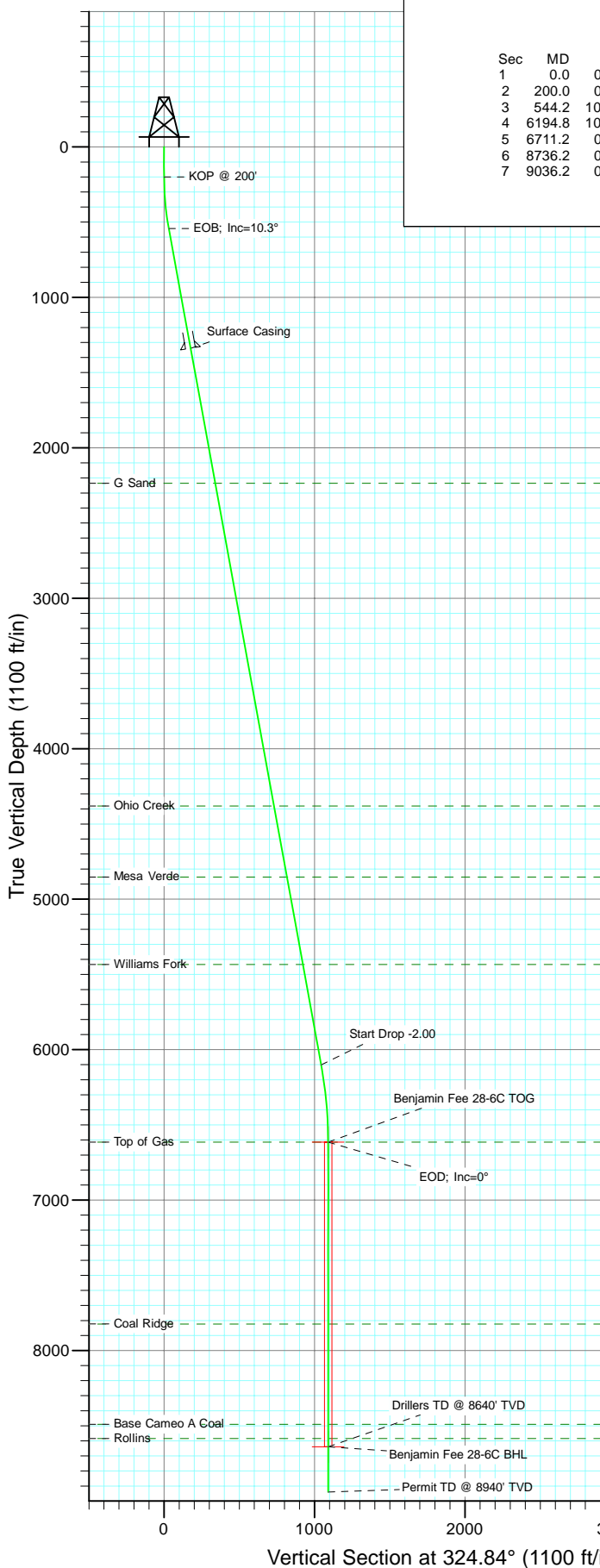


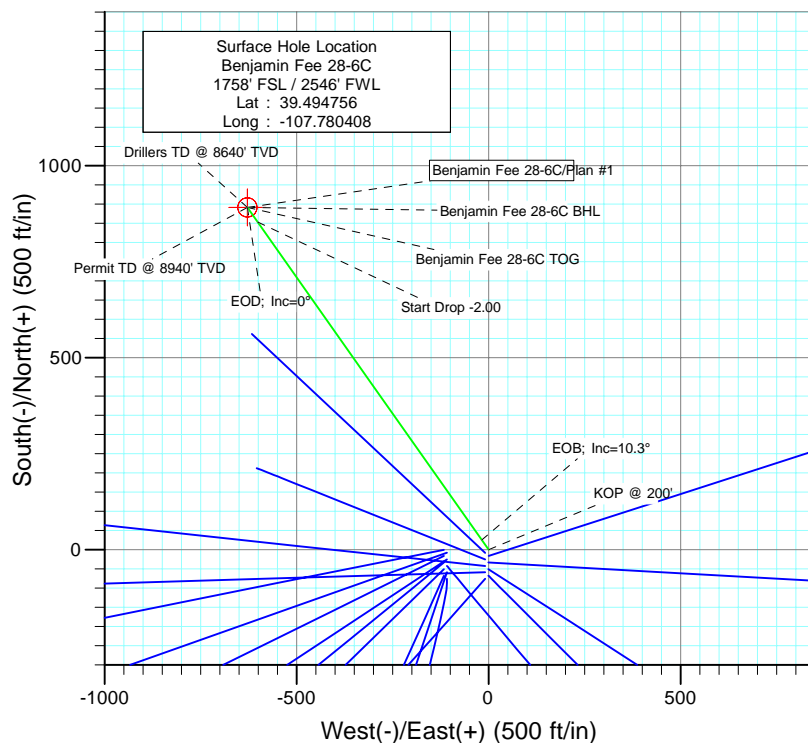


Project: Mamm Creek
Site: K28NW Pad
Well: Benjamin Fee 28-6C
Wellbore: DD
Design: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	544.2	10.33	324.84	542.4	25.3	-17.8	3.00	324.84	30.9	
4	6194.8	10.33	324.84	6101.4	853.5	-601.2	0.00	0.00	1043.9	
5	6711.2	0.00	0.00	6615.0	891.4	-627.9	2.00	180.00	1090.3	Benjamin Fee 28-6C TOG
6	8736.2	0.00	0.00	8640.0	891.4	-627.9	0.00	0.00	1090.3	Benjamin Fee 28-6C BHL
7	9036.2	0.00	0.00	8940.0	891.4	-627.9	0.00	0.00	1090.3	



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2236.0	2265.7	G Sand
4380.0	4445.1	Ohio Creek
4852.0	4924.8	Mesa Verde
5434.0	5516.4	Williams Fork
6615.0	6711.2	Top of Gas
7824.0	7920.2	Coal Ridge
8490.0	8586.2	Base Cameo A Coal
8585.0	8681.2	Rollins



Azimuths to True North
Magnetic North: 10.36°

Magnetic Field
Strength: 52406.1nT
Dip Angle: 65.82°
Date: 6/23/2010
Model: IGRF200510

Plan #1
Benjamin Fee 28-6C
(2660 FSL - 1950 FWL) Job #10xxx: KR
WELL @ 5965.0ft (Original Well Elev)
North American Datum 1983
Well Benjamin Fee 28-6C, True North

Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
Target	Benjamin Fee 28-6C BHL	324.84	Slot		0.0	0.0		0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude			
Benjamin Fee 28-6C BHL	8640.0	891.4	-627.9	39.497203	-107.782633			

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Project:	Mamm Creek	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site:	K28NW Pad	North Reference:	True
Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Project	Mamm Creek		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		K28NW Pad			
Site Position:		Northing:	1,613,160.16 ft	Latitude:	39.494711
From:	Lat/Long	Easting:	2,356,412.22 ft	Longitude:	-107.780819
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.44 °

Well	Benjamin Fee 28-6C					
Well Position	+N/-S	0.0 ft	Northing:	1,613,173.42 ft	Latitude:	39.494756
	+E/-W	0.0 ft	Easting:	2,356,528.61 ft	Longitude:	-107.780408
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,943.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/23/2010	10.36	65.82	52,406

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	324.84

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
544.2	10.33	324.84	542.4	25.3	-17.8	3.00	3.00	0.00	324.84	
6,194.8	10.33	324.84	6,101.4	853.5	-601.2	0.00	0.00	0.00	0.00	
6,711.2	0.00	0.00	6,615.0	891.4	-627.9	2.00	-2.00	0.00	180.00	Benjamin Fee 28-6C
8,736.2	0.00	0.00	8,640.0	891.4	-627.9	0.00	0.00	0.00	0.00	Benjamin Fee 28-6C
9,036.2	0.00	0.00	8,940.0	891.4	-627.9	0.00	0.00	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Project:	Mamm Creek	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site:	K28NW Pad	North Reference:	True
Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
300.0	3.00	324.84	300.0	2.1	-1.5	2.6	3.00	3.00	
400.0	6.00	324.84	399.6	8.6	-6.0	10.5	3.00	3.00	
500.0	9.00	324.84	498.8	19.2	-13.5	23.5	3.00	3.00	
544.2	10.33	324.84	542.4	25.3	-17.8	30.9	3.00	3.00	EOB; Inc=10.3°
600.0	10.33	324.84	597.2	33.5	-23.6	40.9	0.00	0.00	
700.0	10.33	324.84	695.6	48.1	-33.9	58.9	0.00	0.00	
800.0	10.33	324.84	794.0	62.8	-44.2	76.8	0.00	0.00	
900.0	10.33	324.84	892.4	77.4	-54.5	94.7	0.00	0.00	
1,000.0	10.33	324.84	990.8	92.1	-64.9	112.6	0.00	0.00	
1,100.0	10.33	324.84	1,089.1	106.7	-75.2	130.6	0.00	0.00	
1,200.0	10.33	324.84	1,187.5	121.4	-85.5	148.5	0.00	0.00	
1,300.0	10.33	324.84	1,285.9	136.1	-95.8	166.4	0.00	0.00	
1,354.0	10.33	324.84	1,339.0	144.0	-101.4	176.1	0.00	0.00	Surface Casing
1,400.0	10.33	324.84	1,384.3	150.7	-106.2	184.4	0.00	0.00	
1,500.0	10.33	324.84	1,482.7	165.4	-116.5	202.3	0.00	0.00	
1,600.0	10.33	324.84	1,581.0	180.0	-126.8	220.2	0.00	0.00	
1,700.0	10.33	324.84	1,679.4	194.7	-137.1	238.1	0.00	0.00	
1,800.0	10.33	324.84	1,777.8	209.3	-147.5	256.1	0.00	0.00	
1,900.0	10.33	324.84	1,876.2	224.0	-157.8	274.0	0.00	0.00	
2,000.0	10.33	324.84	1,974.6	238.7	-168.1	291.9	0.00	0.00	
2,100.0	10.33	324.84	2,072.9	253.3	-178.4	309.8	0.00	0.00	
2,200.0	10.33	324.84	2,171.3	268.0	-188.8	327.8	0.00	0.00	
2,265.7	10.33	324.84	2,236.0	277.6	-195.5	339.6	0.00	0.00	G Sand
2,300.0	10.33	324.84	2,269.7	282.6	-199.1	345.7	0.00	0.00	
2,400.0	10.33	324.84	2,368.1	297.3	-209.4	363.6	0.00	0.00	
2,500.0	10.33	324.84	2,466.5	311.9	-219.7	381.5	0.00	0.00	
2,600.0	10.33	324.84	2,564.8	326.6	-230.0	399.5	0.00	0.00	
2,700.0	10.33	324.84	2,663.2	341.2	-240.4	417.4	0.00	0.00	
2,800.0	10.33	324.84	2,761.6	355.9	-250.7	435.3	0.00	0.00	
2,900.0	10.33	324.84	2,860.0	370.6	-261.0	453.3	0.00	0.00	
3,000.0	10.33	324.84	2,958.4	385.2	-271.3	471.2	0.00	0.00	
3,100.0	10.33	324.84	3,056.7	399.9	-281.7	489.1	0.00	0.00	
3,200.0	10.33	324.84	3,155.1	414.5	-292.0	507.0	0.00	0.00	
3,300.0	10.33	324.84	3,253.5	429.2	-302.3	525.0	0.00	0.00	
3,400.0	10.33	324.84	3,351.9	443.8	-312.6	542.9	0.00	0.00	
3,500.0	10.33	324.84	3,450.3	458.5	-323.0	560.8	0.00	0.00	
3,600.0	10.33	324.84	3,548.6	473.2	-333.3	578.7	0.00	0.00	
3,700.0	10.33	324.84	3,647.0	487.8	-343.6	596.7	0.00	0.00	
3,800.0	10.33	324.84	3,745.4	502.5	-353.9	614.6	0.00	0.00	
3,900.0	10.33	324.84	3,843.8	517.1	-364.3	632.5	0.00	0.00	
4,000.0	10.33	324.84	3,942.2	531.8	-374.6	650.5	0.00	0.00	
4,100.0	10.33	324.84	4,040.5	546.4	-384.9	668.4	0.00	0.00	
4,200.0	10.33	324.84	4,138.9	561.1	-395.2	686.3	0.00	0.00	
4,300.0	10.33	324.84	4,237.3	575.7	-405.5	704.2	0.00	0.00	
4,400.0	10.33	324.84	4,335.7	590.4	-415.9	722.2	0.00	0.00	
4,445.1	10.33	324.84	4,380.0	597.0	-420.5	730.2	0.00	0.00	Ohio Creek
4,500.0	10.33	324.84	4,434.1	605.1	-426.2	740.1	0.00	0.00	
4,600.0	10.33	324.84	4,532.4	619.7	-436.5	758.0	0.00	0.00	
4,700.0	10.33	324.84	4,630.8	634.4	-446.8	775.9	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Project:	Mamm Creek	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site:	K28NW Pad	North Reference:	True
Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	10.33	324.84	4,729.2	649.0	-457.2	793.9	0.00	0.00	
4,900.0	10.33	324.84	4,827.6	663.7	-467.5	811.8	0.00	0.00	
4,924.8	10.33	324.84	4,852.0	667.3	-470.1	816.2	0.00	0.00	Mesa Verde
5,000.0	10.33	324.84	4,926.0	678.3	-477.8	829.7	0.00	0.00	
5,100.0	10.33	324.84	5,024.3	693.0	-488.1	847.7	0.00	0.00	
5,200.0	10.33	324.84	5,122.7	707.6	-498.5	865.6	0.00	0.00	
5,300.0	10.33	324.84	5,221.1	722.3	-508.8	883.5	0.00	0.00	
5,400.0	10.33	324.84	5,319.5	737.0	-519.1	901.4	0.00	0.00	
5,500.0	10.33	324.84	5,417.9	751.6	-529.4	919.4	0.00	0.00	
5,516.4	10.33	324.84	5,434.0	754.0	-531.1	922.3	0.00	0.00	Williams Fork
5,600.0	10.33	324.84	5,516.2	766.3	-539.8	937.3	0.00	0.00	
5,700.0	10.33	324.84	5,614.6	780.9	-550.1	955.2	0.00	0.00	
5,800.0	10.33	324.84	5,713.0	795.6	-560.4	973.1	0.00	0.00	
5,900.0	10.33	324.84	5,811.4	810.2	-570.7	991.1	0.00	0.00	
6,000.0	10.33	324.84	5,909.8	824.9	-581.0	1,009.0	0.00	0.00	
6,100.0	10.33	324.84	6,008.1	839.6	-591.4	1,026.9	0.00	0.00	
6,194.8	10.33	324.84	6,101.4	853.5	-601.2	1,043.9	0.00	0.00	Start Drop -2.00
6,200.0	10.22	324.84	6,106.5	854.2	-601.7	1,044.8	2.00	-2.00	
6,300.0	8.22	324.84	6,205.2	867.3	-610.9	1,060.9	2.00	-2.00	
6,400.0	6.22	324.84	6,304.4	877.6	-618.2	1,073.4	2.00	-2.00	
6,500.0	4.22	324.84	6,404.0	885.0	-623.4	1,082.6	2.00	-2.00	
6,600.0	2.22	324.84	6,503.8	889.6	-626.6	1,088.2	2.00	-2.00	
6,700.0	0.22	324.84	6,603.8	891.4	-627.9	1,090.3	2.00	-2.00	
6,711.2	0.00	0.00	6,615.0	891.4	-627.9	1,090.3	2.00	-2.00	EOD; Inc=0° - Top of Gas - Benjamin Fee 28-6C
6,800.0	0.00	0.00	6,703.8	891.4	-627.9	1,090.3	0.00	0.00	
6,900.0	0.00	0.00	6,803.8	891.4	-627.9	1,090.3	0.00	0.00	
7,000.0	0.00	0.00	6,903.8	891.4	-627.9	1,090.3	0.00	0.00	
7,100.0	0.00	0.00	7,003.8	891.4	-627.9	1,090.3	0.00	0.00	
7,200.0	0.00	0.00	7,103.8	891.4	-627.9	1,090.3	0.00	0.00	
7,300.0	0.00	0.00	7,203.8	891.4	-627.9	1,090.3	0.00	0.00	
7,400.0	0.00	0.00	7,303.8	891.4	-627.9	1,090.3	0.00	0.00	
7,500.0	0.00	0.00	7,403.8	891.4	-627.9	1,090.3	0.00	0.00	
7,600.0	0.00	0.00	7,503.8	891.4	-627.9	1,090.3	0.00	0.00	
7,700.0	0.00	0.00	7,603.8	891.4	-627.9	1,090.3	0.00	0.00	
7,800.0	0.00	0.00	7,703.8	891.4	-627.9	1,090.3	0.00	0.00	
7,900.0	0.00	0.00	7,803.8	891.4	-627.9	1,090.3	0.00	0.00	
7,920.2	0.00	0.00	7,824.0	891.4	-627.9	1,090.3	0.00	0.00	Coal Ridge
8,000.0	0.00	0.00	7,903.8	891.4	-627.9	1,090.3	0.00	0.00	
8,100.0	0.00	0.00	8,003.8	891.4	-627.9	1,090.3	0.00	0.00	
8,200.0	0.00	0.00	8,103.8	891.4	-627.9	1,090.3	0.00	0.00	
8,300.0	0.00	0.00	8,203.8	891.4	-627.9	1,090.3	0.00	0.00	
8,400.0	0.00	0.00	8,303.8	891.4	-627.9	1,090.3	0.00	0.00	
8,500.0	0.00	0.00	8,403.8	891.4	-627.9	1,090.3	0.00	0.00	
8,586.2	0.00	0.00	8,490.0	891.4	-627.9	1,090.3	0.00	0.00	Base Cameo A Coal
8,600.0	0.00	0.00	8,503.8	891.4	-627.9	1,090.3	0.00	0.00	
8,681.2	0.00	0.00	8,585.0	891.4	-627.9	1,090.3	0.00	0.00	Rollins
8,700.0	0.00	0.00	8,603.8	891.4	-627.9	1,090.3	0.00	0.00	
8,736.2	0.00	0.00	8,640.0	891.4	-627.9	1,090.3	0.00	0.00	Drillers TD @ 8640' TVD - Benjamin Fee 28-6C
8,800.0	0.00	0.00	8,703.8	891.4	-627.9	1,090.3	0.00	0.00	
8,900.0	0.00	0.00	8,803.8	891.4	-627.9	1,090.3	0.00	0.00	
9,000.0	0.00	0.00	8,903.8	891.4	-627.9	1,090.3	0.00	0.00	
9,036.2	0.00	0.00	8,940.0	891.4	-627.9	1,090.3	0.00	0.00	Permit TD @ 8940' TVD

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Project:	Mamm Creek	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site:	K28NW Pad	North Reference:	True
Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Benjamin Fee 28-6C BH	0.00	0.00	8,640.0	891.4	-627.9	1,614,080.29	2,355,923.29	39.497203	-107.782633
- plan hits target center									
- Circle (radius 25.0)									
Benjamin Fee 28-6C TO	0.00	0.00	6,615.0	891.4	-627.9	1,614,080.29	2,355,923.29	39.497203	-107.782633
- plan hits target center									
- Point									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(in)	(in)
1,354.0	1,339.0	Surface Casing		

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
2,265.7	2,236.0	G Sand			
4,445.1	4,380.0	Ohio Creek			
4,924.8	4,852.0	Mesa Verde			
5,516.4	5,434.0	Williams Fork			
6,711.2	6,615.0	Top of Gas			
7,920.2	7,824.0	Coal Ridge			
8,586.2	8,490.0	Base Cameo A Coal			
8,681.2	8,585.0	Rollins			

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
544.2	542.4	25.3	-17.8	EOB; Inc=10.3°
6,194.8	6,101.4	853.5	-601.2	Start Drop -2.00
6,711.2	6,615.0	891.4	-627.9	EOD; Inc=0°
8,736.2	8,640.0	891.4	-627.9	Drillers TD @ 8640' TVD
9,036.2	8,940.0	891.4	-627.9	Permit TD @ 8940' TVD