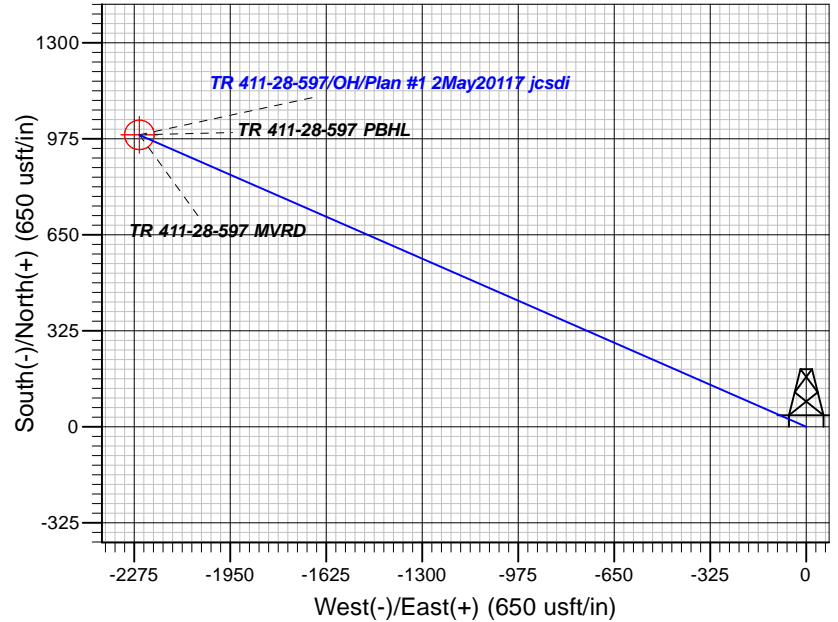
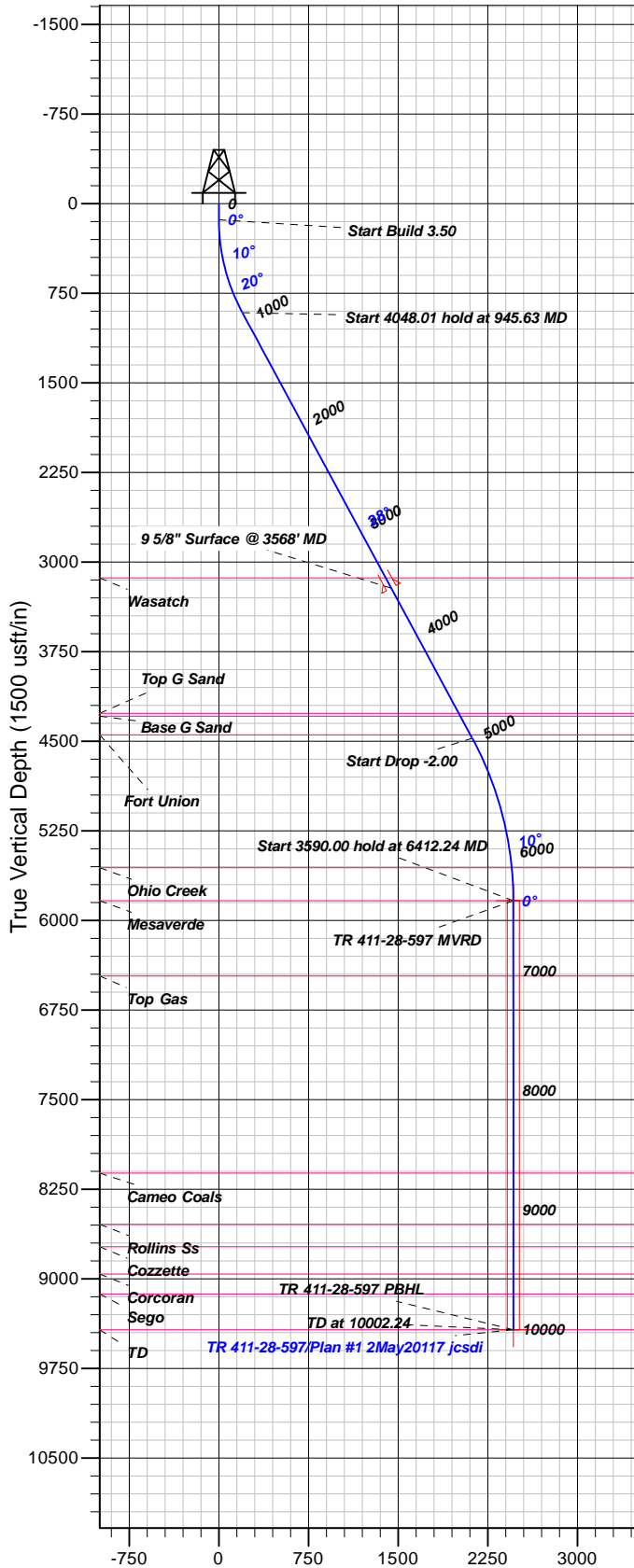


## Well Details: TR 411-28-597

+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1650723.60 2216042.20 39.5870705 -108.2820513 B8

GL 8481.4' & RKB 24' @ 8505.40usft

T M Azimuths to True North  
Magnetic North: 9.80°  
Magnetic Field  
Strength: 51635.9snT  
Dip Angle: 65.90°  
Date: 5/2/2017  
Model: HDGM



### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3133.00	3468.81	Wasatch
4267.00	4757.62	Top G Sand
4291.00	4784.90	Base G Sand
4446.00	4961.06	Fort Union
5559.00	6134.80	Ohio Creek
5836.00	6412.24	Mesaverde
6466.00	7042.24	Top Gas
8115.00	8691.24	Cameo Coals
8545.00	9121.24	Rollins Ss
8732.00	9308.24	Cozzette
8960.00	9536.24	Corcoran
9126.00	9702.24	Sego
9426.00	10002.24	TD

Plan: Plan #1 2May20117 jcsdi

11:01, May 04 2017  
Created By: Janie Collins

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
3220.28	3568.90	5/8" Surface @ 3568' MD	9.62

### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	
3	945.63	28.37	293.64	912.90	78.85	-180.13	3.50	293.64	196.64	
4	4993.64	28.37	293.64	4474.67	850.24	-1942.28	0.00	0.002120.23		
5	6412.24	0.00	0.00	5836.00	988.24	-2257.52	2.00	180.002464.35		TR 411-28-597 MVRD
6	10002.24	0.00	0.00	9426.00	988.24	-2257.52	0.00	0.002464.35		TR 411-28-597 PBHL

### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
TR 411-28-597 MVRD5836.00	988.24	-2257.52	1651780.50	2213816.00	39.5897834	-108.2900617	Circle (Radius: 50.00)	
- plan hits target center								
TR 411-28-597 PBHL 9426.00	988.24	-2257.52	1651780.50	2213816.00	39.5897834	-108.2900617	Point	
- plan hits target center								



## **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**TR 32-28-597 Pad**

**TR 411-28-597 - Slot B8**

**OH**

**Plan: Plan #1 2May20117 jcsdi**

## **Standard Planning Report**

**04 May, 2017**



<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well TR 411-28-597 - Slot B8
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 8481.4' & RKB 24' @ 8505.40usft
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 8481.4' & RKB 24' @ 8505.40usft
<b>Site:</b>	TR 32-28-597 Pad	<b>North Reference:</b>	True
<b>Well:</b>	TR 411-28-597	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 2May20117 jcsdi		

<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		

<b>Site</b>	TR 32-28-597 Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,650,686.80 usft	<b>Latitude:</b> 39.5869706
<b>From:</b> Map		<b>Easting:</b>	2,216,054.60 usft	<b>Longitude:</b> -108.2820034
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.20 in	<b>Grid Convergence:</b> -1.75 °

<b>Well</b>	TR 411-28-597 - Slot B8			
<b>Well Position</b>	<b>+N/-S</b>	36.40 usft	<b>Northing:</b>	1,650,723.60 usft
	<b>+E/-W</b>	-13.52 usft	<b>Easting:</b>	2,216,042.20 usft
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	0.00 usft
			<b>Ground Level:</b>	8,481.40 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	5/2/2017	9.80	65.90	51,636

<b>Design</b>	Plan #1 2May20117 jcsdi			
<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	293.64

<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	
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
945.63	28.37	293.64	912.90	78.85	-180.13	3.50	3.50	0.00	293.64	
4,993.64	28.37	293.64	4,474.67	850.24	-1,942.28	0.00	0.00	0.00	0.00	
6,412.24	0.00	0.00	5,836.00	988.24	-2,257.52	2.00	-2.00	0.00	180.00	TR 411-28-597 MVRC
10,002.24	0.00	0.00	9,426.00	988.24	-2,257.52	0.00	0.00	0.00	0.00	TR 411-28-597 PBHL

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well TR 411-28-597 - Slot B8
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 8481.4' & RKB 24' @ 8505.40usft
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 8481.4' & RKB 24' @ 8505.40usft
<b>Site:</b>	TR 32-28-597 Pad	<b>North Reference:</b>	True
<b>Well:</b>	TR 411-28-597	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 2May20117 jcsdi		

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
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	2.28	293.64	199.98	0.52	-1.18	1.29	3.50	3.50	0.00
300.00	5.78	293.64	299.72	3.33	-7.61	8.31	3.50	3.50	0.00
400.00	9.28	293.64	398.84	8.58	-19.61	21.40	3.50	3.50	0.00
500.00	12.78	293.64	496.98	16.25	-37.12	40.52	3.50	3.50	0.00
600.00	16.28	293.64	593.77	26.31	-60.09	65.60	3.50	3.50	0.00
700.00	19.78	293.64	688.85	38.71	-88.44	96.54	3.50	3.50	0.00
800.00	23.28	293.64	781.86	53.42	-122.04	133.22	3.50	3.50	0.00
900.00	26.78	293.64	872.46	70.39	-160.79	175.52	3.50	3.50	0.00
945.63	28.37	293.64	912.90	78.85	-180.13	196.64	3.50	3.50	0.00
1,000.00	28.37	293.64	960.74	89.22	-203.80	222.47	0.00	0.00	0.00
1,100.00	28.37	293.64	1,048.73	108.27	-247.33	269.99	0.00	0.00	0.00
1,200.00	28.37	293.64	1,136.72	127.33	-290.87	317.51	0.00	0.00	0.00
1,300.00	28.37	293.64	1,224.71	146.38	-334.40	365.03	0.00	0.00	0.00
1,400.00	28.37	293.64	1,312.70	165.44	-377.93	412.55	0.00	0.00	0.00
1,500.00	28.37	293.64	1,400.68	184.50	-421.46	460.07	0.00	0.00	0.00
1,600.00	28.37	293.64	1,488.67	203.55	-464.99	507.59	0.00	0.00	0.00
1,700.00	28.37	293.64	1,576.66	222.61	-508.52	555.11	0.00	0.00	0.00
1,800.00	28.37	293.64	1,664.65	241.66	-552.05	602.63	0.00	0.00	0.00
1,900.00	28.37	293.64	1,752.64	260.72	-595.58	650.15	0.00	0.00	0.00
2,000.00	28.37	293.64	1,840.62	279.78	-639.12	697.67	0.00	0.00	0.00
2,100.00	28.37	293.64	1,928.61	298.83	-682.65	745.19	0.00	0.00	0.00
2,200.00	28.37	293.64	2,016.60	317.89	-726.18	792.71	0.00	0.00	0.00
2,300.00	28.37	293.64	2,104.59	336.94	-769.71	840.23	0.00	0.00	0.00
2,400.00	28.37	293.64	2,192.58	356.00	-813.24	887.75	0.00	0.00	0.00
2,500.00	28.37	293.64	2,280.56	375.06	-856.77	935.27	0.00	0.00	0.00
2,600.00	28.37	293.64	2,368.55	394.11	-900.30	982.79	0.00	0.00	0.00
2,700.00	28.37	293.64	2,456.54	413.17	-943.83	1,030.31	0.00	0.00	0.00
2,800.00	28.37	293.64	2,544.53	432.22	-987.36	1,077.83	0.00	0.00	0.00
2,900.00	28.37	293.64	2,632.52	451.28	-1,030.90	1,125.34	0.00	0.00	0.00
3,000.00	28.37	293.64	2,720.51	470.34	-1,074.43	1,172.86	0.00	0.00	0.00
3,100.00	28.37	293.64	2,808.49	489.39	-1,117.96	1,220.38	0.00	0.00	0.00
3,200.00	28.37	293.64	2,896.48	508.45	-1,161.49	1,267.90	0.00	0.00	0.00
3,300.00	28.37	293.64	2,984.47	527.50	-1,205.02	1,315.42	0.00	0.00	0.00
3,400.00	28.37	293.64	3,072.46	546.56	-1,248.55	1,362.94	0.00	0.00	0.00
3,468.81	28.37	293.64	3,133.00	559.67	-1,278.51	1,395.64	0.00	0.00	0.00
<b>Wasatch</b>									
3,500.00	28.37	293.64	3,160.45	565.62	-1,292.08	1,410.46	0.00	0.00	0.00
3,568.00	28.37	293.64	3,220.28	578.57	-1,321.68	1,442.77	0.00	0.00	0.00
<b>9 5/8" Surface @ 3568' MD</b>									
3,600.00	28.37	293.64	3,248.43	584.67	-1,335.61	1,457.98	0.00	0.00	0.00
3,700.00	28.37	293.64	3,336.42	603.73	-1,379.15	1,505.50	0.00	0.00	0.00
3,800.00	28.37	293.64	3,424.41	622.78	-1,422.68	1,553.02	0.00	0.00	0.00
3,900.00	28.37	293.64	3,512.40	641.84	-1,466.21	1,600.54	0.00	0.00	0.00
4,000.00	28.37	293.64	3,600.39	660.90	-1,509.74	1,648.06	0.00	0.00	0.00
4,100.00	28.37	293.64	3,688.37	679.95	-1,553.27	1,695.58	0.00	0.00	0.00
4,200.00	28.37	293.64	3,776.36	699.01	-1,596.80	1,743.10	0.00	0.00	0.00
4,300.00	28.37	293.64	3,864.35	718.06	-1,640.33	1,790.62	0.00	0.00	0.00
4,400.00	28.37	293.64	3,952.34	737.12	-1,683.86	1,838.14	0.00	0.00	0.00
4,500.00	28.37	293.64	4,040.33	756.18	-1,727.40	1,885.66	0.00	0.00	0.00
4,600.00	28.37	293.64	4,128.31	775.23	-1,770.93	1,933.18	0.00	0.00	0.00
4,700.00	28.37	293.64	4,216.30	794.29	-1,814.46	1,980.70	0.00	0.00	0.00

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well TR 411-28-597 - Slot B8
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 8481.4' & RKB 24' @ 8505.40usft
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 8481.4' & RKB 24' @ 8505.40usft
<b>Site:</b>	TR 32-28-597 Pad	<b>North Reference:</b>	True
<b>Well:</b>	TR 411-28-597	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 2May20117 jcsdi		

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)
4,757.62	28.37	293.64	4,267.00	805.27	-1,839.54	2,008.08	0.00	0.00	0.00
<b>Top G Sand</b>									
4,784.90	28.37	293.64	4,291.00	810.47	-1,851.41	2,021.04	0.00	0.00	0.00
<b>Base G Sand</b>									
4,800.00	28.37	293.64	4,304.29	813.35	-1,857.99	2,028.21	0.00	0.00	0.00
4,900.00	28.37	293.64	4,392.28	832.40	-1,901.52	2,075.73	0.00	0.00	0.00
4,961.06	28.37	293.64	4,446.00	844.04	-1,928.10	2,104.75	0.00	0.00	0.00
<b>Fort Union</b>									
4,993.64	28.37	293.64	4,474.67	850.24	-1,942.28	2,120.23	0.00	0.00	0.00
5,000.00	28.24	293.64	4,480.27	851.45	-1,945.05	2,123.25	2.00	-2.00	0.00
5,100.00	26.24	293.64	4,569.17	869.81	-1,986.98	2,169.02	2.00	-2.00	0.00
5,200.00	24.24	293.64	4,659.62	886.91	-2,026.05	2,211.67	2.00	-2.00	0.00
5,300.00	22.24	293.64	4,751.49	902.74	-2,062.20	2,251.14	2.00	-2.00	0.00
5,400.00	20.24	293.64	4,844.69	917.27	-2,095.39	2,287.37	2.00	-2.00	0.00
5,500.00	18.24	293.64	4,939.10	930.49	-2,125.59	2,320.33	2.00	-2.00	0.00
5,600.00	16.24	293.64	5,034.60	942.37	-2,152.74	2,349.97	2.00	-2.00	0.00
5,700.00	14.24	293.64	5,131.08	952.92	-2,176.83	2,376.26	2.00	-2.00	0.00
5,800.00	12.24	293.64	5,228.41	962.11	-2,197.81	2,399.17	2.00	-2.00	0.00
5,900.00	10.24	293.64	5,326.49	969.92	-2,215.68	2,418.67	2.00	-2.00	0.00
6,000.00	8.24	293.64	5,425.18	976.37	-2,230.39	2,434.74	2.00	-2.00	0.00
6,100.00	6.24	293.64	5,524.38	981.42	-2,241.95	2,447.35	2.00	-2.00	0.00
6,134.80	5.55	293.64	5,559.00	982.86	-2,245.22	2,450.92	2.00	-2.00	0.00
<b>Ohio Creek</b>									
6,200.00	4.24	293.64	5,623.96	985.09	-2,250.32	2,456.49	2.00	-2.00	0.00
6,300.00	2.24	293.64	5,723.79	987.36	-2,255.50	2,462.15	2.00	-2.00	0.00
6,400.00	0.24	293.64	5,823.76	988.23	-2,257.49	2,464.32	2.00	-2.00	0.00
6,412.24	0.00	0.00	5,836.00	988.24	-2,257.52	2,464.35	2.00	-2.00	0.00
<b>Mesaverde - TR 411-28-597 MVRD</b>									
6,500.00	0.00	0.00	5,923.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
6,600.00	0.00	0.00	6,023.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
6,700.00	0.00	0.00	6,123.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
6,800.00	0.00	0.00	6,223.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
6,900.00	0.00	0.00	6,323.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,000.00	0.00	0.00	6,423.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,042.24	0.00	0.00	6,466.00	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
<b>Top Gas</b>									
7,100.00	0.00	0.00	6,523.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,200.00	0.00	0.00	6,623.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,300.00	0.00	0.00	6,723.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,400.00	0.00	0.00	6,823.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,500.00	0.00	0.00	6,923.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,600.00	0.00	0.00	7,023.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,700.00	0.00	0.00	7,123.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,800.00	0.00	0.00	7,223.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
7,900.00	0.00	0.00	7,323.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,000.00	0.00	0.00	7,423.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,100.00	0.00	0.00	7,523.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,200.00	0.00	0.00	7,623.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,300.00	0.00	0.00	7,723.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,400.00	0.00	0.00	7,823.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,500.00	0.00	0.00	7,923.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,600.00	0.00	0.00	8,023.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,691.24	0.00	0.00	8,115.00	988.24	-2,257.52	2,464.35	0.00	0.00	0.00

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well TR 411-28-597 - Slot B8
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 8481.4' & RKB 24' @ 8505.40usft
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 8481.4' & RKB 24' @ 8505.40usft
<b>Site:</b>	TR 32-28-597 Pad	<b>North Reference:</b>	True
<b>Well:</b>	TR 411-28-597	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 2May20117 jcsdi		

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)
<b>Cameo Coals</b>									
8,700.00	0.00	0.00	8,123.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,800.00	0.00	0.00	8,223.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
8,900.00	0.00	0.00	8,323.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,000.00	0.00	0.00	8,423.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,100.00	0.00	0.00	8,523.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,121.24	0.00	0.00	8,545.00	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
<b>Rollins Ss</b>									
9,200.00	0.00	0.00	8,623.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,300.00	0.00	0.00	8,723.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,308.24	0.00	0.00	8,732.00	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
<b>Cozzette</b>									
9,400.00	0.00	0.00	8,823.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,500.00	0.00	0.00	8,923.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,536.24	0.00	0.00	8,960.00	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
<b>Corcoran</b>									
9,600.00	0.00	0.00	9,023.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,700.00	0.00	0.00	9,123.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,702.24	0.00	0.00	9,126.00	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
<b>Sego</b>									
9,800.00	0.00	0.00	9,223.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
9,900.00	0.00	0.00	9,323.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
10,000.00	0.00	0.00	9,423.76	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
10,002.24	0.00	0.00	9,426.00	988.24	-2,257.52	2,464.35	0.00	0.00	0.00
<b>TD - TR 411-28-597 PBHL</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									
TR 411-28-597 MVRD	0.00	0.00	5,836.00	988.24	-2,257.52	1,651,780.50	2,213,816.00	39.5897834	-108.2900617
- plan hits target center									
- Circle (radius 50.00)									
TR 411-28-597 PBHL	0.00	0.00	9,426.00	988.24	-2,257.52	1,651,780.50	2,213,816.00	39.5897834	-108.2900617
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
3,568.00	3,220.28	9 5/8" Surface @ 3568' MD	9.62	9.62	

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<b>Site:</b>	TR 32-28-597 Pad	<b>North Reference:</b>	True
<b>Well:</b>	TR 411-28-597	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 2May20117 jcsdi		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,468.81	2,031.40	Wasatch		0.00	0.00	
4,757.62	3,165.40	Top G Sand		0.00	0.00	
4,784.90	3,189.40	Base G Sand		0.00	0.00	
4,961.06	3,344.40	Fort Union		0.00	0.00	
6,134.80	4,457.40	Ohio Creek		0.00	0.00	
6,412.24	4,734.40	Mesaverde		0.00	0.00	
7,042.24	5,364.40	Top Gas		0.00	0.00	
8,691.24	7,013.40	Cameo Coals		0.00	0.00	
9,121.24	7,443.40	Rollins Ss		0.00	0.00	
9,308.24	7,630.40	Cozzette		0.00	0.00	
9,536.24	7,858.40	Corcoran		0.00	0.00	
9,702.24	8,024.40	Sego		0.00	0.00	
10,002.24	8,324.40	TD		0.00	0.00	