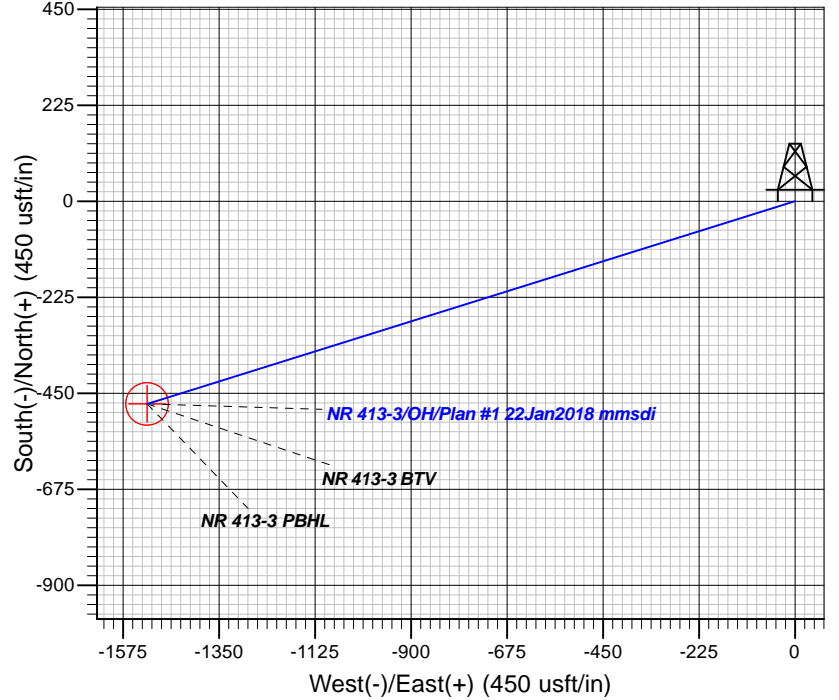
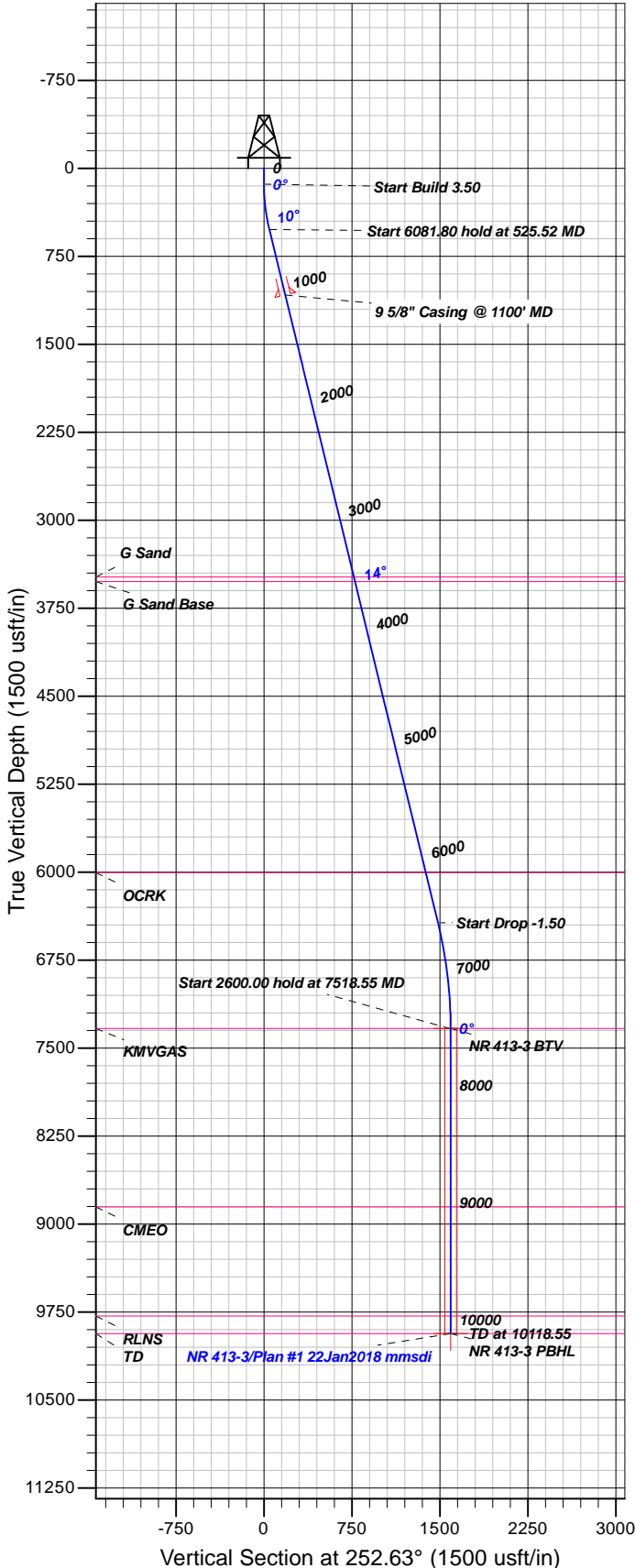


Well Details: NR 413-3

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1634898.54	2329762.14	39.5525062	-107.8772212	NR 413-3 (A11)



FORMATION TOP DETAILS

TVDP	MD	Formation
3484.00	3574.03	G Sand
3524.00	3615.19	G Sand Base
6004.00	6167.47	OCRK
7334.00	7518.55	KMGAS
8854.00	9038.55	CMEO
9784.00	9968.55	RLNS
9933.99	10118.54	TD

Plan: Plan #1 22Jan2018 mmsdi

22:46, February 07 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
1080.04	1100.00	5/8" Casing @ 1100' MD	9.62

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	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	525.52	13.67	252.63	521.83	-13.84	-44.25	3.50	252.63	46.36	
4	6607.33	13.67	252.63	6431.39	-442.76	-1415.89	0.00	0.00	1483.50	
5	7518.55	0.00	0.00	7334.00	-475.05	-1519.13	1.50	180.00	1591.68	NR 413-3 BTV
6	10118.55	0.00	0.00	9934.00	-475.05	-1519.13	0.00	0.00	1591.68	NR 413-3 PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
NR 413-3 BTV	7334.00	-475.05	-1519.13	1634463.40	2328231.10	39.5512019	-107.8826086	Circle (Radius: 50.00)
- plan hits target center								
NR 413-3 PBHL	9934.00	-475.05	-1519.13	1634463.40	2328231.10	39.5512019	-107.8826086	Point
- plan hits target center								



TEP Rocky Mountain LLC

Garfield County, CO NAD83

NR 23-3 Pad

NR 413-3 - Slot NR 413-3 (A11)

OH

Plan: Plan #1 22Jan2018 mmsdi

Standard Planning Report

07 February, 2018



Database:	Grand Junction District	Local Co-ordinate Reference:	Well NR 413-3 - Slot NR 413-3 (A11)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 413-3	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 22Jan2018 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		NR 23-3 Pad			
Site Position:		Northing:	1,634,904.55 usft	Latitude:	39.5525224
From:	Map	Easting:	2,329,757.66 usft	Longitude:	-107.8772377
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-1.50 °

Well	NR 413-3 - Slot NR 413-3 (A11)					
Well Position	+N/-S	-5.89 usft	Northing:	1,634,898.54 usft	Latitude:	39.5525062
	+E/-W	4.64 usft	Easting:	2,329,762.14 usft	Longitude:	-107.8772212
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,720.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/17/2018	9.50	65.82	51,615

Design	Plan #1 22Jan2018 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	252.63

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	
525.52	13.67	252.63	521.83	-13.84	-44.25	3.50	3.50	0.00	252.63	
6,607.33	13.67	252.63	6,431.39	-442.76	-1,415.89	0.00	0.00	0.00	0.00	
7,518.55	0.00	0.00	7,334.00	-475.05	-1,519.13	1.50	-1.50	0.00	180.00	NR 413-3 BTV
10,118.55	0.00	0.00	9,934.00	-475.05	-1,519.13	0.00	0.00	0.00	0.00	NR 413-3 PBHL

Database:	Grand Junction District	Local Co-ordinate Reference:	Well NR 413-3 - Slot NR 413-3 (A11)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 413-3	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 22Jan2018 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 3.50									
200.00	2.28	252.63	199.98	-0.39	-1.23	1.29	3.50	3.50	0.00
300.00	5.78	252.63	299.72	-2.48	-7.93	8.31	3.50	3.50	0.00
400.00	9.28	252.63	398.84	-6.39	-20.43	21.40	3.50	3.50	0.00
500.00	12.78	252.63	496.98	-12.09	-38.68	40.52	3.50	3.50	0.00
525.52	13.67	252.63	521.83	-13.84	-44.25	46.36	3.50	3.50	0.00
Start 6081.80 hold at 525.52 MD									
600.00	13.67	252.63	594.20	-19.09	-61.04	63.96	0.00	0.00	0.00
700.00	13.67	252.63	691.37	-26.14	-83.60	87.59	0.00	0.00	0.00
800.00	13.67	252.63	788.53	-33.19	-106.15	111.22	0.00	0.00	0.00
900.00	13.67	252.63	885.70	-40.25	-128.70	134.85	0.00	0.00	0.00
1,000.00	13.67	252.63	982.87	-47.30	-151.26	158.48	0.00	0.00	0.00
1,100.00	13.67	252.63	1,080.04	-54.35	-173.81	182.11	0.00	0.00	0.00
9 5/8" Casing @ 1100' MD									
1,200.00	13.67	252.63	1,177.21	-61.41	-196.36	205.74	0.00	0.00	0.00
1,300.00	13.67	252.63	1,274.37	-68.46	-218.92	229.37	0.00	0.00	0.00
1,400.00	13.67	252.63	1,371.54	-75.51	-241.47	253.00	0.00	0.00	0.00
1,500.00	13.67	252.63	1,468.71	-82.56	-264.02	276.63	0.00	0.00	0.00
1,600.00	13.67	252.63	1,565.88	-89.62	-286.58	300.26	0.00	0.00	0.00
1,700.00	13.67	252.63	1,663.05	-96.67	-309.13	323.89	0.00	0.00	0.00
1,800.00	13.67	252.63	1,760.21	-103.72	-331.68	347.52	0.00	0.00	0.00
1,900.00	13.67	252.63	1,857.38	-110.77	-354.24	371.15	0.00	0.00	0.00
2,000.00	13.67	252.63	1,954.55	-117.83	-376.79	394.78	0.00	0.00	0.00
2,100.00	13.67	252.63	2,051.72	-124.88	-399.34	418.41	0.00	0.00	0.00
2,200.00	13.67	252.63	2,148.88	-131.93	-421.89	442.04	0.00	0.00	0.00
2,300.00	13.67	252.63	2,246.05	-138.98	-444.45	465.67	0.00	0.00	0.00
2,400.00	13.67	252.63	2,343.22	-146.04	-467.00	489.30	0.00	0.00	0.00
2,500.00	13.67	252.63	2,440.39	-153.09	-489.55	512.93	0.00	0.00	0.00
2,600.00	13.67	252.63	2,537.56	-160.14	-512.11	536.56	0.00	0.00	0.00
2,700.00	13.67	252.63	2,634.72	-167.19	-534.66	560.19	0.00	0.00	0.00
2,800.00	13.67	252.63	2,731.89	-174.25	-557.21	583.82	0.00	0.00	0.00
2,900.00	13.67	252.63	2,829.06	-181.30	-579.77	607.45	0.00	0.00	0.00
3,000.00	13.67	252.63	2,926.23	-188.35	-602.32	631.08	0.00	0.00	0.00
3,100.00	13.67	252.63	3,023.40	-195.41	-624.87	654.71	0.00	0.00	0.00
3,200.00	13.67	252.63	3,120.56	-202.46	-647.43	678.34	0.00	0.00	0.00
3,300.00	13.67	252.63	3,217.73	-209.51	-669.98	701.97	0.00	0.00	0.00
3,400.00	13.67	252.63	3,314.90	-216.56	-692.53	725.60	0.00	0.00	0.00
3,500.00	13.67	252.63	3,412.07	-223.62	-715.09	749.23	0.00	0.00	0.00
3,574.03	13.67	252.63	3,484.00	-228.84	-731.78	766.73	0.00	0.00	0.00
G Sand									
3,600.00	13.67	252.63	3,509.24	-230.67	-737.64	772.86	0.00	0.00	0.00
3,615.19	13.67	252.63	3,524.00	-231.74	-741.07	776.45	0.00	0.00	0.00
G Sand Base									
3,700.00	13.67	252.63	3,606.40	-237.72	-760.19	796.49	0.00	0.00	0.00
3,800.00	13.67	252.63	3,703.57	-244.77	-782.75	820.12	0.00	0.00	0.00
3,900.00	13.67	252.63	3,800.74	-251.83	-805.30	843.75	0.00	0.00	0.00
4,000.00	13.67	252.63	3,897.91	-258.88	-827.85	867.38	0.00	0.00	0.00
4,100.00	13.67	252.63	3,995.08	-265.93	-850.40	891.01	0.00	0.00	0.00
4,200.00	13.67	252.63	4,092.24	-272.98	-872.96	914.65	0.00	0.00	0.00
4,300.00	13.67	252.63	4,189.41	-280.04	-895.51	938.28	0.00	0.00	0.00
4,400.00	13.67	252.63	4,286.58	-287.09	-918.06	961.91	0.00	0.00	0.00

Database:	Grand Junction District	Local Co-ordinate Reference:	Well NR 413-3 - Slot NR 413-3 (A11)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 413-3	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 22Jan2018 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)
4,500.00	13.67	252.63	4,383.75	-294.14	-940.62	985.54	0.00	0.00	0.00
4,600.00	13.67	252.63	4,480.92	-301.19	-963.17	1,009.17	0.00	0.00	0.00
4,700.00	13.67	252.63	4,578.08	-308.25	-985.72	1,032.80	0.00	0.00	0.00
4,800.00	13.67	252.63	4,675.25	-315.30	-1,008.28	1,056.43	0.00	0.00	0.00
4,900.00	13.67	252.63	4,772.42	-322.35	-1,030.83	1,080.06	0.00	0.00	0.00
5,000.00	13.67	252.63	4,869.59	-329.41	-1,053.38	1,103.69	0.00	0.00	0.00
5,100.00	13.67	252.63	4,966.76	-336.46	-1,075.94	1,127.32	0.00	0.00	0.00
5,200.00	13.67	252.63	5,063.92	-343.51	-1,098.49	1,150.95	0.00	0.00	0.00
5,300.00	13.67	252.63	5,161.09	-350.56	-1,121.04	1,174.58	0.00	0.00	0.00
5,400.00	13.67	252.63	5,258.26	-357.62	-1,143.60	1,198.21	0.00	0.00	0.00
5,500.00	13.67	252.63	5,355.43	-364.67	-1,166.15	1,221.84	0.00	0.00	0.00
5,600.00	13.67	252.63	5,452.60	-371.72	-1,188.70	1,245.47	0.00	0.00	0.00
5,700.00	13.67	252.63	5,549.76	-378.77	-1,211.26	1,269.10	0.00	0.00	0.00
5,800.00	13.67	252.63	5,646.93	-385.83	-1,233.81	1,292.73	0.00	0.00	0.00
5,900.00	13.67	252.63	5,744.10	-392.88	-1,256.36	1,316.36	0.00	0.00	0.00
6,000.00	13.67	252.63	5,841.27	-399.93	-1,278.91	1,339.99	0.00	0.00	0.00
6,100.00	13.67	252.63	5,938.44	-406.98	-1,301.47	1,363.62	0.00	0.00	0.00
6,167.48	13.67	252.63	6,004.00	-411.74	-1,316.69	1,379.56	0.00	0.00	0.00
OCRK									
6,200.00	13.67	252.63	6,035.60	-414.04	-1,324.02	1,387.25	0.00	0.00	0.00
6,300.00	13.67	252.63	6,132.77	-421.09	-1,346.57	1,410.88	0.00	0.00	0.00
6,400.00	13.67	252.63	6,229.94	-428.14	-1,369.13	1,434.51	0.00	0.00	0.00
6,500.00	13.67	252.63	6,327.11	-435.19	-1,391.68	1,458.14	0.00	0.00	0.00
6,600.00	13.67	252.63	6,424.28	-442.25	-1,414.23	1,481.77	0.00	0.00	0.00
6,607.33	13.67	252.63	6,431.39	-442.76	-1,415.89	1,483.50	0.00	0.00	0.00
Start Drop -1.50									
6,700.00	12.28	252.63	6,521.70	-448.97	-1,435.74	1,504.30	1.50	-1.50	0.00
6,800.00	10.78	252.63	6,619.68	-454.94	-1,454.82	1,524.29	1.50	-1.50	0.00
6,900.00	9.28	252.63	6,718.15	-460.13	-1,471.43	1,541.70	1.50	-1.50	0.00
7,000.00	7.78	252.63	6,817.04	-464.56	-1,485.59	1,556.53	1.50	-1.50	0.00
7,100.00	6.28	252.63	6,916.29	-468.21	-1,497.27	1,568.77	1.50	-1.50	0.00
7,200.00	4.78	252.63	7,015.82	-471.09	-1,506.46	1,578.40	1.50	-1.50	0.00
7,300.00	3.28	252.63	7,115.57	-473.18	-1,513.16	1,585.42	1.50	-1.50	0.00
7,400.00	1.78	252.63	7,215.47	-474.50	-1,517.37	1,589.84	1.50	-1.50	0.00
7,500.00	0.28	252.63	7,315.45	-475.04	-1,519.09	1,591.63	1.50	-1.50	0.00
7,518.55	0.00	0.00	7,334.00	-475.05	-1,519.13	1,591.68	1.50	-1.50	578.79
Start 2600.00 hold at 7518.55 MD - KMGAS - NR 413-3 BTV									
7,600.00	0.00	0.00	7,415.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
7,700.00	0.00	0.00	7,515.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
7,800.00	0.00	0.00	7,615.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
7,900.00	0.00	0.00	7,715.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,000.00	0.00	0.00	7,815.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,100.00	0.00	0.00	7,915.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,200.00	0.00	0.00	8,015.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,300.00	0.00	0.00	8,115.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,400.00	0.00	0.00	8,215.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,500.00	0.00	0.00	8,315.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,600.00	0.00	0.00	8,415.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,700.00	0.00	0.00	8,515.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,800.00	0.00	0.00	8,615.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
8,900.00	0.00	0.00	8,715.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,000.00	0.00	0.00	8,815.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,038.55	0.00	0.00	8,854.00	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00

Database:	Grand Junction District	Local Co-ordinate Reference:	Well NR 413-3 - Slot NR 413-3 (A11)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 413-3	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 22Jan2018 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)
CME0									
9,100.00	0.00	0.00	8,915.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,200.00	0.00	0.00	9,015.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,300.00	0.00	0.00	9,115.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,400.00	0.00	0.00	9,215.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,500.00	0.00	0.00	9,315.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,600.00	0.00	0.00	9,415.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,700.00	0.00	0.00	9,515.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,800.00	0.00	0.00	9,615.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,900.00	0.00	0.00	9,715.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
9,968.55	0.00	0.00	9,784.00	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
RLNS									
10,000.00	0.00	0.00	9,815.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
10,100.00	0.00	0.00	9,915.45	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
10,118.54	0.00	0.00	9,933.99	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
TD									
10,118.55	0.00	0.00	9,934.00	-475.05	-1,519.13	1,591.68	0.00	0.00	0.00
TD at 10118.55 - NR 413-3 PBHL									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NR 413-3 BTV - plan hits target center - Circle (radius 50.00)	0.00	0.00	7,334.00	-475.05	-1,519.13	1,634,463.40	2,328,231.10	39.5512019	-107.8826086
NR 413-3 PBHL - plan hits target center - Point	0.00	0.00	9,934.00	-475.05	-1,519.13	1,634,463.40	2,328,231.10	39.5512019	-107.8826086

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (in)	Hole Diameter (in)
1,100.00	1,080.04	9 5/8" Casing @ 1100' MD		9.62	13.50

Database:	Grand Junction District	Local Co-ordinate Reference:	Well NR 413-3 - Slot NR 413-3 (A11)
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Project:	Garfield County, CO NAD83	MD Reference:	GL 6720' & RKB 24' @ 6744.00usft
Site:	NR 23-3 Pad	North Reference:	True
Well:	NR 413-3	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 22Jan2018 mmsdi		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,574.03	3,484.00	G Sand		0.00	0.00	
3,615.19	3,524.00	G Sand Base		0.00	0.00	
6,167.48	6,004.00	OCRK		0.00	0.00	
7,518.55	7,334.00	KMVGAS		0.00	0.00	
9,038.55	8,854.00	CME0		0.00	0.00	
9,968.55	9,784.00	RLNS		0.00	0.00	
10,118.54	9,933.99	TD		0.00	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 3.50	
525.52	521.83	-13.84	-44.25	Start 6081.80 hold at 525.52 MD	
6,607.33	6,431.39	-442.76	-1,415.89	Start Drop -1.50	
7,518.55	7,334.00	-475.05	-1,519.13	Start 2600.00 hold at 7518.55 MD	
10,118.55	9,934.00	-475.05	-1,519.13	TD at 10118.55	