	0.00	9,875.67	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
10,199.33	0.00	0.00	9,975.00	1,091.90	1,133.97	1,574.21	0.00	0.00	0.00	
TD at 10199.33 - TD - RU 441-17 PBHL										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RU 441-17 BTV	0.00	0.00	6,123.00	1,091.90	1,133.97	1,598,051.20	2,352,919.30	39.4530111	-107.7918259
- hit/miss target									
- Shape									
- plan hits target center									
- Circle (radius 50.00)									
RU 441-17 PBHL	0.00	0.00	9,975.00	1,091.90	1,133.97	1,598,051.20	2,352,919.30	39.4530111	-107.7918259
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,100.00	1,074.92	9 5/8" @ 1100' MD	9.62	9.62	

Database:	Grand Junction District	Local Co-ordinate Reference:	Well RU 441-17 - Slot RU 441-17
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 7859' & RKB 24' @ 7883.00usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 7859' & RKB 24' @ 7883.00usft (H&P 318)
Site:	RU 31-17 Pad	North Reference:	True
Well:	RU 441-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3 5March2018 mmsdi		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,481.85	3,351.00	GSAND		0.00	0.00
3,533.13	3,400.00	GSAND BASE		0.00	0.00
4,066.83	3,910.00	FRUN		0.00	0.00
5,891.25	5,668.00	LWASATCH		0.00	0.00
6,347.33	6,123.00	OCRK		0.00	0.00
6,347.33	6,123.00	MVRD		0.00	0.00
7,923.33	7,699.00	KMVGAS		0.00	0.00
9,357.33	9,133.00	CMEO		0.00	0.00
9,842.33	9,618.00	COAL		0.00	0.00
10,082.33	9,858.00	RLNS		0.00	0.00
10,199.33	9,975.00	TD		0.00	0.00

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
155.00	155.00	0.00	0.00	Start Build 3.00
726.31	717.83	58.83	61.10	Start 4478.40 hold at 726.31 MD
5,204.71	4,997.34	974.24	1,011.78	Start Drop -1.50
6,347.33	6,123.00	1,091.90	1,133.97	Start 3852.00 hold at 6347.33 MD
10,199.33	9,975.00	1,091.90	1,133.97	TD at 10199.33