



Company: TEP Rocky Mountain LLC
Project: Garfield County, CO NAD83
Site: RG 41-18-297 Pad
Well: Federal RG 344-7-297

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

Plan: Plan #1 16March2020 SB-SDI

Well Details: Federal RG 344-7-297

+N/-S +E/-W Northing Easting Longitude
0.00 0.00 1758389.4000 2207926.7000 39.8818098 -108.3227004 Federal RG 344-7-297

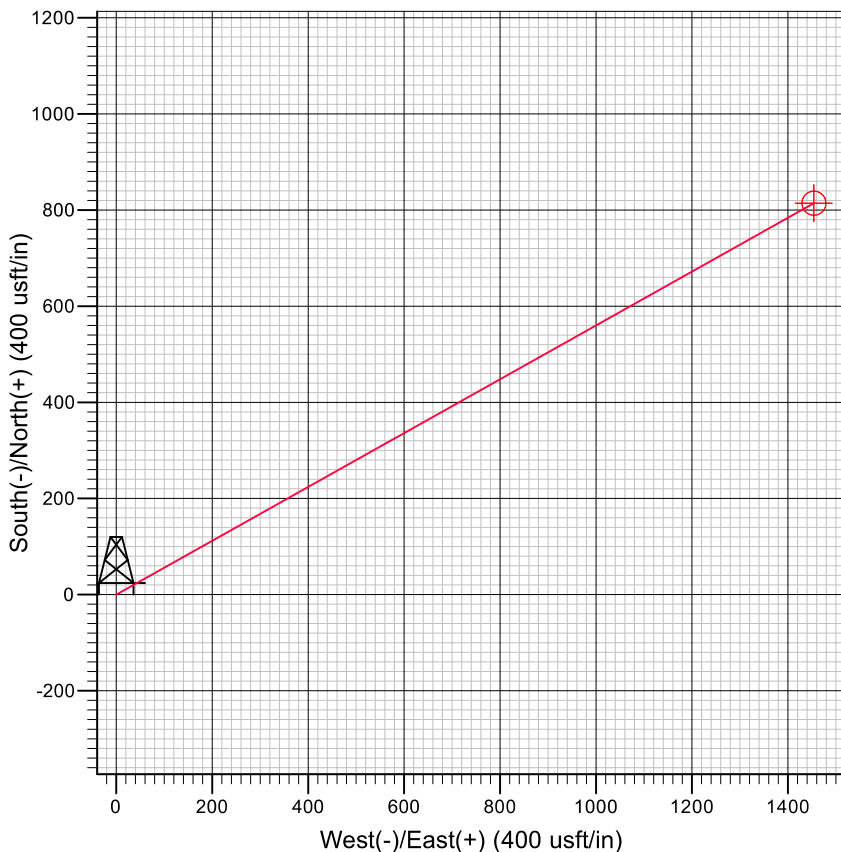
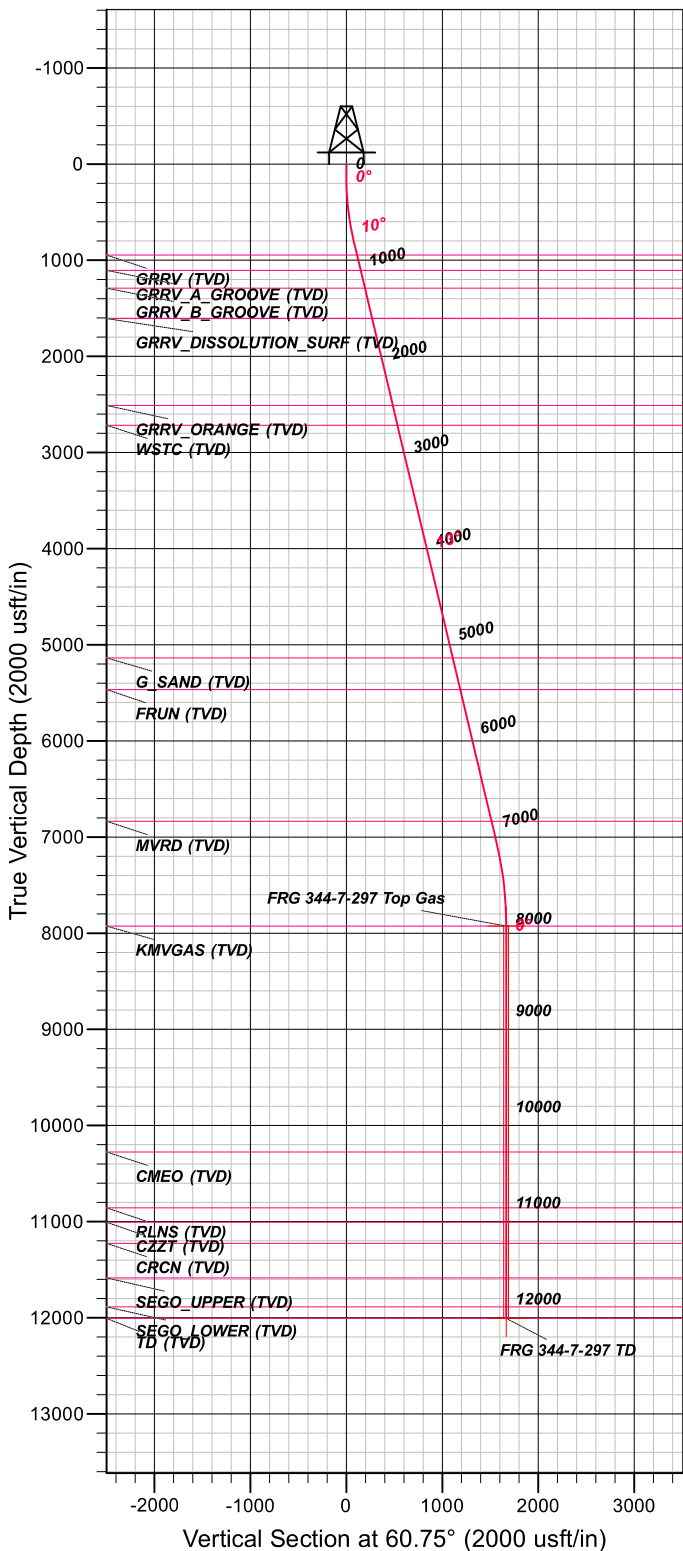


Azimuths to True North
Magnetic North: 9.28°

Magnetic Field
Strength: 51352.9nT
Dip Angle: 65.83°
Date: 3/16/2020
Model: HDGM_FILE

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
FRG 344-7-297 Top Gas	7925.00	814.26	1454.01	1759158.1000	2209405.3000	39.8840449	-108.3175195	Circle (Radius: 25.00)
- plan hits target center								
FRG 344-7-297 TD	12005.00	814.26	1454.01	1759158.1000	2209405.3000	39.8840449	-108.3175195	Point
- plan hits target center								



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
945.00	955.17	GRRV (TVD)
1105.00	1119.63	GRRV_A GROOVE (TVD)
1290.00	1309.79	GRRV_B GROOVE (TVD)
1605.00	1633.58	GRRV DISSOLUTION SURF (TVD)
2510.00	2563.83	GRRV_ORANGE (TVD)
2715.00	2774.55	WSTC (TVD)
5135.00	5262.07	G SAND (TVD)
5465.00	5601.28	FRUN (TVD)
6835.00	7009.51	MVRD (TVD)
7925.00	8113.34	KMVGAS (TVD)
10275.00	10463.34	CMEO (TVD)
10855.00	11043.34	RLNS (TVD)
11005.00	11193.34	CZZT (TVD)
11225.00	11413.34	CRCN (TVD)
11585.00	11773.34	SEGO_UPPER (TVD)
11885.00	12073.34	SEGO_LOWER (TVD)
12005.00	12193.34	TD (TVD)

CASING DETAILS

TVD	MD	Name	Size
3135.00	3206.27	Surface Casing	0.00

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
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
804.01	13.38	60.75	797.94	38.00	67.85	2.00	60.75	77.76
7221.33	13.38	60.75	7041.08	763.60	1363.54	0.00	0.00	1562.80
8113.34	0.00	0.00	7925.00	814.26	1454.01	1.50	180.00	1666.48
12193.34	0.00	0.00	12005.00	814.26	1454.01	0.00	0.00	1666.48

TEP Rocky Mountain LLC

Garfield County, CO NAD83

RG 41-18-297 Pad

Federal RG 344-7-297 - Slot Federal RG 344-7-297

OH

Plan: Plan #1 16March2020 SB-SDI

Standard Planning Report

30 March, 2020



Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 344-7-297 - Slot Federal RG 344-7-297
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6620.9' & KB 24' @ 6644.90usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 6620.9' & KB 24' @ 6644.90usft (H&P 318)
Site:	RG 41-18-297 Pad	North Reference:	True
Well:	Federal RG 344-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 16March2020 SB-SDI		

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	RG 41-18-297 Pad, Site Center : Federal RG 341-18-297			
Site Position:		Northing:	1,758,382.6564 usft	Latitude: 39.8817910
From:	Lat/Long	Easting:	2,207,923.2396 usft	Longitude: -108.3227120
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence: -1.78 °

Well	Federal RG 344-7-297 - Slot Federal RG 344-7-297, 661' FNL 2094' FEL Sec 18 T2S R97W			
Well Position	+N/-S	6.85 usft	Northing:	1,758,389.4000 usft
	+E/-W	3.25 usft	Easting:	2,207,926.7000 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	
			Ground Level:	6,620.90 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	3/16/2020	9.28	65.83	51,352.90000000

Design	Plan #1 16March2020 SB-SDI			
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	60.75

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	
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
804.01	13.38	60.75	797.94	38.00	67.85	2.00	2.00	0.00	60.75	
7,221.33	13.38	60.75	7,041.08	763.60	1,363.54	0.00	0.00	0.00	0.00	
8,113.34	0.00	0.00	7,925.00	814.26	1,454.01	1.50	-1.50	0.00	180.00	FRG 344-7-297 Top C
12,193.34	0.00	0.00	12,005.00	814.26	1,454.01	0.00	0.00	0.00	0.00	FRG 344-7-297 TD

Scientific Drilling, Intl

Planning Report

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Project:	Garfield County, CO NAD83	MD Reference:	GL 6620.9' & KB 24' @ 6644.90usft (H&P 318)
Site:	RG 41-18-297 Pad	North Reference:	True
Well:	Federal RG 344-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 16March2020 SB-SDI		

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
Start Build 2.00									
200.00	1.30	60.75	199.99	0.36	0.64	0.74	2.00	2.00	0.00
300.00	3.30	60.75	299.91	2.32	4.14	4.75	2.00	2.00	0.00
400.00	5.30	60.75	399.62	5.98	10.69	12.25	2.00	2.00	0.00
500.00	7.30	60.75	499.01	11.35	20.26	23.22	2.00	2.00	0.00
600.00	9.30	60.75	597.96	18.40	32.85	37.66	2.00	2.00	0.00
700.00	11.30	60.75	696.34	27.14	48.45	55.53	2.00	2.00	0.00
800.00	13.30	60.75	794.04	37.54	67.04	76.84	2.00	2.00	0.00
804.01	13.38	60.75	797.94	38.00	67.85	77.76	2.00	2.00	0.00
Start 6417.32 hold at 804.01 MD									
900.00	13.38	60.75	891.33	48.85	87.23	99.98	0.00	0.00	0.00
955.17	13.38	60.75	945.00	55.09	98.37	112.74	0.00	0.00	0.00
GRRV (TVD)									
1,000.00	13.38	60.75	988.62	60.16	107.42	123.12	0.00	0.00	0.00
1,100.00	13.38	60.75	1,085.90	71.46	127.61	146.26	0.00	0.00	0.00
1,119.63	13.38	60.75	1,105.00	73.68	131.57	150.80	0.00	0.00	0.00
GRRV_A_GROOVE (TVD)									
1,200.00	13.38	60.75	1,183.19	82.77	147.80	169.40	0.00	0.00	0.00
1,300.00	13.38	60.75	1,280.47	94.08	167.99	192.54	0.00	0.00	0.00
1,309.79	13.38	60.75	1,290.00	95.18	169.97	194.81	0.00	0.00	0.00
GRRV_B_GROOVE (TVD)									
1,400.00	13.38	60.75	1,377.76	105.38	188.18	215.68	0.00	0.00	0.00
1,500.00	13.38	60.75	1,475.04	116.69	208.37	238.82	0.00	0.00	0.00
1,600.00	13.38	60.75	1,572.33	128.00	228.56	261.96	0.00	0.00	0.00
1,633.58	13.38	60.75	1,605.00	131.80	235.34	269.73	0.00	0.00	0.00
GRRV DISSOLUTION_SURF (TVD)									
1,700.00	13.38	60.75	1,669.62	139.31	248.75	285.10	0.00	0.00	0.00
1,800.00	13.38	60.75	1,766.90	150.61	268.94	308.24	0.00	0.00	0.00
1,900.00	13.38	60.75	1,864.19	161.92	289.13	331.39	0.00	0.00	0.00
2,000.00	13.38	60.75	1,961.47	173.23	309.33	354.53	0.00	0.00	0.00
2,100.00	13.38	60.75	2,058.76	184.53	329.52	377.67	0.00	0.00	0.00
2,200.00	13.38	60.75	2,156.04	195.84	349.71	400.81	0.00	0.00	0.00
2,300.00	13.38	60.75	2,253.33	207.15	369.90	423.95	0.00	0.00	0.00
2,400.00	13.38	60.75	2,350.61	218.45	390.09	447.09	0.00	0.00	0.00
2,500.00	13.38	60.75	2,447.90	229.76	410.28	470.23	0.00	0.00	0.00
2,563.83	13.38	60.75	2,510.00	236.98	423.17	485.00	0.00	0.00	0.00
GRRV_ORANGE (TVD)									
2,600.00	13.38	60.75	2,545.19	241.07	430.47	493.37	0.00	0.00	0.00
2,700.00	13.38	60.75	2,642.47	252.38	450.66	516.51	0.00	0.00	0.00
2,774.55	13.38	60.75	2,715.00	260.81	465.71	533.77	0.00	0.00	0.00
WSTC (TVD)									
2,800.00	13.38	60.75	2,739.76	263.68	470.85	539.66	0.00	0.00	0.00
2,900.00	13.38	60.75	2,837.04	274.99	491.04	562.80	0.00	0.00	0.00
3,000.00	13.38	60.75	2,934.33	286.30	511.23	585.94	0.00	0.00	0.00
3,100.00	13.38	60.75	3,031.61	297.60	531.42	609.08	0.00	0.00	0.00
3,200.00	13.38	60.75	3,128.90	308.91	551.61	632.22	0.00	0.00	0.00
3,206.27	13.38	60.75	3,135.00	309.62	552.88	633.67	0.00	0.00	0.00

Scientific Drilling, Intl

Planning Report

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Site:	RG 41-18-297 Pad	North Reference:	True
Well:	Federal RG 344-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 16March2020 SB-SDI		

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)
Surface Casing									
3,300.00	13.38	60.75	3,226.19	320.22	571.80	655.36	0.00	0.00	0.00
3,400.00	13.38	60.75	3,323.47	331.52	591.99	678.50	0.00	0.00	0.00
3,500.00	13.38	60.75	3,420.76	342.83	612.18	701.64	0.00	0.00	0.00
3,600.00	13.38	60.75	3,518.04	354.14	632.37	724.78	0.00	0.00	0.00
3,700.00	13.38	60.75	3,615.33	365.45	652.57	747.93	0.00	0.00	0.00
3,800.00	13.38	60.75	3,712.61	376.75	672.76	771.07	0.00	0.00	0.00
3,900.00	13.38	60.75	3,809.90	388.06	692.95	794.21	0.00	0.00	0.00
4,000.00	13.38	60.75	3,907.18	399.37	713.14	817.35	0.00	0.00	0.00
4,100.00	13.38	60.75	4,004.47	410.67	733.33	840.49	0.00	0.00	0.00
4,200.00	13.38	60.75	4,101.76	421.98	753.52	863.63	0.00	0.00	0.00
4,300.00	13.38	60.75	4,199.04	433.29	773.71	886.77	0.00	0.00	0.00
4,400.00	13.38	60.75	4,296.33	444.59	793.90	909.91	0.00	0.00	0.00
4,500.00	13.38	60.75	4,393.61	455.90	814.09	933.05	0.00	0.00	0.00
4,600.00	13.38	60.75	4,490.90	467.21	834.28	956.19	0.00	0.00	0.00
4,700.00	13.38	60.75	4,588.18	478.52	854.47	979.34	0.00	0.00	0.00
4,800.00	13.38	60.75	4,685.47	489.82	874.66	1,002.48	0.00	0.00	0.00
4,900.00	13.38	60.75	4,782.75	501.13	894.85	1,025.62	0.00	0.00	0.00
5,000.00	13.38	60.75	4,880.04	512.44	915.04	1,048.76	0.00	0.00	0.00
5,100.00	13.38	60.75	4,977.33	523.74	935.23	1,071.90	0.00	0.00	0.00
5,200.00	13.38	60.75	5,074.61	535.05	955.42	1,095.04	0.00	0.00	0.00
5,262.07	13.38	60.75	5,135.00	542.07	967.96	1,109.41	0.00	0.00	0.00
G_SAND (TVD)									
5,300.00	13.38	60.75	5,171.90	546.36	975.61	1,118.18	0.00	0.00	0.00
5,400.00	13.38	60.75	5,269.18	557.66	995.81	1,141.32	0.00	0.00	0.00
5,500.00	13.38	60.75	5,366.47	568.97	1,016.00	1,164.46	0.00	0.00	0.00
5,600.00	13.38	60.75	5,463.75	580.28	1,036.19	1,187.61	0.00	0.00	0.00
5,601.28	13.38	60.75	5,465.00	580.42	1,036.45	1,187.90	0.00	0.00	0.00
FRUN (TVD)									
5,700.00	13.38	60.75	5,561.04	591.59	1,056.38	1,210.75	0.00	0.00	0.00
5,800.00	13.38	60.75	5,658.33	602.89	1,076.57	1,233.89	0.00	0.00	0.00
5,900.00	13.38	60.75	5,755.61	614.20	1,096.76	1,257.03	0.00	0.00	0.00
6,000.00	13.38	60.75	5,852.90	625.51	1,116.95	1,280.17	0.00	0.00	0.00
6,100.00	13.38	60.75	5,950.18	636.81	1,137.14	1,303.31	0.00	0.00	0.00
6,200.00	13.38	60.75	6,047.47	648.12	1,157.33	1,326.45	0.00	0.00	0.00
6,300.00	13.38	60.75	6,144.75	659.43	1,177.52	1,349.59	0.00	0.00	0.00
6,400.00	13.38	60.75	6,242.04	670.74	1,197.71	1,372.73	0.00	0.00	0.00
6,500.00	13.38	60.75	6,339.32	682.04	1,217.90	1,395.88	0.00	0.00	0.00
6,600.00	13.38	60.75	6,436.61	693.35	1,238.09	1,419.02	0.00	0.00	0.00
6,700.00	13.38	60.75	6,533.90	704.66	1,258.28	1,442.16	0.00	0.00	0.00
6,800.00	13.38	60.75	6,631.18	715.96	1,278.47	1,465.30	0.00	0.00	0.00
6,900.00	13.38	60.75	6,728.47	727.27	1,298.66	1,488.44	0.00	0.00	0.00
7,000.00	13.38	60.75	6,825.75	738.58	1,318.86	1,511.58	0.00	0.00	0.00
7,009.51	13.38	60.75	6,835.00	739.65	1,320.77	1,513.78	0.00	0.00	0.00
MVRD (TVD)									
7,100.00	13.38	60.75	6,923.04	749.88	1,339.05	1,534.72	0.00	0.00	0.00
7,200.00	13.38	60.75	7,020.32	761.19	1,359.24	1,557.86	0.00	0.00	0.00
7,221.33	13.38	60.75	7,041.08	763.60	1,363.54	1,562.80	0.00	0.00	0.00
Start Drop -1.50									
7,300.00	12.20	60.75	7,117.79	772.11	1,378.74	1,580.21	1.50	-1.50	0.00

Scientific Drilling, Intl

Planning Report

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7,400.00	10.70	60.75	7,215.80	781.81	1,396.06	1,600.07	1.50	-1.50	0.00
7,500.00	9.20	60.75	7,314.29	790.25	1,411.13	1,617.34	1.50	-1.50	0.00
7,600.00	7.70	60.75	7,413.20	797.43	1,423.95	1,632.04	1.50	-1.50	0.00
7,700.00	6.20	60.75	7,512.47	803.35	1,434.51	1,644.14	1.50	-1.50	0.00
7,800.00	4.70	60.75	7,612.01	807.99	1,442.80	1,653.64	1.50	-1.50	0.00
7,900.00	3.20	60.75	7,711.77	811.35	1,448.81	1,660.52	1.50	-1.50	0.00
8,000.00	1.70	60.75	7,811.68	813.44	1,452.54	1,664.80	1.50	-1.50	0.00
8,100.00	0.20	60.75	7,911.66	814.25	1,453.99	1,666.46	1.50	-1.50	0.00
8,113.34	0.00	0.00	7,925.00	814.26	1,454.01	1,666.48	1.50	-1.50	0.00
Start 4080.00 hold at 8113.34 MD - KMGAS (TVD)									
8,200.00	0.00	0.00	8,011.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
8,300.00	0.00	0.00	8,111.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
8,400.00	0.00	0.00	8,211.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
8,500.00	0.00	0.00	8,311.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
8,600.00	0.00	0.00	8,411.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
8,700.00	0.00	0.00	8,511.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
8,800.00	0.00	0.00	8,611.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
8,900.00	0.00	0.00	8,711.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,000.00	0.00	0.00	8,811.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,100.00	0.00	0.00	8,911.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,200.00	0.00	0.00	9,011.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,300.00	0.00	0.00	9,111.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,400.00	0.00	0.00	9,211.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,500.00	0.00	0.00	9,311.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,600.00	0.00	0.00	9,411.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,700.00	0.00	0.00	9,511.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,800.00	0.00	0.00	9,611.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
9,900.00	0.00	0.00	9,711.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,000.00	0.00	0.00	9,811.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,100.00	0.00	0.00	9,911.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,200.00	0.00	0.00	10,011.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,300.00	0.00	0.00	10,111.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,400.00	0.00	0.00	10,211.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,463.34	0.00	0.00	10,275.00	814.26	1,454.01	1,666.48	0.00	0.00	0.00
CMEO (TVD)									
10,500.00	0.00	0.00	10,311.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,600.00	0.00	0.00	10,411.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,700.00	0.00	0.00	10,511.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,800.00	0.00	0.00	10,611.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
10,900.00	0.00	0.00	10,711.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
11,000.00	0.00	0.00	10,811.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
11,043.34	0.00	0.00	10,855.00	814.26	1,454.01	1,666.48	0.00	0.00	0.00
RLNS (TVD)									
11,100.00	0.00	0.00	10,911.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
11,193.34	0.00	0.00	11,005.00	814.26	1,454.01	1,666.48	0.00	0.00	0.00
CZZT (TVD)									
11,200.00	0.00	0.00	11,011.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
11,300.00	0.00	0.00	11,111.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
11,400.00	0.00	0.00	11,211.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00
11,413.34	0.00	0.00	11,225.00	814.26	1,454.01	1,666.48	0.00	0.00	0.00

Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 344-7-297 - Slot Federal RG 344-7-297
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6620.9' & KB 24' @ 6644.90usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 6620.9' & KB 24' @ 6644.90usft (H&P 318)
Site:	RG 41-18-297 Pad	North Reference:	True
Well:	Federal RG 344-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 16March2020 SB-SDI		

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)	
CRCN (TVD)										
11,500.00	0.00	0.00	11,311.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,411.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,511.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
11,773.34	0.00	0.00	11,585.00	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
SEGO_UPPER (TVD)										
11,800.00	0.00	0.00	11,611.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,711.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
12,000.00	0.00	0.00	11,811.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
12,073.34	0.00	0.00	11,885.00	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
SEGO_LOWER (TVD)										
12,100.00	0.00	0.00	11,911.66	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
12,193.34	0.00	0.00	12,005.00	814.26	1,454.01	1,666.48	0.00	0.00	0.00	
TD at 12193.34 - TD (TVD)										

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										
FRG 344-7-297 Top Gas	0.00	0.00	7,925.00	814.26	1,454.01	1,759,158.1000	2,209,405.3000	39.8840449	-108.3175195	
- plan hits target center										
- Circle (radius 25.00)										
FRG 344-7-297 TD	0.00	0.00	12,005.00	814.26	1,454.01	1,759,158.1000	2,209,405.3000	39.8840449	-108.3175195	
- plan hits target center										
- Point										

Casing Points									
Measured Depth (usft)	Vertical Depth (usft)	Name			Casing Diameter (in)	Hole Diameter (in)			
3,206.27	3,135.00	Surface Casing			0.00	0.00			

Scientific Drilling, Intl

Planning Report

Database:	Grand Junction	Local Co-ordinate Reference:	Well Federal RG 344-7-297 - Slot Federal RG 344-7-297
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6620.9' & KB 24' @ 6644.90usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 6620.9' & KB 24' @ 6644.90usft (H&P 318)
Site:	RG 41-18-297 Pad	North Reference:	True
Well:	Federal RG 344-7-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 16March2020 SB-SDI		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
955.17	945.00	GRRV (TVD)		0.00		
1,119.63	1,105.00	GRRV_A_GROOVE (TVD)		0.00		
1,309.79	1,290.00	GRRV_B_GROOVE (TVD)		0.00		
1,633.58	1,605.00	GRRV DISSOLUTION_SURF (TVD)		0.00		
2,563.83	2,510.00	GRRV_ORANGE (TVD)		0.00		
2,774.55	2,715.00	WSTC (TVD)		0.00		
5,262.07	5,135.00	G_SAND (TVD)		0.00		
5,601.28	5,465.00	FRUN (TVD)		0.00		
7,009.51	6,835.00	MVRD (TVD)		0.00		
8,113.34	7,925.00	KMVGAS (TVD)		0.00		
10,463.34	10,275.00	CMEO (TVD)		0.00		
11,043.34	10,855.00	RLNS (TVD)		0.00		
11,193.34	11,005.00	CZZT (TVD)		0.00		
11,413.34	11,225.00	CRCN (TVD)		0.00		
11,773.34	11,585.00	SEGO_UPPER (TVD)		0.00		
12,073.34	11,885.00	SEGO_LOWER (TVD)		0.00		
12,193.34	12,005.00	TD (TVD)		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
135.00	135.00	0.00	0.00	Start Build 2.00	
804.01	797.94	38.00	67.85	Start 6417.32 hold at 804.01 MD	
7,221.33	7,041.08	763.60	1,363.54	Start Drop -1.50	
8,113.34	7,925.00	814.26	1,454.01	Start 4080.00 hold at 8113.34 MD	
12,193.34	12,005.00	814.26	1,454.01	TD at 12193.34	