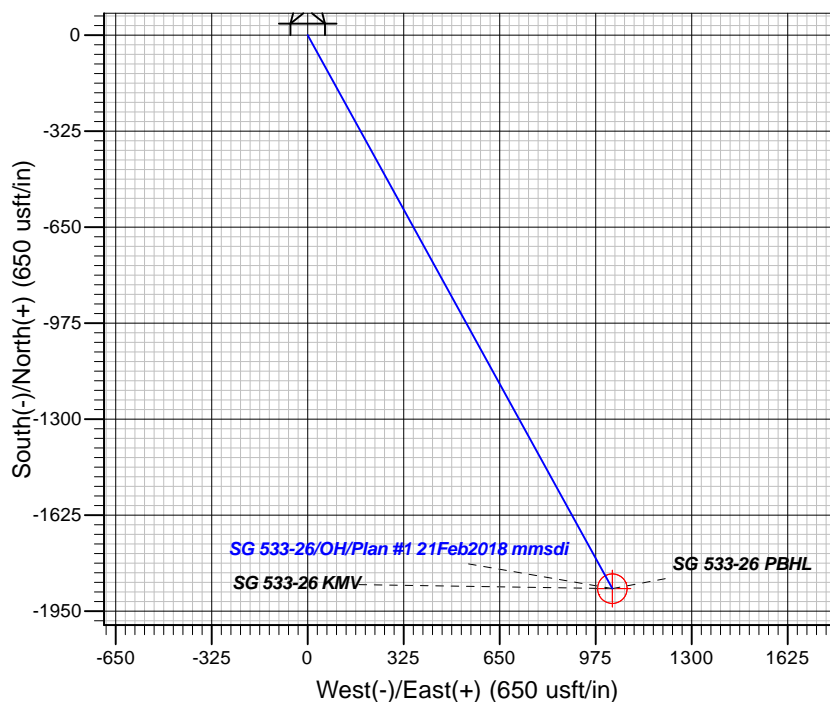
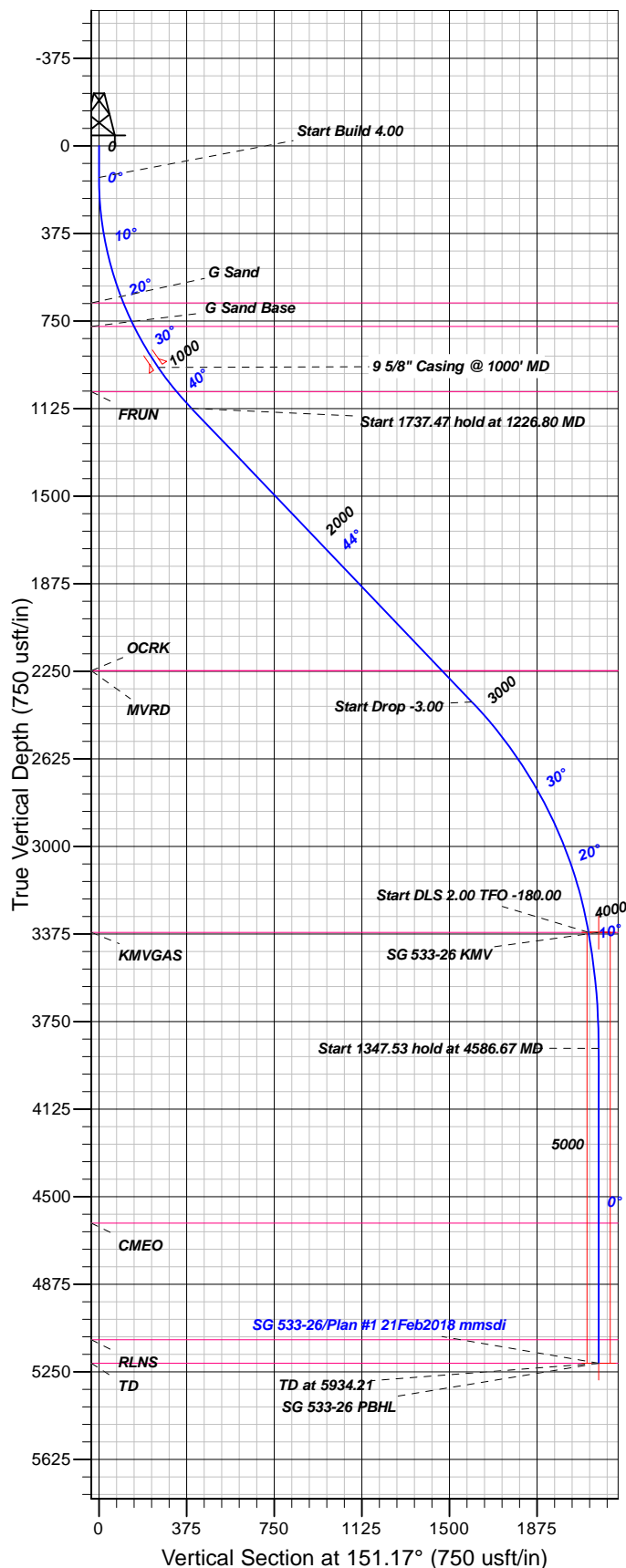




Magnetic Field
Strength: 51743.3snT
Dip Angle: 65.60°
Date: 2/21/2018
Model: HDGM

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1584767.60	2272328.80	39.4106271	-108.0757825	



TVDPath	MDPath	Formation
673.00	686.53	G Sand
773.00	796.24	G Sand Base
1053.00	1131.45	FRUN
2248.00	2780.63	MVRD
2248.00	2780.63	OCRK
3368.00	4086.67	KMVGAS
4613.00	5334.21	CMEQ
5113.00	5834.21	RLNS
5213.00	5934.21	TD

20:04, February 22 2018
Created By: Mel Mireles

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
948.38	1000.00	5/8" Casing @ 1000' 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	1226.80	43.67	151.17	1124.11	-347.23	191.09	0.00	151.17	396.34	
4	2964.27	43.67	151.17	2380.83	-1398.34	769.56	0.00	0.00	596.11	
5	4086.67	10.00	151.17	3368.00	-1835.89	1010.36	3.00	180.02	2095.55	
6	4586.67	0.00	0.00	3865.47	-1874.02	1031.34	2.00	-180.02	2139.07	
7	5934.21	0.00	0.00	5213.00	-1874.02	1031.34	0.00	0.00	2139.07	SG 533-26 PBHL

DESIGN TARGET DETAILS

[illegible]



TEP Rocky Mountain LLC

Garfield County, CO NAD83

SG 32-26 Pad

SG 533-26

OH

Plan: Plan #1 21Feb2018 mmsdi

Standard Planning Report

22 February, 2018



Database:	Grand Junction District	Local Co-ordinate Reference:	Well SG 533-26
Company:	TEP Rocky Mountain LLC	TVD Reference:	WELL @ 5076.00usft (Original Well Elev)
Project:	Garfield County, CO NAD83	MD Reference:	WELL @ 5076.00usft (Original Well Elev)
Site:	SG 32-26 Pad	North Reference:	True
Well:	SG 533-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 21Feb2018 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	SG 32-26 Pad			
Site Position:		Northing:	1,584,791.50 usft	Latitude: 39.4106932
From: Map		Easting:	2,272,334.80 usft	Longitude: -108.0757637
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence: -1.62 °

Well	SG 533-26			
Well Position	+N/-S	-24.06 usft	Northing:	1,584,767.60 usft
	+E/-W	-5.32 usft	Easting:	2,272,328.80 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft
			Ground Level:	5,076.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/21/2018	9.42	65.60	51,743

Design	Plan #1 21Feb2018 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	151.17

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	
1,226.80	43.67	151.17	1,124.11	-347.23	191.09	4.00	4.00	0.00	151.17	
2,964.27	43.67	151.17	2,380.83	-1,398.34	769.56	0.00	0.00	0.00	0.00	
4,086.67	10.00	151.17	3,368.00	-1,835.89	1,010.36	3.00	-3.00	0.00	180.00	
4,586.67	0.00	0.00	3,865.47	-1,874.02	1,031.34	2.00	-2.00	-30.23	-180.00	
5,934.21	0.00	0.00	5,213.00	-1,874.02	1,031.34	0.00	0.00	0.00	0.00	SG 533-26 PBHL

Database:	Grand Junction District	Local Co-ordinate Reference:	Well SG 533-26
Company:	TEP Rocky Mountain LLC	TVD Reference:	WELL @ 5076.00usft (Original Well Elev)
Project:	Garfield County, CO NAD83	MD Reference:	WELL @ 5076.00usft (Original Well Elev)
Site:	SG 32-26 Pad	North Reference:	True
Well:	SG 533-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 21Feb2018 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
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 4.00									
200.00	2.60	151.17	199.98	-1.29	0.71	1.47	4.00	4.00	0.00
300.00	6.60	151.17	299.64	-8.32	4.58	9.49	4.00	4.00	0.00
400.00	10.60	151.17	398.49	-21.41	11.79	24.44	4.00	4.00	0.00
500.00	14.60	151.17	496.06	-40.52	22.30	46.25	4.00	4.00	0.00
600.00	18.60	151.17	591.88	-65.55	36.07	74.82	4.00	4.00	0.00
686.53	22.06	151.17	673.00	-91.88	50.56	104.87	4.00	4.00	0.00
G Sand									
700.00	22.60	151.17	685.46	-96.36	53.03	109.99	4.00	4.00	0.00
796.24	26.45	151.17	773.00	-131.35	72.29	149.93	4.00	4.00	0.00
G Sand Base									
800.00	26.60	151.17	776.37	-132.83	73.10	151.61	4.00	4.00	0.00
900.00	30.60	151.17	864.15	-174.76	96.17	199.47	4.00	4.00	0.00
1,000.00	34.60	151.17	948.38	-221.95	122.15	253.34	4.00	4.00	0.00
9 5/8" Casing @ 1000' MD									
1,100.00	38.60	151.17	1,028.64	-274.17	150.89	312.95	4.00	4.00	0.00
1,131.45	39.86	151.17	1,053.00	-291.59	160.48	332.84	4.00	4.00	0.00
FRUN									
1,200.00	42.60	151.17	1,104.55	-331.17	182.26	378.01	4.00	4.00	0.00
1,226.80	43.67	151.17	1,124.11	-347.23	191.09	396.34	4.00	4.00	0.00
Start 1737.47 hold at 1226.80 MD									
1,300.00	43.67	151.17	1,177.06	-391.51	215.46	446.88	0.00	0.00	0.00
1,400.00	43.67	151.17	1,249.39	-452.01	248.76	515.94	0.00	0.00	0.00
1,500.00	43.67	151.17	1,321.72	-512.50	282.05	584.99	0.00	0.00	0.00
1,600.00	43.67	151.17	1,394.05	-573.00	315.34	654.04	0.00	0.00	0.00
1,700.00	43.67	151.17	1,466.38	-633.50	348.64	723.10	0.00	0.00	0.00
1,800.00	43.67	151.17	1,538.71	-693.99	381.93	792.15	0.00	0.00	0.00
1,900.00	43.67	151.17	1,611.04	-754.49	415.22	861.20	0.00	0.00	0.00
2,000.00	43.67	151.17	1,683.37	-814.99	448.52	930.25	0.00	0.00	0.00
2,100.00	43.67	151.17	1,755.70	-875.48	481.81	999.31	0.00	0.00	0.00
2,200.00	43.67	151.17	1,828.03	-935.98	515.11	1,068.36	0.00	0.00	0.00
2,300.00	43.67	151.17	1,900.36	-996.48	548.40	1,137.41	0.00	0.00	0.00
2,400.00	43.67	151.17	1,972.69	-1,056.97	581.69	1,206.47	0.00	0.00	0.00
2,500.00	43.67	151.17	2,045.02	-1,117.47	614.99	1,275.52	0.00	0.00	0.00
2,600.00	43.67	151.17	2,117.35	-1,177.97	648.28	1,344.57	0.00	0.00	0.00
2,700.00	43.67	151.17	2,189.68	-1,238.46	681.57	1,413.63	0.00	0.00	0.00
2,780.63	43.67	151.17	2,248.00	-1,287.24	708.42	1,469.30	0.00	0.00	0.00
OCRK - MVRD									
2,800.00	43.67	151.17	2,262.01	-1,298.96	714.87	1,482.68	0.00	0.00	0.00
2,900.00	43.67	151.17	2,334.34	-1,359.46	748.16	1,551.73	0.00	0.00	0.00
2,964.27	43.67	151.17	2,380.83	-1,398.34	769.56	1,596.11	0.00	0.00	0.00
Start Drop -3.00									
3,000.00	42.60	151.17	2,406.90	-1,419.74	781.34	1,620.54	3.00	-3.00	0.00
3,100.00	39.60	151.17	2,482.25	-1,477.33	813.03	1,686.27	3.00	-3.00	0.00
3,200.00	36.60	151.17	2,560.93	-1,531.38	842.78	1,747.97	3.00	-3.00	0.00
3,300.00	33.60	151.17	2,642.74	-1,581.75	870.50	1,805.46	3.00	-3.00	0.00
3,400.00	30.60	151.17	2,727.44	-1,628.30	896.12	1,858.60	3.00	-3.00	0.00
3,500.00	27.60	151.17	2,814.81	-1,670.90	919.56	1,907.22	3.00	-3.00	0.00
3,600.00	24.60	151.17	2,904.60	-1,709.44	940.77	1,951.21	3.00	-3.00	0.00
3,700.00	21.60	151.17	2,996.57	-1,743.81	959.68	1,990.44	3.00	-3.00	0.00

Database:	Grand Junction District	Local Co-ordinate Reference:	Well SG 533-26
Company:	TEP Rocky Mountain LLC	TVD Reference:	WELL @ 5076.00usft (Original Well Elev)
Project:	Garfield County, CO NAD83	MD Reference:	WELL @ 5076.00usft (Original Well Elev)
Site:	SG 32-26 Pad	North Reference:	True
Well:	SG 533-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 21Feb2018 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)
3,800.00	18.60	151.17	3,090.47	-1,773.91	976.25	2,024.81	3.00	-3.00	0.00
3,900.00	15.60	151.17	3,186.04	-1,799.67	990.43	2,054.21	3.00	-3.00	0.00
4,000.00	12.60	151.17	3,283.02	-1,821.01	1,002.17	2,078.57	3.00	-3.00	0.00
4,086.67	10.00	151.17	3,368.00	-1,835.89	1,010.36	2,095.55	3.00	-3.00	0.00
Start DLS 2.00 TFO -180.00 - KMGAS									
4,094.13	9.85	151.17	3,375.35	-1,837.02	1,010.98	2,096.83	2.00	-2.00	0.00
SG 533-26 KMW									
4,100.00	9.73	151.17	3,381.13	-1,837.89	1,011.46	2,097.83	2.00	-2.00	0.00
4,200.00	7.73	151.17	3,479.97	-1,851.19	1,018.78	2,113.01	2.00	-2.00	0.00
4,300.00	5.73	151.17	3,579.27	-1,861.46	1,024.43	2,124.74	2.00	-2.00	0.00
4,400.00	3.73	151.17	3,678.93	-1,868.69	1,028.41	2,132.99	2.00	-2.00	0.00
4,500.00	1.73	151.17	3,778.81	-1,872.87	1,030.71	2,137.76	2.00	-2.00	0.00
4,586.67	0.00	0.00	3,865.47	-1,874.02	1,031.34	2,139.07	2.00	-2.00	-174.42
Start 1347.53 hold at 4586.67 MD									
4,600.00	0.00	0.00	3,878.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
4,700.00	0.00	0.00	3,978.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
4,800.00	0.00	0.00	4,078.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
4,900.00	0.00	0.00	4,178.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,000.00	0.00	0.00	4,278.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,100.00	0.00	0.00	4,378.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,200.00	0.00	0.00	4,478.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,300.00	0.00	0.00	4,578.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,334.21	0.00	0.00	4,613.00	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
CMEO									
5,400.00	0.00	0.00	4,678.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,500.00	0.00	0.00	4,778.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,600.00	0.00	0.00	4,878.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,700.00	0.00	0.00	4,978.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,800.00	0.00	0.00	5,078.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,834.21	0.00	0.00	5,113.00	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
RLNS									
5,900.00	0.00	0.00	5,178.79	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
5,934.21	0.00	0.00	5,213.00	-1,874.02	1,031.34	2,139.07	0.00	0.00	0.00
TD at 5934.21 - TD - SG 533-26 PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SG 533-26 KMW	0.00	0.00	3,368.00	-1,874.02	1,031.34	1,582,865.10	2,273,306.60	39.4054819	-108.0721326
- hit/miss target									
- Shape									
- plan misses target center by 42.87usft at 4094.13usft MD (3375.35 TVD, -1837.02 N, 1010.98 E)									
- Circle (radius 50.00)									
SG 533-26 PBHL	0.00	0.00	5,213.00	-1,874.02	1,031.34	1,582,865.10	2,273,306.60	39.4054819	-108.0721326
- hit/miss target									
- Shape									
- plan misses target center by 0.01usft at 5934.21usft MD (5213.00 TVD, -1874.02 N, 1031.34 E)									
- Point									

Database:	Grand Junction District	Local Co-ordinate Reference:	Well SG 533-26
Company:	TEP Rocky Mountain LLC	TVD Reference:	WELL @ 5076.00usft (Original Well Elev)
Project:	Garfield County, CO NAD83	MD Reference:	WELL @ 5076.00usft (Original Well Elev)
Site:	SG 32-26 Pad	North Reference:	True
Well:	SG 533-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 21Feb2018 mmsdi		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,000.00	948.38	9 5/8" Casing @ 1000' MD	9.62	13.50

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
686.53	673.00	G Sand		0.00	0.00
796.24	773.00	G Sand Base		0.00	0.00
1,131.45	1,053.00	FRUN		0.00	0.00
2,780.63	2,248.00	OCRK		0.00	0.00
2,780.63	2,248.00	MVRD		0.00	0.00
4,086.67	3,368.00	KMVGAS		0.00	0.00
5,334.21	4,613.00	CMEO		0.00	0.00
5,834.21	5,113.00	RLNS		0.00	0.00
5,934.21	5,213.00	TD		0.00	0.00

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
135.00	135.00	0.00	0.00	Start Build 4.00
1,226.80	1,124.11	-347.23	191.09	Start 1737.47 hold at 1226.80 MD
2,964.27	2,380.83	-1,398.34	769.56	Start Drop -3.00
4,086.67	3,368.00	-1,835.89	1,010.36	Start DLS 2.00 TFO -180.00
4,586.67	3,865.47	-1,874.02	1,031.34	Start 1347.53 hold at 4586.67 MD
5,934.21	5,213.00	-1,874.02	1,031.34	TD at 5934.21