

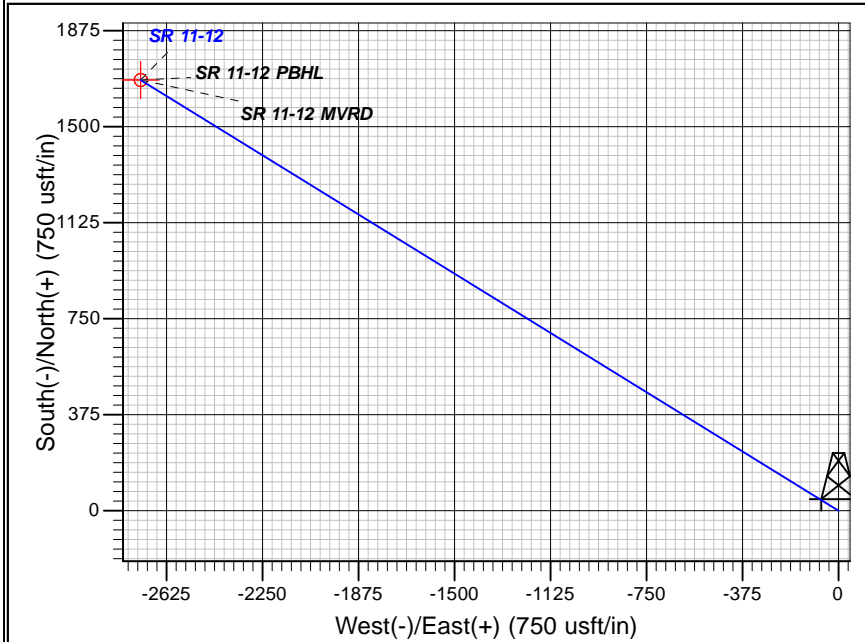
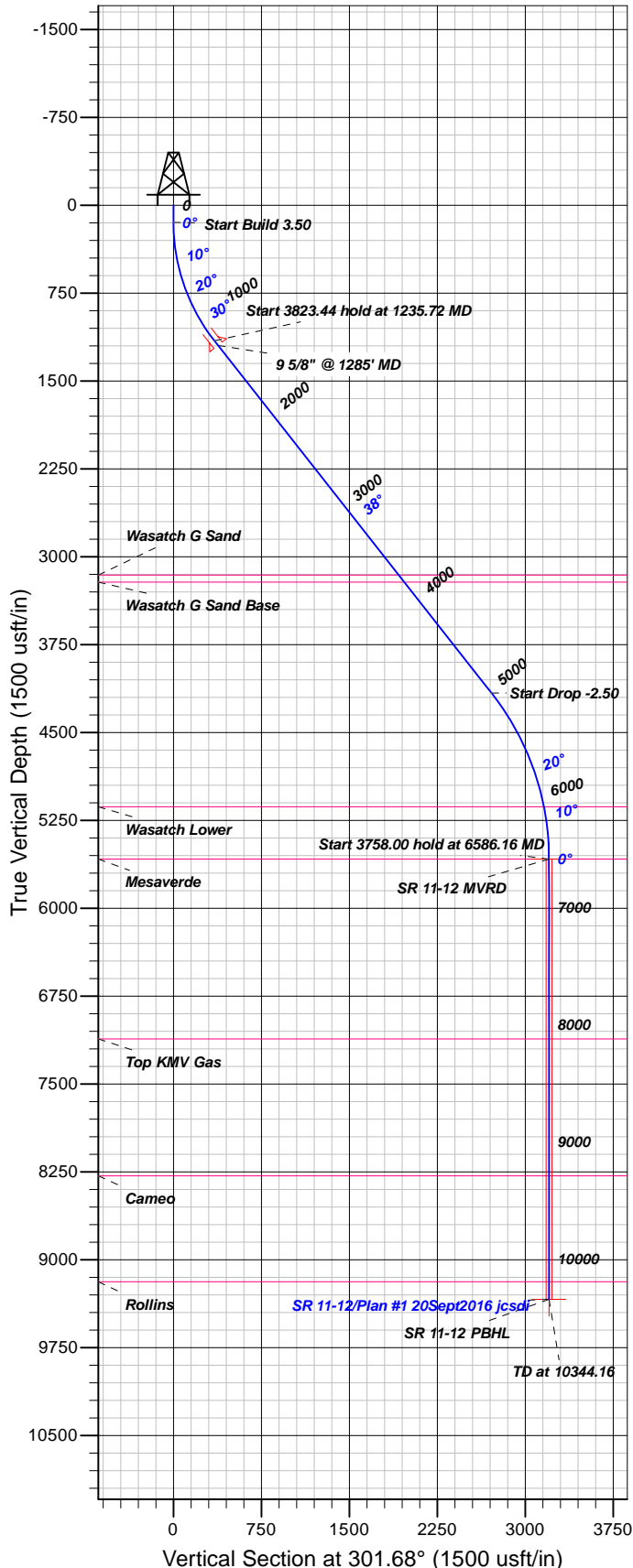
## Well Details: SR 11-12

GL 7254' & RKB 24' @ 7278.00usft (H&P 318)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1599238.70	2341053.40	39.4554409	-107.8339421	A3

**T M** Azimuths to True North  
Magnetic North: 9.60°

Magnetic Field  
Strength: 51598.4snT  
Dip Angle: 65.62°  
Date: 9/19/2016  
Model: BGGM2016



### FORMATION TOP DETAILS

TVDP	MD	Formation
3156.00	3778.84	Wasatch G Sand
3216.00	3855.16	Wasatch G Sand Base
5132.00	6136.28	Wasatch Lower
5579.00	6586.16	Mesaverde
7114.00	8121.16	Top KMV Gas
8283.00	9290.16	Cameo
9187.00	10194.16	Rollins

Plan: Plan #1 20Sept2016 jcsdi

12:53, September 20 2016  
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
1195.53	1285.00	9 5/8" @ 1285' 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	145.00	0.00	0.00	145.00	0.00	0.00	0.00	0.00	0.00	
3	1235.72	38.18	301.68	1156.79	183.87	-297.95	3.50	301.68	350.12	
4	5059.16	38.18	301.68	4162.50	1424.91	-2308.99	0.00	0.002713.26		
5	6586.16	0.00	0.00	5579.00	1682.33	-2726.12	2.50	180.003203.42		SR 11-12 MVRD
6	10344.16	0.00	0.00	9337.00	1682.33	-2726.12	0.00	0.003203.42		SR 11-12 PBHL

### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SR 11-12 MVRD	5579.00	1682.33	-2726.12	1600990.50	2338371.40	39.4600593	-107.8435974	Circle (Radius: 25.00)
- plan hits target center								
SR 11-12 PBHL	9337.00	1682.33	-2726.12	1600990.50	2338371.40	39.4600593	-107.8435974	Point
- plan hits target center								



# **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**RU 32-12 Pad**

**SR 11-12 - Slot A3**

**OH**

**Plan: Plan #1 20Sept2016 jcsdi**

## **Standard Planning Report**

**20 September, 2016**



<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well SR 11-12 - Slot A3
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 7254' & RKB 24' @ 7278.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7254' & RKB 24' @ 7278.00usft (H&P 318)
<b>Site:</b>	RU 32-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SR 11-12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 20Sept2016 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		

Site		RU 32-12 Pad			
Site Position:		Northing:	1,599,253.30 usft	Latitude:	39.4554808
From:	Map	Easting:	2,341,050.00 usft	Longitude:	-107.8339555
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-1.47 °

Well	SR 11-12 - Slot A3					
Well Position	+N/-S	-14.51 usft	Northing:	1,599,238.70 usft	Latitude:	39.4554409
	+E/-W	3.77 usft	Easting:	2,341,053.40 usft	Longitude:	-107.8339421
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	7,254.00 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>
	BGGM2016	9/19/2016	9.60	65.62	51,598

<b>Design</b>	Plan #1 20Sept2016 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	301.68

<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	
145.00	0.00	0.00	145.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,235.72	38.18	301.68	1,156.79	183.87	-297.95	3.50	3.50	0.00	301.68	
5,059.16	38.18	301.68	4,162.50	1,424.91	-2,308.99	0.00	0.00	0.00	0.00	
6,586.16	0.00	0.00	5,579.00	1,682.33	-2,726.12	2.50	-2.50	0.00	180.00	SR 11-12 MVRD
10,344.16	0.00	0.00	9,337.00	1,682.33	-2,726.12	0.00	0.00	0.00	0.00	SR 11-12 PBHL

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well SR 11-12 - Slot A3
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 7254' & RKB 24' @ 7278.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7254' & RKB 24' @ 7278.00usft (H&P 318)
<b>Site:</b>	RU 32-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SR 11-12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 20Sept2016 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	
145.00	0.00	0.00	145.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	1.93	301.68	199.99	0.49	-0.79	0.92	3.50	3.50	0.00	
300.00	5.43	301.68	299.77	3.85	-6.24	7.33	3.50	3.50	0.00	
400.00	8.93	301.68	398.97	10.41	-16.87	19.82	3.50	3.50	0.00	
500.00	12.43	301.68	497.22	20.14	-32.63	38.34	3.50	3.50	0.00	
600.00	15.93	301.68	594.16	32.99	-53.47	62.83	3.50	3.50	0.00	
700.00	19.43	301.68	689.43	48.94	-79.30	93.18	3.50	3.50	0.00	
800.00	22.93	301.68	782.66	67.90	-110.03	129.30	3.50	3.50	0.00	
900.00	26.43	301.68	873.52	89.82	-145.56	171.04	3.50	3.50	0.00	
1,000.00	29.93	301.68	961.65	114.62	-185.73	218.25	3.50	3.50	0.00	
1,100.00	33.43	301.68	1,046.75	142.19	-230.41	270.75	3.50	3.50	0.00	
1,200.00	36.93	301.68	1,128.47	172.44	-279.43	328.35	3.50	3.50	0.00	
1,235.72	38.18	301.68	1,156.79	183.87	-297.95	350.12	3.50	3.50	0.00	
1,285.00	38.18	301.68	1,195.53	199.87	-323.87	380.58	0.00	0.00	0.00	
<b>9 5/8" @ 1285' MD</b>										
1,300.00	38.18	301.68	1,207.32	204.73	-331.76	389.85	0.00	0.00	0.00	
1,400.00	38.18	301.68	1,285.94	237.19	-384.36	451.65	0.00	0.00	0.00	
1,500.00	38.18	301.68	1,364.55	269.65	-436.96	513.46	0.00	0.00	0.00	
1,600.00	38.18	301.68	1,443.16	302.11	-489.55	575.27	0.00	0.00	0.00	
1,700.00	38.18	301.68	1,521.77	334.57	-542.15	637.08	0.00	0.00	0.00	
1,800.00	38.18	301.68	1,600.39	367.03	-594.75	698.88	0.00	0.00	0.00	
1,900.00	38.18	301.68	1,679.00	399.49	-647.35	760.69	0.00	0.00	0.00	
2,000.00	38.18	301.68	1,757.61	431.95	-699.94	822.50	0.00	0.00	0.00	
2,100.00	38.18	301.68	1,836.22	464.40	-752.54	884.30	0.00	0.00	0.00	
2,200.00	38.18	301.68	1,914.84	496.86	-805.14	946.11	0.00	0.00	0.00	
2,300.00	38.18	301.68	1,993.45	529.32	-857.74	1,007.92	0.00	0.00	0.00	
2,400.00	38.18	301.68	2,072.06	561.78	-910.33	1,069.72	0.00	0.00	0.00	
2,500.00	38.18	301.68	2,150.67	594.24	-962.93	1,131.53	0.00	0.00	0.00	
2,600.00	38.18	301.68	2,229.29	626.70	-1,015.53	1,193.34	0.00	0.00	0.00	
2,700.00	38.18	301.68	2,307.90	659.16	-1,068.13	1,255.14	0.00	0.00	0.00	
2,800.00	38.18	301.68	2,386.51	691.62	-1,120.72	1,316.95	0.00	0.00	0.00	
2,900.00	38.18	301.68	2,465.12	724.07	-1,173.32	1,378.76	0.00	0.00	0.00	
3,000.00	38.18	301.68	2,543.74	756.53	-1,225.92	1,440.56	0.00	0.00	0.00	
3,100.00	38.18	301.68	2,622.35	788.99	-1,278.52	1,502.37	0.00	0.00	0.00	
3,200.00	38.18	301.68	2,700.96	821.45	-1,331.11	1,564.18	0.00	0.00	0.00	
3,300.00	38.18	301.68	2,779.57	853.91	-1,383.71	1,625.98	0.00	0.00	0.00	
3,400.00	38.18	301.68	2,858.19	886.37	-1,436.31	1,687.79	0.00	0.00	0.00	
3,500.00	38.18	301.68	2,936.80	918.83	-1,488.91	1,749.60	0.00	0.00	0.00	
3,600.00	38.18	301.68	3,015.41	951.28	-1,541.50	1,811.40	0.00	0.00	0.00	
3,700.00	38.18	301.68	3,094.02	983.74	-1,594.10	1,873.21	0.00	0.00	0.00	
3,778.84	38.18	301.68	3,156.00	1,009.33	-1,635.57	1,921.93	0.00	0.00	0.00	
<b>Wasatch G Sand</b>										
3,800.00	38.18	301.68	3,172.64	1,016.20	-1,646.70	1,935.02	0.00	0.00	0.00	
3,855.16	38.18	301.68	3,216.00	1,034.11	-1,675.71	1,969.11	0.00	0.00	0.00	
<b>Wasatch G Sand Base</b>										
3,900.00	38.18	301.68	3,251.25	1,048.66	-1,699.30	1,996.82	0.00	0.00	0.00	
4,000.00	38.18	301.68	3,329.86	1,081.12	-1,751.89	2,058.63	0.00	0.00	0.00	
4,100.00	38.18	301.68	3,408.48	1,113.58	-1,804.49	2,120.44	0.00	0.00	0.00	
4,200.00	38.18	301.68	3,487.09	1,146.04	-1,857.09	2,182.24	0.00	0.00	0.00	
4,300.00	38.18	301.68	3,565.70	1,178.50	-1,909.69	2,244.05	0.00	0.00	0.00	

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well SR 11-12 - Slot A3
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<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7254' & RKB 24' @ 7278.00usft (H&P 318)
<b>Site:</b>	RU 32-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SR 11-12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 20Sept2016 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)
4,400.00	38.18	301.68	3,644.31	1,210.95	-1,962.28	2,305.86	0.00	0.00	0.00
4,500.00	38.18	301.68	3,722.93	1,243.41	-2,014.88	2,367.66	0.00	0.00	0.00
4,600.00	38.18	301.68	3,801.54	1,275.87	-2,067.48	2,429.47	0.00	0.00	0.00
4,700.00	38.18	301.68	3,880.15	1,308.33	-2,120.08	2,491.28	0.00	0.00	0.00
4,800.00	38.18	301.68	3,958.76	1,340.79	-2,172.67	2,553.08	0.00	0.00	0.00
4,900.00	38.18	301.68	4,037.38	1,373.25	-2,225.27	2,614.89	0.00	0.00	0.00
5,000.00	38.18	301.68	4,115.99	1,405.71	-2,277.87	2,676.70	0.00	0.00	0.00
5,059.16	38.18	301.68	4,162.50	1,424.91	-2,308.99	2,713.26	0.00	0.00	0.00
5,100.00	37.15	301.68	4,194.82	1,438.01	-2,330.22	2,738.21	2.50	-2.50	0.00
5,200.00	34.65	301.68	4,275.82	1,468.81	-2,380.12	2,796.85	2.50	-2.50	0.00
5,300.00	32.15	301.68	4,359.29	1,497.72	-2,426.97	2,851.90	2.50	-2.50	0.00
5,400.00	29.65	301.68	4,445.09	1,524.69	-2,470.67	2,903.26	2.50	-2.50	0.00
5,500.00	27.15	301.68	4,533.04	1,549.67	-2,511.15	2,950.82	2.50	-2.50	0.00
5,600.00	24.65	301.68	4,622.99	1,572.61	-2,548.33	2,994.51	2.50	-2.50	0.00
5,700.00	22.15	301.68	4,714.75	1,593.47	-2,582.13	3,034.23	2.50	-2.50	0.00
5,800.00	19.65	301.68	4,808.16	1,612.21	-2,612.49	3,069.90	2.50	-2.50	0.00
5,900.00	17.15	301.68	4,903.04	1,628.78	-2,639.35	3,101.47	2.50	-2.50	0.00
6,000.00	14.65	301.68	4,999.21	1,643.17	-2,662.67	3,128.87	2.50	-2.50	0.00
6,100.00	12.15	301.68	5,096.47	1,655.35	-2,682.40	3,152.05	2.50	-2.50	0.00
6,136.28	11.25	301.68	5,132.00	1,659.21	-2,688.66	3,159.41	2.50	-2.50	0.00
<b>Wasatch Lower</b>									
6,200.00	9.65	301.68	5,194.66	1,665.28	-2,698.50	3,170.97	2.50	-2.50	0.00
6,300.00	7.15	301.68	5,293.58	1,672.96	-2,710.93	3,185.58	2.50	-2.50	0.00
6,400.00	4.65	301.68	5,393.04	1,678.36	-2,719.68	3,195.87	2.50	-2.50	0.00
6,500.00	2.15	301.68	5,492.86	1,681.48	-2,724.74	3,201.80	2.50	-2.50	0.00
6,586.16	0.00	0.00	5,579.00	1,682.33	-2,726.12	3,203.42	2.50	-2.50	0.00
<b>Mesaverde - SR 11-12 MVRD</b>									
6,600.00	0.00	0.00	5,592.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
6,700.00	0.00	0.00	5,692.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
6,800.00	0.00	0.00	5,792.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
6,900.00	0.00	0.00	5,892.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,000.00	0.00	0.00	5,992.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,100.00	0.00	0.00	6,092.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,200.00	0.00	0.00	6,192.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,300.00	0.00	0.00	6,292.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,400.00	0.00	0.00	6,392.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,500.00	0.00	0.00	6,492.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,600.00	0.00	0.00	6,592.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,700.00	0.00	0.00	6,692.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,800.00	0.00	0.00	6,792.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
7,900.00	0.00	0.00	6,892.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
8,000.00	0.00	0.00	6,992.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
8,100.00	0.00	0.00	7,092.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
8,121.16	0.00	0.00	7,114.00	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
<b>Top KMV Gas</b>									
8,200.00	0.00	0.00	7,192.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
8,300.00	0.00	0.00	7,292.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
8,400.00	0.00	0.00	7,392.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
8,500.00	0.00	0.00	7,492.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
8,600.00	0.00	0.00	7,592.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00
8,700.00	0.00	0.00	7,692.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well SR 11-12 - Slot A3
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 7254' & RKB 24' @ 7278.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7254' & RKB 24' @ 7278.00usft (H&P 318)
<b>Site:</b>	RU 32-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SR 11-12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 20Sept2016 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)	
8,800.00	0.00	0.00	7,792.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
8,900.00	0.00	0.00	7,892.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,000.00	0.00	0.00	7,992.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,092.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,200.00	0.00	0.00	8,192.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,290.16	0.00	0.00	8,283.00	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
Cameo										
9,300.00	0.00	0.00	8,292.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,400.00	0.00	0.00	8,392.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,500.00	0.00	0.00	8,492.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,600.00	0.00	0.00	8,592.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,700.00	0.00	0.00	8,692.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,800.00	0.00	0.00	8,792.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
9,900.00	0.00	0.00	8,892.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
10,000.00	0.00	0.00	8,992.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,092.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
10,194.16	0.00	0.00	9,187.00	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
Rollins										
10,200.00	0.00	0.00	9,192.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
10,300.00	0.00	0.00	9,292.84	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
10,344.16	0.00	0.00	9,337.00	1,682.33	-2,726.12	3,203.42	0.00	0.00	0.00	
SR 11-12 PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SR 11-12 MVRD - hit/miss target - Shape	0.00	0.00	5,579.00	1,682.33	-2,726.12	1,600,990.50	2,338,371.40	39.4600593	-107.8435974	
SR 11-12 PBHL - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,337.00	1,682.33	-2,726.12	1,600,990.50	2,338,371.40	39.4600593	-107.8435974	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)		
1,285.00	1,195.53	9 5/8" @ 1285' MD	9.62	9.62		

<b>Database:</b>	Grand Junction District	<b>Local Co-ordinate Reference:</b>	Well SR 11-12 - Slot A3
<b>Company:</b>	TEP Rocky Mountain LLC	<b>TVD Reference:</b>	GL 7254' & RKB 24' @ 7278.00usft (H&P 318)
<b>Project:</b>	Garfield County, CO NAD83	<b>MD Reference:</b>	GL 7254' & RKB 24' @ 7278.00usft (H&P 318)
<b>Site:</b>	RU 32-12 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SR 11-12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1 20Sept2016 jcsdi		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,778.84	3,156.00	Wasatch G Sand		0.00	0.00
3,855.16	3,216.00	Wasatch G Sand Base		0.00	0.00
6,136.28	5,132.00	Wasatch Lower		0.00	0.00
6,586.16	5,579.00	Mesaverde		0.00	0.00
8,121.16	7,114.00	Top KMV Gas		0.00	0.00
9,290.16	8,283.00	Cameo		0.00	0.00
10,194.16	9,187.00	Rollins		0.00	0.00