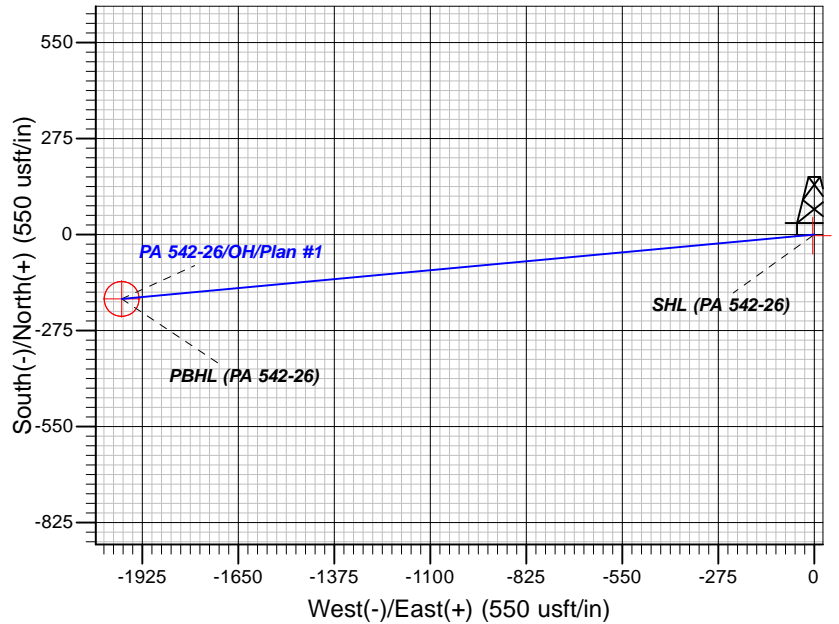
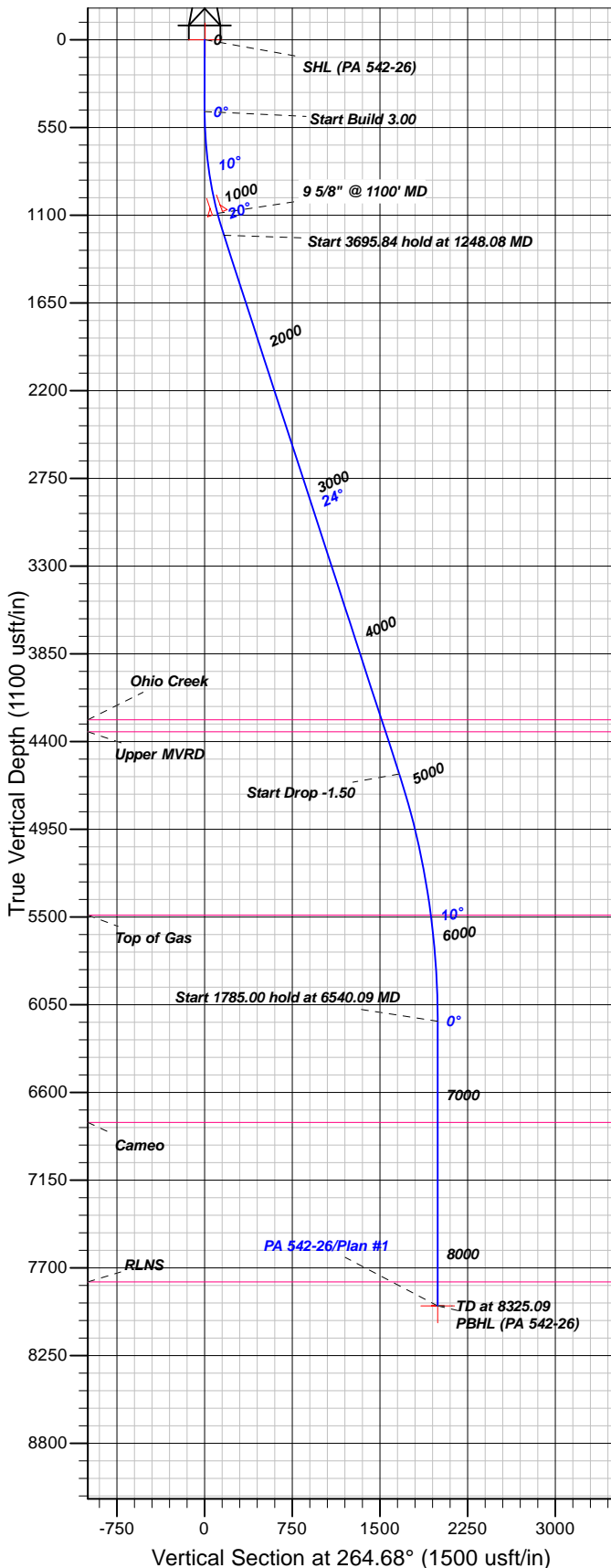


Well Details: PA 542-26

WELL @ 5248.00usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1615199.86	2308740.53	39.4969110	-107.9498620	PA 542-26 (B2)

T M Azimuths to True North
 Magnetic North: 9.45°
 Magnetic Field
 Strength: 51743.4snT
 Dip Angle: 65.82°
 Date: 5/23/2017
 Model: HDGM



FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
4263.00	4572.04	Ohio Creek
4338.00	4654.10	Upper MVRD
5488.00	5871.69	Top of Gas
6788.00	7175.09	Cameo
7788.00	8175.09	RLNS

Plan: Plan #1

18:25, June 04 2017
 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
1087.52	1100.00	9 5/8" @ 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	450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	
3	1248.08	23.94	264.68	1225.06	-15.23	-163.63	3.00	264.68	164.34	
4	4943.92	23.94	264.68	4602.88	-154.20	-1657.02	0.00	0.001664.18		
5	6540.09	0.00	0.00	6153.00	-184.66	-1984.29	1.50	180.001992.86		
6	8325.09	0.00	0.00	7938.00	-184.66	-1984.29	0.00	0.001992.86		PBHL (PA 542-26)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SHL (PA 542-26)	0.00	-3.31	-4.56	1615196.67	2308735.88	39.4969019	-107.9498782	Point
- plan misses target center by 5.64usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)								
PBHL (PA 542-26)	7938.00	-184.66	-1984.29	1615068.77	2306751.99	39.4964038	-107.9568935	Circle (Radius: 50.00)
- plan hits target center								



TEP Rocky Mountain LLC

Garfield County, CO NAD83

PA 22-25 Pad

PA 542-26 - Slot PA 542-26 (B2)

OH

Plan: Plan #1

Standard Planning Report

04 June, 2017



Database:	Grand Junction District	Local Co-ordinate Reference:	Well PA 542-26 - Slot PA 542-26 (B2)
Company:	TEP Rocky Mountain LLC	TVD Reference:	WELL @ 5248.00usft (Original Well Elev)
Project:	Garfield County, CO NAD83	MD Reference:	WELL @ 5248.00usft (Original Well Elev)
Site:	PA 22-25 Pad	North Reference:	True
Well:	PA 542-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	PA 22-25 Pad			
Site Position:		Northing:	1,615,186.77 usft	Latitude: 39.4968742
From: Map		Easting:	2,308,728.18 usft	Longitude: -107.9499045
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence: -1.55 °

Well	PA 542-26 - Slot PA 542-26 (B2), B2			
Well Position	+N/-S	13.42 usft	Northing:	1,615,199.85 usft
	+E/-W	11.99 usft	Easting:	2,308,740.53 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	5,224.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/23/2017	9.45	65.82	51,743

Design	Plan #1			
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	264.68

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	
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,248.08	23.94	264.68	1,225.06	-15.23	-163.63	3.00	3.00	0.00	264.68	
4,943.92	23.94	264.68	4,602.88	-154.20	-1,657.02	0.00	0.00	0.00	0.00	
6,540.09	0.00	0.00	6,153.00	-184.66	-1,984.29	1.50	-1.50	0.00	180.00	
8,325.09	0.00	0.00	7,938.00	-184.66	-1,984.29	0.00	0.00	0.00	0.00	PBHL (PA 542-26)

Database:	Grand Junction District	Local Co-ordinate Reference:	Well PA 542-26 - Slot PA 542-26 (B2)
Company:	TEP Rocky Mountain LLC	TVD Reference:	WELL @ 5248.00usft (Original Well Elev)
Project:	Garfield County, CO NAD83	MD Reference:	WELL @ 5248.00usft (Original Well Elev)
Site:	PA 22-25 Pad	North Reference:	True
Well:	PA 542-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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
SHL (PA 542-26)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	1.50	264.68	499.99	-0.06	-0.65	0.65	3.00	3.00	0.00
600.00	4.50	264.68	599.85	-0.55	-5.86	5.89	3.00	3.00	0.00
700.00	7.50	264.68	699.29	-1.51	-16.27	16.34	3.00	3.00	0.00
800.00	10.50	264.68	798.04	-2.96	-31.84	31.98	3.00	3.00	0.00
900.00	13.50	264.68	895.85	-4.89	-52.54	52.77	3.00	3.00	0.00
1,000.00	16.50	264.68	992.43	-7.29	-78.31	78.65	3.00	3.00	0.00
1,100.00	19.50	264.68	1,087.52	-10.15	-109.08	109.55	3.00	3.00	0.00
9 5/8" @ 1100' MD									
1,200.00	22.50	264.68	1,180.87	-13.47	-144.75	145.38	3.00	3.00	0.00
1,248.08	23.94	264.68	1,225.06	-15.23	-163.63	164.34	3.00	3.00	0.00
1,300.00	23.94	264.68	1,272.51	-17.18	-184.61	185.41	0.00	0.00	0.00
1,400.00	23.94	264.68	1,363.90	-20.94	-225.02	225.99	0.00	0.00	0.00
1,500.00	23.94	264.68	1,455.30	-24.70	-265.42	266.57	0.00	0.00	0.00
1,600.00	23.94	264.68	1,546.69	-28.46	-305.83	307.15	0.00	0.00	0.00
1,700.00	23.94	264.68	1,638.09	-32.22	-346.24	347.73	0.00	0.00	0.00
1,800.00	23.94	264.68	1,729.48	-35.98	-386.65	388.32	0.00	0.00	0.00
1,900.00	23.94	264.68	1,820.88	-39.74	-427.05	428.90	0.00	0.00	0.00
2,000.00	23.94	264.68	1,912.27	-43.50	-467.46	469.48	0.00	0.00	0.00
2,100.00	23.94	264.68	2,003.67	-47.26	-507.87	510.06	0.00	0.00	0.00
2,200.00	23.94	264.68	2,095.07	-51.02	-548.28	550.64	0.00	0.00	0.00
2,300.00	23.94	264.68	2,186.46	-54.78	-588.68	591.23	0.00	0.00	0.00
2,400.00	23.94	264.68	2,277.86	-58.54	-629.09	631.81	0.00	0.00	0.00
2,500.00	23.94	264.68	2,369.25	-62.30	-669.50	672.39	0.00	0.00	0.00
2,600.00	23.94	264.68	2,460.65	-66.06	-709.91	712.97	0.00	0.00	0.00
2,700.00	23.94	264.68	2,552.04	-69.82	-750.31	753.55	0.00	0.00	0.00
2,800.00	23.94	264.68	2,643.44	-73.59	-790.72	794.14	0.00	0.00	0.00
2,900.00	23.94	264.68	2,734.83	-77.35	-831.13	834.72	0.00	0.00	0.00
3,000.00	23.94	264.68	2,826.23	-81.11	-871.54	875.30	0.00	0.00	0.00
3,100.00	23.94	264.68	2,917.62	-84.87	-911.94	915.88	0.00	0.00	0.00
3,200.00	23.94	264.68	3,009.02	-88.63	-952.35	956.46	0.00	0.00	0.00
3,300.00	23.94	264.68	3,100.41	-92.39	-992.76	997.05	0.00	0.00	0.00
3,400.00	23.94	264.68	3,191.81	-96.15	-1,033.16	1,037.63	0.00	0.00	0.00
3,500.00	23.94	264.68	3,283.20	-99.91	-1,073.57	1,078.21	0.00	0.00	0.00
3,600.00	23.94	264.68	3,374.60	-103.67	-1,113.98	1,118.79	0.00	0.00	0.00
3,700.00	23.94	264.68	3,465.99	-107.43	-1,154.39	1,159.38	0.00	0.00	0.00
3,800.00	23.94	264.68	3,557.39	-111.19	-1,194.79	1,199.96	0.00	0.00	0.00
3,900.00	23.94	264.68	3,648.79	-114.95	-1,235.20	1,240.54	0.00	0.00	0.00
4,000.00	23.94	264.68	3,740.18	-118.71	-1,275.61	1,281.12	0.00	0.00	0.00
4,100.00	23.94	264.68	3,831.58	-122.47	-1,316.02	1,321.70	0.00	0.00	0.00
4,200.00	23.94	264.68	3,922.97	-126.23	-1,356.42	1,362.29	0.00	0.00	0.00
4,300.00	23.94	264.68	4,014.37	-129.99	-1,396.83	1,402.87	0.00	0.00	0.00
4,400.00	23.94	264.68	4,105.76	-133.75	-1,437.24	1,443.45	0.00	0.00	0.00
4,500.00	23.94	264.68	4,197.16	-137.51	-1,477.65	1,484.03	0.00	0.00	0.00
4,572.04	23.94	264.68	4,263.00	-140.22	-1,506.76	1,513.27	0.00	0.00	0.00
Ohio Creek									
4,600.00	23.94	264.68	4,288.55	-141.27	-1,518.05	1,524.61	0.00	0.00	0.00

Database:	Grand Junction District	Local Co-ordinate Reference:	Well PA 542-26 - Slot PA 542-26 (B2)
Company:	TEP Rocky Mountain LLC	TVD Reference:	WELL @ 5248.00usft (Original Well Elev)
Project:	Garfield County, CO NAD83	MD Reference:	WELL @ 5248.00usft (Original Well Elev)
Site:	PA 22-25 Pad	North Reference:	True
Well:	PA 542-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)	
4,654.10	23.94	264.68	4,338.00	-143.31	-1,539.92	1,546.57	0.00	0.00	0.00	
Upper MVRD										
4,700.00	23.94	264.68	4,379.95	-145.03	-1,558.46	1,565.20	0.00	0.00	0.00	
4,800.00	23.94	264.68	4,471.34	-148.79	-1,598.87	1,605.78	0.00	0.00	0.00	
4,835.22	23.94	264.68	4,503.53	-150.12	-1,613.10	1,620.07	0.00	0.00	0.00	
PA 542-26 MVRD										
4,900.00	23.94	264.68	4,562.74	-152.55	-1,639.28	1,646.36	0.00	0.00	0.00	
4,943.92	23.94	264.68	4,602.88	-154.20	-1,657.02	1,664.18	0.00	0.00	0.00	
5,000.00	23.10	264.68	4,654.30	-156.28	-1,679.31	1,686.56	1.50	-1.50	0.00	
5,100.00	21.60	264.68	4,746.78	-159.80	-1,717.17	1,724.59	1.50	-1.50	0.00	
5,200.00	20.10	264.68	4,840.23	-163.10	-1,752.61	1,760.19	1.50	-1.50	0.00	
5,300.00	18.60	264.68	4,934.58	-166.17	-1,785.61	1,793.32	1.50	-1.50	0.00	
5,400.00	17.10	264.68	5,029.76	-169.01	-1,816.13	1,823.97	1.50	-1.50	0.00	
5,500.00	15.60	264.68	5,125.71	-171.62	-1,844.16	1,852.13	1.50	-1.50	0.00	
5,600.00	14.10	264.68	5,222.37	-173.99	-1,869.68	1,877.76	1.50	-1.50	0.00	
5,700.00	12.60	264.68	5,319.67	-176.13	-1,892.67	1,900.85	1.50	-1.50	0.00	
5,800.00	11.10	264.68	5,417.53	-178.04	-1,913.12	1,921.39	1.50	-1.50	0.00	
5,871.69	10.03	264.68	5,488.00	-179.25	-1,926.20	1,934.53	1.50	-1.50	0.00	
Top of Gas										
5,900.00	9.60	264.68	5,515.90	-179.70	-1,931.01	1,939.35	1.50	-1.50	0.00	
6,000.00	8.10	264.68	5,614.71	-181.13	-1,946.33	1,954.74	1.50	-1.50	0.00	
6,100.00	6.60	264.68	5,713.88	-182.31	-1,959.07	1,967.53	1.50	-1.50	0.00	
6,200.00	5.10	264.68	5,813.36	-183.26	-1,969.22	1,977.73	1.50	-1.50	0.00	
6,300.00	3.60	264.68	5,913.07	-183.96	-1,976.78	1,985.32	1.50	-1.50	0.00	
6,400.00	2.10	264.68	6,012.94	-184.42	-1,981.73	1,990.29	1.50	-1.50	0.00	
6,500.00	0.60	264.68	6,112.91	-184.64	-1,984.08	1,992.65	1.50	-1.50	0.00	
6,540.09	0.00	0.00	6,153.00	-184.66	-1,984.29	1,992.86	1.50	-1.50	0.00	
6,600.00	0.00	0.00	6,212.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,312.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,412.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,512.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,612.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,712.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,175.09	0.00	0.00	6,788.00	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
Cameo										
7,200.00	0.00	0.00	6,812.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,300.00	0.00	0.00	6,912.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,012.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,112.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,212.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,312.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,412.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,512.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,612.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,712.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
8,175.09	0.00	0.00	7,788.00	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
RLNS										
8,200.00	0.00	0.00	7,812.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
8,300.00	0.00	0.00	7,912.91	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
8,325.09	0.00	0.00	7,938.00	-184.66	-1,984.29	1,992.86	0.00	0.00	0.00	
PA 542-26 PBHL - PBHL (PA 542-26)										

Database:	Grand Junction District	Local Co-ordinate Reference:	Well PA 542-26 - Slot PA 542-26 (B2)
Company:	TEP Rocky Mountain LLC	TVD Reference:	WELL @ 5248.00usft (Original Well Elev)
Project:	Garfield County, CO NAD83	MD Reference:	WELL @ 5248.00usft (Original Well Elev)
Site:	PA 22-25 Pad	North Reference:	True
Well:	PA 542-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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									
SHL (PA 542-26)	0.00	0.00	0.00	-3.31	-4.56	1,615,196.67	2,308,735.88	39.4969019	-107.9498782
- plan misses target center by 5.64usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
PBHL (PA 542-26)	0.00	0.00	7,938.00	-184.66	-1,984.29	1,615,068.77	2,306,751.99	39.4964038	-107.9568935
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,100.00	1,087.52	9 5/8" @ 1100' MD	9.62	13.50	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,572.04	4,263.00	Ohio Creek		0.00		
4,654.10	4,338.00	Upper MVRD		0.00		
5,871.69	5,488.00	Top of Gas		0.00		
7,175.09	6,788.00	Cameo		0.00		
8,175.09	7,788.00	RLNS		0.00		