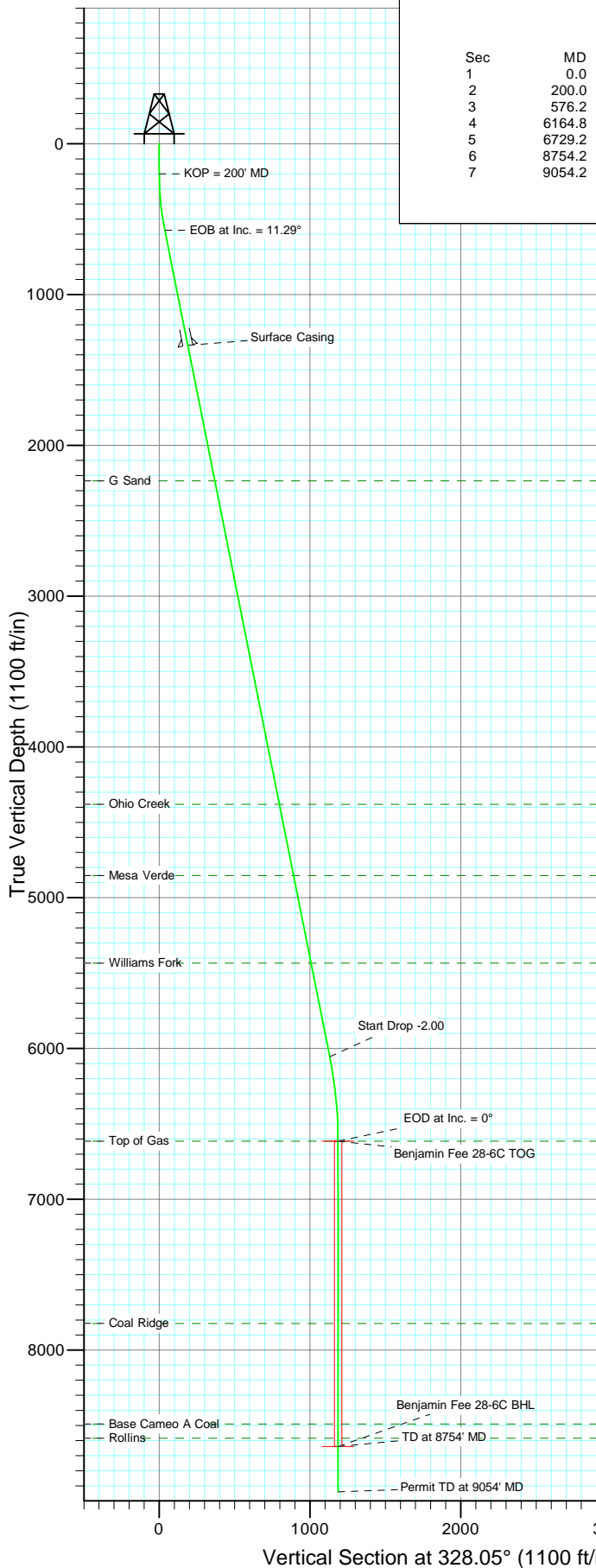


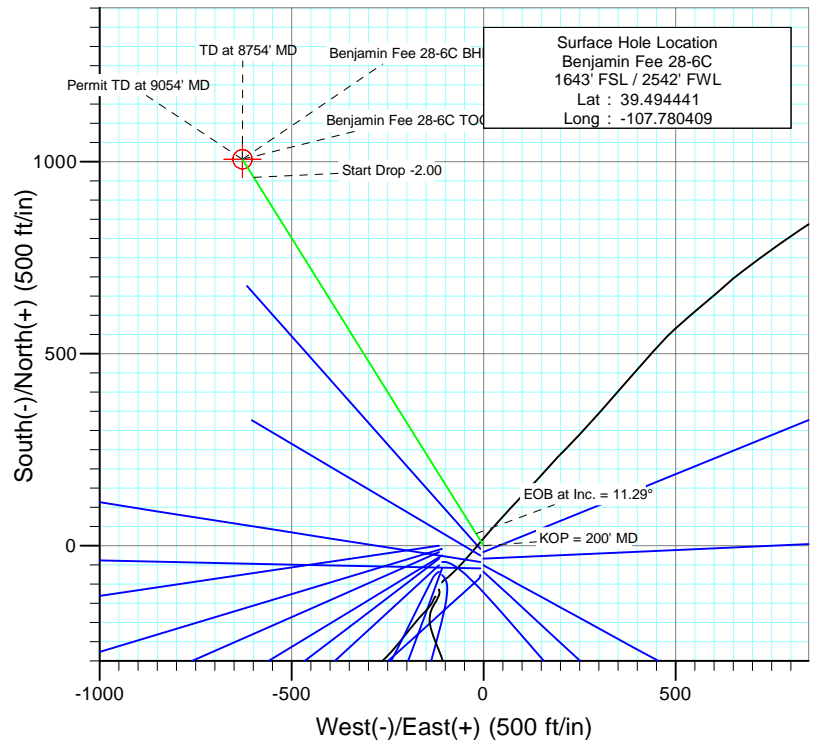


Project: Mamm Creek
Site: K28NW Pad
Well: Benjamin Fee 28-6C
Wellbore: DD
Design: Plan #2



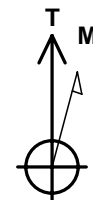
SECTION DETAILS

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	576.2	11.29	328.05	573.8	31.3	-19.5	3.00	328.05	36.9	
4	6164.8	11.29	328.05	6054.3	959.4	-598.4	0.00	0.00	1130.7	
5	6729.2	0.00	0.00	6615.0	1006.4	-627.7	2.00	180.00	1186.1	Benjamin Fee 28-6C TOG
6	8754.2	0.00	0.00	8640.0	1006.4	-627.7	0.00	0.00	1186.1	Benjamin Fee 28-6C BHL
7	9054.2	0.00	0.00	8940.0	1006.4	-627.7	0.00	0.00	1186.1	



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2236.0	2271.2	G Sand
4380.0	4457.5	Ohio Creek
4852.0	4938.8	Mesa Verde
5434.0	5532.3	Williams Fork
6615.0	6729.2	Top of Gas
7824.0	7938.2	Coal Ridge
8490.0	8604.2	Base Cameo A Coal
8585.0	8699.2	Rollins



Azimuths to True North
Magnetic North: 10.30°

Magnetic Field
Strength: 52364.7nT
Dip Angle: 65.81°
Date: 11/24/2010
Model: IGRF200510

Plan #2
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
	Benjamin Fee 28-6C BHL	328.05	Slot		0.0	0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
Benjamin Fee 28-6C BHL	8640.0	1006.4	-627.7	39.497204	-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 #2		

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:	1,613,058.89 ft	Latitude:	39.494441
	+E/-W	0.0 ft	Easting:	2,356,525.55 ft	Longitude:	-107.780409
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	11/24/2010	10.30	65.81	52,365

Design	Plan #2			
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	328.05

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	
576.2	11.29	328.05	573.8	31.3	-19.5	3.00	3.00	0.00	328.05	
6,164.8	11.29	328.05	6,054.3	959.4	-598.4	0.00	0.00	0.00	0.00	
6,729.2	0.00	0.00	6,615.0	1,006.4	-627.7	2.00	-2.00	0.00	180.00	Benjamin Fee 28-6C
8,754.2	0.00	0.00	8,640.0	1,006.4	-627.7	0.00	0.00	0.00	0.00	Benjamin Fee 28-6C
9,054.2	0.00	0.00	8,940.0	1,006.4	-627.7	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 #2		

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' MD
300.0	3.00	328.05	300.0	2.2	-1.4	2.6	3.00	3.00	
400.0	6.00	328.05	399.6	8.9	-5.5	10.5	3.00	3.00	
500.0	9.00	328.05	498.8	20.0	-12.4	23.5	3.00	3.00	
576.2	11.29	328.05	573.8	31.3	-19.5	36.9	3.00	3.00	EOB at Inc. = 11.29°
600.0	11.29	328.05	597.1	35.3	-22.0	41.6	0.00	0.00	
700.0	11.29	328.05	695.2	51.9	-32.4	61.2	0.00	0.00	
800.0	11.29	328.05	793.2	68.5	-42.7	80.7	0.00	0.00	
900.0	11.29	328.05	891.3	85.1	-53.1	100.3	0.00	0.00	
1,000.0	11.29	328.05	989.4	101.7	-63.4	119.9	0.00	0.00	
1,100.0	11.29	328.05	1,087.4	118.3	-73.8	139.4	0.00	0.00	
1,200.0	11.29	328.05	1,185.5	134.9	-84.2	159.0	0.00	0.00	
1,300.0	11.29	328.05	1,283.6	151.5	-94.5	178.6	0.00	0.00	
1,354.0	11.29	328.05	1,336.5	160.5	-100.1	189.2	0.00	0.00	Surface Casing
1,400.0	11.29	328.05	1,381.6	168.1	-104.9	198.2	0.00	0.00	
1,500.0	11.29	328.05	1,479.7	184.7	-115.2	217.7	0.00	0.00	
1,600.0	11.29	328.05	1,577.8	201.4	-125.6	237.3	0.00	0.00	
1,700.0	11.29	328.05	1,675.8	218.0	-135.9	256.9	0.00	0.00	
1,800.0	11.29	328.05	1,773.9	234.6	-146.3	276.4	0.00	0.00	
1,900.0	11.29	328.05	1,872.0	251.2	-156.7	296.0	0.00	0.00	
2,000.0	11.29	328.05	1,970.0	267.8	-167.0	315.6	0.00	0.00	
2,100.0	11.29	328.05	2,068.1	284.4	-177.4	335.2	0.00	0.00	
2,200.0	11.29	328.05	2,166.2	301.0	-187.7	354.7	0.00	0.00	
2,271.2	11.29	328.05	2,236.0	312.8	-195.1	368.7	0.00	0.00	G Sand
2,300.0	11.29	328.05	2,264.2	317.6	-198.1	374.3	0.00	0.00	
2,400.0	11.29	328.05	2,362.3	334.2	-208.4	393.9	0.00	0.00	
2,500.0	11.29	328.05	2,460.4	350.8	-218.8	413.4	0.00	0.00	
2,600.0	11.29	328.05	2,558.4	367.4	-229.2	433.0	0.00	0.00	
2,700.0	11.29	328.05	2,656.5	384.0	-239.5	452.6	0.00	0.00	
2,800.0	11.29	328.05	2,754.6	400.6	-249.9	472.2	0.00	0.00	
2,900.0	11.29	328.05	2,852.6	417.2	-260.2	491.7	0.00	0.00	
3,000.0	11.29	328.05	2,950.7	433.8	-270.6	511.3	0.00	0.00	
3,100.0	11.29	328.05	3,048.8	450.4	-280.9	530.9	0.00	0.00	
3,200.0	11.29	328.05	3,146.8	467.1	-291.3	550.5	0.00	0.00	
3,300.0	11.29	328.05	3,244.9	483.7	-301.7	570.0	0.00	0.00	
3,400.0	11.29	328.05	3,343.0	500.3	-312.0	589.6	0.00	0.00	
3,500.0	11.29	328.05	3,441.0	516.9	-322.4	609.2	0.00	0.00	
3,600.0	11.29	328.05	3,539.1	533.5	-332.7	628.7	0.00	0.00	
3,700.0	11.29	328.05	3,637.2	550.1	-343.1	648.3	0.00	0.00	
3,800.0	11.29	328.05	3,735.2	566.7	-353.4	667.9	0.00	0.00	
3,900.0	11.29	328.05	3,833.3	583.3	-363.8	687.5	0.00	0.00	
4,000.0	11.29	328.05	3,931.4	599.9	-374.2	707.0	0.00	0.00	
4,100.0	11.29	328.05	4,029.4	616.5	-384.5	726.6	0.00	0.00	
4,200.0	11.29	328.05	4,127.5	633.1	-394.9	746.2	0.00	0.00	
4,300.0	11.29	328.05	4,225.6	649.7	-405.2	765.7	0.00	0.00	
4,400.0	11.29	328.05	4,323.6	666.3	-415.6	785.3	0.00	0.00	
4,457.5	11.29	328.05	4,380.0	675.9	-421.5	796.6	0.00	0.00	Ohio Creek
4,500.0	11.29	328.05	4,421.7	682.9	-425.9	804.9	0.00	0.00	
4,600.0	11.29	328.05	4,519.8	699.5	-436.3	824.5	0.00	0.00	
4,700.0	11.29	328.05	4,617.8	716.1	-446.7	844.0	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 #2		

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	11.29	328.05	4,715.9	732.8	-457.0	863.6	0.00	0.00	
4,900.0	11.29	328.05	4,814.0	749.4	-467.4	883.2	0.00	0.00	
4,938.8	11.29	328.05	4,852.0	755.8	-471.4	890.8	0.00	0.00	Mesa Verde
5,000.0	11.29	328.05	4,912.0	766.0	-477.7	902.7	0.00	0.00	
5,100.0	11.29	328.05	5,010.1	782.6	-488.1	922.3	0.00	0.00	
5,200.0	11.29	328.05	5,108.2	799.2	-498.4	941.9	0.00	0.00	
5,300.0	11.29	328.05	5,206.2	815.8	-508.8	961.5	0.00	0.00	
5,400.0	11.29	328.05	5,304.3	832.4	-519.2	981.0	0.00	0.00	
5,500.0	11.29	328.05	5,402.3	849.0	-529.5	1,000.6	0.00	0.00	
5,532.3	11.29	328.05	5,434.0	854.4	-532.9	1,006.9	0.00	0.00	Williams Fork
5,600.0	11.29	328.05	5,500.4	865.6	-539.9	1,020.2	0.00	0.00	
5,700.0	11.29	328.05	5,598.5	882.2	-550.2	1,039.7	0.00	0.00	
5,800.0	11.29	328.05	5,696.5	898.8	-560.6	1,059.3	0.00	0.00	
5,900.0	11.29	328.05	5,794.6	915.4	-571.0	1,078.9	0.00	0.00	
6,000.0	11.29	328.05	5,892.7	932.0	-581.3	1,098.5	0.00	0.00	
6,100.0	11.29	328.05	5,990.7	948.6	-591.7	1,118.0	0.00	0.00	
6,164.8	11.29	328.05	6,054.3	959.4	-598.4	1,130.7	0.00	0.00	Start Drop -2.00
6,200.0	10.58	328.05	6,088.9	965.1	-601.9	1,137.4	2.00	-2.00	
6,300.0	8.58	328.05	6,187.5	979.2	-610.7	1,154.0	2.00	-2.00	
6,400.0	6.58	328.05	6,286.6	990.4	-617.7	1,167.2	2.00	-2.00	
6,500.0	4.58	328.05	6,386.1	998.6	-622.9	1,177.0	2.00	-2.00	
6,600.0	2.58	328.05	6,485.9	1,003.9	-626.2	1,183.2	2.00	-2.00	
6,700.0	0.58	328.05	6,585.8	1,006.3	-627.6	1,186.0	2.00	-2.00	
6,729.2	0.00	0.00	6,615.0	1,006.4	-627.7	1,186.1	2.00	-2.00	EOD at Inc. = 0° - Top of Gas - Benjamin Fee 2
6,800.0	0.00	0.00	6,685.8	1,006.4	-627.7	1,186.1	0.00	0.00	
6,900.0	0.00	0.00	6,785.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,000.0	0.00	0.00	6,885.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,100.0	0.00	0.00	6,985.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,200.0	0.00	0.00	7,085.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,300.0	0.00	0.00	7,185.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,400.0	0.00	0.00	7,285.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,500.0	0.00	0.00	7,385.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,600.0	0.00	0.00	7,485.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,700.0	0.00	0.00	7,585.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,800.0	0.00	0.00	7,685.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,900.0	0.00	0.00	7,785.8	1,006.4	-627.7	1,186.1	0.00	0.00	
7,938.2	0.00	0.00	7,824.0	1,006.4	-627.7	1,186.1	0.00	0.00	Coal Ridge
8,000.0	0.00	0.00	7,885.8	1,006.4	-627.7	1,186.1	0.00	0.00	
8,100.0	0.00	0.00	7,985.8	1,006.4	-627.7	1,186.1	0.00	0.00	
8,200.0	0.00	0.00	8,085.8	1,006.4	-627.7	1,186.1	0.00	0.00	
8,300.0	0.00	0.00	8,185.8	1,006.4	-627.7	1,186.1	0.00	0.00	
8,400.0	0.00	0.00	8,285.8	1,006.4	-627.7	1,186.1	0.00	0.00	
8,500.0	0.00	0.00	8,385.8	1,006.4	-627.7	1,186.1	0.00	0.00	
8,600.0	0.00	0.00	8,485.8	1,006.4	-627.7	1,186.1	0.00	0.00	
8,604.2	0.00	0.00	8,490.0	1,006.4	-627.7	1,186.1	0.00	0.00	Base Cameo A Coal
8,699.2	0.00	0.00	8,585.0	1,006.4	-627.7	1,186.1	0.00	0.00	Rollins
8,700.0	0.00	0.00	8,585.8	1,006.4	-627.7	1,186.1	0.00	0.00	
8,754.2	0.00	0.00	8,640.0	1,006.4	-627.7	1,186.1	0.00	0.00	TD at 8754' MD - Benjamin Fee 28-6C BHL
8,800.0	0.00	0.00	8,685.8	1,006.4	-627.7	1,186.1	0.00	0.00	
8,900.0	0.00	0.00	8,785.8	1,006.4	-627.7	1,186.1	0.00	0.00	
9,000.0	0.00	0.00	8,885.8	1,006.4	-627.7	1,186.1	0.00	0.00	
9,054.2	0.00	0.00	8,940.0	1,006.4	-627.7	1,186.1	0.00	0.00	Permit TD at 9054' MD

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 #2		

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Benjamin Fee 28-6C BH - plan hits target center - Circle (radius 25.0)	0.00	0.00	8,640.0	1,006.4	-627.7	1,614,080.74	2,355,923.31	39.497204	-107.782633
Benjamin Fee 28-6C TO - plan hits target center - Point	0.00	0.00	6,615.0	1,006.4	-627.7	1,614,080.74	2,355,923.31	39.497204	-107.782633

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,354.0	1,336.5	Surface Casing		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,271.2	2,236.0	G Sand			
4,457.5	4,380.0	Ohio Creek			
4,938.8	4,852.0	Mesa Verde			
5,532.3	5,434.0	Williams Fork			
6,729.2	6,615.0	Top of Gas			
7,938.2	7,824.0	Coal Ridge			
8,604.2	8,490.0	Base Cameo A Coal			
8,699.2	8,585.0	Rollins			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP = 200' MD
576.2	573.8	31.3	-19.5	EOB at Inc. = 11.29°
6,164.8	6,054.3	959.4	-598.4	Start Drop -2.00
6,729.2	6,615.0	1,006.4	-627.7	EOD at Inc. = 0°
8,754.2	8,640.0	1,006.4	-627.7	TD at 8754' MD
9,054.2	8,940.0	1,006.4	-627.7	Permit TD at 9054' MD

EnCana Oil & Gas (USA) Inc

Mamm Creek

K28NW Pad

Benjamin Fee 28-6C

DD

Plan #2

Anticollision Report

23 November, 2010

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.0ft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 1,105.4ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	Systematic Ellipse
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic

Survey Tool Program	Date	11/23/2010
From (ft)	To (ft)	Survey (Wellbore)
0.0	9,054.1	Plan #2 (DD)
		Tool Name
		MWD
		Description
		Geolink MWD

Cathedral Energy Services

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Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
K28NW Pad						
Benjamin 28-11 Existing - Existing - Existing	0.0	0.0	162.6			
Benjamin 28-11 Existing - Existing - Existing	100.0	99.2	162.8	162.6	600.291	ES
Benjamin 28-11 Existing - Existing - Existing	1,600.0	1,559.6	367.7	361.4	57.918	SF
Benjamin Federal 28-12B2 - DD - Plan #2	200.0	200.0	43.0	42.4	69.265	CC, ES
Benjamin Federal 28-12B2 - DD - Plan #2	900.0	884.4	133.7	128.7	26.642	SF
Benjamin Federal 28-12C1 - DD - Plan #2	200.0	200.0	59.9	59.3	96.457	CC, ES
Benjamin Federal 28-12C1 - DD - Plan #2	1,900.0	1,856.3	345.8	334.0	29.337	SF
Benjamin Federal 28-12C2 - DD - Plan #2	200.0	200.0	116.0	115.4	186.673	CC, ES
Benjamin Federal 28-12C2 - DD - Plan #2	3,500.0	3,271.1	1,098.4	1,075.6	48.161	SF
Benjamin Federal 28-13B1 - DD - Plan #2	200.0	200.0	108.4	107.8	174.478	CC, ES
Benjamin Federal 28-13B1 - DD - Plan #2	900.0	838.7	209.7	205.6	52.009	SF
Benjamin Federal 28-13B2 - DD - Plan #2	200.0	200.0	117.2	116.6	188.611	CC, ES
Benjamin Federal 28-13B2 - DD - Plan #2	900.0	833.1	224.8	220.8	56.754	SF
Benjamin Federal 28-13C1 - DD - Plan #2	200.0	200.0	111.0	110.3	178.583	CC, ES
Benjamin Federal 28-13C1 - DD - Plan #2	800.0	747.0	195.7	192.4	58.215	SF
Benjamin Federal 28-13C2 - DD - Plan #2	200.0	200.0	120.8	120.2	194.472	CC, ES
Benjamin Federal 28-13C2 - DD - Plan #2	800.0	743.0	208.5	205.2	62.741	SF
Benjamin Federal 28-14B1 - DD - Plan #2	200.0	200.0	76.9	76.3	123.809	CC, ES
Benjamin Federal 28-14B1 - DD - Plan #2	4,500.0	4,364.9	1,104.6	1,084.0	53.727	SF
Benjamin Federal 28-14B2 - DD - Plan #2	200.0	200.0	134.3	133.7	216.185	CC, ES
Benjamin Federal 28-14B2 - DD - Plan #2	1,400.0	1,332.2	391.6	385.8	66.553	SF
Benjamin Federal 28-14C - DD - Plan #2	200.0	200.0	123.2	122.6	198.340	CC, ES
Benjamin Federal 28-14C - DD - Plan #2	700.0	658.6	192.1	189.3	69.588	SF
Benjamin Federal 28-16C - DD - Plan #2	200.0	200.0	67.7	67.1	109.037	CC, ES
Benjamin Federal 28-16C - DD - Plan #2	500.0	486.2	106.9	105.2	63.092	SF
Benjamin Federal 33-3B - DD - Plan #2	200.0	200.0	132.3	131.7	212.986	CC, ES
Benjamin Federal 33-3B - DD - Plan #2	700.0	661.9	189.9	187.2	69.165	SF
Benjamin Federal 33-4B - DD - Plan #2	200.0	200.0	126.7	126.1	203.918	CC, ES
Benjamin Federal 33-4B - DD - Plan #2	800.0	739.3	222.5	219.2	67.685	SF
Benjamin Fee 28-10D2 - DD - Plan #2	200.0	200.0	33.9	33.3	54.518	CC, ES
Benjamin Fee 28-10D2 - DD - Plan #2	400.0	398.5	45.2	43.8	33.114	SF
Benjamin Fee 28-11A - DD - Plan #2	200.0	200.0	26.8	26.2	43.097	CC, ES
Benjamin Fee 28-11A - DD - Plan #2	9,054.2	8,978.4	680.1	642.6	18.136	SF
Benjamin Fee 28-11B - DD - Plan #2	200.0	200.0	11.7	11.1	18.849	CC, ES
Benjamin Fee 28-11B - DD - Plan #2	600.0	600.0	19.0	16.4	7.319	SF
Benjamin Fee 28-15A - DD - Plan #2	200.0	200.0	51.0	50.4	82.071	CC, ES
Benjamin Fee 28-15A - DD - Plan #2	400.0	395.5	66.4	65.0	49.365	SF
Benjamin Fee 28-9B - DD - Plan #2	200.0	200.0	16.8	16.1	26.966	CC, ES
Benjamin Fee 28-9B - DD - Plan #2	300.0	300.2	18.4	17.4	18.777	SF
Benjamin Fee 33-1B - DD - Plan #2	609.7	612.8	108.4	106.0	44.961	CC, ES
Benjamin Fee 33-1B - DD - Plan #2	800.0	788.1	126.0	122.7	38.012	SF
GMR 28-7D Existing - DD - Schlumberger Surveys	835.0	852.9	106.6	103.0	29.637	CC, ES
GMR 28-7D Existing - DD - Schlumberger Surveys	1,200.0	1,205.9	139.5	133.0	21.673	SF
GMU 28-14D Existing - Schlumberger Surveys - Schlumb	215.0	215.3	182.7	182.0	267.583	CC, ES
GMU 28-14D Existing - Schlumberger Surveys - Schlumb	1,200.0	1,135.5	327.7	322.7	66.069	SF

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Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin 28-11 Existing - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-134.57	-114.1	-115.8	162.6					
100.0	100.0	99.2	99.2	0.1	0.1	-134.57	-114.3	-116.0	162.8	162.6	0.27	600.291 ES		
200.0	200.0	199.1	199.0	0.3	0.3	-134.63	-114.8	-116.3	163.4	162.7	0.62	263.494		
300.0	300.0	299.0	299.0	0.5	0.5	-103.76	-115.6	-116.2	164.5	163.5	0.98	168.351		
400.0	399.6	398.7	398.7	0.7	0.7	-106.82	-117.1	-115.4	167.1	165.8	1.37	122.040		
500.0	498.8	495.5	495.5	1.0	0.8	-111.37	-119.3	-114.6	172.7	170.9	1.81	95.526		
600.0	597.1	592.1	592.0	1.3	1.0	-116.87	-122.1	-114.5	182.6	180.3	2.28	80.058		
700.0	695.2	687.6	687.4	1.7	1.2	-122.15	-125.4	-115.1	195.8	193.1	2.74	71.480		
800.0	793.2	784.3	784.1	2.1	1.4	-126.74	-129.3	-116.2	211.3	208.1	3.18	66.406		
900.0	891.3	880.7	880.4	2.5	1.5	-130.62	-133.5	-117.7	228.2	224.6	3.60	63.305		
1,000.0	989.4	977.4	976.9	2.8	1.7	-133.88	-137.9	-119.6	246.5	242.4	4.02	61.373		
1,100.0	1,087.4	1,074.5	1,073.9	3.2	1.9	-136.61	-142.5	-122.0	265.6	261.1	4.42	60.104		
1,200.0	1,185.5	1,172.2	1,171.4	3.6	2.1	-138.95	-147.0	-124.7	285.2	280.4	4.81	59.231		
1,300.0	1,283.6	1,269.3	1,268.4	4.0	2.3	-140.94	-151.5	-127.5	305.2	300.0	5.21	58.622		
1,400.0	1,381.6	1,366.4	1,365.4	4.4	2.5	-142.69	-156.1	-130.3	325.6	320.0	5.59	58.225		
1,500.0	1,479.7	1,463.2	1,462.0	4.7	2.7	-144.22	-160.8	-133.1	346.4	340.5	5.98	57.980		
1,600.0	1,577.8	1,559.6	1,558.3	5.1	2.9	-145.68	-165.7	-135.3	367.7	361.4	6.35	57.918 SF		
1,700.0	1,675.8	1,656.9	1,655.5	5.5	3.1	-147.07	-170.9	-137.0	389.4	382.6	6.72	57.967		
1,800.0	1,773.9	1,754.7	1,753.1	5.9	3.3	-148.37	-175.9	-138.3	411.1	404.0	7.08	58.063		
1,900.0	1,872.0	1,851.9	1,850.1	6.3	3.4	-149.59	-180.8	-139.2	432.9	425.5	7.44	58.210		
2,000.0	1,970.0	1,948.7	1,946.8	6.7	3.6	-150.72	-185.8	-139.8	455.0	447.2	7.79	58.403		
2,100.0	2,068.1	2,045.8	2,043.8	7.0	3.8	-151.79	-190.8	-140.2	477.2	469.1	8.14	58.636		
2,200.0	2,166.2	2,143.0	2,140.9	7.4	4.0	-152.80	-195.7	-140.2	499.6	491.1	8.48	58.887		
2,300.0	2,264.2	2,240.2	2,237.9	7.8	4.2	-153.76	-200.7	-139.9	522.2	513.3	8.83	59.162		
2,400.0	2,362.3	2,337.7	2,335.3	8.2	4.4	-154.69	-205.5	-139.2	544.7	535.6	9.16	59.446		
2,500.0	2,460.4	2,435.4	2,432.9	8.6	4.6	-155.57	-210.2	-138.3	567.4	557.9	9.50	59.735		
2,600.0	2,558.4	2,534.1	2,531.5	9.0	4.8	-156.42	-214.7	-137.2	590.0	580.1	9.83	59.995		
2,700.0	2,656.5	2,631.1	2,628.3	9.4	4.9	-157.20	-219.0	-135.9	612.5	602.3	10.16	60.258		
2,800.0	2,754.6	2,727.4	2,724.6	9.7	5.1	-157.93	-223.3	-134.6	635.2	624.7	10.49	60.529		
2,900.0	2,852.6	2,823.8	2,820.8	10.1	5.3	-158.61	-227.7	-133.2	658.1	647.3	10.82	60.801		
3,000.0	2,950.7	2,919.7	2,916.7	10.5	5.5	-159.24	-232.3	-131.9	681.2	670.1	11.15	61.078		
3,100.0	3,048.8	3,015.6	3,012.5	10.9	5.7	-159.85	-236.9	-130.4	704.6	693.1	11.48	61.368		
3,200.0	3,146.8	3,112.2	3,108.9	11.3	5.9	-160.43	-241.6	-128.6	728.1	716.3	11.81	61.659		
3,300.0	3,244.9	3,208.0	3,204.6	11.7	6.0	-160.99	-246.4	-126.7	751.8	739.7	12.14	61.954		
3,400.0	3,343.0	3,305.0	3,301.4	12.0	6.2	-161.51	-251.3	-124.8	775.6	763.2	12.46	62.236		
3,500.0	3,441.0	3,401.2	3,397.4	12.4	6.4	-162.01	-256.1	-122.8	799.6	786.8	12.79	62.518		
3,600.0	3,539.1	3,497.7	3,493.8	12.8	6.6	-162.49	-261.0	-120.6	823.6	810.5	13.12	62.793		
3,700.0	3,637.2	3,593.0	3,589.0	13.2	6.8	-162.93	-266.0	-118.5	847.8	834.3	13.44	63.071		
3,800.0	3,735.2	3,689.1	3,684.9	13.6	7.0	-163.35	-271.1	-116.5	872.1	858.4	13.77	63.337		
3,900.0	3,833.3	3,785.1	3,780.8	14.0	7.2	-163.74	-276.4	-114.4	896.6	882.5	14.10	63.598		
4,000.0	3,931.4	3,882.3	3,877.8	14.4	7.4	-164.11	-281.7	-112.4	921.2	906.8	14.43	63.841		
4,100.0	4,029.4	3,978.4	3,973.7	14.7	7.6	-164.45	-287.0	-110.6	945.8	931.0	14.76	64.074		
4,200.0	4,127.5	4,075.9	4,071.0	15.1	7.8	-164.77	-292.4	-108.8	970.4	955.3	15.09	64.288		
4,300.0	4,225.6	4,175.7	4,170.7	15.5	7.9	-165.08	-297.8	-107.1	994.9	979.5	15.43	64.466		
4,400.0	4,323.6	4,272.4	4,272.2	15.9	8.1	-165.38	-303.0	-105.4	1,019.0	1,003.2	15.77	64.603		
4,500.0	4,421.7	4,382.9	4,377.7	16.3	8.3	-165.71	-307.4	-103.3	1,042.6	1,026.4	16.12	64.694		
4,600.0	4,519.8	4,483.1	4,477.7	16.7	8.5	-166.06	-310.8	-100.6	1,065.5	1,049.1	16.44	64.794		
4,700.0	4,617.8	4,580.8	4,575.3	17.1	8.7	-166.40	-313.9	-97.8	1,088.4	1,071.6	16.77	64.903		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

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Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-12B2 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-169.04	-42.3	-8.2	43.0					
100.0	100.0	100.0	100.0	0.1	0.1	-169.04	-42.3	-8.2	43.0	42.8	0.27	158.067		
200.0	200.0	200.0	200.0	0.3	0.3	-169.04	-42.3	-8.2	43.0	42.4	0.62	69.265 CC, ES		
300.0	300.0	299.9	299.8	0.5	0.5	-135.99	-41.8	-10.8	45.1	44.1	0.98	45.863		
400.0	399.6	399.5	399.1	0.7	0.7	-133.21	-40.6	-18.5	51.2	49.8	1.40	36.554		
500.0	498.8	498.5	497.3	1.0	1.0	-129.80	-38.7	-31.2	61.5	59.6	1.92	32.052		
600.0	597.1	596.7	593.9	1.3	1.4	-126.54	-35.9	-48.7	76.1	73.6	2.57	29.675		
700.0	695.2	694.0	688.5	1.7	1.8	-122.26	-32.4	-71.0	93.0	89.7	3.32	28.041		
800.0	793.2	790.1	780.7	2.1	2.3	-116.93	-28.3	-97.5	111.9	107.8	4.15	26.994		
900.0	891.3	884.4	869.9	2.5	2.9	-111.32	-23.5	-128.1	133.7	128.7	5.02	26.642 SF		
1,000.0	989.4	976.6	955.4	2.8	3.6	-105.91	-18.2	-162.1	158.9	153.0	5.88	27.010		
1,100.0	1,087.4	1,071.8	1,042.8	3.2	4.3	-101.25	-12.4	-199.2	186.6	179.8	6.72	27.745		
1,200.0	1,185.5	1,166.9	1,130.2	3.6	5.0	-97.78	-6.6	-236.4	215.1	207.5	7.53	28.545		
1,300.0	1,283.6	1,262.0	1,217.6	4.0	5.7	-95.13	-0.7	-273.6	244.1	235.8	8.32	29.326		
1,400.0	1,381.6	1,357.2	1,304.9	4.4	6.4	-93.04	5.1	-310.7	273.6	264.5	9.10	30.055		
1,500.0	1,479.7	1,452.3	1,392.3	4.7	7.1	-91.35	10.9	-347.9	303.3	293.4	9.87	30.726		
1,600.0	1,577.8	1,547.4	1,479.7	5.1	7.9	-89.96	16.7	-385.1	333.2	322.6	10.63	31.337		
1,700.0	1,675.8	1,642.6	1,567.1	5.5	8.6	-88.80	22.5	-422.2	363.3	351.9	11.39	31.893		
1,800.0	1,773.9	1,737.7	1,654.5	5.9	9.3	-87.82	28.3	-459.4	393.5	381.3	12.15	32.398		
1,900.0	1,872.0	1,832.9	1,741.8	6.3	10.0	-86.98	34.2	-496.6	423.7	410.9	12.90	32.858		
2,000.0	1,970.0	1,928.0	1,829.2	6.7	10.7	-86.25	40.0	-533.7	454.1	440.4	13.65	33.278		
2,100.0	2,068.1	2,023.1	1,916.6	7.0	11.5	-85.61	45.8	-570.9	484.5	470.1	14.39	33.662		
2,200.0	2,166.2	2,118.3	2,004.0	7.4	12.2	-85.05	51.6	-608.1	515.0	499.8	15.14	34.015		
2,300.0	2,264.2	2,213.4	2,091.4	7.8	12.9	-84.54	57.4	-645.2	545.4	529.6	15.88	34.339		
2,400.0	2,362.3	2,308.5	2,178.7	8.2	13.6	-84.10	63.2	-682.4	576.0	559.3	16.63	34.638		
2,500.0	2,460.4	2,403.7	2,266.1	8.6	14.3	-83.69	69.0	-719.6	606.5	589.2	17.37	34.915		
2,600.0	2,558.4	2,498.8	2,353.5	9.0	15.1	-83.33	74.9	-756.7	637.1	619.0	18.11	35.172		
2,700.0	2,656.5	2,593.9	2,440.9	9.4	15.8	-83.00	80.7	-793.9	667.7	648.9	18.86	35.410		
2,800.0	2,754.6	2,689.1	2,528.3	9.7	16.5	-82.70	86.5	-831.1	698.3	678.7	19.60	35.632		
2,900.0	2,852.6	2,784.2	2,615.7	10.1	17.2	-82.42	92.3	-868.2	729.0	708.6	20.34	35.840		
3,000.0	2,950.7	2,879.3	2,703.0	10.5	18.0	-82.17	98.1	-905.4	759.6	738.5	21.08	36.034		
3,100.0	3,048.8	2,974.5	2,790.4	10.9	18.7	-81.93	103.9	-942.6	790.3	768.5	21.82	36.216		
3,200.0	3,146.8	3,069.6	2,877.8	11.3	19.4	-81.71	109.7	-979.7	821.0	798.4	22.56	36.387		
3,300.0	3,244.9	3,164.7	2,965.2	11.7	20.1	-81.51	115.6	-1,016.9	851.6	828.3	23.30	36.548		
3,400.0	3,343.0	3,259.9	3,052.6	12.0	20.9	-81.33	121.4	-1,054.0	882.3	858.3	24.04	36.700		
3,500.0	3,441.0	3,355.0	3,139.9	12.4	21.6	-81.15	127.2	-1,091.2	913.0	888.3	24.78	36.843		
3,600.0	3,539.1	3,450.1	3,227.3	12.8	22.3	-80.99	133.0	-1,128.4	943.7	918.2	25.52	36.979		
3,700.0	3,637.2	3,545.3	3,314.7	13.2	23.0	-80.83	138.8	-1,165.5	974.5	948.2	26.26	37.107		
3,800.0	3,735.2	3,640.4	3,402.1	13.6	23.7	-80.69	144.6	-1,202.7	1,005.2	978.2	27.00	37.229		
3,900.0	3,833.3	3,735.5	3,489.5	14.0	24.5	-80.55	150.4	-1,239.9	1,035.9	1,008.2	27.74	37.345		
4,000.0	3,931.4	3,830.7	3,576.8	14.4	25.2	-80.43	156.3	-1,277.0	1,066.6	1,038.2	28.48	37.455		
4,100.0	4,029.4	3,925.8	3,664.2	14.7	25.9	-80.31	162.1	-1,314.2	1,097.4	1,068.2	29.22	37.559		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-12C1 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-172.15	-59.4	-8.2	59.9					
100.0	100.0	100.0	100.0	0.1	0.1	-172.15	-59.4	-8.2	59.9	59.7	0.27	220.120		
200.0	200.0	200.0	200.0	0.3	0.3	-172.15	-59.4	-8.2	59.9	59.3	0.62	96.457 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-141.71	-59.4	-8.2	62.0	61.0	0.97	63.677		
400.0	399.6	399.6	399.6	0.7	0.7	-145.68	-59.4	-8.2	68.3	67.0	1.33	51.195		
500.0	498.8	498.8	498.8	1.0	0.8	-150.82	-59.4	-8.2	79.4	77.7	1.70	46.713		
600.0	597.1	597.1	597.1	1.3	1.0	-155.94	-59.4	-8.2	95.7	93.6	2.06	46.409		
700.0	695.2	695.2	695.2	1.7	1.2	-159.95	-59.4	-8.2	113.9	111.4	2.42	47.141		
800.0	793.2	794.1	794.1	2.1	1.3	-162.66	-59.4	-8.7	132.3	129.5	2.77	47.818		
900.0	891.3	894.7	894.5	2.5	1.5	-163.08	-59.3	-13.7	149.7	146.5	3.14	47.627		
1,000.0	989.4	995.6	994.9	2.8	1.7	-161.64	-59.0	-23.9	165.6	162.1	3.57	46.404		
1,100.0	1,087.4	1,096.3	1,094.4	3.2	2.0	-158.80	-58.7	-39.5	180.5	176.4	4.08	44.228		
1,200.0	1,185.5	1,196.2	1,192.2	3.6	2.3	-154.89	-58.3	-60.1	194.8	190.1	4.71	41.349		
1,300.0	1,283.6	1,294.9	1,287.5	4.0	2.7	-150.17	-57.8	-85.4	209.5	204.0	5.49	38.187		
1,400.0	1,381.6	1,391.8	1,379.8	4.4	3.3	-144.90	-57.1	-115.0	225.5	219.1	6.41	35.200		
1,500.0	1,479.7	1,486.4	1,468.3	4.7	3.8	-139.32	-56.4	-148.4	243.7	236.3	7.45	32.733		
1,600.0	1,577.8	1,578.5	1,552.7	5.1	4.5	-133.69	-55.7	-185.0	265.0	256.4	8.57	30.925		
1,700.0	1,675.8	1,670.4	1,635.6	5.5	5.2	-128.21	-54.9	-224.8	289.7	280.0	9.69	29.907		
1,800.0	1,773.9	1,763.4	1,719.3	5.9	6.0	-123.47	-54.0	-265.3	316.9	306.1	10.76	29.437		
1,900.0	1,872.0	1,856.3	1,803.0	6.3	6.7	-119.46	-53.2	-305.7	345.8	334.0	11.79	29.337 SF		
2,000.0	1,970.0	1,949.3	1,886.7	6.7	7.5	-116.05	-52.3	-346.1	376.2	363.4	12.76	29.471		
2,100.0	2,068.1	2,042.2	1,970.4	7.0	8.2	-113.13	-51.5	-386.6	407.6	393.9	13.70	29.750		
2,200.0	2,166.2	2,135.2	2,054.1	7.4	9.0	-110.63	-50.6	-427.0	439.9	425.2	14.60	30.118		
2,300.0	2,264.2	2,228.1	2,137.8	7.8	9.8	-108.45	-49.8	-467.5	472.8	457.3	15.48	30.539		
2,400.0	2,362.3	2,321.1	2,221.4	8.2	10.5	-106.56	-49.0	-507.9	506.3	489.9	16.34	30.990		
2,500.0	2,460.4	2,414.0	2,305.1	8.6	11.3	-104.90	-48.1	-548.3	540.2	523.0	17.18	31.453		
2,600.0	2,558.4	2,507.0	2,388.8	9.0	12.1	-103.42	-47.3	-588.8	574.5	556.5	18.00	31.919		
2,700.0	2,656.5	2,599.9	2,472.5	9.4	12.9	-102.12	-46.4	-629.2	609.1	590.3	18.81	32.380		
2,800.0	2,754.6	2,692.9	2,556.2	9.7	13.6	-100.95	-45.6	-669.7	644.0	624.3	19.61	32.833		
2,900.0	2,852.6	2,785.8	2,639.9	10.1	14.4	-99.90	-44.7	-710.1	679.0	658.6	20.41	33.274		
3,000.0	2,950.7	2,878.8	2,723.6	10.5	15.2	-98.95	-43.9	-750.6	714.3	693.1	21.19	33.701		
3,100.0	3,048.8	2,971.7	2,807.3	10.9	16.0	-98.09	-43.0	-791.0	749.7	727.7	21.98	34.114		
3,200.0	3,146.8	3,064.7	2,890.9	11.3	16.8	-97.31	-42.2	-831.4	785.2	762.5	22.75	34.511		
3,300.0	3,244.9	3,157.6	2,974.6	11.7	17.5	-96.59	-41.4	-871.9	820.9	797.4	23.52	34.894		
3,400.0	3,343.0	3,250.6	3,058.3	12.0	18.3	-95.94	-40.5	-912.3	856.6	832.3	24.29	35.262		
3,500.0	3,441.0	3,343.5	3,142.0	12.4	19.1	-95.33	-39.7	-952.8	892.5	867.4	25.06	35.616		
3,600.0	3,539.1	3,436.5	3,225.7	12.8	19.9	-94.77	-38.8	-993.2	928.4	902.6	25.82	35.955		
3,700.0	3,637.2	3,529.4	3,309.4	13.2	20.7	-94.26	-38.0	-1,033.6	964.4	937.9	26.58	36.281		
3,800.0	3,735.2	3,622.4	3,393.1	13.6	21.5	-93.78	-37.1	-1,074.1	1,000.5	973.2	27.34	36.594		
3,900.0	3,833.3	3,715.3	3,476.7	14.0	22.2	-93.33	-36.3	-1,114.5	1,036.6	1,008.5	28.10	36.895		
4,000.0	3,931.4	3,808.3	3,560.4	14.4	23.0	-92.92	-35.5	-1,155.0	1,072.8	1,044.0	28.85	37.183		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-12C2 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-116.0	116.0					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-116.0	116.0	115.7	0.27	425.998		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-116.0	116.0	115.4	0.62	186.673 CC, ES		
300.0	300.0	294.3	294.2	0.5	0.5	-59.21	-0.3	-118.3	117.1	116.1	0.97	121.105		
400.0	399.6	388.1	387.8	0.7	0.7	-62.54	-1.4	-125.1	120.6	119.3	1.34	89.882		
500.0	498.8	481.1	480.1	1.0	0.9	-67.56	-3.0	-136.4	127.5	125.7	1.78	71.713		
600.0	597.1	572.9	570.5	1.3	1.3	-73.57	-5.3	-151.9	138.6	136.4	2.29	60.530		
700.0	695.2	663.5	659.0	1.7	1.7	-78.95	-8.2	-171.4	155.7	152.8	2.85	54.699		
800.0	793.2	752.7	745.0	2.1	2.1	-82.82	-11.6	-194.6	178.3	174.9	3.44	51.906		
900.0	891.3	840.2	828.3	2.5	2.6	-85.38	-15.5	-221.1	205.8	201.7	4.05	50.783		
1,000.0	989.4	925.6	908.3	2.8	3.2	-86.96	-19.9	-250.7	237.6	232.9	4.69	50.690		
1,100.0	1,087.4	1,018.6	994.5	3.2	3.8	-88.06	-25.0	-285.2	271.7	266.4	5.36	50.688		
1,200.0	1,185.5	1,112.5	1,081.5	3.6	4.5	-88.93	-30.1	-319.9	306.0	300.0	6.05	50.566		
1,300.0	1,283.6	1,206.3	1,168.6	4.0	5.2	-89.62	-35.3	-354.7	340.3	333.6	6.75	50.400		
1,400.0	1,381.6	1,300.2	1,255.6	4.4	5.8	-90.18	-40.4	-389.5	374.7	367.2	7.46	50.221		
1,500.0	1,479.7	1,394.0	1,342.6	4.7	6.5	-90.65	-45.5	-424.3	409.1	400.9	8.17	50.041		
1,600.0	1,577.8	1,487.9	1,429.6	5.1	7.2	-91.05	-50.7	-459.1	443.5	434.6	8.89	49.869		
1,700.0	1,675.8	1,581.7	1,516.6	5.5	7.8	-91.39	-55.8	-493.8	477.9	468.3	9.61	49.707		
1,800.0	1,773.9	1,675.6	1,603.7	5.9	8.5	-91.68	-60.9	-528.6	512.3	502.0	10.34	49.556		
1,900.0	1,872.0	1,769.4	1,690.7	6.3	9.2	-91.94	-66.1	-563.4	546.8	535.7	11.06	49.416		
2,000.0	1,970.0	1,863.3	1,777.7	6.7	9.9	-92.17	-71.2	-598.2	581.2	569.4	11.79	49.287		
2,100.0	2,068.1	1,957.2	1,864.7	7.0	10.5	-92.37	-76.3	-633.0	615.7	603.1	12.52	49.168		
2,200.0	2,166.2	2,051.0	1,951.7	7.4	11.2	-92.55	-81.5	-667.7	650.1	636.9	13.25	49.058		
2,300.0	2,264.2	2,144.9	2,038.8	7.8	11.9	-92.71	-86.6	-702.5	684.6	670.6	13.98	48.956		
2,400.0	2,362.3	2,238.7	2,125.8	8.2	12.5	-92.86	-91.7	-737.3	719.1	704.4	14.72	48.862		
2,500.0	2,460.4	2,332.6	2,212.8	8.6	13.2	-92.99	-96.9	-772.1	753.5	738.1	15.45	48.774		
2,600.0	2,558.4	2,426.4	2,299.8	9.0	13.9	-93.11	-102.0	-806.9	788.0	771.8	16.18	48.693		
2,700.0	2,656.5	2,520.3	2,386.9	9.4	14.6	-93.23	-107.2	-841.6	822.5	805.6	16.92	48.617		
2,800.0	2,754.6	2,614.1	2,473.9	9.7	15.2	-93.33	-112.3	-876.4	857.0	839.3	17.65	48.547		
2,900.0	2,852.6	2,708.0	2,560.9	10.1	15.9	-93.42	-117.4	-911.2	891.5	873.1	18.39	48.481		
3,000.0	2,950.7	2,801.9	2,647.9	10.5	16.6	-93.51	-122.6	-946.0	926.0	906.8	19.12	48.419		
3,100.0	3,048.8	2,895.7	2,734.9	10.9	17.3	-93.59	-127.7	-980.8	960.5	940.6	19.86	48.361		
3,200.0	3,146.8	2,989.6	2,822.0	11.3	17.9	-93.67	-132.8	-1,015.5	995.0	974.4	20.60	48.307		
3,300.0	3,244.9	3,083.4	2,909.0	11.7	18.6	-93.74	-138.0	-1,050.3	1,029.4	1,008.1	21.33	48.255		
3,400.0	3,343.0	3,177.3	2,996.0	12.0	19.3	-93.80	-143.1	-1,085.1	1,063.9	1,041.9	22.07	48.207		
3,500.0	3,441.0	3,271.1	3,083.0	12.4	19.9	-93.86	-148.2	-1,119.9	1,098.4	1,075.6	22.81	48.161 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-13B1 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-94.43	-8.4	-108.1	108.4					
100.0	100.0	100.0	100.0	0.1	0.1	-94.43	-8.4	-108.1	108.4	108.1	0.27	398.167		
200.0	200.0	200.0	200.0	0.3	0.3	-94.43	-8.4	-108.1	108.4	107.8	0.62	174.478 CC, ES		
300.0	300.0	294.7	294.6	0.5	0.5	-63.86	-9.1	-110.3	109.7	108.7	0.97	113.262		
400.0	399.6	388.8	388.5	0.7	0.7	-67.75	-11.1	-117.0	113.8	112.4	1.35	84.435		
500.0	498.8	481.9	480.9	1.0	0.9	-73.49	-14.4	-128.0	121.8	120.0	1.79	68.097		
600.0	597.1	573.5	571.1	1.3	1.3	-80.15	-18.9	-142.9	135.0	132.7	2.30	58.594		
700.0	695.2	663.6	659.1	1.7	1.7	-85.95	-24.5	-161.7	154.5	151.6	2.85	54.137		
800.0	793.2	752.1	744.5	2.1	2.1	-90.03	-31.2	-184.0	179.6	176.2	3.43	52.371		
900.0	891.3	838.7	826.9	2.5	2.6	-92.71	-38.8	-209.4	209.7	205.6	4.03	52.009 SF		
1,000.0	989.4	923.1	906.0	2.8	3.2	-94.36	-47.3	-237.6	243.9	239.3	4.65	52.470		
1,100.0	1,087.4	1,011.1	987.2	3.2	3.8	-95.40	-57.0	-270.0	281.6	276.3	5.30	53.169		
1,200.0	1,185.5	1,103.5	1,072.4	3.6	4.5	-96.21	-67.4	-304.3	319.6	313.7	5.97	53.559		
1,300.0	1,283.6	1,195.9	1,157.6	4.0	5.2	-96.84	-77.7	-338.6	357.7	351.1	6.65	53.795		
1,400.0	1,381.6	1,288.3	1,242.8	4.4	5.8	-97.36	-88.0	-372.8	395.8	388.5	7.34	53.939		
1,500.0	1,479.7	1,380.7	1,327.9	4.7	6.5	-97.78	-98.3	-407.1	434.0	426.0	8.03	54.025		
1,600.0	1,577.8	1,473.1	1,413.1	5.1	7.2	-98.14	-108.6	-441.4	472.2	463.4	8.73	54.074		
1,700.0	1,675.8	1,565.5	1,498.3	5.5	7.9	-98.44	-118.9	-475.7	510.3	500.9	9.43	54.098		
1,800.0	1,773.9	1,657.9	1,583.5	5.9	8.5	-98.70	-129.2	-510.0	548.5	538.4	10.14	54.107		
1,900.0	1,872.0	1,750.3	1,668.6	6.3	9.2	-98.92	-139.5	-544.3	586.7	575.9	10.84	54.105		
2,000.0	1,970.0	1,842.7	1,753.8	6.7	9.9	-99.12	-149.8	-578.6	624.9	613.4	11.55	54.097		
2,100.0	2,068.1	1,935.1	1,839.0	7.0	10.6	-99.30	-160.1	-612.9	663.1	650.9	12.26	54.083		
2,200.0	2,166.2	2,027.5	1,924.2	7.4	11.3	-99.46	-170.4	-647.2	701.4	688.4	12.97	54.067		
2,300.0	2,264.2	2,119.9	2,009.3	7.8	12.0	-99.60	-180.7	-681.4	739.6	725.9	13.68	54.049		
2,400.0	2,362.3	2,212.3	2,094.5	8.2	12.6	-99.72	-191.1	-715.7	777.8	763.4	14.40	54.029		
2,500.0	2,460.4	2,304.7	2,179.7	8.6	13.3	-99.84	-201.4	-750.0	816.0	800.9	15.11	54.009		
2,600.0	2,558.4	2,397.0	2,264.9	9.0	14.0	-99.94	-211.7	-784.3	854.2	838.4	15.82	53.990		
2,700.0	2,656.5	2,489.4	2,350.0	9.4	14.7	-100.04	-222.0	-818.6	892.5	875.9	16.54	53.970		
2,800.0	2,754.6	2,581.8	2,435.2	9.7	15.4	-100.13	-232.3	-852.9	930.7	913.5	17.25	53.950		
2,900.0	2,852.6	2,674.2	2,520.4	10.1	16.1	-100.21	-242.6	-887.2	968.9	951.0	17.97	53.931		
3,000.0	2,950.7	2,766.6	2,605.5	10.5	16.8	-100.28	-252.9	-921.5	1,007.2	988.5	18.68	53.912		
3,100.0	3,048.8	2,859.0	2,690.7	10.9	17.4	-100.35	-263.2	-955.8	1,045.4	1,026.0	19.40	53.894		
3,200.0	3,146.8	2,951.4	2,775.9	11.3	18.1	-100.41	-273.5	-990.0	1,083.7	1,063.5	20.11	53.877		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-13B2 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-98.22	-16.8	-116.0	117.2					
100.0	100.0	100.0	100.0	0.1	0.1	-98.22	-16.8	-116.0	117.2	116.9	0.27	430.420		
200.0	200.0	200.0	200.0	0.3	0.3	-98.22	-16.8	-116.0	117.2	116.6	0.62	188.611	CC, ES	
300.0	300.0	294.3	294.3	0.5	0.5	-67.62	-17.7	-118.1	118.6	117.6	0.97	122.443		
400.0	399.6	388.0	387.7	0.7	0.7	-71.46	-20.5	-124.4	123.1	121.7	1.35	91.177		
500.0	498.8	480.5	479.5	1.0	0.9	-77.09	-25.1	-134.8	131.8	130.0	1.79	73.510		
600.0	597.1	571.3	569.0	1.3	1.3	-83.62	-31.3	-148.9	146.0	143.7	2.30	63.404		
700.0	695.2	660.4	656.0	1.7	1.6	-89.42	-39.0	-166.5	166.7	163.9	2.84	58.779		
800.0	793.2	747.8	740.3	2.1	2.1	-93.63	-48.2	-187.4	193.3	189.9	3.39	57.025		
900.0	891.3	833.1	821.6	2.5	2.6	-96.51	-58.7	-211.1	224.8	220.8	3.96	56.754	SF	
1,000.0	989.4	916.1	899.4	2.8	3.1	-98.40	-70.3	-237.4	260.6	256.1	4.55	57.306		
1,100.0	1,087.4	997.1	974.1	3.2	3.7	-99.58	-82.9	-266.0	300.4	295.3	5.15	58.337		
1,200.0	1,185.5	1,087.9	1,057.2	3.6	4.4	-100.50	-97.7	-299.5	341.9	336.2	5.79	59.038		
1,300.0	1,283.6	1,178.8	1,140.4	4.0	5.1	-101.21	-112.4	-333.1	383.5	377.1	6.44	59.511		
1,400.0	1,381.6	1,269.6	1,223.5	4.4	5.8	-101.79	-127.2	-366.6	425.2	418.0	7.11	59.835		
1,500.0	1,479.7	1,360.5	1,306.6	4.7	6.5	-102.27	-142.0	-400.1	466.8	459.0	7.77	60.060		
1,600.0	1,577.8	1,451.3	1,389.8	5.1	7.2	-102.66	-156.8	-433.7	508.5	500.0	8.44	60.218		
1,700.0	1,675.8	1,542.2	1,472.9	5.5	7.9	-103.00	-171.6	-467.2	550.2	541.0	9.12	60.330		
1,800.0	1,773.9	1,633.0	1,556.0	5.9	8.6	-103.29	-186.4	-500.8	591.9	582.1	9.80	60.410		
1,900.0	1,872.0	1,723.9	1,639.1	6.3	9.3	-103.54	-201.2	-534.3	633.6	623.1	10.48	60.466		
2,000.0	1,970.0	1,814.7	1,722.3	6.7	10.0	-103.76	-215.9	-567.8	675.3	664.1	11.16	60.506		
2,100.0	2,068.1	1,905.6	1,805.4	7.0	10.6	-103.96	-230.7	-601.4	717.0	705.2	11.85	60.534		
2,200.0	2,166.2	1,996.4	1,888.5	7.4	11.3	-104.13	-245.5	-634.9	758.8	746.2	12.53	60.552		
2,300.0	2,264.2	2,087.3	1,971.7	7.8	12.0	-104.28	-260.3	-668.5	800.5	787.3	13.22	60.563		
2,400.0	2,362.3	2,178.1	2,054.8	8.2	12.7	-104.42	-275.1	-702.0	842.3	828.4	13.91	60.570		
2,500.0	2,460.4	2,269.0	2,137.9	8.6	13.4	-104.55	-289.9	-735.5	884.0	869.4	14.59	60.573		
2,600.0	2,558.4	2,359.8	2,221.0	9.0	14.1	-104.67	-304.7	-769.1	925.8	910.5	15.28	60.573		
2,700.0	2,656.5	2,450.7	2,304.2	9.4	14.8	-104.77	-319.4	-802.6	967.5	951.5	15.97	60.570		
2,800.0	2,754.6	2,541.5	2,387.3	9.7	15.5	-104.87	-334.2	-836.2	1,009.3	992.6	16.66	60.567		
2,900.0	2,852.6	2,632.4	2,470.4	10.1	16.2	-104.96	-349.0	-869.7	1,051.0	1,033.7	17.35	60.562		
3,000.0	2,950.7	2,723.2	2,553.6	10.5	16.9	-105.04	-363.8	-903.3	1,092.8	1,074.8	18.05	60.556		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-13C1 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-103.28	-25.5	-108.0	111.0					
100.0	100.0	100.0	100.0	0.1	0.1	-103.28	-25.5	-108.0	111.0	110.7	0.27	407.536		
200.0	200.0	200.0	200.0	0.3	0.3	-103.28	-25.5	-108.0	111.0	110.3	0.62	178.583 CC, ES		
300.0	300.0	294.6	294.6	0.5	0.5	-72.85	-26.7	-110.0	112.5	111.6	0.97	116.060		
400.0	399.6	388.6	388.3	0.7	0.7	-77.10	-30.3	-115.9	117.7	116.4	1.35	86.916		
500.0	498.8	481.1	480.1	1.0	0.9	-83.19	-36.2	-125.6	127.7	125.9	1.80	70.955		
600.0	597.1	571.6	569.3	1.3	1.3	-90.04	-44.2	-138.8	144.0	141.7	2.31	62.415		
700.0	695.2	660.3	655.8	1.7	1.6	-95.99	-54.2	-155.2	167.0	164.1	2.83	59.039		
800.0	793.2	747.0	739.5	2.1	2.1	-100.21	-65.9	-174.5	195.7	192.4	3.36	58.215 SF		
900.0	891.3	831.4	820.0	2.5	2.6	-103.07	-79.2	-196.4	229.4	225.5	3.91	58.652		
1,000.0	989.4	913.4	896.9	2.8	3.1	-104.93	-93.9	-220.5	267.4	262.9	4.47	59.755		
1,100.0	1,087.4	992.7	970.2	3.2	3.7	-106.10	-109.7	-246.6	309.2	304.2	5.05	61.221		
1,200.0	1,185.5	1,071.8	1,041.9	3.6	4.3	-106.81	-127.0	-275.0	354.5	348.9	5.64	62.866		
1,300.0	1,283.6	1,160.3	1,121.6	4.0	5.0	-107.36	-146.9	-307.8	401.0	394.7	6.26	64.008		
1,400.0	1,381.6	1,248.8	1,201.4	4.4	5.7	-107.81	-166.8	-340.5	447.4	440.5	6.90	64.882		
1,500.0	1,479.7	1,337.3	1,281.2	4.7	6.5	-108.16	-186.7	-373.2	493.9	486.4	7.53	65.559		
1,600.0	1,577.8	1,425.8	1,361.0	5.1	7.2	-108.46	-206.6	-406.0	540.4	532.2	8.18	66.094		
1,700.0	1,675.8	1,514.3	1,440.8	5.5	7.9	-108.71	-226.5	-438.7	586.9	578.1	8.82	66.526		
1,800.0	1,773.9	1,602.8	1,520.6	5.9	8.6	-108.93	-246.4	-471.5	633.4	624.0	9.47	66.878		
1,900.0	1,872.0	1,691.3	1,600.3	6.3	9.4	-109.11	-266.3	-504.2	679.9	669.8	10.12	67.170		
2,000.0	1,970.0	1,779.8	1,680.1	6.7	10.1	-109.27	-286.2	-536.9	726.5	715.7	10.78	67.415		
2,100.0	2,068.1	1,868.3	1,759.9	7.0	10.8	-109.41	-306.1	-569.7	773.0	761.6	11.43	67.624		
2,200.0	2,166.2	1,956.8	1,839.7	7.4	11.5	-109.54	-326.0	-602.4	819.5	807.4	12.09	67.803		
2,300.0	2,264.2	2,045.3	1,919.5	7.8	12.3	-109.65	-345.9	-635.1	866.1	853.3	12.74	67.958		
2,400.0	2,362.3	2,133.8	1,999.2	8.2	13.0	-109.75	-365.8	-667.9	912.6	899.2	13.40	68.093		
2,500.0	2,460.4	2,222.3	2,079.0	8.6	13.7	-109.84	-385.7	-700.6	959.1	945.1	14.06	68.212		
2,600.0	2,558.4	2,310.8	2,158.8	9.0	14.4	-109.92	-405.5	-733.3	1,005.7	990.9	14.72	68.317		
2,700.0	2,656.5	2,399.3	2,238.6	9.4	15.2	-110.00	-425.4	-766.1	1,052.2	1,036.8	15.38	68.411		
2,800.0	2,754.6	2,487.8	2,318.4	9.7	15.9	-110.07	-445.3	-798.8	1,098.8	1,082.7	16.04	68.495		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-13C2 - DD - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-106.28	-33.9	-116.0	120.8				
100.0	100.0	100.0	100.0	0.1	0.1	-106.28	-33.9	-116.0	120.8	120.6	0.27	443.794	
200.0	200.0	200.0	200.0	0.3	0.3	-106.28	-33.9	-116.0	120.8	120.2	0.62	194.472	CC, ES
300.0	300.0	294.3	294.3	0.5	0.5	-75.78	-35.3	-117.8	122.5	121.5	0.97	126.336	
400.0	399.6	387.8	387.5	0.7	0.7	-79.85	-39.5	-123.3	127.9	126.5	1.36	94.366	
500.0	498.8	479.8	478.8	1.0	0.9	-85.71	-46.3	-132.3	138.3	136.5	1.80	76.779	
600.0	597.1	569.6	567.3	1.3	1.3	-92.34	-55.5	-144.3	155.2	152.9	2.30	67.378	
700.0	695.2	657.3	652.9	1.7	1.6	-98.24	-66.9	-159.3	178.9	176.1	2.81	63.648	
800.0	793.2	743.0	735.7	2.1	2.0	-102.56	-80.3	-177.0	208.5	205.2	3.32	62.741	SF
900.0	891.3	826.3	815.1	2.5	2.5	-105.60	-95.6	-196.9	243.2	239.3	3.85	63.242	
1,000.0	989.4	907.1	891.0	2.8	3.1	-107.68	-112.3	-218.9	282.2	277.8	4.38	64.478	
1,100.0	1,087.4	985.2	963.2	3.2	3.6	-109.07	-130.3	-242.6	325.2	320.2	4.92	66.071	
1,200.0	1,185.5	1,060.4	1,031.6	3.6	4.2	-109.97	-149.4	-267.6	371.7	366.2	5.47	67.891	
1,300.0	1,283.6	1,136.1	1,099.1	4.0	4.9	-110.56	-170.1	-294.8	421.4	415.4	6.04	69.824	
1,400.0	1,381.6	1,222.2	1,175.5	4.4	5.6	-111.05	-194.2	-326.4	472.1	465.5	6.63	71.178	
1,500.0	1,479.7	1,308.4	1,251.9	4.7	6.4	-111.45	-218.3	-358.1	522.8	515.6	7.24	72.247	
1,600.0	1,577.8	1,394.5	1,328.3	5.1	7.1	-111.78	-242.4	-389.7	573.5	565.7	7.85	73.099	
1,700.0	1,675.8	1,480.6	1,404.7	5.5	7.8	-112.05	-266.5	-421.4	624.3	615.8	8.46	73.791	
1,800.0	1,773.9	1,566.8	1,481.1	5.9	8.6	-112.28	-290.6	-453.0	675.0	666.0	9.08	74.363	
1,900.0	1,872.0	1,652.9	1,557.5	6.3	9.3	-112.48	-314.8	-484.7	725.8	716.1	9.70	74.843	
2,000.0	1,970.0	1,739.0	1,633.9	6.7	10.1	-112.66	-338.9	-516.3	776.6	766.2	10.32	75.249	
2,100.0	2,068.1	1,825.2	1,710.3	7.0	10.8	-112.81	-363.0	-548.0	827.3	816.4	10.94	75.597	
2,200.0	2,166.2	1,911.3	1,786.7	7.4	11.6	-112.94	-387.1	-579.6	878.1	866.5	11.57	75.897	
2,300.0	2,264.2	1,997.4	1,863.1	7.8	12.3	-113.06	-411.2	-611.2	928.9	916.7	12.20	76.158	
2,400.0	2,362.3	2,083.6	1,939.5	8.2	13.1	-113.17	-435.3	-642.9	979.6	966.8	12.82	76.387	
2,500.0	2,460.4	2,169.7	2,015.9	8.6	13.8	-113.27	-459.4	-674.5	1,030.4	1,017.0	13.45	76.590	
2,600.0	2,558.4	2,255.8	2,092.2	9.0	14.6	-113.36	-483.5	-706.2	1,081.2	1,067.1	14.08	76.770	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-14B1 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-173.89	-76.5	-8.2	76.9					
100.0	100.0	100.0	100.0	0.1	0.1	-173.89	-76.5	-8.2	76.9	76.7	0.27	282.538		
200.0	200.0	200.0	200.0	0.3	0.3	-173.89	-76.5	-8.2	76.9	76.3	0.62	123.809 CC, ES		
300.0	300.0	295.1	295.0	0.5	0.5	-142.96	-80.0	-8.5	82.7	81.7	0.96	85.725		
400.0	399.6	392.4	392.0	0.7	0.7	-143.42	-86.5	-12.5	95.9	94.6	1.33	71.980		
500.0	498.8	489.5	488.4	1.0	0.9	-143.06	-94.3	-20.8	115.0	113.3	1.74	66.114		
600.0	597.1	586.7	584.8	1.3	1.2	-143.73	-102.4	-29.7	138.4	136.3	2.18	63.445		
700.0	695.2	683.5	681.0	1.7	1.4	-144.76	-110.5	-38.6	163.1	160.5	2.64	61.799		
800.0	793.2	780.4	777.1	2.1	1.7	-145.51	-118.5	-47.5	187.8	184.7	3.10	60.541		
900.0	891.3	877.3	873.2	2.5	2.0	-146.10	-126.6	-56.4	212.5	208.9	3.57	59.563		
1,000.0	889.4	874.2	869.4	2.8	2.2	-146.55	-134.7	-65.3	237.2	233.2	4.04	58.788		
1,100.0	1,087.4	1,071.0	1,065.5	3.2	2.5	-146.93	-142.7	-74.2	262.0	257.5	4.50	58.160		
1,200.0	1,185.5	1,167.9	1,161.6	3.6	2.8	-147.24	-150.8	-83.1	286.7	281.8	4.97	57.642		
1,300.0	1,283.6	1,264.8	1,257.8	4.0	3.0	-147.50	-158.9	-92.0	311.5	306.0	5.44	57.209		
1,400.0	1,381.6	1,361.7	1,353.9	4.4	3.3	-147.72	-166.9	-100.9	336.3	330.3	5.92	56.841		
1,500.0	1,479.7	1,458.6	1,450.0	4.7	3.6	-147.91	-175.0	-109.8	361.0	354.6	6.39	56.525		
1,600.0	1,577.8	1,555.4	1,546.1	5.1	3.8	-148.08	-183.1	-118.8	385.8	378.9	6.86	56.251		
1,700.0	1,675.8	1,652.3	1,642.3	5.5	4.1	-148.22	-191.1	-127.7	410.6	403.2	7.33	56.011		
1,800.0	1,773.9	1,749.2	1,738.4	5.9	4.4	-148.35	-199.2	-136.6	435.3	427.5	7.80	55.799		
1,900.0	1,872.0	1,846.1	1,834.5	6.3	4.7	-148.47	-207.3	-145.5	460.1	451.8	8.27	55.611		
2,000.0	1,970.0	1,942.9	1,930.7	6.7	4.9	-148.57	-215.4	-154.4	484.9	476.2	8.75	55.443		
2,100.0	2,068.1	2,039.8	2,026.8	7.0	5.2	-148.66	-223.4	-163.3	509.7	500.5	9.22	55.291		
2,200.0	2,166.2	2,136.7	2,122.9	7.4	5.5	-148.75	-231.5	-172.2	534.5	524.8	9.69	55.154		
2,300.0	2,264.2	2,233.6	2,219.0	7.8	5.7	-148.83	-239.6	-181.1	559.2	549.1	10.16	55.030		
2,400.0	2,362.3	2,330.5	2,315.2	8.2	6.0	-148.90	-247.6	-190.0	584.0	573.4	10.63	54.916		
2,500.0	2,460.4	2,427.3	2,411.3	8.6	6.3	-148.96	-255.7	-198.9	608.8	597.7	11.11	54.812		
2,600.0	2,558.4	2,524.2	2,507.4	9.0	6.5	-149.02	-263.8	-207.8	633.6	622.0	11.58	54.716		
2,700.0	2,656.5	2,621.1	2,603.6	9.4	6.8	-149.08	-271.8	-216.7	658.4	646.3	12.05	54.628		
2,800.0	2,754.6	2,718.0	2,699.7	9.7	7.1	-149.13	-279.9	-225.6	683.2	670.6	12.52	54.546		
2,900.0	2,852.6	2,814.8	2,795.8	10.1	7.4	-149.18	-288.0	-234.5	708.0	695.0	13.00	54.470		
3,000.0	2,950.7	2,911.7	2,892.0	10.5	7.6	-149.22	-296.0	-243.5	732.7	719.3	13.47	54.400		
3,100.0	3,048.8	3,008.6	2,988.1	10.9	7.9	-149.27	-304.1	-252.4	757.5	743.6	13.94	54.334		
3,200.0	3,146.8	3,105.5	3,084.2	11.3	8.2	-149.30	-312.2	-261.3	782.3	767.9	14.41	54.272		
3,300.0	3,244.9	3,202.4	3,180.3	11.7	8.4	-149.34	-320.2	-270.2	807.1	792.2	14.89	54.214		
3,400.0	3,343.0	3,299.2	3,276.5	12.0	8.7	-149.38	-328.3	-279.1	831.9	816.5	15.36	54.160		
3,500.0	3,441.0	3,396.1	3,372.6	12.4	9.0	-149.41	-336.4	-288.0	856.7	840.8	15.83	54.109		
3,600.0	3,539.1	3,493.0	3,468.7	12.8	9.2	-149.44	-344.4	-296.9	881.5	865.2	16.31	54.061		
3,700.0	3,637.2	3,589.9	3,564.9	13.2	9.5	-149.47	-352.5	-305.8	906.3	889.5	16.78	54.016		
3,800.0	3,735.2	3,686.8	3,661.0	13.6	9.8	-149.50	-360.6	-314.7	931.0	913.8	17.25	53.973		
3,900.0	3,833.3	3,783.6	3,757.1	14.0	10.1	-149.52	-368.6	-323.6	955.8	938.1	17.72	53.932		
4,000.0	3,931.4	3,880.5	3,853.2	14.4	10.3	-149.55	-376.7	-332.5	980.6	962.4	18.20	53.893		
4,100.0	4,029.4	3,977.4	3,949.4	14.7	10.6	-149.57	-384.8	-341.4	1,005.4	986.7	18.67	53.857		
4,200.0	4,127.5	4,074.3	4,045.5	15.1	10.9	-149.59	-392.9	-350.3	1,030.2	1,011.1	19.14	53.822		
4,300.0	4,225.6	4,171.1	4,141.6	15.5	11.1	-149.61	-400.9	-359.2	1,055.0	1,035.4	19.61	53.789		
4,400.0	4,323.6	4,268.0	4,237.8	15.9	11.4	-149.63	-409.0	-368.2	1,079.8	1,059.7	20.09	53.757		
4,500.0	4,421.7	4,364.9	4,333.9	16.3	11.7	-149.65	-417.1	-377.1	1,104.6	1,084.0	20.56	53.727 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-14B2 - DD - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-120.29	-67.7	-116.0	134.3					
100.0	100.0	100.0	100.0	0.1	0.1	-120.29	-67.7	-116.0	134.3	134.1	0.27	493.346	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-120.29	-67.7	-116.0	134.3	133.7	0.62	216.185		
300.0	300.0	294.2	294.2	0.5	0.5	-89.84	-69.8	-117.0	136.4	135.4	0.97	140.422		
400.0	399.6	387.4	387.1	0.7	0.7	-94.01	-75.9	-120.1	143.1	141.8	1.36	105.016		
500.0	498.8	478.4	477.4	1.0	0.9	-99.88	-85.8	-125.1	156.0	154.2	1.81	86.160		
600.0	597.1	571.3	569.1	1.3	1.2	-106.71	-99.1	-131.8	175.8	173.5	2.30	76.539		
700.0	695.2	666.4	663.0	1.7	1.5	-113.05	-112.9	-138.8	198.8	196.0	2.77	71.812		
800.0	793.2	761.5	756.8	2.1	1.8	-118.08	-126.7	-145.8	223.7	220.5	3.23	69.350		
900.0	891.3	856.6	850.7	2.5	2.1	-122.11	-140.5	-152.8	250.0	246.3	3.68	68.024		
1,000.0	989.4	951.7	944.5	2.8	2.4	-125.38	-154.3	-159.8	277.2	273.1	4.12	67.297		
1,100.0	1,087.4	1,046.9	1,038.3	3.2	2.8	-128.06	-168.1	-166.8	305.2	300.6	4.56	66.899		
1,200.0	1,185.5	1,142.0	1,132.2	3.6	3.1	-130.30	-182.0	-173.8	333.6	328.6	5.00	66.688		
1,300.0	1,283.6	1,237.1	1,226.0	4.0	3.4	-132.19	-195.8	-180.8	362.5	357.0	5.44	66.588		
1,400.0	1,381.6	1,332.2	1,319.8	4.4	3.7	-133.80	-209.6	-187.8	391.6	385.8	5.88	66.553	SF	
1,500.0	1,479.7	1,427.3	1,413.7	4.7	4.0	-135.20	-223.4	-194.8	421.1	414.7	6.33	66.559		
1,600.0	1,577.8	1,522.4	1,507.5	5.1	4.3	-136.41	-237.2	-201.8	450.7	443.9	6.77	66.589		
1,700.0	1,675.8	1,617.5	1,601.3	5.5	4.7	-137.47	-251.1	-208.7	480.4	473.2	7.21	66.634		
1,800.0	1,773.9	1,712.6	1,695.2	5.9	5.0	-138.41	-264.9	-215.7	510.4	502.7	7.65	66.688		
1,900.0	1,872.0	1,807.7	1,789.0	6.3	5.3	-139.24	-278.7	-222.7	540.4	532.3	8.10	66.747		
2,000.0	1,970.0	1,902.8	1,882.9	6.7	5.6	-139.99	-292.5	-229.7	570.5	562.0	8.54	66.808		
2,100.0	2,068.1	1,997.9	1,976.7	7.0	5.9	-140.66	-306.3	-236.7	600.7	591.7	8.98	66.870		
2,200.0	2,166.2	2,093.0	2,070.5	7.4	6.2	-141.27	-320.2	-243.7	630.9	621.5	9.43	66.931		
2,300.0	2,264.2	2,188.1	2,164.4	7.8	6.6	-141.82	-334.0	-250.7	661.3	651.4	9.87	66.992		
2,400.0	2,362.3	2,283.2	2,258.2	8.2	6.9	-142.33	-347.8	-257.7	691.6	681.3	10.32	67.050		
2,500.0	2,460.4	2,378.3	2,352.0	8.6	7.2	-142.79	-361.6	-264.7	722.1	711.3	10.76	67.107		
2,600.0	2,558.4	2,473.4	2,445.9	9.0	7.5	-143.21	-375.4	-271.7	752.5	741.3	11.20	67.162		
2,700.0	2,656.5	2,568.5	2,539.7	9.4	7.8	-143.61	-389.2	-278.7	783.0	771.4	11.65	67.214		
2,800.0	2,754.6	2,663.7	2,633.5	9.7	8.1	-143.97	-403.1	-285.7	813.5	801.4	12.09	67.265		
2,900.0	2,852.6	2,758.8	2,727.4	10.1	8.5	-144.31	-416.9	-292.7	844.1	831.5	12.54	67.313		
3,000.0	2,950.7	2,853.9	2,821.2	10.5	8.8	-144.62	-430.7	-299.6	874.7	861.7	12.99	67.360		
3,100.0	3,048.8	2,949.0	2,915.1	10.9	9.1	-144.91	-444.5	-306.6	905.3	891.8	13.43	67.404		
3,200.0	3,146.8	3,044.1	3,008.9	11.3	9.4	-145.18	-458.3	-313.6	935.9	922.0	13.88	67.447		
3,300.0	3,244.9	3,139.2	3,102.7	11.7	9.7	-145.44	-472.2	-320.6	966.5	952.2	14.32	67.488		
3,400.0	3,343.0	3,234.3	3,196.6	12.0	10.0	-145.68	-486.0	-327.6	997.2	982.4	14.77	67.527		
3,500.0	3,441.0	3,329.4	3,290.4	12.4	10.4	-145.90	-499.8	-334.6	1,027.8	1,012.6	15.21	67.564		
3,600.0	3,539.1	3,424.5	3,384.2	12.8	10.7	-146.12	-513.6	-341.6	1,058.5	1,042.9	15.66	67.600		
3,700.0	3,637.2	3,519.6	3,478.1	13.2	11.0	-146.32	-527.4	-348.6	1,089.2	1,073.1	16.10	67.635		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-14C - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-118.80	-59.4	-108.0	123.2					
100.0	100.0	100.0	100.0	0.1	0.1	-118.80	-59.4	-108.0	123.2	123.0	0.27	452.621		
200.0	200.0	200.0	200.0	0.3	0.3	-118.80	-59.4	-108.0	123.2	122.6	0.62	198.340 CC, ES		
300.0	300.0	295.2	295.1	0.5	0.5	-88.65	-61.6	-108.8	125.0	124.1	0.97	128.397		
400.0	399.6	389.2	388.8	0.7	0.7	-93.63	-68.2	-111.2	131.2	129.8	1.37	95.668		
500.0	498.8	480.8	479.8	1.0	0.9	-100.61	-78.7	-115.1	143.6	141.8	1.83	78.642		
600.0	597.1	569.3	567.0	1.3	1.2	-108.21	-92.8	-120.2	164.2	161.9	2.31	71.118		
700.0	695.2	658.6	654.3	1.7	1.6	-115.22	-110.4	-126.6	192.1	189.3	2.76	69.588 SF		
800.0	793.2	751.8	745.3	2.1	2.0	-120.74	-129.3	-133.5	222.8	219.7	3.19	69.759		
900.0	891.3	844.9	836.3	2.5	2.3	-124.94	-148.2	-140.4	255.1	251.5	3.62	70.509		
1,000.0	989.4	938.1	927.2	2.8	2.7	-128.20	-167.0	-147.3	288.3	284.3	4.04	71.406		
1,100.0	1,087.4	1,031.3	1,018.2	3.2	3.1	-130.80	-185.9	-154.2	322.2	317.8	4.46	72.284		
1,200.0	1,185.5	1,124.4	1,109.1	3.6	3.5	-132.91	-204.8	-161.1	356.6	351.7	4.88	73.083		
1,300.0	1,283.6	1,217.6	1,200.1	4.0	3.9	-134.65	-223.7	-168.0	391.4	386.1	5.30	73.789		
1,400.0	1,381.6	1,310.7	1,291.1	4.4	4.2	-136.11	-242.6	-174.9	426.4	420.6	5.73	74.406		
1,500.0	1,479.7	1,403.9	1,382.0	4.7	4.6	-137.35	-261.5	-181.8	461.6	455.4	6.16	74.945		
1,600.0	1,577.8	1,497.0	1,473.0	5.1	5.0	-138.41	-280.3	-188.7	497.0	490.4	6.59	75.414		
1,700.0	1,675.8	1,590.2	1,564.0	5.5	5.4	-139.33	-299.2	-195.6	532.5	525.5	7.02	75.826		
1,800.0	1,773.9	1,683.3	1,654.9	5.9	5.8	-140.14	-318.1	-202.5	568.1	560.7	7.46	76.189		
1,900.0	1,872.0	1,776.5	1,745.9	6.3	6.2	-140.86	-337.0	-209.4	603.8	595.9	7.89	76.510		
2,000.0	1,970.0	1,869.7	1,836.8	6.7	6.6	-141.49	-355.9	-216.3	639.6	631.3	8.33	76.795		
2,100.0	2,068.1	1,962.8	1,927.8	7.0	6.9	-142.06	-374.8	-223.2	675.5	666.7	8.77	77.051		
2,200.0	2,166.2	2,056.0	2,018.8	7.4	7.3	-142.57	-393.6	-230.1	711.4	702.2	9.20	77.280		
2,300.0	2,264.2	2,149.1	2,109.7	7.8	7.7	-143.03	-412.5	-237.0	747.3	737.7	9.64	77.488		
2,400.0	2,362.3	2,242.3	2,200.7	8.2	8.1	-143.45	-431.4	-243.9	783.3	773.2	10.08	77.676		
2,500.0	2,460.4	2,335.4	2,291.6	8.6	8.5	-143.83	-450.3	-250.8	819.3	808.8	10.52	77.847		
2,600.0	2,558.4	2,428.6	2,382.6	9.0	8.9	-144.18	-469.2	-257.7	855.3	844.4	10.97	78.003		
2,700.0	2,656.5	2,521.8	2,473.6	9.4	9.3	-144.50	-488.1	-264.5	891.4	880.0	11.41	78.147		
2,800.0	2,754.6	2,614.9	2,564.5	9.7	9.6	-144.80	-506.9	-271.4	927.5	915.6	11.85	78.279		
2,900.0	2,852.6	2,708.1	2,655.5	10.1	10.0	-145.07	-525.8	-278.3	963.6	951.3	12.29	78.401		
3,000.0	2,950.7	2,801.2	2,746.5	10.5	10.4	-145.33	-544.7	-285.2	999.7	987.0	12.73	78.514		
3,100.0	3,048.8	2,894.4	2,837.4	10.9	10.8	-145.57	-563.6	-292.1	1,035.9	1,022.7	13.18	78.618		
3,200.0	3,146.8	2,987.5	2,928.4	11.3	11.2	-145.79	-582.5	-299.0	1,072.0	1,058.4	13.62	78.716		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 28-16C - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-67.7	0.0	67.7					
100.0	100.0	100.0	100.0	0.1	0.1	-180.00	-67.7	0.0	67.7	67.5	0.27	248.827		
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-67.7	0.0	67.7	67.1	0.62	109.037 CC, ES		
300.0	300.0	297.4	297.4	0.5	0.5	-150.53	-69.4	1.8	71.8	70.8	0.97	73.880		
400.0	399.6	393.3	393.0	0.7	0.7	-156.43	-74.4	7.2	84.5	83.1	1.33	63.330		
500.0	498.8	486.2	485.2	1.0	1.0	-162.92	-82.3	15.7	106.9	105.2	1.69	63.092 SF		
600.0	597.1	575.1	572.7	1.3	1.3	-168.38	-92.6	27.0	139.2	137.1	2.04	68.270		
700.0	695.2	660.3	655.8	1.7	1.6	-172.48	-105.2	40.6	177.6	175.2	2.37	74.787		
800.0	793.2	742.1	734.8	2.1	2.0	-175.45	-119.6	56.2	220.4	217.7	2.70	81.559		
900.0	891.3	820.5	809.6	2.5	2.5	-177.69	-135.5	73.4	267.1	264.1	3.02	88.424		
1,000.0	889.4	896.2	880.9	2.8	3.0	-179.44	-152.9	92.2	317.5	314.2	3.33	95.223		
1,100.0	1,087.4	981.3	960.5	3.2	3.5	179.03	-173.2	114.3	369.5	365.8	3.66	100.849		
1,200.0	1,185.5	1,066.3	1,040.0	3.6	4.1	177.88	-193.6	136.4	421.6	417.6	3.99	105.620		
1,300.0	1,283.6	1,151.4	1,119.6	4.0	4.6	176.99	-214.0	158.5	473.9	469.5	4.32	109.699		
1,400.0	1,381.6	1,236.5	1,199.2	4.4	5.2	176.27	-234.4	180.6	526.2	521.5	4.65	113.221		
1,500.0	1,479.7	1,321.5	1,278.8	4.7	5.7	175.68	-254.8	202.7	578.5	573.5	4.97	116.289		
1,600.0	1,577.8	1,406.6	1,358.3	5.1	6.3	175.18	-275.2	224.8	630.9	625.6	5.30	118.984		
1,700.0	1,675.8	1,491.7	1,437.9	5.5	6.8	174.77	-295.6	246.9	683.3	677.7	5.63	121.366		
1,800.0	1,773.9	1,576.7	1,517.5	5.9	7.4	174.41	-316.0	269.0	735.8	729.8	5.96	123.487		
1,900.0	1,872.0	1,661.8	1,597.0	6.3	7.9	174.10	-336.4	291.1	788.2	781.9	6.29	125.389		
2,000.0	1,970.0	1,746.8	1,676.6	6.7	8.5	173.83	-356.8	313.2	840.7	834.1	6.61	127.105		
2,100.0	2,068.1	1,831.9	1,756.2	7.0	9.1	173.59	-377.2	335.3	893.2	886.2	6.94	128.660		
2,200.0	2,166.2	1,917.0	1,835.7	7.4	9.6	173.37	-397.6	357.4	945.7	938.4	7.27	130.075		
2,300.0	2,264.2	2,002.0	1,915.3	7.8	10.2	173.18	-418.0	379.5	998.2	990.6	7.60	131.368		
2,400.0	2,362.3	2,087.1	1,994.9	8.2	10.7	173.01	-438.3	401.6	1,050.7	1,042.8	7.93	132.554		
2,500.0	2,460.4	2,172.2	2,074.5	8.6	11.3	172.86	-458.7	423.7	1,103.2	1,095.0	8.25	133.645		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 33-3B - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-125.31	-76.5	-108.0	132.3					
100.0	100.0	100.0	100.0	0.1	0.1	-125.31	-76.5	-108.0	132.3	132.1	0.27	486.046		
200.0	200.0	200.0	200.0	0.3	0.3	-125.31	-76.5	-108.0	132.3	131.7	0.62	212.986	CC, ES	
300.0	300.0	297.2	297.2	0.5	0.5	-94.99	-78.1	-108.0	133.5	132.6	0.98	136.754		
400.0	399.6	393.6	393.4	0.7	0.7	-99.62	-83.0	-108.0	137.8	136.4	1.37	100.235		
500.0	498.8	486.9	486.4	1.0	0.9	-106.34	-90.9	-108.1	147.0	145.1	1.83	80.525		
600.0	597.1	575.7	574.5	1.3	1.1	-113.78	-102.3	-109.3	164.5	162.2	2.30	71.408		
700.0	695.2	661.9	659.4	1.7	1.4	-120.50	-116.9	-111.7	189.9	187.2	2.75	69.165	SF	
800.0	793.2	745.6	741.1	2.1	1.8	-125.64	-134.6	-115.2	221.9	218.7	3.16	70.287		
900.0	891.3	826.6	819.4	2.5	2.1	-129.45	-155.0	-119.7	259.3	255.8	3.55	73.134		
1,000.0	989.4	904.7	894.0	2.8	2.6	-132.24	-177.6	-125.1	301.5	297.6	3.92	76.847		
1,100.0	1,087.4	987.9	972.5	3.2	3.0	-134.48	-204.1	-131.6	347.2	342.9	4.30	80.655		
1,200.0	1,185.5	1,075.9	1,055.5	3.6	3.6	-136.31	-232.4	-138.7	393.5	388.8	4.69	83.852		
1,300.0	1,283.6	1,163.9	1,138.5	4.0	4.1	-137.76	-260.8	-145.7	440.1	435.0	5.09	86.540		
1,400.0	1,381.6	1,251.9	1,221.5	4.4	4.6	-138.93	-289.1	-152.7	486.8	481.3	5.48	88.801		
1,500.0	1,479.7	1,339.9	1,304.5	4.7	5.1	-139.90	-317.4	-159.7	533.7	527.8	5.88	90.709		
1,600.0	1,577.8	1,427.8	1,387.5	5.1	5.6	-140.71	-345.8	-166.8	580.7	574.4	6.29	92.328		
1,700.0	1,675.8	1,515.8	1,470.5	5.5	6.2	-141.41	-374.1	-173.8	627.8	621.1	6.70	93.710		
1,800.0	1,773.9	1,603.8	1,553.6	5.9	6.7	-142.00	-402.4	-180.8	674.9	667.8	7.11	94.898		
1,900.0	1,872.0	1,691.8	1,636.6	6.3	7.2	-142.52	-430.8	-187.8	722.1	714.6	7.53	95.924		
2,000.0	1,970.0	1,779.8	1,719.6	6.7	7.8	-142.98	-459.1	-194.9	769.3	761.4	7.95	96.817		
2,100.0	2,068.1	1,867.8	1,802.6	7.0	8.3	-143.38	-487.4	-201.9	816.6	808.2	8.37	97.600		
2,200.0	2,166.2	1,955.8	1,885.6	7.4	8.8	-143.74	-515.8	-208.9	863.9	855.1	8.79	98.290		
2,300.0	2,264.2	2,043.8	1,968.6	7.8	9.4	-144.06	-544.1	-215.9	911.2	902.0	9.21	98.901		
2,400.0	2,362.3	2,131.8	2,051.6	8.2	9.9	-144.35	-572.4	-223.0	958.5	948.9	9.64	99.445		
2,500.0	2,460.4	2,219.8	2,134.6	8.6	10.4	-144.61	-600.8	-230.0	1,005.9	995.8	10.07	99.932		
2,600.0	2,558.4	2,307.8	2,217.6	9.0	10.9	-144.85	-629.1	-237.0	1,053.2	1,042.7	10.49	100.369		
2,700.0	2,656.5	2,395.8	2,300.6	9.4	11.5	-145.07	-657.4	-244.0	1,100.6	1,089.7	10.92	100.765		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Federal 33-4B - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-113.73	-51.0	-116.0	126.7					
100.0	100.0	100.0	100.0	0.1	0.1	-113.73	-51.0	-116.0	126.7	126.4	0.27	465.351		
200.0	200.0	200.0	200.0	0.3	0.3	-113.73	-51.0	-116.0	126.7	126.1	0.62	203.918 CC, ES		
300.0	300.0	294.0	293.9	0.5	0.5	-83.14	-52.6	-117.7	128.7	127.7	0.97	132.799		
400.0	399.6	387.1	386.8	0.7	0.7	-86.90	-57.2	-122.7	135.1	133.8	1.35	99.742		
500.0	498.8	478.5	477.5	1.0	0.9	-92.25	-64.7	-130.9	147.2	145.4	1.80	81.785		
600.0	597.1	567.6	565.4	1.3	1.2	-98.25	-74.9	-142.0	165.9	163.6	2.29	72.336		
700.0	695.2	654.6	650.3	1.7	1.6	-103.61	-87.4	-155.6	191.4	188.6	2.79	68.607		
800.0	793.2	739.3	732.2	2.1	2.0	-107.55	-102.2	-171.7	222.5	219.2	3.29	67.685 SF		
900.0	891.3	821.7	810.7	2.5	2.5	-110.33	-118.9	-189.8	258.4	254.7	3.79	68.185		
1,000.0	989.4	900.0	884.4	2.8	3.0	-112.24	-136.8	-209.4	298.7	294.4	4.30	69.489		
1,100.0	1,087.4	978.4	957.0	3.2	3.6	-113.57	-156.9	-231.1	342.8	338.0	4.83	71.039		
1,200.0	1,185.5	1,052.5	1,024.5	3.6	4.2	-114.44	-177.7	-253.8	390.4	385.0	5.35	72.900		
1,300.0	1,283.6	1,123.8	1,088.2	4.0	4.8	-114.99	-199.3	-277.3	441.2	435.3	5.89	74.946		
1,400.0	1,381.6	1,200.6	1,155.5	4.4	5.5	-115.35	-224.4	-304.6	495.1	488.6	6.44	76.854		
1,500.0	1,479.7	1,273.1	1,218.2	4.7	6.1	-115.57	-248.9	-331.3	550.6	543.6	6.99	78.747		
1,600.0	1,577.8	1,356.2	1,290.2	5.1	6.9	-115.78	-277.1	-361.9	606.2	598.6	7.57	80.038		
1,700.0	1,675.8	1,439.3	1,362.1	5.5	7.7	-115.96	-305.2	-392.5	661.8	653.6	8.16	81.108		
1,800.0	1,773.9	1,522.4	1,434.1	5.9	8.5	-116.11	-333.3	-423.1	717.4	708.6	8.75	82.005		
1,900.0	1,872.0	1,605.5	1,506.1	6.3	9.3	-116.24	-361.5	-453.7	773.0	763.6	9.34	82.765		
2,000.0	1,970.0	1,688.6	1,578.0	6.7	10.0	-116.35	-389.6	-484.3	828.6	818.6	9.93	83.415		
2,100.0	2,068.1	1,771.7	1,650.0	7.0	10.8	-116.44	-417.8	-514.9	884.2	873.6	10.53	83.977		
2,200.0	2,166.2	1,854.8	1,721.9	7.4	11.6	-116.53	-445.9	-545.5	939.8	928.7	11.13	84.468		
2,300.0	2,264.2	1,937.9	1,793.9	7.8	12.4	-116.60	-474.0	-576.1	995.4	983.7	11.72	84.901		
2,400.0	2,362.3	2,021.0	1,865.8	8.2	13.2	-116.67	-502.2	-606.7	1,051.0	1,038.7	12.32	85.285		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Fee 28-10D2 - DD - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-33.9	0.0	33.9					
100.0	100.0	100.0	100.0	0.1	0.1	-180.00	-33.9	0.0	33.9	33.6	0.27	124.414		
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-33.9	0.0	33.9	33.3	0.62	54.518	CC, ES	
300.0	300.0	299.9	299.8	0.5	0.5	-154.35	-33.8	2.6	36.2	35.2	0.98	36.951		
400.0	399.6	398.5	398.2	0.7	0.7	-168.48	-33.4	10.3	45.2	43.8	1.36	33.114	SF	
500.0	498.8	494.8	493.7	1.0	1.0	178.27	-32.8	22.7	63.6	61.9	1.77	36.030		
600.0	597.1	588.5	585.9	1.3	1.3	169.24	-32.1	39.2	91.7	89.6	2.18	42.109		
700.0	695.2	683.0	678.6	1.7	1.6	164.15	-31.3	57.1	123.3	120.7	2.62	47.147		
800.0	793.2	777.4	771.3	2.1	2.0	161.14	-30.5	75.1	155.4	152.3	3.06	50.758		
900.0	891.3	871.9	864.1	2.5	2.3	159.16	-29.7	93.0	187.7	184.2	3.51	53.426		
1,000.0	989.4	966.3	956.8	2.8	2.7	157.76	-28.9	110.9	220.2	216.3	3.97	55.464		
1,100.0	1,087.4	1,060.8	1,049.6	3.2	3.0	156.72	-28.1	128.8	252.8	248.4	4.43	57.064		
1,200.0	1,185.5	1,155.3	1,142.3	3.6	3.4	155.92	-27.2	146.8	285.5	280.6	4.89	58.351		
1,300.0	1,283.6	1,249.7	1,235.0	4.0	3.8	155.28	-26.4	164.7	318.1	312.8	5.36	59.408		
1,400.0	1,381.6	1,344.2	1,327.8	4.4	4.1	154.76	-25.6	182.6	350.8	345.0	5.82	60.290		
1,500.0	1,479.7	1,438.6	1,420.5	4.7	4.5	154.33	-24.8	200.5	383.6	377.3	6.28	61.037		
1,600.0	1,577.8	1,533.1	1,513.2	5.1	4.8	153.96	-24.0	218.5	416.3	409.6	6.75	61.677		
1,700.0	1,675.8	1,627.5	1,606.0	5.5	5.2	153.65	-23.2	236.4	449.1	441.8	7.22	62.232		
1,800.0	1,773.9	1,722.0	1,698.7	5.9	5.5	153.39	-22.4	254.3	481.8	474.1	7.68	62.717		
1,900.0	1,872.0	1,816.5	1,791.5	6.3	5.9	153.15	-21.6	272.2	514.6	506.5	8.15	63.145		
2,000.0	1,970.0	1,910.9	1,884.2	6.7	6.3	152.95	-20.8	290.2	547.4	538.8	8.62	63.525		
2,100.0	2,068.1	2,005.4	1,976.9	7.0	6.6	152.76	-20.0	308.1	580.2	571.1	9.08	63.865		
2,200.0	2,166.2	2,099.8	2,069.7	7.4	7.0	152.60	-19.2	326.0	613.0	603.4	9.55	64.171		
2,300.0	2,264.2	2,194.3	2,162.4	7.8	7.3	152.45	-18.3	343.9	645.8	635.7	10.02	64.447		
2,400.0	2,362.3	2,288.7	2,255.1	8.2	7.7	152.32	-17.5	361.9	678.6	668.1	10.49	64.699		
2,500.0	2,460.4	2,383.2	2,347.9	8.6	8.0	152.20	-16.7	379.8	711.4	700.4	10.96	64.928		
2,600.0	2,558.4	2,477.7	2,440.6	9.0	8.4	152.09	-15.9	397.7	744.2	732.7	11.42	65.138		
2,700.0	2,656.5	2,572.1	2,533.3	9.4	8.8	151.99	-15.1	415.6	777.0	765.1	11.89	65.331		
2,800.0	2,754.6	2,666.6	2,626.1	9.7	9.1	151.90	-14.3	433.6	809.8	797.4	12.36	65.509		
2,900.0	2,852.6	2,761.0	2,718.8	10.1	9.5	151.81	-13.5	451.5	842.6	829.8	12.83	65.674		
3,000.0	2,950.7	2,855.5	2,811.6	10.5	9.8	151.74	-12.7	469.4	875.4	862.1	13.30	65.827		
3,100.0	3,048.8	2,949.9	2,904.3	10.9	10.2	151.66	-11.9	487.3	908.2	894.4	13.77	65.969		
3,200.0	3,146.8	3,044.4	2,997.0	11.3	10.5	151.60	-11.1	505.3	941.0	926.8	14.24	66.102		
3,300.0	3,244.9	3,138.9	3,089.8	11.7	10.9	151.53	-10.2	523.2	973.8	959.1	14.70	66.226		
3,400.0	3,343.0	3,233.3	3,182.5	12.0	11.3	151.47	-9.4	541.1	1,006.7	991.5	15.17	66.342		
3,500.0	3,441.0	3,327.8	3,275.2	12.4	11.6	151.42	-8.6	559.0	1,039.5	1,023.8	15.64	66.452		
3,600.0	3,539.1	3,422.2	3,368.0	12.8	12.0	151.37	-7.8	577.0	1,072.3	1,056.2	16.11	66.554		
3,700.0	3,637.2	3,516.7	3,460.7	13.2	12.3	151.32	-7.0	594.9	1,105.1	1,088.5	16.58	66.651		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Fee 28-11A - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-162.20	-25.5	-8.2	26.8					
100.0	100.0	100.0	100.0	0.1	0.1	-162.20	-25.5	-8.2	26.8	26.5	0.27	98.351		
200.0	200.0	200.0	200.0	0.3	0.3	-162.20	-25.5	-8.2	26.8	26.2	0.62	43.097 CC, ES		
300.0	300.0	300.3	300.3	0.5	0.5	-129.07	-24.2	-10.4	27.9	26.9	0.98	28.343		
400.0	399.6	400.5	400.1	0.7	0.7	-126.02	-20.1	-17.2	31.3	29.9	1.41	22.204		
500.0	498.8	500.3	499.3	1.0	1.0	-125.12	-14.5	-26.8	37.3	35.4	1.90	19.626		
600.0	597.1	599.9	598.2	1.3	1.2	-129.54	-8.8	-36.5	46.4	44.0	2.42	19.202		
700.0	695.2	699.3	697.0	1.7	1.5	-133.75	-3.1	-46.1	56.7	53.8	2.92	19.432		
800.0	793.2	798.7	795.8	2.1	1.7	-136.65	2.6	-55.7	67.2	63.8	3.41	19.695		
900.0	891.3	898.1	894.5	2.5	2.0	-138.76	8.3	-65.3	77.8	73.9	3.90	19.948		
1,000.0	989.4	997.5	993.3	2.8	2.2	-140.37	14.0	-74.9	88.6	84.2	4.39	20.179		
1,100.0	1,087.4	1,096.9	1,092.1	3.2	2.5	-141.62	19.7	-84.5	99.3	94.5	4.87	20.386		
1,200.0	1,185.5	1,196.2	1,190.8	3.6	2.8	-142.63	25.4	-94.1	110.1	104.8	5.35	20.569		
1,300.0	1,283.6	1,295.6	1,289.6	4.0	3.0	-143.46	31.1	-103.8	121.0	115.1	5.84	20.732		
1,400.0	1,381.6	1,395.0	1,388.4	4.4	3.3	-144.16	36.7	-113.4	131.8	125.5	6.32	20.876		
1,500.0	1,479.7	1,494.4	1,487.1	4.7	3.5	-144.74	42.4	-123.0	142.7	135.9	6.79	21.005		
1,600.0	1,577.8	1,593.8	1,585.9	5.1	3.8	-145.25	48.1	-132.6	153.6	146.3	7.27	21.121		
1,700.0	1,675.8	1,693.2	1,684.7	5.5	4.1	-145.69	53.8	-142.2	164.5	156.8	7.75	21.225		
1,800.0	1,773.9	1,792.6	1,783.4	5.9	4.3	-146.07	59.5	-151.8	175.4	167.2	8.23	21.319		
1,900.0	1,872.0	1,892.0	1,882.2	6.3	4.6	-146.41	65.2	-161.4	186.3	177.6	8.70	21.405		
2,000.0	1,970.0	1,991.4	1,981.0	6.7	4.8	-146.71	70.9	-171.0	197.2	188.1	9.18	21.483		
2,100.0	2,068.1	2,090.8	2,079.8	7.0	5.1	-146.98	76.6	-180.7	208.2	198.5	9.66	21.554		
2,200.0	2,166.2	2,190.2	2,178.5	7.4	5.4	-147.22	82.3	-190.3	219.1	209.0	10.13	21.620		
2,300.0	2,264.2	2,289.6	2,277.3	7.8	5.6	-147.44	87.9	-199.9	230.0	219.4	10.61	21.680		
2,400.0	2,362.3	2,389.0	2,376.1	8.2	5.9	-147.64	93.6	-209.5	241.0	229.9	11.09	21.736		
2,500.0	2,460.4	2,488.4	2,474.8	8.6	6.1	-147.82	99.3	-219.1	251.9	240.3	11.56	21.787		
2,600.0	2,558.4	2,587.8	2,573.6	9.0	6.4	-147.99	105.0	-228.7	262.8	250.8	12.04	21.835		
2,700.0	2,656.5	2,687.2	2,672.4	9.4	6.7	-148.14	110.7	-238.3	273.8	261.3	12.51	21.880		
2,800.0	2,754.6	2,786.6	2,771.1	9.7	6.9	-148.28	116.4	-247.9	284.7	271.7	12.99	21.922		
2,900.0	2,852.6	2,886.0	2,869.9	10.1	7.2	-148.42	122.1	-257.6	295.7	282.2	13.46	21.961		
3,000.0	2,950.7	2,985.4	2,968.7	10.5	7.5	-148.54	127.8	-267.2	306.6	292.7	13.94	21.997		
3,100.0	3,048.8	3,084.8	3,067.4	10.9	7.7	-148.65	133.4	-276.8	317.6	303.2	14.41	22.032		
3,200.0	3,146.8	3,184.2	3,166.2	11.3	8.0	-148.76	139.1	-286.4	328.5	313.6	14.89	22.064		
3,300.0	3,244.9	3,283.6	3,265.0	11.7	8.2	-148.86	144.8	-296.0	339.5	324.1	15.36	22.095		
3,400.0	3,343.0	3,383.0	3,363.7	12.0	8.5	-148.95	150.5	-305.6	350.4	334.6	15.84	22.123		
3,500.0	3,441.0	3,482.4	3,462.5	12.4	8.8	-149.04	156.2	-315.2	361.4	345.1	16.31	22.151		
3,600.0	3,539.1	3,581.8	3,561.3	12.8	9.0	-149.12	161.9	-324.8	372.3	355.5	16.79	22.176		
3,700.0	3,637.2	3,681.2	3,660.0	13.2	9.3	-149.20	167.6	-334.5	383.3	366.0	17.26	22.201		
3,800.0	3,735.2	3,780.6	3,758.8	13.6	9.5	-149.27	173.3	-344.1	394.2	376.5	17.74	22.224		
3,900.0	3,833.3	3,880.0	3,857.6	14.0	9.8	-149.34	179.0	-353.7	405.2	387.0	18.21	22.246		
4,000.0	3,931.4	3,979.4	3,956.3	14.4	10.1	-149.40	184.6	-363.3	416.2	397.5	18.69	22.267		
4,100.0	4,029.4	4,078.8	4,055.1	14.7	10.3	-149.47	190.3	-372.9	427.1	407.9	19.16	22.287		
4,200.0	4,127.5	4,178.2	4,153.9	15.1	10.6	-149.53	196.0	-382.5	438.1	418.4	19.64	22.306		
4,300.0	4,225.6	4,277.6	4,252.6	15.5	10.9	-149.58	201.7	-392.1	449.0	428.9	20.11	22.325		
4,400.0	4,323.6	4,377.0	4,351.4	15.9	11.1	-149.64	207.4	-401.7	460.0	439.4	20.59	22.342		
4,500.0	4,421.7	4,476.3	4,450.2	16.3	11.4	-149.69	213.1	-411.4	470.9	449.9	21.06	22.359		
4,600.0	4,519.8	4,575.7	4,548.9	16.7	11.6	-149.74	218.8	-421.0	481.9	460.4	21.54	22.375		
4,700.0	4,617.8	4,675.1	4,647.7	17.1	11.9	-149.78	224.5	-430.6	492.9	470.8	22.01	22.390		
4,800.0	4,715.9	4,774.5	4,746.5	17.4	12.2	-149.83	230.2	-440.2	503.8	481.3	22.49	22.405		
4,900.0	4,814.0	4,873.9	4,845.2	17.8	12.4	-149.87	235.8	-449.8	514.8	491.8	22.96	22.419		
5,000.0	4,912.0	4,973.3	4,944.0	18.2	12.7	-149.91	241.5	-459.4	525.7	502.3	23.44	22.433		
5,100.0	5,010.1	5,072.7	5,042.8	18.6	12.9	-149.95	247.2	-469.0	536.7	512.8	23.91	22.446		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Fee 28-11A - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,108.2	5,172.1	5,141.5	19.0	13.2	-149.99	252.9	-478.6	547.7	523.3	24.39	22.458		
5,300.0	5,206.2	5,271.5	5,240.3	19.4	13.5	-150.02	258.6	-488.3	558.6	533.8	24.86	22.471		
5,400.0	5,304.3	5,370.9	5,339.1	19.7	13.7	-150.06	264.3	-497.9	569.6	544.2	25.33	22.482		
5,500.0	5,402.3	5,470.3	5,437.8	20.1	14.0	-150.09	270.0	-507.5	580.5	554.7	25.81	22.494		
5,600.0	5,500.4	5,569.7	5,536.6	20.5	14.3	-150.12	275.7	-517.1	591.5	565.2	26.28	22.504		
5,700.0	5,598.5	5,669.1	5,635.4	20.9	14.5	-150.15	281.3	-526.7	602.5	575.7	26.76	22.515		
5,800.0	5,696.5	5,768.5	5,734.1	21.3	14.8	-150.18	287.0	-536.3	613.4	586.2	27.23	22.525		
5,900.0	5,794.6	5,867.9	5,832.9	21.7	15.0	-150.21	292.7	-545.9	624.4	596.7	27.71	22.535		
6,000.0	5,892.7	5,967.3	5,931.7	22.1	15.3	-150.24	298.4	-555.5	635.3	607.2	28.18	22.544		
6,100.0	5,990.7	6,066.7	6,030.4	22.4	15.6	-150.27	304.1	-565.2	646.3	617.6	28.66	22.554		
6,200.0	6,088.9	6,166.1	6,129.2	22.8	15.8	-150.32	309.8	-574.8	657.1	627.9	29.13	22.553		
6,300.0	6,187.5	6,265.8	6,228.2	23.1	16.1	-150.30	315.5	-584.4	665.5	635.8	29.62	22.464		
6,400.0	6,286.6	6,358.3	6,320.2	23.4	16.3	-150.17	320.5	-592.9	671.2	641.1	30.08	22.317		
6,500.0	6,386.1	6,446.9	6,408.6	23.6	16.5	-150.09	324.0	-598.7	675.5	645.0	30.44	22.187		
6,600.0	6,485.9	6,535.5	6,497.1	23.8	16.6	-150.06	326.1	-602.3	678.4	647.7	30.74	22.071		
6,700.0	6,585.8	6,624.3	6,585.8	23.9	16.7	-150.09	326.7	-603.4	680.0	649.0	30.96	21.962		
6,800.0	6,685.8	6,724.3	6,685.8	23.9	16.8	177.95	326.7	-603.4	680.1	648.9	31.21	21.790		
6,900.0	6,785.8	6,824.3	6,785.8	24.0	17.0	177.95	326.7	-603.4	680.1	648.6	31.48	21.608		
7,000.0	6,885.8	6,924.3	6,885.8	24.1	17.1	177.95	326.7	-603.4	680.1	648.4	31.74	21.427		
7,100.0	6,985.8	7,024.3	6,985.8	24.2	17.2	177.95	326.7	-603.4	680.1	648.1	32.01	21.248		
7,200.0	7,085.8	7,124.3	7,085.8	24.3	17.3	177.95	326.7	-603.4	680.1	647.8	32.28	21.071		
7,300.0	7,185.8	7,224.3	7,185.8	24.4	17.5	177.95	326.7	-603.4	680.1	647.6	32.55	20.896		
7,400.0	7,285.8	7,324.3	7,285.8	24.5	17.6	177.95	326.7	-603.4	680.1	647.3	32.82	20.723		
7,500.0	7,385.8	7,424.3	7,385.8	24.6	17.7	177.95	326.7	-603.4	680.1	647.0	33.09	20.552		
7,600.0	7,485.8	7,524.3	7,485.8	24.7	17.8	177.95	326.7	-603.4	680.1	646.7	33.37	20.383		
7,700.0	7,585.8	7,624.3	7,585.8	24.8	18.0	177.95	326.7	-603.4	680.1	646.5	33.64	20.215		
7,800.0	7,685.8	7,724.3	7,685.8	24.8	18.1	177.95	326.7	-603.4	680.1	646.2	33.92	20.050		
7,900.0	7,785.8	7,824.3	7,785.8	24.9	18.2	177.95	326.7	-603.4	680.1	645.9	34.20	19.887		
8,000.0	7,885.8	7,924.3	7,885.8	25.0	18.4	177.95	326.7	-603.4	680.1	645.6	34.48	19.725		
8,100.0	7,985.8	8,024.3	7,985.8	25.1	18.5	177.95	326.7	-603.4	680.1	645.3	34.76	19.566		
8,200.0	8,085.8	8,124.3	8,085.8	25.2	18.6	177.95	326.7	-603.4	680.1	645.1	35.04	19.408		
8,300.0	8,185.8	8,224.3	8,185.8	25.3	18.8	177.95	326.7	-603.4	680.1	644.8	35.33	19.252		
8,400.0	8,285.8	8,324.3	8,285.8	25.4	18.9	177.95	326.7	-603.4	680.1	644.5	35.61	19.098		
8,500.0	8,385.8	8,424.3	8,385.8	25.5	19.0	177.95	326.7	-603.4	680.1	644.2	35.90	18.946		
8,600.0	8,485.8	8,524.3	8,485.8	25.6	19.2	177.95	326.7	-603.4	680.1	643.9	36.18	18.796		
8,700.0	8,585.8	8,624.3	8,585.8	25.7	19.3	177.95	326.7	-603.4	680.1	643.6	36.47	18.647		
8,800.0	8,685.8	8,724.3	8,685.8	25.8	19.4	177.95	326.7	-603.4	680.1	643.3	36.76	18.501		
8,900.0	8,785.8	8,824.3	8,785.8	25.9	19.6	177.95	326.7	-603.4	680.1	643.1	37.05	18.356		
9,000.0	8,885.8	8,924.3	8,885.8	26.1	19.7	177.95	326.7	-603.4	680.1	642.8	37.34	18.213		
9,054.2	8,940.0	8,978.4	8,940.0	26.1	19.8	177.95	326.7	-603.4	680.1	642.6	37.50	18.136 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Fee 28-11B - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-135.67	-8.4	-8.2	11.7					
100.0	100.0	100.0	100.0	0.1	0.1	-135.67	-8.4	-8.2	11.7	11.4	0.27	43.014		
200.0	200.0	200.0	200.0	0.3	0.3	-135.67	-8.4	-8.2	11.7	11.1	0.62	18.849 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-103.38	-6.4	-9.9	12.1	11.2	0.99	12.305		
400.0	399.6	400.1	399.7	0.7	0.7	-102.49	-0.5	-15.1	13.4	12.0	1.43	9.430		
500.0	498.8	500.1	498.8	1.0	1.0	-101.50	9.2	-23.8	15.6	13.6	1.98	7.876		
600.0	597.1	600.0	597.6	1.3	1.3	-109.85	20.4	-33.7	19.0	16.4	2.59	7.319 SF		
700.0	695.2	699.8	696.3	1.7	1.6	-119.06	31.6	-43.6	23.3	20.1	3.15	7.388		
800.0	793.2	799.7	795.1	2.1	1.9	-125.28	42.8	-53.6	28.0	24.3	3.68	7.613		
900.0	891.3	899.5	893.8	2.5	2.2	-129.67	54.0	-63.5	32.9	28.8	4.18	7.874		
1,000.0	989.4	999.4	992.5	2.8	2.5	-132.90	65.2	-73.4	38.0	33.4	4.68	8.129		
1,100.0	1,087.4	1,099.2	1,091.2	3.2	2.8	-135.36	76.3	-83.4	43.2	38.0	5.17	8.366		
1,200.0	1,185.5	1,199.1	1,190.0	3.6	3.1	-137.29	87.5	-93.3	48.5	42.8	5.65	8.579		
1,300.0	1,283.6	1,298.9	1,288.7	4.0	3.5	-138.84	98.7	-103.2	53.8	47.6	6.13	8.771		
1,400.0	1,381.6	1,398.8	1,387.4	4.4	3.8	-140.12	109.9	-113.1	59.1	52.5	6.61	8.943		
1,500.0	1,479.7	1,498.6	1,486.1	4.7	4.1	-141.18	121.1	-123.1	64.4	57.3	7.08	9.097		
1,600.0	1,577.8	1,598.5	1,584.9	5.1	4.4	-142.08	132.3	-133.0	69.8	62.2	7.56	9.235		
1,700.0	1,675.8	1,698.3	1,683.6	5.5	4.7	-142.85	143.5	-142.9	75.2	67.2	8.03	9.360		
1,800.0	1,773.9	1,798.2	1,782.3	5.9	5.0	-143.51	154.7	-152.9	80.6	72.1	8.51	9.474		
1,900.0	1,872.0	1,898.0	1,881.0	6.3	5.3	-144.10	165.9	-162.8	86.0	77.0	8.98	9.576		
2,000.0	1,970.0	1,997.9	1,979.7	6.7	5.6	-144.61	177.1	-172.7	91.4	81.9	9.45	9.670		
2,100.0	2,068.1	2,097.7	2,078.5	7.0	6.0	-145.07	188.3	-182.7	96.8	86.9	9.92	9.756		
2,200.0	2,166.2	2,197.6	2,177.2	7.4	6.3	-145.48	199.5	-192.6	102.2	91.8	10.40	9.835		
2,300.0	2,264.2	2,297.4	2,275.9	7.8	6.6	-145.85	210.7	-202.5	107.7	96.8	10.87	9.908		
2,400.0	2,362.3	2,397.3	2,374.6	8.2	6.9	-146.18	221.8	-212.5	113.1	101.8	11.34	9.975		
2,500.0	2,460.4	2,497.1	2,473.4	8.6	7.2	-146.48	233.0	-222.4	118.5	106.7	11.81	10.037		
2,600.0	2,558.4	2,597.0	2,572.1	9.0	7.5	-146.75	244.2	-232.3	124.0	111.7	12.28	10.095		
2,700.0	2,656.5	2,696.8	2,670.8	9.4	7.8	-147.01	255.4	-242.2	129.4	116.7	12.75	10.149		
2,800.0	2,754.6	2,796.7	2,769.5	9.7	8.2	-147.24	266.6	-252.2	134.9	121.6	13.22	10.199		
2,900.0	2,852.6	2,896.5	2,868.2	10.1	8.5	-147.45	277.8	-262.1	140.3	126.6	13.69	10.246		
3,000.0	2,950.7	2,996.4	2,967.0	10.5	8.8	-147.65	289.0	-272.0	145.8	131.6	14.16	10.290		
3,100.0	3,048.8	3,096.2	3,065.7	10.9	9.1	-147.83	300.2	-282.0	151.2	136.6	14.64	10.332		
3,200.0	3,146.8	3,196.1	3,164.4	11.3	9.4	-148.00	311.4	-291.9	156.7	141.6	15.11	10.370		
3,300.0	3,244.9	3,295.9	3,263.1	11.7	9.7	-148.16	322.6	-301.8	162.1	146.5	15.58	10.407		
3,400.0	3,343.0	3,395.8	3,361.9	12.0	10.1	-148.31	333.8	-311.8	167.6	151.5	16.05	10.442		
3,500.0	3,441.0	3,495.6	3,460.6	12.4	10.4	-148.45	345.0	-321.7	173.0	156.5	16.52	10.475		
3,600.0	3,539.1	3,595.5	3,559.3	12.8	10.7	-148.58	356.2	-331.6	178.5	161.5	16.99	10.506		
3,700.0	3,637.2	3,695.3	3,658.0	13.2	11.0	-148.71	367.3	-341.5	183.9	166.5	17.46	10.535		
3,800.0	3,735.2	3,795.2	3,756.8	13.6	11.3	-148.82	378.5	-351.5	189.4	171.5	17.93	10.563		
3,900.0	3,833.3	3,895.0	3,855.5	14.0	11.6	-148.93	389.7	-361.4	194.8	176.4	18.40	10.590		
4,000.0	3,931.4	3,994.9	3,954.2	14.4	11.9	-149.04	400.9	-371.3	200.3	181.4	18.87	10.615		
4,100.0	4,029.4	4,094.7	4,052.9	14.7	12.3	-149.13	412.1	-381.3	205.8	186.4	19.34	10.639		
4,200.0	4,127.5	4,194.6	4,151.6	15.1	12.6	-149.23	423.3	-391.2	211.2	191.4	19.81	10.662		
4,300.0	4,225.6	4,294.4	4,250.4	15.5	12.9	-149.31	434.5	-401.1	216.7	196.4	20.28	10.684		
4,400.0	4,323.6	4,394.3	4,349.1	15.9	13.2	-149.40	445.7	-411.1	222.1	201.4	20.75	10.705		
4,500.0	4,421.7	4,494.1	4,447.8	16.3	13.5	-149.48	456.9	-421.0	227.6	206.4	21.22	10.725		
4,600.0	4,519.8	4,594.0	4,546.5	16.7	13.8	-149.56	468.1	-430.9	233.1	211.4	21.69	10.744		
4,700.0	4,617.8	4,693.8	4,645.3	17.1	14.1	-149.63	479.3	-440.8	238.5	216.4	22.16	10.763		
4,800.0	4,715.9	4,793.7	4,744.0	17.4	14.5	-149.70	490.5	-450.8	244.0	221.4	22.63	10.781		
4,900.0	4,814.0	4,893.5	4,842.7	17.8	14.8	-149.76	501.7	-460.7	249.5	226.4	23.10	10.798		
5,000.0	4,912.0	4,993.4	4,941.4	18.2	15.1	-149.83	512.8	-470.6	254.9	231.3	23.57	10.814		
5,100.0	5,010.1	5,093.2	5,040.2	18.6	15.4	-149.89	524.0	-480.6	260.4	236.3	24.04	10.830		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Fee 28-11B - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,108.2	5,193.1	5,138.9	19.0	15.7	-149.95	535.2	-490.5	265.8	241.3	24.51	10.845		
5,300.0	5,206.2	5,292.9	5,237.6	19.4	16.0	-150.00	546.4	-500.4	271.3	246.3	24.98	10.859		
5,400.0	5,304.3	5,392.8	5,336.3	19.7	16.4	-150.06	557.6	-510.4	276.8	251.3	25.45	10.874		
5,500.0	5,402.3	5,492.6	5,435.0	20.1	16.7	-150.11	568.8	-520.3	282.2	256.3	25.92	10.887		
5,600.0	5,500.4	5,592.5	5,533.8	20.5	17.0	-150.16	580.0	-530.2	287.7	261.3	26.39	10.900		
5,700.0	5,598.5	5,692.3	5,632.5	20.9	17.3	-150.21	591.2	-540.2	293.2	266.3	26.86	10.913		
5,800.0	5,696.5	5,792.2	5,731.2	21.3	17.6	-150.25	602.4	-550.1	298.6	271.3	27.33	10.925		
5,900.0	5,794.6	5,892.0	5,829.9	21.7	17.9	-150.30	613.6	-560.0	304.1	276.3	27.81	10.937		
6,000.0	5,892.7	5,991.9	5,928.7	22.1	18.2	-150.34	624.8	-569.9	309.6	281.3	28.28	10.948		
6,100.0	5,990.7	6,091.7	6,027.4	22.4	18.6	-150.38	636.0	-579.9	315.0	286.3	28.75	10.959		
6,200.0	6,088.9	6,191.6	6,126.1	22.8	18.9	-150.42	647.2	-589.8	320.3	291.1	29.22	10.962		
6,300.0	6,187.5	6,287.1	6,220.6	23.1	19.2	-150.29	657.5	-599.0	323.6	293.9	29.71	10.889		
6,400.0	6,286.6	6,379.0	6,311.9	23.4	19.4	-150.18	665.5	-606.1	326.0	295.9	30.14	10.818		
6,500.0	6,386.1	6,470.9	6,403.5	23.6	19.6	-150.11	671.4	-611.3	327.9	297.5	30.49	10.756		
6,600.0	6,485.9	6,562.8	6,495.2	23.8	19.7	-150.09	675.0	-614.5	329.3	298.5	30.77	10.701		
6,700.0	6,585.8	6,654.6	6,587.0	23.9	19.8	-150.11	676.4	-615.7	330.1	299.1	30.99	10.652		
6,800.0	6,685.8	6,753.5	6,685.8	23.9	19.9	177.93	676.4	-615.8	330.2	299.0	31.24	10.572		
6,900.0	6,785.8	6,853.5	6,785.8	24.0	20.0	177.93	676.4	-615.8	330.2	298.7	31.50	10.483		
7,000.0	6,885.8	6,953.5	6,885.8	24.1	20.1	177.93	676.4	-615.8	330.2	298.5	31.77	10.395		
7,100.0	6,985.8	7,053.5	6,985.8	24.2	20.2	177.93	676.4	-615.8	330.2	298.2	32.03	10.308		
7,200.0	7,085.8	7,153.5	7,085.8	24.3	20.3	177.93	676.4	-615.8	330.2	297.9	32.30	10.222		
7,300.0	7,185.8	7,253.5	7,185.8	24.4	20.4	177.93	676.4	-615.8	330.2	297.6	32.57	10.137		
7,400.0	7,285.8	7,353.5	7,285.8	24.5	20.5	177.93	676.4	-615.8	330.2	297.4	32.85	10.053		
7,500.0	7,385.8	7,453.5	7,385.8	24.6	20.6	177.93	676.4	-615.8	330.2	297.1	33.12	9.970		
7,600.0	7,485.8	7,553.5	7,485.8	24.7	20.8	177.93	676.4	-615.8	330.2	296.8	33.39	9.888		
7,700.0	7,585.8	7,653.5	7,585.8	24.8	20.9	177.93	676.4	-615.8	330.2	296.5	33.67	9.807		
7,800.0	7,685.8	7,753.5	7,685.8	24.8	21.0	177.93	676.4	-615.8	330.2	296.3	33.95	9.727		
7,900.0	7,785.8	7,853.5	7,785.8	24.9	21.1	177.93	676.4	-615.8	330.2	296.0	34.23	9.648		
8,000.0	7,885.8	7,953.5	7,885.8	25.0	21.2	177.93	676.4	-615.8	330.2	295.7	34.51	9.569		
8,100.0	7,985.8	8,053.5	7,985.8	25.1	21.3	177.93	676.4	-615.8	330.2	295.4	34.79	9.492		
8,200.0	8,085.8	8,153.5	8,085.8	25.2	21.4	177.93	676.4	-615.8	330.2	295.1	35.07	9.415		
8,300.0	8,185.8	8,253.5	8,185.8	25.3	21.6	177.93	676.4	-615.8	330.2	294.9	35.36	9.340		
8,400.0	8,285.8	8,353.5	8,285.8	25.4	21.7	177.93	676.4	-615.8	330.2	294.6	35.64	9.265		
8,500.0	8,385.8	8,453.5	8,385.8	25.5	21.8	177.93	676.4	-615.8	330.2	294.3	35.93	9.191		
8,600.0	8,485.8	8,553.5	8,485.8	25.6	21.9	177.93	676.4	-615.8	330.2	294.0	36.21	9.118		
8,700.0	8,585.8	8,653.5	8,585.8	25.7	22.0	177.93	676.4	-615.8	330.2	293.7	36.50	9.046		
8,800.0	8,685.8	8,753.5	8,685.8	25.8	22.1	177.93	676.4	-615.8	330.2	293.4	36.79	8.975		
8,900.0	8,785.8	8,853.5	8,785.8	25.9	22.3	177.93	676.4	-615.8	330.2	293.1	37.08	8.905		
9,000.0	8,885.8	8,953.5	8,885.8	26.1	22.4	177.93	676.4	-615.8	330.2	292.8	37.37	8.835		
9,029.2	8,915.0	8,982.7	8,915.0	26.1	22.4	177.93	676.4	-615.8	330.2	292.8	37.46	8.815		
9,054.2	8,940.0	8,992.6	8,925.0	26.1	22.4	177.93	676.4	-615.8	330.6	293.0	37.51	8.812		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Fee 28-15A - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-51.0	0.0	51.0					
100.0	100.0	100.0	100.0	0.1	0.1	180.00	-51.0	0.0	51.0	50.7	0.27	187.290		
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-51.0	0.0	51.0	50.4	0.62	82.071 CC, ES		
300.0	300.0	298.5	298.4	0.5	0.5	-151.77	-52.2	2.2	54.6	53.6	0.98	55.971		
400.0	399.6	395.5	395.2	0.7	0.7	-160.28	-55.8	8.8	66.4	65.0	1.34	49.365 SF		
500.0	498.8	489.7	488.5	1.0	1.0	-168.96	-61.5	19.2	88.0	86.3	1.71	51.388		
600.0	597.1	579.8	577.3	1.3	1.3	-175.62	-69.1	33.0	119.6	117.6	2.07	57.850		
700.0	695.2	667.5	662.9	1.7	1.6	179.65	-78.3	49.9	157.3	154.9	2.42	65.012		
800.0	793.2	758.9	751.7	2.1	2.0	176.41	-88.5	68.6	196.9	194.1	2.78	70.779		
900.0	891.3	850.3	840.6	2.5	2.4	174.24	-98.8	87.3	236.8	233.7	3.14	75.320		
1,000.0	989.4	941.7	929.5	2.8	2.8	172.70	-109.0	106.0	276.9	273.4	3.51	78.941		
1,100.0	1,087.4	1,033.0	1,018.3	3.2	3.2	171.55	-119.2	124.7	317.2	313.3	3.87	81.884		
1,200.0	1,185.5	1,124.4	1,107.2	3.6	3.6	170.66	-129.5	143.3	357.5	353.3	4.24	84.316		
1,300.0	1,283.6	1,215.8	1,196.0	4.0	4.1	169.94	-139.7	162.0	397.9	393.3	4.61	86.358		
1,400.0	1,381.6	1,307.2	1,284.9	4.4	4.5	169.36	-150.0	180.7	438.3	433.3	4.98	88.094		
1,500.0	1,479.7	1,398.6	1,373.8	4.7	4.9	168.88	-160.2	199.4	478.8	473.4	5.34	89.587		
1,600.0	1,577.8	1,490.0	1,462.6	5.1	5.3	168.47	-170.4	218.1	519.2	513.5	5.71	90.883		
1,700.0	1,675.8	1,581.3	1,551.5	5.5	5.7	168.12	-180.7	236.8	559.7	553.7	6.08	92.020		
1,800.0	1,773.9	1,672.7	1,640.4	5.9	6.1	167.82	-190.9	255.5	600.3	593.8	6.45	93.024		
1,900.0	1,872.0	1,764.1	1,729.2	6.3	6.5	167.56	-201.1	274.2	640.8	634.0	6.82	93.918		
2,000.0	1,970.0	1,855.5	1,818.1	6.7	6.9	167.32	-211.4	292.9	681.3	674.1	7.19	94.718		
2,100.0	2,068.1	1,946.9	1,906.9	7.0	7.3	167.12	-221.6	311.6	721.9	714.3	7.56	95.439		
2,200.0	2,166.2	2,038.2	1,995.8	7.4	7.7	166.93	-231.8	330.3	762.4	754.5	7.93	96.091		
2,300.0	2,264.2	2,129.6	2,084.7	7.8	8.1	166.77	-242.1	349.0	803.0	794.7	8.31	96.684		
2,400.0	2,362.3	2,221.0	2,173.5	8.2	8.6	166.62	-252.3	367.7	843.5	834.9	8.68	97.226		
2,500.0	2,460.4	2,312.4	2,262.4	8.6	9.0	166.48	-262.6	386.4	884.1	875.1	9.05	97.722		
2,600.0	2,558.4	2,403.8	2,351.2	9.0	9.4	166.36	-272.8	405.1	924.7	915.3	9.42	98.179		
2,700.0	2,656.5	2,495.2	2,440.1	9.4	9.8	166.24	-283.0	423.8	965.3	955.5	9.79	98.601		
2,800.0	2,754.6	2,586.5	2,529.0	9.7	10.2	166.14	-293.3	442.5	1,005.8	995.7	10.16	98.991		
2,900.0	2,852.6	2,677.9	2,617.8	10.1	10.6	166.04	-303.5	461.2	1,046.4	1,035.9	10.53	99.353		
3,000.0	2,950.7	2,769.3	2,706.7	10.5	11.0	165.95	-313.7	479.9	1,087.0	1,076.1	10.90	99.691		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Fee 28-9B - DD - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-MWDD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-16.8	0.0	16.8					
100.0	100.0	100.0	100.0	0.1	0.1	-180.00	-16.8	0.0	16.8	16.5	0.27	61.538		
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-16.8	0.0	16.8	16.1	0.62	26.966 CC, ES		
300.0	300.0	300.2	300.1	0.5	0.5	-160.02	-15.8	2.4	18.4	17.4	0.98	18.777 SF		
400.0	399.6	399.4	399.0	0.7	0.7	177.00	-12.8	9.6	26.5	25.1	1.37	19.398		
500.0	498.8	496.7	495.5	1.0	1.0	161.25	-8.1	21.3	44.0	42.2	1.80	24.514		
600.0	597.1	591.4	588.6	1.3	1.3	152.96	-1.7	37.0	70.2	67.9	2.28	30.725		
700.0	695.2	683.6	678.5	1.7	1.7	147.69	6.2	56.4	101.3	98.4	2.83	35.846		
800.0	793.2	777.8	769.7	2.1	2.2	144.13	15.0	78.1	134.3	130.9	3.39	39.648		
900.0	891.3	871.9	860.8	2.5	2.6	141.98	23.8	99.8	167.5	163.6	3.95	42.382		
1,000.0	989.4	966.1	952.0	2.8	3.0	140.53	32.6	121.5	201.0	196.4	4.52	44.427		
1,100.0	1,087.4	1,060.2	1,043.2	3.2	3.5	139.50	41.4	143.2	234.5	229.4	5.10	46.008		
1,200.0	1,185.5	1,154.4	1,134.4	3.6	3.9	138.73	50.2	164.9	268.0	262.4	5.67	47.264		
1,300.0	1,283.6	1,248.5	1,225.6	4.0	4.4	138.13	59.0	186.6	301.6	295.4	6.25	48.285		
1,400.0	1,381.6	1,342.7	1,316.8	4.4	4.8	137.65	67.8	208.4	335.2	328.4	6.82	49.130		
1,500.0	1,479.7	1,436.8	1,408.0	4.7	5.3	137.25	76.7	230.1	368.8	361.4	7.40	49.842		
1,600.0	1,577.8	1,531.0	1,499.2	5.1	5.7	136.93	85.5	251.8	402.5	394.5	7.98	50.448		
1,700.0	1,675.8	1,625.1	1,590.4	5.5	6.2	136.65	94.3	273.5	436.1	427.6	8.56	50.971		
1,800.0	1,773.9	1,719.3	1,681.5	5.9	6.6	136.41	103.1	295.2	469.8	460.7	9.14	51.427		
1,900.0	1,872.0	1,813.4	1,772.7	6.3	7.1	136.21	111.9	316.9	503.5	493.7	9.71	51.828		
2,000.0	1,970.0	1,907.6	1,863.9	6.7	7.5	136.03	120.7	338.6	537.1	526.8	10.29	52.182		
2,100.0	2,068.1	2,001.7	1,955.1	7.0	8.0	135.87	129.5	360.3	570.8	559.9	10.87	52.499		
2,200.0	2,166.2	2,095.9	2,046.3	7.4	8.4	135.73	138.3	382.0	604.5	593.0	11.45	52.782		
2,300.0	2,264.2	2,190.0	2,137.5	7.8	8.9	135.60	147.2	403.7	638.2	626.1	12.03	53.038		
2,400.0	2,362.3	2,284.2	2,228.7	8.2	9.3	135.49	156.0	425.4	671.8	659.2	12.61	53.271		
2,500.0	2,460.4	2,378.3	2,319.9	8.6	9.8	135.38	164.8	447.1	705.5	692.3	13.19	53.482		
2,600.0	2,558.4	2,472.4	2,411.0	9.0	10.2	135.29	173.6	468.8	739.2	725.4	13.77	53.676		
2,700.0	2,656.5	2,566.6	2,502.2	9.4	10.7	135.21	182.4	490.5	772.9	758.5	14.35	53.853		
2,800.0	2,754.6	2,660.7	2,593.4	9.7	11.1	135.13	191.2	512.2	806.6	791.6	14.93	54.017		
2,900.0	2,852.6	2,754.9	2,684.6	10.1	11.5	135.06	200.0	533.9	840.3	824.8	15.51	54.168		
3,000.0	2,950.7	2,849.0	2,775.8	10.5	12.0	134.99	208.8	555.6	874.0	857.9	16.09	54.308		
3,100.0	3,048.8	2,943.2	2,867.0	10.9	12.4	134.93	217.7	577.3	907.6	891.0	16.67	54.438		
3,200.0	3,146.8	3,037.3	2,958.2	11.3	12.9	134.87	226.5	599.0	941.3	924.1	17.25	54.560		
3,300.0	3,244.9	3,131.5	3,049.4	11.7	13.4	134.82	235.3	620.7	975.0	957.2	17.83	54.673		
3,400.0	3,343.0	3,225.6	3,140.6	12.0	13.8	134.77	244.1	642.4	1,008.7	990.3	18.41	54.780		
3,500.0	3,441.0	3,319.8	3,231.7	12.4	14.3	134.72	252.9	664.1	1,042.4	1,023.4	18.99	54.879		
3,600.0	3,539.1	3,413.9	3,322.9	12.8	14.7	134.68	261.7	685.8	1,076.1	1,056.5	19.58	54.973		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - Benjamin Fee 33-1B - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-111.37	-42.2	-108.0	116.0					
100.0	100.0	100.0	100.0	0.1	0.1	-111.37	-42.2	-108.0	116.0	115.7	425.902			
200.0	200.0	200.0	200.0	0.3	0.3	-111.37	-42.2	-108.0	116.0	115.3	186.632			
300.0	300.0	300.0	300.0	0.5	0.5	-80.70	-42.2	-108.0	115.5	114.5	118.033			
400.0	399.6	399.6	399.6	0.7	0.7	-84.60	-42.2	-108.0	114.5	113.1	83.396			
500.0	498.8	503.9	503.8	1.0	0.8	-92.28	-42.2	-105.2	111.8	109.9	60.718			
600.0	597.1	603.6	603.2	1.3	1.0	-104.34	-42.5	-97.3	108.5	106.1	45.954			
609.7	606.6	612.8	612.4	1.4	1.1	-105.66	-42.7	-96.4	108.4	106.0	44.961 CC, ES			
700.0	695.2	697.2	696.2	1.7	1.3	-118.51	-46.0	-87.0	112.1	109.3	39.146			
800.0	793.2	788.1	785.9	2.1	1.5	-132.27	-53.1	-74.7	126.0	122.7	38.012 SF			
900.0	891.3	875.7	871.9	2.5	1.8	-143.69	-63.4	-60.7	150.0	146.3	40.648			
1,000.0	989.4	960.1	953.7	2.8	2.2	-152.34	-76.5	-45.4	182.6	178.6	45.503			
1,100.0	1,087.4	1,041.0	1,031.4	3.2	2.6	-158.66	-91.9	-28.9	222.2	217.9	51.540			
1,200.0	1,185.5	1,118.4	1,104.8	3.6	3.0	-163.27	-109.4	-11.5	267.3	262.7	58.165			
1,300.0	1,283.6	1,192.2	1,173.9	4.0	3.5	-166.67	-128.4	6.4	317.1	312.2	65.036			
1,400.0	1,381.6	1,262.6	1,238.7	4.4	4.0	-169.23	-148.6	24.8	370.9	365.7	71.933			
1,500.0	1,479.7	1,334.4	1,303.9	4.7	4.6	-171.31	-171.2	44.7	428.0	422.6	78.790			
1,600.0	1,577.8	1,414.9	1,376.7	5.1	5.2	-173.13	-197.1	67.2	486.1	480.4	84.966			
1,700.0	1,675.8	1,495.4	1,449.6	5.5	5.8	-174.57	-222.9	89.8	544.5	538.5	90.559			
1,800.0	1,773.9	1,575.9	1,522.4	5.9	6.4	-175.74	-248.7	112.3	603.1	596.8	95.627			
1,900.0	1,872.0	1,656.4	1,595.2	6.3	7.0	-176.70	-274.5	134.9	661.8	655.2	100.249			
2,000.0	1,970.0	1,736.9	1,668.0	6.7	7.6	-177.51	-300.4	157.5	720.6	713.7	104.478			
2,100.0	2,068.1	1,817.4	1,740.8	7.0	8.3	-178.19	-326.2	180.0	779.5	772.3	108.356			
2,200.0	2,166.2	1,897.9	1,813.6	7.4	8.9	-178.78	-352.0	202.6	838.5	831.0	111.923			
2,300.0	2,264.2	1,978.3	1,886.5	7.8	9.5	-179.29	-377.8	225.1	897.5	889.7	115.206			
2,400.0	2,362.3	2,058.8	1,959.3	8.2	10.1	-179.74	-403.7	247.7	956.5	948.4	118.245			
2,500.0	2,460.4	2,139.3	2,032.1	8.6	10.8	179.86	-429.5	270.3	1,015.6	1,007.2	121.064			
2,600.0	2,558.4	2,219.8	2,104.9	9.0	11.4	179.50	-455.3	292.8	1,074.7	1,066.0	123.686			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - GMR 28-7D Existing - DD - Schlumberger Surveys													Offset Site Error:	0.0 ft
Survey Program: 140-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-131.60	-95.9	-108.0	144.4					
100.0	100.0	102.9	102.8	0.1	0.2	-131.44	-94.9	-107.5	143.4	143.1	0.29	492.044		
200.0	200.0	205.6	205.5	0.3	0.3	-131.10	-92.3	-105.8	140.5	139.8	0.64	219.366		
300.0	300.0	311.2	310.9	0.5	0.6	-100.44	-88.2	-101.2	135.2	134.2	1.00	135.348		
400.0	399.6	413.7	412.9	0.7	0.8	-104.67	-82.4	-93.4	127.4	126.0	1.40	91.260		
500.0	498.8	515.6	514.2	1.0	1.1	-111.56	-74.5	-84.5	119.8	118.0	1.85	64.858		
600.0	597.1	617.0	614.5	1.3	1.4	-121.46	-64.2	-74.0	113.5	111.2	2.35	48.313		
700.0	695.2	717.4	713.4	1.7	1.8	-133.28	-51.9	-61.4	109.3	106.5	2.86	38.176		
800.0	793.2	818.1	811.9	2.1	2.2	-146.10	-36.6	-47.4	106.9	103.5	3.40	31.431		
835.0	827.6	852.9	845.8	2.2	2.3	-150.81	-30.7	-42.2	106.6	103.0	3.60	29.637 CC, ES		
900.0	891.3	917.4	908.3	2.5	2.6	-159.83	-18.9	-31.9	107.5	103.5	3.98	26.983		
1,000.0	989.4	1,015.5	1,003.0	2.8	3.1	-173.65	1.2	-15.3	112.2	107.6	4.66	24.084		
1,100.0	1,087.4	1,111.5	1,094.6	3.2	3.7	172.97	22.9	3.3	122.9	117.4	5.49	22.397		
1,200.0	1,185.5	1,205.9	1,183.9	3.6	4.2	161.20	46.0	23.3	139.5	133.0	6.44	21.673 SF		
1,300.0	1,283.6	1,298.1	1,270.6	4.0	4.8	151.65	69.3	44.5	162.0	154.6	7.39	21.914		
1,400.0	1,381.6	1,391.8	1,358.1	4.4	5.4	143.99	93.6	67.4	189.2	180.9	8.29	22.810		
1,500.0	1,479.7	1,488.3	1,448.7	4.7	6.0	138.30	118.3	89.5	217.5	208.4	9.14	23.791		
1,600.0	1,577.8	1,578.7	1,533.6	5.1	6.6	134.20	141.3	110.5	247.6	237.7	9.93	24.936		
1,700.0	1,675.8	1,671.7	1,620.5	5.5	7.2	130.80	165.0	133.3	279.9	269.2	10.70	26.163		
1,800.0	1,773.9	1,768.9	1,711.7	5.9	7.8	128.05	189.6	156.2	312.1	300.7	11.46	27.226		
1,900.0	1,872.0	1,865.4	1,802.5	6.3	8.4	125.87	213.9	178.2	344.0	331.7	12.21	28.160		
2,000.0	1,970.0	1,952.6	1,884.4	6.7	9.0	124.19	236.1	198.3	376.6	363.6	12.93	29.123		
2,100.0	2,068.1	2,042.8	1,968.6	7.0	9.6	122.62	259.6	220.8	411.1	397.5	13.65	30.126		
2,200.0	2,166.2	2,138.2	2,057.7	7.4	10.3	121.24	284.2	244.3	445.7	431.4	14.38	30.998		
2,300.0	2,264.2	2,230.6	2,144.0	7.8	10.9	120.09	308.1	267.0	480.4	465.4	15.10	31.820		
2,400.0	2,362.3	2,331.9	2,238.8	8.2	11.5	119.01	334.2	291.4	514.8	499.0	15.84	32.506		
2,500.0	2,460.4	2,436.3	2,337.1	8.6	12.1	118.13	360.5	314.6	547.5	530.9	16.59	33.006		
2,600.0	2,558.4	2,534.0	2,429.5	9.0	12.7	117.45	384.5	335.2	579.2	561.9	17.31	33.467		
2,700.0	2,656.5	2,630.7	2,521.2	9.4	13.3	116.90	407.8	355.3	610.4	592.4	18.02	33.875		
2,800.0	2,754.6	2,725.3	2,611.1	9.7	13.8	116.45	430.2	374.8	641.6	622.9	18.72	34.271		
2,900.0	2,852.6	2,813.9	2,695.1	10.1	14.4	116.08	451.1	393.4	673.2	653.8	19.42	34.665		
3,000.0	2,950.7	2,899.6	2,776.0	10.5	14.9	115.67	472.3	412.4	706.0	685.9	20.11	35.109		
3,100.0	3,048.8	2,997.8	2,868.5	10.9	15.5	115.21	496.8	434.5	739.2	718.4	20.83	35.493		
3,200.0	3,146.8	3,097.5	2,962.6	11.3	16.1	114.84	521.1	456.2	771.8	750.2	21.55	35.810		
3,300.0	3,244.9	3,188.6	3,048.9	11.7	16.7	114.58	542.7	475.9	804.0	781.8	22.24	36.159		
3,400.0	3,343.0	3,266.7	3,122.8	12.0	17.1	114.44	560.3	493.9	837.6	814.8	22.86	36.639		
3,500.0	3,441.0	3,358.2	3,209.3	12.4	17.7	114.36	580.0	516.4	872.5	848.9	23.54	37.068		
3,600.0	3,539.1	3,453.8	3,299.8	12.8	18.3	114.31	600.3	539.8	907.2	883.0	24.23	37.446		
3,700.0	3,637.2	3,550.3	3,391.2	13.2	18.8	114.28	620.5	563.1	941.7	916.7	24.92	37.795		
3,800.0	3,735.2	3,645.7	3,481.7	13.6	19.4	114.26	640.1	586.1	975.9	950.3	25.61	38.112		
3,900.0	3,833.3	3,736.9	3,568.2	14.0	19.9	114.24	659.2	608.0	1,010.2	983.9	26.29	38.423		
4,000.0	3,931.4	3,826.6	3,653.0	14.4	20.5	114.19	678.4	629.8	1,044.8	1,017.8	26.96	38.748		
4,100.0	4,029.4	3,909.2	3,731.0	14.7	21.0	114.15	695.9	650.5	1,080.1	1,052.5	27.60	39.139		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design K28NW Pad - GMU 28-14D Existing - Schlumberger Surveys - Schlumberger Surveys													Offset Site Error:	0.0 ft
Survey Program: 270-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-136.79	-133.3	-125.2	182.9					
100.0	100.0	100.2	100.2	0.1	0.2	-136.78	-133.3	-125.2	182.9	182.6	0.30	616.140		
200.0	200.0	200.3	200.3	0.3	0.3	-136.74	-133.1	-125.2	182.7	182.1	0.63	289.132		
215.0	215.0	215.3	215.3	0.3	0.3	-104.80	-133.0	-125.2	182.7	182.0	0.68	267.583 CC, ES		
300.0	300.0	300.1	300.1	0.5	0.5	-105.51	-132.8	-125.2	183.2	182.2	0.98	187.234		
400.0	399.6	397.9	397.9	0.7	0.7	-107.78	-133.2	-125.2	185.8	184.4	1.37	136.066		
500.0	498.8	494.4	494.3	1.0	0.8	-111.12	-134.3	-126.5	191.9	190.1	1.80	106.514		
600.0	597.1	590.0	590.0	1.3	1.0	-115.50	-136.4	-128.2	202.0	199.7	2.28	88.653		
700.0	695.2	682.7	682.6	1.7	1.2	-120.07	-140.3	-129.9	215.9	213.1	2.74	78.713		
800.0	793.2	775.3	774.9	2.1	1.4	-124.02	-146.1	-132.8	233.5	230.3	3.19	73.124		
900.0	891.3	870.3	869.6	2.5	1.6	-127.37	-153.1	-136.8	253.4	249.8	3.64	69.696		
1,000.0	989.4	961.8	960.7	2.8	1.8	-129.85	-160.1	-142.2	274.9	270.9	4.07	67.503		
1,100.0	1,087.4	1,049.3	1,047.4	3.2	2.0	-131.57	-168.9	-149.6	299.7	295.2	4.51	66.450		
1,200.0	1,185.5	1,135.5	1,132.4	3.6	2.3	-132.70	-179.6	-159.2	327.7	322.7	4.96	66.069 SF		
1,300.0	1,283.6	1,220.7	1,215.8	4.0	2.6	-133.38	-192.2	-170.9	358.6	353.2	5.42	66.135		
1,400.0	1,381.6	1,305.5	1,298.4	4.4	2.9	-133.88	-206.8	-183.4	392.0	386.1	5.89	66.538		
1,500.0	1,479.7	1,384.0	1,374.4	4.7	3.2	-134.29	-222.3	-195.4	428.1	421.7	6.35	67.407		
1,600.0	1,577.8	1,474.6	1,461.6	5.1	3.7	-134.56	-241.8	-210.5	466.0	459.1	6.87	67.833		
1,700.0	1,675.8	1,564.6	1,547.7	5.5	4.1	-134.57	-261.6	-227.4	504.7	497.3	7.39	68.251		
1,800.0	1,773.9	1,662.3	1,641.3	5.9	4.6	-134.49	-282.4	-246.5	543.0	535.1	7.96	68.243		
1,900.0	1,872.0	1,756.9	1,732.0	6.3	5.1	-134.38	-301.7	-265.1	580.5	572.0	8.51	68.180		
2,000.0	1,970.0	1,842.8	1,814.2	6.7	5.6	-134.26	-319.6	-282.4	618.6	609.5	9.06	68.296		
2,100.0	2,068.1	1,928.6	1,896.0	7.0	6.0	-134.15	-338.4	-300.0	657.6	648.0	9.60	68.505		
2,200.0	2,166.2	2,018.2	1,981.4	7.4	6.5	-134.02	-358.4	-318.6	697.2	687.0	10.16	68.620		
2,300.0	2,264.2	2,108.7	2,067.4	7.8	7.0	-133.90	-378.9	-337.7	737.1	726.4	10.72	68.732		
2,400.0	2,362.3	2,219.1	2,172.6	8.2	7.6	-133.68	-402.4	-361.5	775.9	764.5	11.38	68.167		
2,500.0	2,460.4	2,321.0	2,270.0	8.6	8.2	-133.39	-421.7	-384.6	812.7	800.7	12.03	67.575		
2,600.0	2,558.4	2,405.0	2,350.0	9.0	8.7	-133.10	-437.6	-404.6	849.8	837.2	12.64	67.256		
2,700.0	2,656.5	2,488.2	2,428.9	9.4	9.2	-132.77	-453.9	-425.5	888.0	874.7	13.24	67.067		
2,800.0	2,754.6	2,568.1	2,504.3	9.7	9.7	-132.43	-470.2	-446.3	927.2	913.4	13.81	67.123		
2,900.0	2,852.6	2,643.7	2,575.5	10.1	10.2	-132.22	-487.2	-465.0	967.8	953.5	14.34	67.468		
3,000.0	2,950.7	2,727.1	2,654.1	10.5	10.7	-132.13	-507.6	-484.0	1,009.8	994.9	14.89	67.807		
3,100.0	3,048.8	2,825.8	2,747.5	10.9	11.2	-132.14	-531.7	-504.8	1,051.5	1,036.0	15.47	67.968		
3,200.0	3,146.8	2,908.0	2,825.4	11.3	11.7	-132.22	-552.6	-520.9	1,093.5	1,077.5	15.99	68.400		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Benjamin Fee 28-6C
Project:	Mamm Creek	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Reference Site:	K28NW Pad	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Benjamin Fee 28-6C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5965.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: Benjamin Fee 28-6C
 Coordinate System is US State Plane 1983, Colorado Central Zone
 Grid Convergence at Surface is: -1.44°

