

EnCana Oil & Gas (USA) Inc

North Piceance

H04 596 Pad

UWF15B-03 H04 596 (was 10E-03)

DD

PLAN #4

Anticollision Report

19 September, 2016

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Reference	PLAN #4		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,500.00usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	9/19/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	12,851.46	PLAN #4 (DD)	MWD+HDGM	OWSG MWD + HDGM	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
H04 596 Pad						
CP01B-04 H04 ST1 (EXISTING) - Existing - SURVEYS	715.60	715.17	125.32	121.68	34.402	CC, ES
CP01B-04 H04 ST1 (EXISTING) - Existing - SURVEYS	900.00	891.13	138.35	133.54	28.744	SF
CP01B-04 H04 ST1 (EXISTING) - Existing Gyro - GYRO	715.84	720.74	125.25	122.24	41.580	CC, ES
CP01B-04 H04 ST1 (EXISTING) - Existing Gyro - GYRO	900.00	896.32	138.30	134.32	34.758	SF
CP05B-03 H04 (EXISTING) - Existing - SURVEYS	905.18	900.06	149.45	144.60	30.869	CC, ES
CP05B-03 H04 (EXISTING) - Existing - SURVEYS	1,200.00	1,186.64	175.27	168.39	25.473	SF
CP05B-03 H04 (EXISTING) - Existing Gyro - GYRO	915.48	916.05	147.93	143.84	36.131	CC, ES
CP05B-03 H04 (EXISTING) - Existing Gyro - GYRO	1,200.00	1,191.10	175.14	169.31	30.036	SF
CP08D-04 H04 (EXISTING) - Existing - SURVEYS	713.56	708.18	143.53	139.98	40.501	CC, ES
CP08D-04 H04 (EXISTING) - Existing - SURVEYS	1,100.00	1,077.86	180.32	174.31	30.043	SF
CP08D-04 H04 (EXISTING) - Existing Gyro - GYRO	716.00	716.14	141.97	139.02	48.066	CC, ES
CP08D-04 H04 (EXISTING) - Existing Gyro - GYRO	1,100.00	1,083.70	180.34	175.27	35.568	SF
CP09B-04 K04 (EXISTING) - Existing - GYROS						Out of range
CP12D-03 H04 (EXISTING) - Existing - SURVEYS	0.00	0.00	169.92			
CP12D-03 H04 (EXISTING) - Existing - SURVEYS	200.00	195.26	170.61	169.82	214.675	ES
CP12D-03 H04 (EXISTING) - Existing - SURVEYS	1,200.00	1,172.77	216.43	209.40	30.784	SF
CP12D-03 H04 (EXISTING) - Existing Gyro - GYRO	0.00	1.00	169.87			
CP12D-03 H04 (EXISTING) - Existing Gyro - GYRO	100.00	100.73	169.95	169.76	891.857	ES
CP12D-03 H04 (EXISTING) - Existing Gyro - GYRO	1,200.00	1,176.28	217.91	211.99	36.833	SF
UWF02A-09 H04 596 - DD - Plan #2	104.19	104.19	79.95	79.69	308.247	CC
UWF02A-09 H04 596 - DD - Plan #2	200.00	199.42	80.13	79.36	103.445	ES
UWF02A-09 H04 596 - DD - Plan #2	600.00	583.21	112.52	108.91	31.147	SF
UWF02B-09 H04 596 - DD - Plan #2	575.84	575.31	88.34	85.59	32.076	CC
UWF02B-09 H04 596 - DD - Plan #2	800.00	802.79	89.23	85.11	21.645	ES
UWF02B-09 H04 596 - DD - Plan #2	1,000.00	1,002.04	94.39	88.91	17.217	SF
UWF02C-04 H04 596 - DD - Plan #2	216.67	216.67	140.63	139.77	163.734	CC
UWF02C-04 H04 596 - DD - Plan #2	300.00	300.00	140.63	139.32	107.921	ES
UWF02C-04 H04 596 - DD - Plan #2	800.00	759.53	201.78	197.20	44.077	SF
UWF02D-04 H04 596 - DD - Plan #2	116.67	116.67	139.72	139.40	428.790	CC
UWF02D-04 H04 596 - DD - Plan #2	200.00	200.00	139.72	138.95	181.454	ES
UWF02D-04 H04 596 - DD - Plan #2	700.00	667.93	190.38	186.27	46.359	SF
UWF02E-04 H04 596 - DD - Plan #2	350.00	350.00	119.74	118.17	76.290	CC
UWF02E-04 H04 596 - DD - Plan #2	400.00	399.99	119.84	118.01	65.480	ES
UWF02E-04 H04 596 - DD - Plan #2	800.00	777.21	157.53	153.19	36.329	SF
UWF04A-10 H04 596 - DD - Plan #2	203.41	203.41	79.90	79.11	101.367	CC, ES
UWF04A-10 H04 596 - DD - Plan #2	4,400.00	4,040.79	1,497.23	1,424.96	20.719	SF
UWF04B-04 H04 596 - DD - Plan #2	350.00	350.00	130.30	128.73	83.019	CC
UWF04B-04 H04 596 - DD - Plan #2	400.00	399.99	130.35	128.52	71.224	ES
UWF04B-04 H04 596 - DD - Plan #2	800.00	774.95	170.07	165.75	39.370	SF
UWF04B-10 H04 596 - DD - Plan #2	116.67	116.67	90.26	89.93	276.990	CC
UWF04B-10 H04 596 - DD - Plan #2	200.00	200.00	90.26	89.49	117.216	ES
UWF04B-10 H04 596 - DD - Plan #2	4,200.00	3,816.76	1,487.60	1,418.34	21.478	SF
UWF04C-04 H04 596 - DD - Plan #2	540.32	548.78	116.01	113.01	38.645	CC, ES
UWF04C-04 H04 596 - DD - Plan #2	700.00	695.94	131.26	126.97	30.568	SF
UWF04C-10 H04 596 - DD - Plan #2	103.39	103.39	99.77	99.51	391.107	CC
UWF04C-10 H04 596 - DD - Plan #2	200.00	197.84	100.31	99.50	124.273	ES
UWF04C-10 H04 596 - DD - Plan #2	4,000.00	3,592.74	1,475.01	1,409.45	22.499	SF
UWF04D-03 H04 596 - DD - Plan #2	116.67	116.67	120.95	120.62	371.169	CC
UWF04D-03 H04 596 - DD - Plan #2	200.00	200.00	120.95	120.18	157.070	ES
UWF04D-03 H04 596 - DD - Plan #2	1,500.00	1,413.60	400.60	388.85	34.084	SF
UWF04D-10 H04 596 - DD - Plan #2	103.34	103.34	99.93	99.68	392.148	CC, ES
UWF04D-10 H04 596 - DD - Plan #2	3,600.00	3,293.05	1,462.59	1,406.50	26.076	SF
UWF04E-03 H04 596 - DD - Plan #2	216.67	216.67	110.38	109.53	128.524	CC

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

Cathedral Energy Services

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Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
H04 596 Pad						
UWF04E-03 H04 596 - DD - Plan #2	300.00	300.00	110.38	109.08	84.714	ES
UWF04E-03 H04 596 - DD - Plan #2	1,400.00	1,342.57	317.12	306.80	30.744	SF
UWF04E-04 H04 596 - DD - Plan #2	398.80	399.34	110.17	108.34	60.139	CC
UWF04E-04 H04 596 - DD - Plan #2	400.00	400.55	110.17	108.33	59.925	ES
UWF04E-04 H04 596 - DD - Plan #2	800.00	776.07	159.05	154.46	34.636	SF
UWF05A-03 H04 596 - DD - Plan #2	116.67	116.67	101.04	100.71	310.069	CC
UWF05A-03 H04 596 - DD - Plan #2	200.00	200.00	101.04	100.27	131.214	ES
UWF05A-03 H04 596 - DD - Plan #2	1,400.00	1,352.79	283.01	272.33	26.511	SF
UWF05A-04 H04 596 - DD - Plan #2	420.80	421.56	90.00	88.05	46.017	CC, ES
UWF05A-04 H04 596 - DD - Plan #2	700.00	689.61	113.50	109.69	29.781	SF
UWF05B-03 H04 596 - DD - Plan #3	216.67	216.67	90.48	89.62	105.347	CC
UWF05B-03 H04 596 - DD - Plan #3	300.00	300.00	90.48	89.18	69.437	ES
UWF05B-03 H04 596 - DD - Plan #3	1,300.00	1,272.37	210.73	201.53	22.909	SF
UWF05C-03 H04 596 - DD - Plan #2	216.67	216.67	70.63	69.77	82.233	CC
UWF05C-03 H04 596 - DD - Plan #2	350.00	349.24	70.89	69.32	44.994	ES
UWF05C-03 H04 596 - DD - Plan #2	1,200.00	1,185.02	143.57	135.32	17.386	SF
UWF05D-03 H04 596 - DD - Plan #2	216.67	216.67	50.88	50.02	59.243	CC
UWF05D-03 H04 596 - DD - Plan #2	400.00	399.64	51.19	49.35	27.851	ES
UWF05D-03 H04 596 - DD - Plan #2	1,100.00	1,092.72	85.08	77.78	11.652	SF
UWF05E-03 H04 596 - DD - Plan #2	200.00	200.00	41.71	40.94	54.168	CC
UWF05E-03 H04 596 - DD - Plan #2	1,129.91	1,123.74	44.04	36.02	5.490	ES
UWF05E-03 H04 596 - DD - Plan #2	1,200.00	1,192.41	46.18	37.51	5.326	SF
UWF06B-04 H04 596 - DD - Plan #2	399.44	400.35	68.89	67.00	36.496	CC
UWF06B-04 H04 596 - DD - Plan #2	400.00	400.91	68.89	67.00	36.429	ES
UWF06B-04 H04 596 - DD - Plan #2	600.00	593.85	84.74	81.40	25.325	SF
UWF06E-04 H04 596 (was 07E-04) - DD - Plan #3	467.47	469.78	42.99	40.65	18.345	CC, ES
UWF06E-04 H04 596 (was 07E-04) - DD - Plan #3	600.00	597.92	55.21	51.89	16.640	SF
UWF07A-04 H04 596 - DD - Plan #2	350.00	350.00	99.75	98.18	63.552	CC
UWF07A-04 H04 596 - DD - Plan #2	400.00	399.99	99.85	98.02	54.557	ES
UWF07A-04 H04 596 - DD - Plan #2	800.00	780.44	144.58	140.30	33.783	SF
UWF07B-03 H04 596 - DD - Plan #2	116.67	116.67	81.16	80.84	249.070	CC
UWF07B-03 H04 596 - DD - Plan #2	200.00	200.00	81.16	80.39	105.401	ES
UWF07B-03 H04 596 - DD - Plan #2	6,200.00	5,962.07	1,491.68	1,366.98	11.962	SF
UWF07B-04 H04 596 - DD - Plan #3	350.00	350.00	79.76	78.19	50.817	CC, ES
UWF07B-04 H04 596 - DD - Plan #3	800.00	790.07	109.71	105.65	27.009	SF
UWF07C-03 H04 596 - DD - Plan #2	116.67	116.67	61.36	61.03	188.295	CC
UWF07C-03 H04 596 - DD - Plan #2	200.00	200.00	61.36	60.59	79.682	ES
UWF07C-03 H04 596 - DD - Plan #2	7,000.00	6,788.54	1,487.06	1,342.76	10.305	SF
UWF07C-04 H04 596 - DD - Plan #2	452.09	453.15	58.74	56.61	27.505	CC, ES
UWF07C-04 H04 596 - DD - Plan #2	600.00	597.79	66.47	63.42	21.785	SF
UWF07E-03 H04 596 - DD - Plan #2	350.00	350.00	39.98	38.41	25.474	CC
UWF07E-03 H04 596 - DD - Plan #2	400.00	399.99	40.08	38.25	21.901	ES
UWF07E-03 H04 596 - DD - Plan #2	12,851.46	12,651.86	1,325.52	1,144.68	7.330	SF
UWF10A-03 H04 596 - DD - Plan #2	116.67	116.67	22.74	22.41	69.771	CC
UWF10A-03 H04 596 - DD - Plan #2	200.00	200.00	22.74	21.97	29.526	ES
UWF10A-03 H04 596 - DD - Plan #2	3,600.00	3,540.06	389.45	321.94	5.769	SF
UWF10A-04 H04 596 - DD - Plan #2	443.12	444.51	22.86	20.67	10.451	CC, ES
UWF10A-04 H04 596 - DD - Plan #2	500.00	500.45	25.45	22.92	10.035	SF
UWF10B-03 H04 596 - DD - Plan #2	350.00	350.00	19.99	18.42	12.736	CC
UWF10B-03 H04 596 - DD - Plan #2	400.00	399.99	20.10	18.27	10.980	ES
UWF10B-03 H04 596 - DD - Plan #2	12,851.46	12,740.36	795.26	613.97	4.387	SF
UWF10C-03 H04 596 - DD - Plan #2	104.04	104.04	14.37	14.12	55.595	CC
UWF10C-03 H04 596 - DD - Plan #2	200.00	199.70	14.88	14.08	18.445	ES

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
H04 596 Pad						
UWF10C-03 H04 596 - DD - Plan #2	4,700.00	4,648.08	270.89	174.03	2.797	SF
UWF10C-04 H04 596 - DD - Plan #2	203.87	203.87	9.62	8.83	12.168	CC
UWF10C-04 H04 596 - DD - Plan #2	300.00	299.89	9.90	8.59	7.560	ES
UWF10C-04 H04 596 - DD - Plan #2	400.00	399.58	12.30	10.42	6.549	SF
UWF10E-04 H04 596 - DD - Plan #2	216.67	216.67	19.98	19.12	23.264	CC
UWF10E-04 H04 596 - DD - Plan #2	300.00	300.00	19.98	18.68	15.334	ES
UWF10E-04 H04 596 - DD - Plan #2	500.00	497.15	30.05	27.46	11.592	SF
UWF12A-03 H04 596 - DD - Plan #3	485.96	485.84	31.07	28.79	13.651	CC
UWF12A-03 H04 596 - DD - Plan #3	500.00	499.85	31.09	28.74	13.236	ES
UWF12A-03 H04 596 - DD - Plan #3	1,000.00	1,004.08	46.38	40.68	8.137	SF
UWF12B-03 H04 596 - DD - Plan #2	350.00	350.00	10.40	8.83	6.623	CC
UWF12B-03 H04 596 - DD - Plan #2	600.00	600.68	11.26	8.21	3.696	ES
UWF12B-03 H04 596 - DD - Plan #2	800.00	801.70	14.20	9.72	3.171	SF
UWF12C-03 H04 596 - DD - Plan #2	530.44	529.60	11.93	9.35	4.615	CC, ES
UWF12C-03 H04 596 - DD - Plan #2	600.00	598.77	12.57	9.57	4.198	SF
UWF12E-03 H04 596 - DD - Plan #2	562.77	562.27	17.77	15.08	6.618	CC, ES
UWF12E-03 H04 596 - DD - Plan #2	600.00	599.15	18.37	15.49	6.368	SF
UWF13A-03 H04 596 - DD - Plan #2	548.97	548.15	28.62	26.00	10.937	CC, ES
UWF13A-03 H04 596 - DD - Plan #2	700.00	697.37	34.50	31.02	9.905	SF
UWF13B-03 H04 596 - DD - Plan #3	501.70	500.76	39.15	36.78	16.542	CC, ES
UWF13B-03 H04 596 - DD - Plan #3	700.00	695.70	46.73	43.18	13.171	SF
UWF13C-03 H04 596 - DD - PLAN #4	431.72	431.03	50.20	47.59	19.218	CC, ES
UWF13C-03 H04 596 - DD - PLAN #4	700.00	693.11	61.47	56.67	12.808	SF
UWF13D-03 H04 596 - DD - Plan #2	350.00	350.00	60.11	58.54	38.296	CC, ES
UWF13D-03 H04 596 - DD - Plan #2	2,000.00	1,901.14	444.73	421.84	19.425	SF
UWF13E-03 H04 596 - DD - Plan #2	216.67	216.67	70.43	69.57	82.005	CC
UWF13E-03 H04 596 - DD - Plan #2	300.00	300.00	70.43	69.13	54.052	ES
UWF13E-03 H04 596 - DD - Plan #2	3,200.00	2,979.53	949.83	902.80	20.196	SF
UWF14C-04 H04 596 (was 15C-04) - DD - Plan #3	483.10	482.79	48.91	46.64	21.628	CC
UWF14C-04 H04 596 (was 15C-04) - DD - Plan #3	500.00	499.23	48.99	46.64	20.832	ES
UWF14C-04 H04 596 (was 15C-04) - DD - Plan #3	600.00	596.13	53.34	50.39	18.073	SF
UWF15A-03 H04 596 (was 10D-03) - DD - PLAN #4	216.67	216.67	9.60	8.52	8.918	CC
UWF15A-03 H04 596 (was 10D-03) - DD - PLAN #4	300.00	300.00	9.60	7.93	5.735	ES
UWF15A-03 H04 596 (was 10D-03) - DD - PLAN #4	12,851.46	12,686.32	265.03	72.69	1.378	Level 3, SF
UWF15A-04 H04 596 - DD - Plan #3	470.95	470.87	29.35	27.15	13.353	CC
UWF15A-04 H04 596 - DD - Plan #3	500.00	499.85	29.42	27.08	12.528	ES
UWF15A-04 H04 596 - DD - Plan #3	600.00	597.71	34.24	31.31	11.693	SF
UWF15B-04 H04 596 - DD - Plan #2	203.67	203.67	39.97	39.18	50.615	CC
UWF15B-04 H04 596 - DD - Plan #2	300.00	299.25	40.43	39.11	30.641	ES
UWF15B-04 H04 596 - DD - Plan #2	500.00	494.37	53.37	50.70	20.008	SF
UWF15D-04 H04 596 - DD - Plan #3	216.67	216.67	59.98	59.12	69.833	CC
UWF15D-04 H04 596 - DD - Plan #3	300.00	300.00	59.98	58.67	46.028	ES
UWF15D-04 H04 596 - DD - Plan #3	600.00	588.01	82.38	79.11	25.175	SF
UWF15E-04 H04 596 - DD - Plan #3	104.46	104.46	69.36	69.10	265.943	CC
UWF15E-04 H04 596 - DD - Plan #3	200.00	198.71	69.73	68.93	87.377	ES
UWF15E-04 H04 596 - DD - Plan #3	600.00	577.48	116.54	112.91	32.124	SF
WF03D B04 (EXISTING) - Existing - SURVEYS						Out of range
WF04D B04 (EXISTING) - Existing - SURVEYS						Out of range
WF10D O03 (EXISTING) - Existing - SURVEYS	7,685.03	6,452.16	166.00	60.83	1.578	CC, ES, SF

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 1-MWD													H04 596 Pad - CP01B-04 H04 ST1 (EXISTING) - Existing - SURVEYS		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance		Total		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor				
0.00	0.00	0.00	0.00	0.00	0.00	-168.39	-137.10	-28.16	140.00							
100.00	100.00	96.23	96.23	0.12	0.14	-168.72	-137.53	-27.42	140.24	139.97	0.27	519.627				
200.00	200.00	196.81	196.80	0.48	0.31	-168.75	-138.06	-27.47	140.77	139.98	0.79	177.595				
300.00	300.00	298.69	298.67	0.84	0.49	-168.33	-137.32	-28.36	140.23	138.89	1.34	104.935				
350.00	350.00	350.10	350.07	1.02	0.58	-167.93	-136.30	-29.13	139.41	137.79	1.62	86.111				
400.00	399.99	401.68	401.61	1.19	0.68	78.56	-134.63	-30.02	137.89	135.98	1.90	72.469				
500.00	499.85	501.51	501.34	1.54	0.86	82.13	-130.61	-32.09	133.62	131.20	2.42	55.237				
600.00	599.29	602.59	602.23	1.90	1.07	88.81	-125.19	-34.86	128.62	125.63	2.99	43.067				
700.00	698.04	700.13	699.52	2.28	1.27	98.33	-118.95	-38.07	125.40	121.85	3.55	35.331				
715.60	713.37	715.17	714.52	2.35	1.30	100.03	-117.99	-38.59	125.32	121.68	3.64	34.402	CC, ES			
800.00	795.85	796.25	795.39	2.70	1.47	109.91	-112.88	-41.50	127.82	123.66	4.16	30.718				
900.00	892.43	891.13	889.93	3.17	1.68	122.50	-105.96	-45.52	138.35	133.54	4.81	28.744	SF			
1,000.00	987.52	983.91	982.26	3.71	1.90	134.34	-97.99	-50.00	158.88	153.43	5.45	29.134				
1,100.00	1,080.87	1,076.49	1,074.44	4.33	2.10	144.05	-90.20	-53.50	188.45	182.40	6.05	31.128				
1,200.00	1,172.22	1,165.36	1,162.98	5.04	2.31	151.35	-82.90	-56.07	225.76	219.14	6.63	34.074				
1,300.00	1,261.31	1,246.76	1,243.92	5.85	2.51	156.86	-74.93	-59.14	271.18	264.01	7.17	37.832				
1,400.00	1,347.90	1,327.20	1,323.80	6.79	2.72	161.27	-66.26	-62.91	323.87	316.18	7.69	42.102				
1,500.00	1,431.76	1,404.67	1,400.74	7.86	2.92	164.58	-58.01	-66.82	382.47	374.26	8.20	46.631				
1,603.26	1,515.23	1,480.90	1,476.43	9.10	3.12	167.13	-50.01	-70.87	448.36	439.64	8.72	51.443				
1,700.00	1,591.88	1,549.57	1,544.59	10.35	3.31	169.47	-42.56	-74.67	512.85	503.67	9.18	55.872				
1,800.00	1,671.11	1,618.96	1,613.39	11.67	3.50	171.38	-34.52	-78.71	580.31	570.67	9.64	60.177				
1,900.00	1,750.34	1,692.70	1,686.54	13.01	3.70	172.97	-26.26	-83.23	648.21	638.07	10.13	63.985				
2,000.00	1,829.57	1,768.64	1,761.95	14.36	3.89	174.19	-18.70	-87.96	716.07	705.43	10.64	67.283				
2,100.00	1,908.81	1,840.34	1,833.18	15.72	4.08	175.13	-11.81	-92.24	783.80	772.66	11.14	70.389				
2,200.00	1,988.04	1,902.00	1,894.41	17.09	4.25	175.82	-5.76	-96.32	852.15	840.58	11.57	73.683				
2,300.00	2,067.27	1,960.71	1,952.61	18.46	4.42	176.41	0.48	-100.87	921.57	909.59	11.98	76.926				
2,400.00	2,146.50	2,023.56	2,014.77	19.84	4.61	176.99	7.80	-106.56	992.14	979.72	12.42	79.856				
2,500.00	2,225.73	2,093.24	2,083.69	21.23	4.82	177.54	15.80	-113.04	1,062.90	1,049.99	12.92	82.286				
2,600.00	2,304.96	2,161.46	2,151.18	22.62	5.02	177.98	23.19	-119.68	1,133.81	1,120.41	13.40	84.611				
2,700.00	2,384.19	2,220.83	2,209.90	24.00	5.20	178.30	29.48	-125.84	1,205.10	1,191.28	13.82	87.181				
2,800.00	2,463.42	2,281.02	2,269.34	25.40	5.39	178.59	36.15	-132.57	1,277.05	1,262.80	14.25	89.602				
2,900.00	2,542.66	2,342.32	2,329.84	26.79	5.58	178.85	42.83	-139.84	1,349.42	1,334.74	14.69	91.883				
3,000.00	2,621.89	2,405.13	2,391.80	28.18	5.78	179.05	49.14	-147.91	1,422.19	1,407.06	15.13	93.993				
3,100.00	2,701.12	2,468.56	2,454.38	29.58	5.97	179.18	54.77	-156.56	1,495.13	1,479.56	15.58	95.986				

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft							
Survey Program: 100-Gyro													Offset Well Error:		0.00 usft						
Reference													Offset		Semi Major Axis		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor									
0.00	0.00	2.03	2.03	0.00	0.00	-168.39	-137.10	-28.16	139.96												
100.00	100.00	103.22	103.22	0.12	0.07	-168.33	-136.59	-28.22	139.48	139.27	0.22	643.924									
166.26	166.26	168.27	168.26	0.36	0.13	-168.21	-136.26	-28.43	139.19	138.71	0.49	286.759									
200.00	200.00	201.44	201.43	0.48	0.16	-168.14	-136.29	-28.62	139.27	138.63	0.64	218.682									
300.00	300.00	303.22	303.21	0.84	0.25	-167.59	-135.80	-29.87	139.05	137.96	1.09	127.856									
350.00	350.00	354.84	354.81	1.02	0.29	-167.14	-134.83	-30.78	138.32	137.00	1.33	104.330									
400.00	399.99	406.24	406.17	1.19	0.34	79.36	-133.25	-31.68	136.90	135.34	1.56	87.728									
500.00	499.85	506.46	506.30	1.54	0.43	82.94	-129.40	-33.69	132.92	130.93	1.99	66.668									
600.00	599.29	607.30	606.96	1.90	0.54	89.66	-124.07	-36.51	128.22	125.76	2.46	52.071									
700.00	698.04	705.29	704.71	2.28	0.64	99.17	-117.88	-39.55	125.32	122.38	2.93	42.749									
715.84	713.60	720.74	720.11	2.35	0.65	100.90	-116.87	-40.04	125.25	122.24	3.01	41.580 CC, ES									
800.00	795.85	801.93	801.05	2.70	0.74	110.97	-111.10	-42.93	127.59	124.15	3.44	37.060									
900.00	892.43	896.32	895.08	3.17	0.85	123.51	-103.86	-46.75	138.30	134.32	3.98	34.758 SF									
1,000.00	987.52	989.02	987.41	3.71	0.95	134.94	-96.50	-50.60	158.96	154.45	4.51	35.246									
1,100.00	1,080.87	1,080.34	1,078.36	4.33	1.06	144.33	-89.16	-54.20	189.00	183.98	5.01	37.696									
1,200.00	1,172.22	1,170.13	1,167.78	5.04	1.16	151.69	-81.64	-57.20	226.87	221.37	5.50	41.257									
1,300.00	1,261.31	1,253.28	1,250.50	5.85	1.26	157.23	-73.60	-59.86	271.92	265.96	5.96	45.633									
1,400.00	1,347.90	1,331.94	1,328.66	6.79	1.36	161.40	-65.56	-63.47	324.55	318.15	6.40	50.713									
1,500.00	1,431.76	1,409.22	1,405.43	7.86	1.46	164.64	-57.48	-67.41	383.18	376.35	6.83	56.076									
1,603.26	1,515.23	1,484.32	1,479.99	9.10	1.56	167.14	-49.57	-71.55	449.23	441.97	7.27	61.824									
1,700.00	1,591.88	1,553.21	1,548.36	10.35	1.66	169.47	-42.16	-75.59	513.95	506.29	7.66	67.084									
1,800.00	1,671.11	1,625.53	1,620.09	11.67	1.75	171.43	-33.97	-79.88	581.44	573.37	8.06	72.098									
1,900.00	1,750.34	1,700.00	1,694.04	13.01	1.85	172.92	-26.48	-84.40	649.01	640.52	8.48	76.493									
2,000.00	1,829.57	1,771.77	1,765.37	14.36	1.94	174.03	-19.86	-88.92	716.71	707.81	8.90	80.519									
2,100.00	1,908.81	1,840.95	1,834.09	15.72	2.03	174.92	-13.37	-93.49	784.81	775.50	9.31	84.306									
2,200.00	1,988.04	1,900.00	1,892.71	17.09	2.11	175.57	-7.76	-97.69	853.44	843.77	9.66	88.306									
2,300.00	2,067.27	1,967.66	1,959.80	18.46	2.21	176.25	-0.76	-102.99	922.80	912.73	10.07	91.601									
2,400.00	2,146.50	2,031.58	2,023.05	19.84	2.31	176.85	6.63	-108.55	993.12	982.65	10.46	94.931									
2,500.00	2,225.73	2,100.00	2,090.77	21.23	2.40	177.37	14.08	-114.84	1,063.62	1,052.75	10.88	97.780									
2,600.00	2,304.96	2,165.04	2,155.15	22.62	2.50	177.77	20.76	-121.21	1,134.41	1,123.14	11.28	100.602									
2,700.00	2,384.19	2,225.56	2,215.02	24.00	2.59	178.09	26.92	-127.63	1,205.72	1,194.07	11.65	103.499									
2,800.00	2,463.42	2,282.91	2,271.67	25.40	2.68	178.36	32.98	-134.19	1,277.69	1,265.69	12.00	106.433									
2,900.00	2,542.66	2,346.71	2,334.62	26.79	2.78	178.63	39.84	-141.95	1,350.20	1,337.80	12.40	108.891									
3,000.00	2,621.89	2,412.07	2,399.12	28.18	2.88	178.85	46.43	-150.23	1,422.84	1,410.03	12.81	111.114									
3,100.00	2,701.12	2,471.24	2,457.49	29.58	2.97	178.99	51.88	-158.24	1,495.81	1,482.64	13.17	113.578									

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
H04 596 Pad - CP05B-03 H04 (EXISTING) - Existing - SURVEYS													Offset Well Error:	0.00 usft
Survey Program: 37-MWD														
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	-167.72	-156.42	-34.04	160.10					
100.00	100.00	97.29	97.29	0.12	0.14	-167.77	-156.45	-33.91	160.09	159.83	0.26	612.359		
200.00	200.00	197.83	197.83	0.48	0.32	-167.91	-156.15	-33.46	159.70	158.90	0.80	200.406		
300.00	300.00	297.22	297.20	0.84	0.49	-168.60	-156.37	-31.52	159.51	158.18	1.33	119.912		
350.00	350.00	347.37	347.31	1.02	0.59	-169.30	-156.65	-29.61	159.43	157.83	1.60	99.526		
400.00	399.99	397.52	397.41	1.19	0.68	75.84	-156.93	-27.48	159.16	157.29	1.87	85.172		
500.00	499.85	495.73	495.53	1.54	0.86	76.10	-157.92	-23.26	158.11	155.72	2.40	65.937		
600.00	599.29	595.80	595.49	1.90	1.05	78.20	-159.51	-18.91	156.47	153.52	2.95	53.067		
700.00	698.04	695.69	695.25	2.28	1.25	82.14	-161.02	-14.16	154.05	150.52	3.53	43.690		
800.00	795.85	796.51	795.93	2.70	1.44	88.14	-161.56	-8.79	150.98	146.83	4.15	36.400		
900.00	892.43	894.90	894.17	3.17	1.64	96.13	-161.53	-3.44	149.45	144.65	4.80	31.106		
905.18	897.39	900.06	899.32	3.20	1.64	96.61	-161.49	-3.17	149.45	144.60	4.84	30.869	CC, ES	
1,000.00	987.52	992.52	991.65	3.71	1.82	106.22	-159.98	1.50	151.34	145.85	5.49	27.553		
1,100.00	1,080.87	1,088.74	1,087.74	4.33	2.01	117.19	-158.03	6.30	160.13	153.95	6.19	25.878		
1,200.00	1,172.22	1,186.64	1,185.32	5.04	2.23	128.02	-155.02	13.57	175.27	168.39	6.88	25.473	SF	
1,300.00	1,261.31	1,278.42	1,276.68	5.85	2.43	137.40	-151.24	21.39	198.41	190.92	7.49	26.506		
1,400.00	1,347.90	1,366.45	1,364.33	6.79	2.63	145.24	-147.16	28.48	230.90	222.87	8.04	28.722		
1,500.00	1,431.76	1,452.82	1,450.32	7.86	2.82	151.70	-142.52	35.14	271.80	263.22	8.58	31.676		
1,603.26	1,515.23	1,541.12	1,538.15	9.10	3.03	157.14	-137.06	42.40	321.16	312.01	9.15	35.108		
1,700.00	1,591.88	1,622.77	1,619.27	10.35	3.23	161.74	-131.42	49.78	370.98	361.30	9.68	38.336		
1,800.00	1,671.11	1,701.58	1,697.53	11.67	3.43	165.25	-125.51	56.91	424.03	413.84	10.19	41.624		
1,900.00	1,750.34	1,778.23	1,773.69	13.01	3.61	167.98	-119.50	63.20	478.84	468.14	10.69	44.775		
2,000.00	1,829.57	1,854.85	1,849.87	14.36	3.79	170.17	-113.50	68.70	535.16	523.94	11.22	47.716		
2,100.00	1,908.81	1,933.20	1,927.80	15.72	3.97	172.01	-107.22	73.83	592.51	580.75	11.76	50.369		
2,200.00	1,988.04	2,010.94	2,005.11	17.09	4.15	173.55	-100.82	78.88	650.34	638.02	12.32	52.795		
2,300.00	2,067.27	2,081.63	2,075.48	18.46	4.31	174.70	-95.12	82.65	709.29	696.46	12.82	55.317		
2,400.00	2,146.50	2,157.22	2,150.78	19.84	4.47	175.70	-89.32	85.72	769.26	755.89	13.37	57.542		
2,500.00	2,225.73	2,239.02	2,232.31	21.23	4.65	176.59	-83.52	88.81	829.44	815.46	13.98	59.348		
2,600.00	2,304.96	2,322.80	2,315.75	22.62	4.83	177.43	-77.03	92.71	889.25	874.65	14.61	60.881		
2,700.00	2,384.19	2,404.55	2,397.19	24.00	5.02	178.13	-71.00	96.59	948.99	933.77	15.23	62.331		
2,800.00	2,463.42	2,490.68	2,482.91	25.40	5.22	178.82	-64.25	101.34	1,008.39	992.49	15.89	63.450		
2,900.00	2,542.66	2,569.46	2,561.27	26.79	5.41	179.42	-57.54	106.09	1,067.69	1,051.19	16.51	64.676		
3,000.00	2,621.89	2,661.59	2,652.82	28.18	5.65	-179.92	-49.30	112.27	1,126.72	1,109.48	17.25	65.332		
3,100.00	2,701.12	2,752.51	2,743.06	29.58	5.90	-179.29	-40.92	119.51	1,184.99	1,167.01	17.99	65.887		
3,200.00	2,780.35	2,849.56	2,839.32	30.98	6.16	-178.68	-32.23	128.24	1,242.49	1,223.71	18.78	66.173		
3,300.00	2,859.58	2,937.39	2,926.37	32.38	6.41	-178.17	-24.46	137.02	1,299.26	1,279.75	19.51	66.593		
3,400.00	2,938.81	3,017.98	3,006.10	33.78	6.65	-177.69	-16.51	145.63	1,355.95	1,335.75	20.19	67.144		
3,500.00	3,018.04	3,093.84	3,081.13	35.18	6.88	-177.26	-8.75	153.66	1,412.90	1,392.06	20.84	67.785		
3,600.00	3,097.27	3,168.77	3,155.26	36.58	7.09	-176.87	-0.92	161.24	1,470.33	1,448.84	21.49	68.425		

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 100-Gyro													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	2.01	2.01	0.00	0.00	-167.72	-156.41	-34.04	160.08						
100.00	100.00	102.55	102.55	0.12	0.07	-167.78	-156.28	-33.83	159.90	159.70	0.19	820.954			
200.00	200.00	202.53	202.53	0.48	0.16	-167.98	-156.05	-33.24	159.56	158.92	0.64	250.320			
300.00	300.00	302.21	302.18	0.84	0.25	-168.75	-156.26	-31.10	159.33	158.24	1.08	146.870			
350.00	350.00	352.13	352.06	1.02	0.29	-169.41	-156.57	-29.28	159.29	157.98	1.31	121.561			
400.00	399.99	402.03	401.92	1.19	0.34	75.76	-156.94	-27.27	159.13	157.60	1.53	103.992			
500.00	499.85	500.88	500.69	1.54	0.43	76.10	-158.05	-23.28	158.24	156.28	1.97	80.407			
600.00	599.29	600.64	600.34	1.90	0.53	78.25	-159.59	-19.08	156.59	154.17	2.42	64.617			
700.00	698.04	702.57	702.15	2.28	0.63	82.27	-160.48	-14.01	153.51	150.60	2.91	52.753			
800.00	795.85	801.45	800.88	2.70	0.72	88.25	-160.56	-8.73	150.02	146.59	3.43	43.758			
900.00	892.43	901.07	900.36	3.17	0.82	96.62	-159.74	-3.53	147.99	143.99	4.00	36.997			
915.48	907.25	916.05	915.33	3.26	0.83	98.09	-159.49	-2.77	147.93	143.84	4.09	36.131	CC, ES		
1,000.00	987.52	997.17	996.34	3.71	0.91	106.73	-158.04	1.19	150.06	145.46	4.60	32.639			
1,100.00	1,080.87	1,093.08	1,092.09	4.33	1.01	117.70	-156.03	6.10	159.04	153.83	5.21	30.498			
1,200.00	1,172.22	1,191.10	1,189.84	5.04	1.11	128.67	-152.95	12.65	175.14	169.31	5.83	30.036	SF		
1,300.00	1,261.31	1,281.94	1,280.31	5.85	1.21	138.00	-149.00	19.83	199.17	192.81	6.36	31.336			
1,400.00	1,347.90	1,370.91	1,368.93	6.79	1.31	145.84	-144.86	26.55	232.47	225.63	6.84	33.975			
1,500.00	1,431.76	1,458.39	1,456.02	7.86	1.41	152.25	-140.24	33.38	273.59	266.28	7.31	37.420			
1,603.26	1,515.23	1,546.53	1,543.68	9.10	1.52	157.58	-134.78	40.80	322.98	315.19	7.79	41.478			
1,700.00	1,591.88	1,626.00	1,622.65	10.35	1.61	161.97	-129.47	47.97	372.93	364.72	8.21	45.405			
1,800.00	1,671.11	1,703.03	1,699.19	11.67	1.70	165.36	-123.71	54.44	426.59	417.97	8.62	49.491			
1,900.00	1,750.34	1,782.66	1,778.34	13.01	1.80	168.15	-117.57	60.57	481.83	472.78	9.05	53.223			
2,000.00	1,829.57	1,858.41	1,853.68	14.36	1.89	170.26	-111.84	65.94	538.22	528.75	9.48	56.795			
2,100.00	1,908.81	1,934.43	1,929.33	15.72	1.97	172.01	-105.85	70.54	595.95	586.04	9.91	60.121			
2,200.00	1,988.04	2,012.11	2,006.66	17.09	2.06	173.46	-100.01	74.85	654.33	643.96	10.37	63.097			
2,300.00	2,067.27	2,083.51	2,077.77	18.46	2.14	174.59	-94.46	78.22	713.64	702.84	10.80	66.103			
2,400.00	2,146.50	2,160.29	2,154.25	19.84	2.22	175.63	-88.33	81.21	773.82	762.56	11.26	68.707			
2,500.00	2,225.73	2,241.65	2,235.34	21.23	2.31	176.53	-82.33	84.19	834.15	822.38	11.77	70.867			
2,600.00	2,304.96	2,326.01	2,319.34	22.62	2.40	177.39	-75.60	87.94	894.19	881.88	12.31	72.666			
2,700.00	2,384.19	2,410.52	2,403.50	24.00	2.50	178.12	-69.18	92.08	953.88	941.03	12.85	74.253			
2,800.00	2,463.42	2,491.81	2,484.41	25.40	2.59	178.78	-62.72	96.46	1,013.40	1,000.03	13.37	75.773			
2,900.00	2,542.66	2,575.80	2,567.95	26.79	2.70	179.42	-55.48	101.46	1,072.80	1,058.88	13.93	77.034			
3,000.00	2,621.89	2,665.65	2,657.25	28.18	2.81	-179.94	-47.58	107.44	1,131.82	1,117.29	14.53	77.912			
3,100.00	2,701.12	2,759.69	2,750.61	29.58	2.94	-179.31	-39.12	114.87	1,190.05	1,174.89	15.16	78.482			
3,200.00	2,780.35	2,850.60	2,840.79	30.98	3.06	-178.75	-31.08	123.05	1,247.50	1,231.71	15.78	79.034			
3,300.00	2,859.58	2,935.00	2,924.47	32.38	3.18	-178.26	-23.57	131.12	1,304.60	1,288.23	16.37	79.709			
3,400.00	2,938.81	3,014.94	3,003.64	33.78	3.29	-177.80	-15.83	139.05	1,361.78	1,344.85	16.93	80.454			
3,500.00	3,018.04	3,095.19	3,083.08	35.18	3.41	-177.36	-7.78	147.05	1,419.11	1,401.61	17.49	81.128			
3,600.00	3,097.27	3,170.27	3,157.42	36.58	3.52	-176.98	-0.16	154.37	1,476.69	1,458.66	18.02	81.926			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft							
Survey Program: 17-MWD													Offset Well Error:		0.00 usft						
Reference													Offset		Semi Major Axis		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor									
0.00	0.00	0.00	0.00	0.00	0.00	-169.16	-146.95	-28.13	149.65												
100.00	100.00	97.43	97.43	0.12	0.14	-169.18	-146.67	-28.03	149.32	149.06	0.26	566.636									
200.00	200.00	197.43	197.43	0.48	0.32	-169.22	-146.40	-27.89	149.04	148.24	0.79	187.637									
300.00	300.00	297.44	297.43	0.84	0.49	-169.26	-146.14	-27.72	148.74	147.42	1.33	112.093									
350.00	350.00	347.44	347.43	1.02	0.58	-169.29	-146.01	-27.62	148.60	147.00	1.59	93.258									
400.00	399.99	397.43	397.43	1.19	0.66	76.61	-145.88	-27.52	148.30	146.44	1.85	79.984									
500.00	499.85	497.29	497.29	1.54	0.84	78.56	-145.62	-27.30	146.87	144.50	2.37	61.899									
600.00	599.29	596.87	596.87	1.90	1.01	82.57	-145.31	-26.99	144.77	141.86	2.91	49.791									
700.00	698.04	694.72	694.72	2.28	1.18	88.61	-145.36	-26.81	143.54	140.08	3.46	41.443									
713.56	711.37	708.18	708.18	2.34	1.21	89.60	-145.39	-26.81	143.53	139.98	3.54	40.501 CC, ES									
800.00	795.85	793.21	793.21	2.70	1.36	96.73	-145.27	-26.79	144.45	140.39	4.06	35.602									
900.00	892.43	889.54	889.53	3.17	1.52	106.15	-145.16	-26.78	149.68	144.99	4.69	31.931									
1,000.00	987.52	984.90	984.89	3.71	1.69	116.09	-144.93	-26.75	161.18	155.83	5.34	30.155									
1,100.00	1,080.87	1,077.86	1,077.86	4.33	1.85	125.35	-144.96	-26.53	180.32	174.31	6.00	30.043 SF									
1,200.00	1,172.22	1,167.98	1,167.98	5.04	2.01	133.24	-145.65	-26.60	207.90	201.26	6.64	31.314									
1,300.00	1,261.31	1,256.73	1,256.72	5.85	2.16	139.74	-146.77	-26.85	243.23	235.97	7.26	33.513									
1,400.00	1,347.90	1,342.29	1,342.26	6.79	2.31	144.90	-147.94	-27.34	285.59	277.73	7.85	36.365									
1,500.00	1,431.76	1,425.58	1,425.55	7.86	2.46	149.04	-148.94	-28.05	334.29	325.86	8.43	39.637									
1,603.26	1,515.23	1,507.12	1,507.07	9.10	2.60	152.36	-149.65	-28.97	390.66	381.66	9.01	43.365									
1,700.00	1,591.88	1,583.74	1,583.69	10.35	2.74	155.72	-150.05	-30.00	446.82	437.28	9.54	46.848									
1,800.00	1,671.11	1,663.48	1,663.42	11.67	2.87	158.49	-150.28	-30.84	505.54	495.47	10.07	50.188									
1,900.00	1,750.34	1,743.44	1,743.38	13.01	3.01	160.69	-150.63	-31.57	564.77	554.16	10.61	53.225									
2,000.00	1,829.57	1,824.36	1,824.30	14.36	3.16	162.52	-150.91	-32.04	624.19	613.04	11.16	55.952									
2,100.00	1,908.81	1,903.82	1,903.76	15.72	3.29	164.05	-150.81	-32.29	683.82	672.13	11.69	58.491									
2,200.00	1,988.04	1,978.32	1,978.25	17.09	3.42	165.28	-150.42	-32.65	743.92	731.73	12.19	61.007									
2,300.00	2,067.27	2,058.74	2,058.67	18.46	3.56	166.43	-149.93	-33.24	804.44	791.70	12.74	63.146									
2,400.00	2,146.50	2,140.43	2,140.36	19.84	3.71	167.44	-149.43	-33.56	864.88	851.58	13.30	65.047									
2,500.00	2,225.73	2,221.29	2,221.22	21.23	3.85	168.29	-149.16	-33.67	925.20	911.34	13.85	66.792									
2,600.00	2,304.96	2,299.49	2,299.42	22.62	3.99	168.98	-149.29	-33.90	985.64	971.24	14.39	68.471									
2,700.00	2,384.19	2,383.63	2,383.56	24.00	4.13	169.64	-149.45	-33.96	1,045.99	1,031.01	14.98	69.820									
2,800.00	2,463.42	2,465.11	2,465.04	25.40	4.27	170.22	-149.49	-33.69	1,106.14	1,090.59	15.55	71.134									
2,900.00	2,542.66	2,549.82	2,549.75	26.79	4.42	170.76	-149.72	-33.21	1,166.13	1,149.99	16.14	72.230									
3,000.00	2,621.89	2,621.19	2,621.12	28.18	4.55	171.15	-150.16	-32.80	1,226.09	1,209.44	16.65	73.642									
3,100.00	2,701.12	2,687.48	2,687.41	29.58	4.66	171.48	-150.36	-33.15	1,286.99	1,269.87	17.12	75.181									
3,200.00	2,780.35	2,762.71	2,762.62	30.98	4.79	171.84	-150.40	-33.93	1,348.36	1,330.71	17.65	76.386									
3,300.00	2,859.58	2,839.41	2,839.32	32.38	4.93	172.17	-150.35	-34.85	1,409.92	1,391.72	18.20	77.480									
3,400.00	2,938.81	2,916.02	2,915.92	33.78	5.06	172.47	-150.31	-35.87	1,471.61	1,452.86	18.74	78.513									

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 100-Gyro													H04 596 Pad - CP08D-04 H04 (EXISTING) - Existing Gyro - GYRO		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
0.00	0.00	2.02	2.02	0.00	0.00	-169.16	-146.95	-28.13	149.62							
100.00	100.00	102.90	102.90	0.12	0.07	-169.19	-146.65	-27.99	149.30	149.10	0.20	733.288				
200.00	200.00	203.29	203.29	0.48	0.16	-169.12	-145.89	-28.03	148.56	147.92	0.64	230.837				
300.00	300.00	303.28	303.27	0.84	0.25	-168.94	-144.95	-28.34	147.70	146.61	1.09	135.959				
350.00	350.00	353.30	353.29	1.02	0.29	-168.84	-144.48	-28.49	147.27	145.96	1.31	112.532				
400.00	399.99	403.27	403.26	1.19	0.33	77.18	-144.00	-28.65	146.68	145.16	1.53	96.165				
500.00	499.85	502.30	502.28	1.54	0.42	79.28	-143.42	-28.67	145.04	143.09	1.95	74.239				
600.00	599.29	601.58	601.56	1.90	0.51	83.32	-143.25	-28.37	143.21	140.81	2.40	59.645				
700.00	698.04	700.36	700.35	2.28	0.59	89.55	-143.05	-28.29	142.00	139.13	2.87	49.428				
716.00	713.76	716.14	716.12	2.35	0.61	90.76	-142.99	-28.32	141.97	139.02	2.95	48.066 CC, ES				
800.00	795.85	798.51	798.49	2.70	0.68	97.84	-142.61	-28.42	143.04	139.66	3.38	42.314				
900.00	892.43	894.22	894.20	3.17	0.76	107.30	-142.34	-28.54	148.75	144.82	3.92	37.899				
1,000.00	987.52	990.24	990.22	3.71	0.85	117.20	-142.31	-28.45	160.92	156.42	4.50	35.784				
1,100.00	1,080.87	1,083.70	1,083.68	4.33	0.93	126.38	-142.28	-27.96	180.34	175.27	5.07	35.568 SF				
1,200.00	1,172.22	1,173.47	1,173.45	5.04	1.01	134.15	-142.70	-27.68	207.97	202.34	5.62	36.981				
1,300.00	1,261.31	1,261.63	1,261.60	5.85	1.08	140.52	-143.72	-27.98	243.71	237.55	6.16	39.569				
1,400.00	1,347.90	1,347.49	1,347.45	6.79	1.16	145.60	-144.85	-28.47	286.38	279.70	6.68	42.880				
1,500.00	1,431.76	1,430.25	1,430.20	7.86	1.23	149.59	-146.02	-29.19	335.35	328.17	7.18	46.684				
1,603.26	1,515.23	1,512.41	1,512.35	9.10	1.30	152.85	-146.82	-30.16	391.97	384.28	7.69	50.972				
1,700.00	1,591.88	1,589.28	1,589.21	10.35	1.37	156.15	-147.31	-31.08	448.13	439.97	8.15	54.963				
1,800.00	1,671.11	1,668.73	1,668.66	11.67	1.44	158.83	-147.70	-31.89	506.90	498.29	8.62	58.814				
1,900.00	1,750.34	1,749.20	1,749.13	13.01	1.51	161.01	-148.04	-32.55	566.14	557.05	9.09	62.283				
2,000.00	1,829.57	1,829.63	1,829.56	14.36	1.58	162.81	-148.19	-32.90	625.53	615.97	9.56	65.427				
2,100.00	1,908.81	1,908.14	1,908.06	15.72	1.65	164.31	-147.94	-33.12	685.22	675.20	10.02	68.381				
2,200.00	1,988.04	1,983.86	1,983.78	17.09	1.71	165.54	-147.52	-33.51	745.39	734.93	10.47	71.218				
2,300.00	2,067.27	2,063.69	2,063.61	18.46	1.78	166.66	-147.07	-34.08	805.94	795.00	10.94	73.676				
2,400.00	2,146.50	2,145.53	2,145.44	19.84	1.85	167.65	-146.58	-34.41	866.41	854.99	11.43	75.827				
2,500.00	2,225.73	2,226.56	2,226.48	21.23	1.92	168.48	-146.38	-34.52	926.74	914.82	11.91	77.790				
2,600.00	2,304.96	2,304.77	2,304.69	22.62	1.99	169.16	-146.50	-34.72	987.18	974.79	12.39	79.685				
2,700.00	2,384.19	2,390.57	2,390.48	24.00	2.07	169.82	-146.72	-34.70	1,047.47	1,034.56	12.91	81.123				
2,800.00	2,463.42	2,472.23	2,472.15	25.40	2.14	170.38	-146.93	-34.31	1,107.48	1,094.07	13.41	82.570				
2,900.00	2,542.66	2,553.46	2,553.38	26.79	2.21	170.88	-147.30	-33.84	1,167.43	1,153.52	13.91	83.908				
3,000.00	2,621.89	2,628.26	2,628.17	28.18	2.27	171.29	-147.63	-33.39	1,227.42	1,213.04	14.38	85.380				
3,100.00	2,701.12	2,699.99	2,699.90	29.58	2.34	171.65	-147.82	-33.64	1,288.18	1,273.36	14.82	86.913				
3,200.00	2,780.35	2,768.62	2,768.52	30.98	2.40	171.96	-147.94	-34.36	1,349.52	1,334.27	15.25	88.499				
3,300.00	2,859.58	2,844.14	2,844.04	32.38	2.46	172.27	-148.09	-35.30	1,411.06	1,395.34	15.72	89.755				
3,400.00	2,938.81	2,919.48	2,919.37	33.78	2.53	172.55	-148.15	-36.40	1,472.82	1,456.62	16.19	90.952				

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft							
Survey Program: 17-MWD													Offset Well Error:		0.00 usft						
Reference													Offset		Semi Major Axis		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)											
0.00	0.00	0.00	0.00	0.00	0.00	-167.66	-165.95	-36.30	169.92												
100.00	100.00	95.12	95.12	0.12	0.14	-167.91	-166.36	-35.62	170.14	169.87	0.27	637.332									
200.00	200.00	195.26	195.25	0.48	0.31	-168.36	-167.10	-34.42	170.61	169.82	0.79	214.675 ES									
300.00	300.00	294.01	293.97	0.84	0.49	-169.00	-168.16	-32.68	171.32	169.98	1.34	128.310									
350.00	350.00	342.79	342.73	1.02	0.58	-169.43	-169.12	-31.55	172.07	170.46	1.61	106.854									
400.00	399.99	391.35	391.26	1.19	0.67	75.94	-170.48	-30.35	173.07	171.19	1.88	91.929									
500.00	499.85	490.10	489.91	1.54	0.86	76.53	-174.09	-27.92	174.96	172.55	2.41	72.600									
600.00	599.29	589.09	588.79	1.90	1.05	78.84	-178.13	-25.80	176.28	173.34	2.95	59.770									
700.00	698.04	687.34	686.93	2.28	1.23	82.82	-182.52	-24.11	177.66	174.15	3.51	50.550									
800.00	795.85	785.91	785.37	2.70	1.43	88.27	-187.20	-22.32	179.93	175.81	4.12	43.699									
900.00	892.43	884.14	883.48	3.17	1.62	94.98	-191.79	-20.28	184.07	179.30	4.77	38.559									
1,000.00	987.52	983.93	983.14	3.71	1.81	102.73	-195.66	-17.15	190.63	185.13	5.50	34.686									
1,100.00	1,080.87	1,082.43	1,081.49	4.33	2.00	110.94	-198.37	-12.57	200.57	194.30	6.27	31.994									
1,200.00	1,172.22	1,172.77	1,171.67	5.04	2.18	118.54	-200.71	-7.80	216.43	209.40	7.03	30.784 SF									
1,300.00	1,261.31	1,259.94	1,258.66	5.85	2.36	125.21	-205.14	-4.18	241.46	233.69	7.77	31.062									
1,400.00	1,347.90	1,347.07	1,345.60	6.79	2.54	131.19	-210.23	-1.47	274.60	266.10	8.49	32.327									
1,500.00	1,431.76	1,434.26	1,432.60	7.86	2.72	136.41	-215.31	1.08	314.56	305.36	9.19	34.212									
1,603.26	1,515.23	1,522.13	1,520.24	9.10	2.91	140.80	-220.89	4.01	362.11	352.20	9.90	36.564									
1,700.00	1,591.88	1,605.67	1,603.48	10.35	3.10	145.00	-227.06	7.43	409.95	399.38	10.57	38.788									
1,800.00	1,671.11	1,693.69	1,691.13	11.67	3.30	148.47	-233.76	11.88	460.01	448.77	11.24	40.922									
1,900.00	1,750.34	1,777.47	1,774.58	13.01	3.48	151.20	-239.61	16.61	510.55	498.69	11.86	43.032									
2,000.00	1,829.57	1,863.21	1,859.98	14.36	3.68	153.53	-245.50	21.41	561.89	549.40	12.49	44.976									
2,100.00	1,908.81	1,946.83	1,943.24	15.72	3.88	155.40	-251.48	26.46	613.42	600.31	13.11	46.796									
2,200.00	1,988.04	2,029.04	2,025.07	17.09	4.07	156.91	-257.89	31.00	665.75	652.03	13.72	48.526									
2,300.00	2,067.27	2,115.85	2,111.47	18.46	4.28	158.28	-264.65	35.95	718.24	703.88	14.36	50.006									
2,400.00	2,146.50	2,205.20	2,200.31	19.84	4.50	159.43	-272.43	41.44	770.51	755.47	15.04	51.217									
2,500.00	2,225.73	2,296.54	2,290.98	21.23	4.75	160.35	-281.60	47.59	822.32	806.56	15.76	52.179									
2,600.00	2,304.96	2,388.33	2,381.93	22.62	5.01	161.08	-291.99	54.31	873.57	857.07	16.50	52.941									
2,700.00	2,384.19	2,488.01	2,480.45	24.00	5.31	161.69	-304.72	62.53	923.93	906.60	17.33	53.318									
2,800.00	2,463.42	2,591.18	2,581.97	25.40	5.66	162.09	-320.25	72.31	972.96	954.73	18.23	53.367									
2,900.00	2,542.66	2,704.83	2,692.98	26.79	6.11	162.26	-341.21	84.71	1,020.28	1,000.98	19.29	52.880									
3,000.00	2,621.89	2,861.56	2,843.74	28.18	6.85	162.08	-377.43	107.30	1,063.92	1,043.08	20.84	51.062									
3,100.00	2,701.12	3,027.25	2,999.20	29.58	7.83	161.53	-423.70	140.90	1,101.20	1,078.62	22.58	48.762									
3,200.00	2,780.35	3,142.99	3,105.63	30.98	8.57	161.03	-459.43	169.03	1,134.03	1,110.09	23.95	47.354									
3,300.00	2,859.58	3,228.89	3,184.64	32.38	9.13	160.70	-485.60	190.25	1,166.66	1,141.61	25.05	46.576									
3,400.00	2,938.81	3,314.58	3,263.79	33.78	9.68	160.41	-511.13	210.90	1,200.02	1,173.88	26.14	45.906									
3,500.00	3,018.04	3,392.20	3,335.91	35.18	10.16	160.21	-533.35	229.06	1,234.30	1,207.16	27.13	45.492									
3,600.00	3,097.27	3,492.27	3,429.52	36.58	10.78	160.03	-560.43	251.83	1,269.46	1,241.15	28.31	44.843									
3,700.00	3,176.51	3,589.71	3,520.45	37.98	11.39	159.88	-586.67	275.00	1,303.62	1,274.16	29.47	44.242									
3,800.00	3,255.74	3,679.48	3,604.27	39.38	11.96	159.75	-610.87	296.14	1,338.02	1,307.46	30.56	43.785									
3,900.00	3,334.97	3,782.74	3,700.57	40.78	12.63	159.59	-639.14	320.44	1,372.40	1,340.60	31.81	43.150									
4,000.00	3,414.20	3,890.31	3,800.21	42.19	13.36	159.36	-670.15	346.55	1,405.84	1,372.69	33.15	42.414									
4,100.00	3,493.43	3,982.42	3,885.15	43.59	13.99	159.13	-697.69	369.15	1,438.89	1,404.51	34.37	41.862									
4,200.00	3,572.66	4,070.65	3,966.55	44.99	14.59	158.91	-724.15	390.52	1,472.25	1,436.69	35.56	41.406									

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 100-Gyro													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	1.00	1.00	0.00	0.00	-167.66	-165.95	-36.30	169.87						
100.00	100.00	100.73	100.72	0.12	0.07	-167.92	-166.19	-35.56	169.95	169.76	0.19	891.857 ES			
200.00	200.00	200.00	199.98	0.48	0.16	-168.42	-166.96	-34.20	170.44	169.80	0.64	266.779			
300.00	300.00	299.03	298.99	0.84	0.25	-169.03	-168.28	-32.62	171.42	170.33	1.09	157.367			
350.00	350.00	347.66	347.60	1.02	0.29	-169.39	-169.23	-31.69	172.20	170.88	1.32	130.349			
400.00	399.99	396.26	396.18	1.19	0.34	76.06	-170.58	-30.76	173.24	171.69	1.55	111.883			
500.00	499.85	495.18	495.03	1.54	0.43	76.90	-174.00	-29.05	175.08	173.10	1.98	88.308			
600.00	599.29	594.17	593.93	1.90	0.52	79.42	-177.85	-27.56	176.42	173.99	2.43	72.581			
700.00	698.04	693.44	693.10	2.28	0.61	83.55	-181.88	-26.07	177.61	174.71	2.90	61.260			
800.00	795.85	792.07	791.64	2.70	0.71	89.13	-185.83	-24.42	179.47	176.06	3.41	52.660			
900.00	892.43	889.79	889.25	3.17	0.80	95.83	-189.87	-22.17	183.35	179.38	3.97	46.185			
1,000.00	987.52	988.22	987.56	3.71	0.90	103.47	-193.69	-19.16	190.32	185.74	4.59	41.493			
1,100.00	1,080.87	1,087.38	1,086.60	4.33	0.99	111.81	-196.33	-15.07	201.00	195.74	5.26	38.242			
1,200.00	1,172.22	1,176.28	1,175.37	5.04	1.08	119.26	-198.72	-10.98	217.91	211.99	5.92	36.833 SF			
1,300.00	1,261.31	1,264.25	1,263.19	5.85	1.17	126.01	-202.90	-8.05	243.92	237.35	6.57	37.144			
1,400.00	1,347.90	1,352.20	1,350.97	6.79	1.25	132.00	-207.68	-5.64	277.67	270.47	7.20	38.563			
1,500.00	1,431.76	1,438.94	1,437.54	7.86	1.34	137.06	-212.68	-3.17	318.06	310.24	7.82	40.692			
1,603.26	1,515.23	1,526.71	1,525.09	9.10	1.44	141.33	-218.25	-0.39	366.04	357.60	8.44	43.375			
1,700.00	1,591.88	1,609.72	1,607.82	10.35	1.53	145.45	-224.18	2.81	414.26	405.24	9.02	45.952			
1,800.00	1,671.11	1,697.63	1,695.41	11.67	1.63	148.91	-230.37	7.00	464.70	455.11	9.60	48.430			
1,900.00	1,750.34	1,785.16	1,782.63	13.01	1.72	151.77	-235.92	11.94	515.39	505.24	10.15	50.757			
2,000.00	1,829.57	1,867.47	1,864.64	14.36	1.81	154.02	-240.83	16.87	566.57	555.89	10.67	53.092			
2,100.00	1,908.81	1,949.67	1,946.55	15.72	1.91	155.89	-245.95	21.47	618.65	607.46	11.19	55.296			
2,200.00	1,988.04	2,033.13	2,029.68	17.09	2.00	157.44	-251.84	25.99	671.24	659.52	11.72	57.278			
2,300.00	2,067.27	2,118.24	2,114.43	18.46	2.10	158.75	-258.26	30.58	724.11	711.85	12.27	59.038			
2,400.00	2,146.50	2,208.65	2,204.39	19.84	2.21	159.92	-265.55	35.92	776.75	763.90	12.85	60.438			
2,500.00	2,225.73	2,301.51	2,296.58	21.23	2.34	160.84	-274.65	42.05	828.76	815.29	13.48	61.490			
2,600.00	2,304.96	2,391.80	2,386.02	22.62	2.46	161.49	-285.27	48.47	880.21	866.10	14.11	62.379			
2,700.00	2,384.19	2,495.72	2,488.64	24.00	2.62	162.03	-299.34	56.83	930.68	915.82	14.86	62.631			
2,800.00	2,463.42	2,594.79	2,585.95	25.40	2.80	162.32	-315.42	66.03	979.71	964.10	15.61	62.746			
2,900.00	2,542.66	2,733.11	2,720.64	26.79	3.08	162.42	-342.38	82.19	1,026.24	1,009.54	16.70	61.458			
3,000.00	2,621.89	2,878.81	2,860.19	28.18	3.43	162.23	-376.71	106.03	1,067.73	1,049.84	17.89	59.678			
3,100.00	2,701.12	3,047.10	3,017.58	29.58	3.92	161.71	-423.36	142.82	1,103.15	1,083.83	19.31	57.118			
3,200.00	2,780.35	3,148.50	3,111.01	30.98	4.24	161.33	-453.58	168.12	1,135.57	1,115.28	20.29	55.976			
3,300.00	2,859.58	3,240.81	3,196.05	32.38	4.53	160.99	-481.22	191.08	1,168.09	1,146.88	21.21	55.084			
3,400.00	2,938.81	3,329.12	3,277.63	33.78	4.81	160.72	-506.88	213.08	1,200.77	1,178.68	22.09	54.361			
3,500.00	3,018.04	3,407.05	3,350.04	35.18	5.05	160.54	-528.82	231.77	1,234.51	1,211.62	22.89	53.939			
3,600.00	3,097.27	3,490.96	3,428.45	36.58	5.30	160.39	-551.47	251.21	1,269.23	1,245.52	23.71	53.527			
3,700.00	3,176.51	3,599.99	3,530.50	37.98	5.63	160.24	-580.10	276.79	1,303.80	1,279.09	24.72	52.753			
3,800.00	3,255.74	3,680.69	3,605.99	39.38	5.87	160.14	-601.27	295.87	1,338.21	1,312.69	25.51	52.450			
3,900.00	3,334.97	3,788.20	3,706.50	40.78	6.21	159.99	-630.08	320.90	1,372.91	1,346.37	26.53	51.742			
4,000.00	3,414.20	3,894.82	3,805.34	42.19	6.56	159.76	-660.66	346.67	1,406.44	1,378.84	27.59	50.970			
4,100.00	3,493.43	3,988.60	3,891.99	43.59	6.87	159.53	-688.22	369.62	1,439.59	1,411.02	28.57	50.395			
4,200.00	3,572.66	4,072.59	3,969.77	44.99	7.14	159.36	-712.53	389.95	1,473.09	1,443.63	29.46	50.010			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-164.10	-76.89	-21.90	79.95						
100.00	100.00	100.00	100.00	0.12	0.12	-164.10	-76.89	-21.90	79.95	79.72	0.24	337.317			
104.19	104.19	104.19	104.19	0.14	0.12	-164.10	-76.89	-21.90	79.95	79.69	0.26	308.247	CC		
200.00	200.00	199.42	199.42	0.48	0.29	-163.66	-76.89	-22.54	80.13	79.36	0.77	103.445	ES		
300.00	300.00	298.00	297.85	0.84	0.49	-160.23	-76.89	-27.63	81.74	80.38	1.36	60.233			
350.00	350.00	347.03	346.68	1.02	0.61	-157.37	-76.89	-32.06	83.37	81.69	1.68	49.522			
400.00	399.99	395.72	395.04	1.19	0.74	92.13	-76.89	-37.69	85.80	83.78	2.02	42.514			
500.00	499.85	491.24	489.43	1.54	1.05	102.90	-76.89	-52.31	94.76	91.98	2.79	34.015			
600.00	599.29	583.21	579.50	1.90	1.43	114.96	-76.89	-70.82	112.52	108.91	3.61	31.147	SF		
700.00	698.04	670.50	664.08	2.28	1.86	125.41	-76.89	-92.39	141.36	136.99	4.37	32.331			
800.00	795.85	752.23	742.30	2.70	2.33	133.23	-76.89	-116.07	181.26	176.24	5.02	36.124			
900.00	892.43	827.79	813.65	3.17	2.82	138.69	-76.89	-140.92	231.03	225.46	5.57	41.494			
1,000.00	987.52	900.00	880.87	3.71	3.33	142.55	-76.89	-167.28	289.35	283.34	6.01	48.158			
1,100.00	1,080.87	959.11	935.12	4.33	3.81	144.68	-76.89	-190.74	354.96	348.47	6.48	54.747			
1,200.00	1,172.22	1,014.72	985.48	5.04	4.27	146.05	-76.89	-214.34	426.87	420.00	6.88	62.086			
1,300.00	1,261.31	1,063.80	1,029.33	5.85	4.72	146.62	-76.89	-236.37	504.18	496.94	7.23	69.717			
1,400.00	1,347.90	1,100.00	1,061.30	6.79	5.05	146.14	-76.89	-253.34	586.12	578.56	7.57	77.476			
1,500.00	1,431.76	1,143.43	1,099.23	7.86	5.49	145.70	-76.89	-274.50	671.86	664.02	7.85	85.636			
1,603.26	1,515.23	1,175.57	1,126.99	9.10	5.81	144.09	-76.89	-290.71	763.87	755.75	8.11	94.149			
1,700.00	1,591.88	1,200.00	1,147.90	10.35	6.06	145.52	-76.89	-303.34	851.88	843.55	8.33	102.254			
1,800.00	1,671.11	1,227.96	1,171.63	11.67	6.38	146.95	-76.89	-318.12	943.59	935.04	8.55	110.414			
1,900.00	1,750.34	1,252.19	1,192.02	13.01	6.65	148.04	-76.89	-331.21	1,035.93	1,027.19	8.74	118.484			
2,000.00	1,829.57	1,274.97	1,211.04	14.36	6.90	148.96	-76.89	-343.76	1,128.83	1,119.90	8.93	126.433			
2,100.00	1,908.81	1,300.00	1,231.75	15.72	7.18	149.86	-76.89	-357.80	1,222.23	1,213.11	9.12	134.036			
2,200.00	1,988.04	1,316.69	1,245.47	17.09	7.38	150.40	-76.89	-367.31	1,316.04	1,306.77	9.27	142.037			
2,300.00	2,067.27	1,335.82	1,261.09	18.46	7.61	150.98	-76.89	-378.36	1,410.25	1,400.83	9.42	149.718			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-164.25	-85.99	-24.25	89.35						
100.00	100.00	100.00	100.00	0.12	0.12	-164.25	-85.99	-24.25	89.35	89.11	0.24	376.945			
200.00	200.00	200.00	200.00	0.48	0.29	-164.25	-85.99	-24.25	89.35	88.58	0.77	116.029			
300.00	300.00	300.00	300.00	0.84	0.47	-164.25	-85.99	-24.25	89.35	88.04	1.30	68.567			
350.00	350.00	350.00	350.00	1.02	0.55	-164.25	-85.99	-24.25	89.35	87.78	1.57	56.925			
400.00	399.99	399.99	399.99	1.19	0.64	81.83	-85.99	-24.25	89.25	87.42	1.83	48.766			
500.00	499.85	499.85	499.85	1.54	0.81	85.19	-85.99	-24.25	88.66	86.31	2.35	37.747			
575.84	575.31	575.31	575.31	1.81	0.95	90.00	-85.99	-24.25	88.34	85.59	2.75	32.076	CC		
600.00	599.29	599.29	599.29	1.90	0.99	91.93	-85.99	-24.25	88.40	85.51	2.88	30.657			
700.00	698.04	700.77	700.72	2.28	1.17	100.67	-85.99	-21.59	88.79	85.32	3.46	25.643			
800.00	795.85	802.79	802.41	2.70	1.37	109.88	-85.99	-13.49	89.23	85.11	4.12	21.645	ES		
900.00	892.43	905.26	903.97	3.17	1.62	119.68	-85.99	0.10	90.15	85.28	4.87	18.524			
1,000.00	987.52	1,002.04	999.40	3.71	1.89	129.35	-87.06	16.08	94.39	88.91	5.48	17.217	SF		
1,100.00	1,080.87	1,095.84	1,092.10	4.33	2.14	137.72	-91.95	29.51	108.42	102.35	6.06	17.879			
1,200.00	1,172.22	1,188.07	1,183.26	5.04	2.38	143.67	-100.62	40.41	131.78	125.11	6.67	19.743			
1,300.00	1,261.31	1,277.99	1,271.96	5.85	2.63	147.28	-112.73	48.82	163.34	156.01	7.33	22.286			
1,400.00	1,347.90	1,364.96	1,357.38	6.79	2.87	149.18	-127.87	54.86	202.15	194.12	8.04	25.150			
1,500.00	1,431.76	1,448.41	1,438.84	7.86	3.13	149.94	-145.52	58.69	247.57	238.76	8.80	28.119			
1,603.26	1,515.23	1,530.42	1,518.26	9.10	3.42	149.98	-165.82	60.59	300.85	291.20	9.65	31.170			
1,700.00	1,591.88	1,600.00	1,585.06	10.35	3.69	150.34	-185.30	60.74	354.53	344.10	10.43	33.991			
1,800.00	1,671.11	1,678.40	1,659.54	11.67	4.03	150.20	-209.72	59.31	411.65	400.24	11.41	36.068			
1,900.00	1,750.34	1,750.36	1,727.08	13.01	4.39	149.74	-234.40	56.50	470.47	458.08	12.39	37.981			
2,000.00	1,829.57	1,820.01	1,791.59	14.36	4.77	149.09	-260.30	52.43	530.91	517.52	13.39	39.644			
2,100.00	1,908.81	1,887.26	1,853.02	15.72	5.18	148.32	-287.17	47.23	592.96	578.54	14.43	41.104			
2,200.00	1,988.04	1,952.08	1,911.34	17.09	5.61	147.49	-314.77	41.05	656.60	641.12	15.48	42.409			
2,300.00	2,067.27	2,014.46	1,966.59	18.46	6.06	146.64	-342.87	34.03	721.78	705.25	16.53	43.653			
2,400.00	2,146.50	2,074.41	2,018.81	19.84	6.53	145.77	-371.27	26.30	788.49	770.90	17.59	44.826			
2,500.00	2,225.73	2,131.96	2,068.09	21.23	7.00	144.92	-399.80	17.97	856.66	838.03	18.63	45.977			
2,600.00	2,304.96	2,187.15	2,114.52	22.62	7.48	144.08	-428.30	9.16	926.26	906.61	19.65	47.132			
2,700.00	2,384.19	2,240.03	2,158.22	24.00	7.97	143.27	-456.62	-0.03	997.24	976.58	20.66	48.276			
2,800.00	2,463.42	2,300.00	2,206.79	25.40	8.55	142.34	-489.93	-11.33	1,069.60	1,047.75	21.85	48.957			
2,900.00	2,542.66	2,339.16	2,237.92	26.79	8.95	141.73	-512.34	-19.21	1,143.11	1,120.54	22.58	50.633			
3,000.00	2,621.89	2,391.41	2,278.71	28.18	9.49	140.92	-543.04	-30.33	1,217.92	1,194.29	23.63	51.549			
3,100.00	2,701.12	2,447.10	2,321.72	29.58	10.07	140.10	-576.24	-42.55	1,293.47	1,268.69	24.77	52.214			
3,200.00	2,780.35	2,511.08	2,371.13	30.98	10.75	139.25	-614.38	-56.59	1,369.19	1,343.06	26.13	52.408			
3,300.00	2,859.58	2,575.06	2,420.54	32.38	11.44	138.49	-652.52	-70.63	1,445.03	1,417.55	27.48	52.583			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	19.50	132.56	46.93	140.63						
100.00	100.00	100.00	100.00	0.12	0.12	19.50	132.56	46.93	140.63	140.39	0.24	593.291			
200.00	200.00	200.00	200.00	0.48	0.29	19.50	132.56	46.93	140.63	139.86	0.77	182.623			
216.67	216.67	216.67	216.67	0.54	0.32	19.50	132.56	46.93	140.63	139.77	0.86	163.734 CC			
300.00	300.00	300.00	300.00	0.84	0.47	19.50	132.56	46.93	140.63	139.32	1.30	107.921 ES			
350.00	350.00	348.42	348.42	1.02	0.55	19.27	133.00	46.50	140.91	139.33	1.57	89.518			
400.00	399.99	396.74	396.70	1.19	0.64	-95.95	134.31	45.22	141.82	139.98	1.85	76.748			
500.00	499.85	492.39	492.06	1.54	0.84	-100.29	139.48	40.16	146.32	143.88	2.44	60.004			
600.00	599.29	585.53	584.47	1.90	1.09	-107.18	147.78	32.03	156.17	153.05	3.11	50.158			
700.00	698.04	674.92	672.52	2.28	1.39	-115.16	158.77	21.26	174.01	170.16	3.85	45.208			
800.00	795.85	759.53	755.10	2.70	1.74	-122.81	171.87	8.44	201.78	197.20	4.58	44.077 SF			
900.00	892.43	841.18	834.02	3.17	2.11	-129.47	186.85	-6.25	239.91	234.71	5.20	46.170			
1,000.00	987.52	925.16	914.95	3.71	2.51	-135.14	202.85	-21.91	285.62	279.96	5.66	50.426			
1,100.00	1,080.87	1,006.22	993.08	4.33	2.90	-139.50	218.29	-37.04	337.38	331.28	6.11	55.258			
1,200.00	1,172.22	1,084.16	1,068.20	5.04	3.28	-142.84	233.13	-51.58	394.56	388.02	6.54	60.324			
1,300.00	1,261.31	1,158.74	1,140.08	5.85	3.65	-145.40	247.34	-65.49	456.64	449.67	6.98	65.448			
1,400.00	1,347.90	1,229.78	1,208.55	6.79	4.00	-147.32	260.87	-78.74	523.23	515.81	7.42	70.540			
1,500.00	1,431.76	1,297.07	1,273.40	7.86	4.33	-148.73	273.69	-91.30	593.95	586.09	7.86	75.564			
1,603.26	1,515.23	1,362.43	1,336.40	9.10	4.65	-149.71	286.13	-103.49	671.00	662.68	8.32	80.672			
1,700.00	1,591.88	1,421.64	1,393.46	10.35	4.95	-151.94	297.41	-114.54	745.24	736.50	8.74	85.284			
1,800.00	1,671.11	1,482.84	1,452.45	11.67	5.25	-153.85	309.07	-125.96	822.41	813.25	9.17	89.702			
1,900.00	1,750.34	1,544.05	1,511.44	13.01	5.56	-155.45	320.73	-137.37	899.92	890.32	9.60	93.708			
2,000.00	1,829.57	1,605.25	1,570.43	14.36	5.87	-156.81	332.38	-148.79	977.68	967.64	10.04	97.347			
2,100.00	1,908.81	1,666.45	1,629.41	15.72	6.17	-157.98	344.04	-160.21	1,055.64	1,045.15	10.49	100.658			
2,200.00	1,988.04	1,727.66	1,688.40	17.09	6.48	-159.00	355.70	-171.63	1,133.75	1,122.82	10.94	103.679			
2,300.00	2,067.27	1,788.86	1,747.39	18.46	6.78	-159.88	367.36	-183.05	1,211.99	1,200.61	11.39	106.441			
2,400.00	2,146.50	1,850.06	1,806.38	19.84	7.09	-160.67	379.01	-194.47	1,290.33	1,278.49	11.84	108.971			
2,500.00	2,225.73	1,911.27	1,865.37	21.23	7.40	-161.37	390.67	-205.88	1,368.76	1,356.46	12.30	111.296			
2,600.00	2,304.96	1,972.47	1,924.36	22.62	7.71	-161.99	402.33	-217.30	1,447.26	1,434.50	12.76	113.436			

CC - Min centre to center distance or covergent 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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft	
Reference														
Offset				Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	15.59	134.59	37.55	139.72					
100.00	100.00	100.00	100.00	0.12	0.12	15.59	134.59	37.55	139.72	139.49	0.24	589.493		
116.67	116.67	116.67	116.67	0.18	0.15	15.59	134.59	37.55	139.72	139.40	0.33	428.790	CC	
200.00	200.00	200.00	200.00	0.48	0.29	15.59	134.59	37.55	139.72	138.95	0.77	181.454	ES	
300.00	300.00	297.08	297.04	0.84	0.47	14.67	136.14	35.63	140.76	139.43	1.33	106.059		
350.00	350.00	345.46	345.32	1.02	0.57	13.54	138.08	33.25	142.10	140.47	1.63	87.214		
400.00	399.99	393.59	393.26	1.19	0.68	-102.51	140.77	29.94	144.22	142.29	1.93	74.548		
500.00	499.85	488.28	487.19	1.54	0.95	-108.11	148.29	20.70	152.02	149.41	2.61	58.219		
600.00	599.29	579.77	577.27	1.90	1.27	-115.50	158.34	8.35	166.66	163.29	3.37	49.481		
700.00	698.04	667.93	663.28	2.28	1.63	-123.27	170.55	-6.66	190.38	186.27	4.11	46.359	SF	
800.00	795.85	758.27	751.08	2.70	2.02	-130.51	183.95	-23.13	222.23	217.57	4.66	47.688		
900.00	892.43	846.26	836.61	3.17	2.41	-136.41	197.01	-39.18	260.83	255.68	5.15	50.642		
1,000.00	987.52	931.67	919.62	3.71	2.78	-141.13	209.68	-54.76	305.67	300.07	5.61	54.519		
1,100.00	1,080.87	1,014.25	999.89	4.33	3.15	-144.88	221.94	-69.82	356.24	350.19	6.05	58.897		
1,200.00	1,172.22	1,093.79	1,077.20	5.04	3.50	-147.82	233.74	-84.32	412.08	405.60	6.49	63.527		
1,300.00	1,261.31	1,170.07	1,151.34	5.85	3.84	-150.13	245.06	-98.23	472.79	465.87	6.93	68.264		
1,400.00	1,347.90	1,242.87	1,222.09	6.79	4.17	-151.91	255.86	-111.51	538.02	530.65	7.37	73.036		
1,500.00	1,431.76	1,311.99	1,289.28	7.86	4.48	-153.26	266.11	-124.12	607.44	599.63	7.81	77.813		
1,603.26	1,515.23	1,379.32	1,354.72	9.10	4.78	-154.24	276.10	-136.40	683.21	674.96	8.26	82.744		
1,700.00	1,591.88	1,440.40	1,414.09	10.35	5.06	-156.24	285.17	-147.54	756.26	747.59	8.67	87.230		
1,800.00	1,671.11	1,503.54	1,475.46	11.67	5.34	-157.96	294.54	-159.05	832.15	823.05	9.09	91.535		
1,900.00	1,750.34	1,566.68	1,536.84	13.01	5.63	-159.40	303.91	-170.57	908.31	898.79	9.52	95.434		
2,000.00	1,829.57	1,629.83	1,598.21	14.36	5.91	-160.63	313.27	-182.08	984.69	974.74	9.95	98.973		
2,100.00	1,908.81	1,692.97	1,659.58	15.72	6.19	-161.69	322.64	-193.60	1,061.23	1,050.85	10.38	102.193		
2,200.00	1,988.04	1,756.11	1,720.95	17.09	6.48	-162.61	332.01	-205.12	1,137.92	1,127.09	10.82	105.128		
2,300.00	2,067.27	1,819.25	1,782.32	18.46	6.76	-163.42	341.38	-216.63	1,214.71	1,203.44	11.27	107.810		
2,400.00	2,146.50	1,882.39	1,843.69	19.84	7.05	-164.14	350.75	-228.15	1,291.59	1,279.88	11.71	110.267		
2,500.00	2,225.73	1,945.53	1,905.06	21.23	7.33	-164.77	360.12	-239.66	1,368.55	1,356.38	12.16	112.524		
2,600.00	2,304.96	2,008.67	1,966.43	22.62	7.62	-165.34	369.49	-251.18	1,445.57	1,432.95	12.61	114.601		

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	15.54	115.37	32.07	119.74						
100.00	100.00	100.00	100.00	0.12	0.12	15.54	115.37	32.07	119.74	119.50	0.24	505.179			
200.00	200.00	200.00	200.00	0.48	0.29	15.54	115.37	32.07	119.74	118.97	0.77	155.501			
300.00	300.00	300.00	300.00	0.84	0.47	15.54	115.37	32.07	119.74	118.44	1.30	91.893			
350.00	350.00	350.00	350.00	1.02	0.55	15.54	115.37	32.07	119.74	118.17	1.57	76.290 CC			
400.00	399.99	399.99	399.99	1.19	0.64	-99.10	115.37	32.07	119.84	118.01	1.83	65.480 ES			
500.00	499.85	500.06	500.02	1.54	0.82	-102.77	115.82	29.49	120.68	118.33	2.35	51.257			
600.00	599.29	598.13	597.77	1.90	1.02	-110.82	117.15	21.96	124.09	121.17	2.92	42.473			
700.00	698.04	689.84	688.76	2.28	1.26	-121.03	120.25	10.99	134.98	131.38	3.59	37.562			
800.00	795.85	777.21	774.90	2.70	1.53	-131.03	125.99	-2.42	157.53	153.19	4.34	36.329 SF			
900.00	892.43	862.73	858.60	3.17	1.83	-139.55	133.96	-18.03	192.01	187.02	4.98	38.519			
1,000.00	987.52	949.16	943.08	3.71	2.15	-146.25	142.41	-34.22	234.76	229.26	5.50	42.661			
1,100.00	1,080.87	1,032.84	1,024.88	4.33	2.48	-151.20	150.59	-49.89	284.07	278.09	5.98	47.497			
1,200.00	1,172.22	1,113.55	1,103.76	5.04	2.79	-154.88	158.48	-65.00	339.09	332.65	6.44	52.669			
1,300.00	1,261.31	1,191.05	1,179.52	5.85	3.10	-157.64	166.06	-79.52	399.21	392.32	6.88	57.989			
1,400.00	1,347.90	1,265.15	1,251.94	6.79	3.39	-159.72	173.30	-93.40	463.97	456.65	7.32	63.364			
1,500.00	1,431.76	1,335.62	1,320.82	7.86	3.68	-161.30	180.19	-106.60	533.00	525.25	7.75	68.759			
1,603.26	1,515.23	1,404.40	1,388.05	9.10	3.95	-162.50	186.91	-119.48	608.43	600.24	8.18	74.338			
1,700.00	1,591.88	1,466.87	1,449.11	10.35	4.21	-164.24	193.02	-131.18	681.10	672.52	8.58	79.402			
1,800.00	1,671.11	1,531.44	1,512.22	11.67	4.47	-165.70	199.33	-143.27	756.47	747.49	8.98	84.247			
1,900.00	1,750.34	1,596.02	1,575.34	13.01	4.73	-166.90	205.64	-155.37	832.02	822.63	9.39	88.633			
2,000.00	1,829.57	1,660.59	1,638.45	14.36	4.99	-167.91	211.96	-167.46	907.70	897.90	9.80	92.605			
2,100.00	1,908.81	1,725.16	1,701.57	15.72	5.26	-168.77	218.27	-179.55	983.49	973.27	10.22	96.213			
2,200.00	1,988.04	1,789.74	1,764.69	17.09	5.52	-169.50	224.58	-191.65	1,059.36	1,048.71	10.65	99.495			
2,300.00	2,067.27	1,854.31	1,827.80	18.46	5.79	-170.14	230.89	-203.74	1,135.29	1,124.22	11.08	102.488			
2,400.00	2,146.50	1,918.89	1,890.92	19.84	6.05	-170.70	237.21	-215.84	1,211.28	1,199.77	11.51	105.225			
2,500.00	2,225.73	1,983.46	1,954.04	21.23	6.32	-171.19	243.52	-227.93	1,287.31	1,275.36	11.95	107.733			
2,600.00	2,304.96	2,048.03	2,017.15	22.62	6.58	-171.63	249.83	-240.02	1,363.38	1,350.99	12.39	110.036			
2,700.00	2,384.19	2,112.61	2,080.27	24.00	6.84	-172.03	256.14	-252.12	1,439.48	1,426.64	12.83	112.158			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-170.99	-78.91	-12.52	79.90						
100.00	100.00	100.00	100.00	0.12	0.12	-170.99	-78.91	-12.52	79.90	79.66	0.24	337.094			
200.00	200.00	200.00	200.00	0.48	0.29	-170.99	-78.91	-12.52	79.90	79.13	0.77	103.762			
203.41	203.41	203.41	203.41	0.49	0.30	-170.99	-78.91	-12.52	79.90	79.11	0.79	101.367	CC, ES		
300.00	300.00	298.28	298.27	0.84	0.46	-171.22	-79.48	-12.28	80.44	79.11	1.32	60.790			
350.00	350.00	346.49	346.45	1.02	0.56	-171.89	-81.16	-11.56	82.05	80.41	1.64	50.044			
400.00	399.99	394.61	394.48	1.19	0.65	73.05	-83.95	-10.38	84.58	82.62	1.96	43.083			
500.00	499.85	490.53	489.90	1.54	0.88	72.79	-92.84	-6.61	91.74	89.12	2.63	34.910			
600.00	599.29	585.87	584.15	1.90	1.17	73.81	-106.03	-1.01	101.70	98.38	3.32	30.667			
700.00	698.04	680.46	676.82	2.28	1.53	75.65	-123.38	6.35	114.52	110.48	4.04	28.377			
800.00	795.85	774.13	767.57	2.70	1.97	77.90	-144.71	15.40	130.34	125.53	4.81	27.106			
900.00	892.43	866.73	856.07	3.17	2.48	80.25	-169.79	26.04	149.26	143.60	5.66	26.365			
1,000.00	987.52	958.15	942.03	3.71	3.06	82.49	-198.39	38.17	171.34	164.72	6.62	25.889			
1,100.00	1,080.87	1,048.27	1,025.22	4.33	3.70	84.50	-230.27	51.70	196.58	188.88	7.70	25.535			
1,200.00	1,172.22	1,136.99	1,105.45	5.04	4.40	86.23	-265.14	66.49	224.94	216.03	8.92	25.226			
1,300.00	1,261.31	1,224.26	1,182.55	5.85	5.15	87.67	-302.75	82.45	256.34	246.06	10.28	24.930			
1,400.00	1,347.90	1,310.01	1,256.42	6.79	5.94	88.83	-342.83	99.45	290.66	278.86	11.79	24.644			
1,500.00	1,431.76	1,402.14	1,334.66	7.86	6.80	90.24	-387.62	118.45	326.70	313.19	13.51	24.180			
1,603.26	1,515.23	1,496.61	1,414.89	9.10	7.70	92.02	-433.54	137.94	364.65	349.18	15.48	23.561			
1,700.00	1,591.88	1,584.62	1,489.62	10.35	8.53	94.71	-476.33	156.09	401.08	383.66	17.42	23.024			
1,800.00	1,671.11	1,675.59	1,566.87	11.67	9.39	97.03	-520.55	174.85	439.43	419.98	19.45	22.590			
1,900.00	1,750.34	1,766.56	1,644.12	13.01	10.25	98.99	-564.77	193.61	478.30	456.81	21.50	22.252			
2,000.00	1,829.57	1,857.53	1,721.38	14.36	11.12	100.65	-608.99	212.37	517.59	494.05	23.54	21.985			
2,100.00	1,908.81	1,948.50	1,798.63	15.72	11.98	102.09	-653.21	231.13	557.21	531.61	25.59	21.773			
2,200.00	1,988.04	2,039.47	1,875.88	17.09	12.85	103.33	-697.44	249.89	597.08	569.44	27.64	21.602			
2,300.00	2,067.27	2,130.44	1,953.13	18.46	13.72	104.43	-741.66	268.65	637.16	607.48	29.69	21.463			
2,400.00	2,146.50	2,221.40	2,030.38	19.84	14.58	105.39	-785.88	287.42	677.42	645.69	31.73	21.349			
2,500.00	2,225.73	2,312.37	2,107.64	21.23	15.45	106.25	-830.10	306.18	717.83	684.05	33.77	21.255			
2,600.00	2,304.96	2,403.34	2,184.89	22.62	16.32	107.02	-874.32	324.94	758.35	722.54	35.81	21.176			
2,700.00	2,384.19	2,494.31	2,262.14	24.00	17.19	107.71	-918.55	343.70	798.98	761.13	37.85	21.110			
2,800.00	2,463.42	2,585.28	2,339.39	25.40	18.06	108.33	-962.77	362.46	839.70	799.81	39.88	21.053			
2,900.00	2,542.66	2,676.25	2,416.64	26.79	18.93	108.89	-1,006.99	381.22	880.49	838.57	41.92	21.005			
3,000.00	2,621.89	2,767.22	2,493.90	28.18	19.80	109.41	-1,051.21	399.98	921.34	877.40	43.95	20.964			
3,100.00	2,701.12	2,858.19	2,571.15	29.58	20.66	109.88	-1,095.43	418.75	962.26	916.28	45.98	20.928			
3,200.00	2,780.35	2,949.16	2,648.40	30.98	21.53	110.32	-1,139.66	437.51	1,003.22	955.22	48.01	20.897			
3,300.00	2,859.58	3,040.13	2,725.65	32.38	22.40	110.72	-1,183.88	456.27	1,044.23	994.20	50.03	20.871			
3,400.00	2,938.81	3,131.10	2,802.90	33.78	23.27	111.09	-1,228.10	475.03	1,085.28	1,033.22	52.06	20.847			
3,500.00	3,018.04	3,222.07	2,880.16	35.18	24.14	111.43	-1,272.32	493.79	1,126.37	1,072.28	54.08	20.826			
3,600.00	3,097.27	3,313.04	2,957.41	36.58	25.01	111.75	-1,316.54	512.55	1,167.48	1,111.38	56.11	20.808			
3,700.00	3,176.51	3,404.01	3,034.66	37.98	25.88	112.05	-1,360.77	531.31	1,208.63	1,150.50	58.13	20.792			
3,800.00	3,255.74	3,494.98	3,111.91	39.38	26.75	112.33	-1,404.99	550.07	1,249.80	1,189.65	60.15	20.778			
3,900.00	3,334.97	3,585.95	3,189.16	40.78	27.62	112.59	-1,449.21	568.84	1,290.99	1,228.82	62.17	20.765			
4,000.00	3,414.20	3,676.92	3,266.42	42.19	28.49	112.83	-1,493.43	587.60	1,332.20	1,268.01	64.19	20.754			
4,100.00	3,493.43	3,767.89	3,343.67	43.59	29.36	113.06	-1,537.65	606.36	1,373.43	1,307.22	66.21	20.743			
4,200.00	3,572.66	3,858.86	3,420.92	44.99	30.23	113.28	-1,581.88	625.12	1,414.68	1,346.45	68.23	20.734			
4,300.00	3,651.89	3,949.82	3,498.17	46.40	31.10	113.48	-1,626.10	643.88	1,455.95	1,385.70	70.25	20.726			
4,400.00	3,731.12	4,040.79	3,575.42	47.80	31.97	113.67	-1,670.32	662.64	1,497.23	1,424.96	72.26	20.719	SF		

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	20.01	122.44	44.59	130.30						
100.00	100.00	100.00	100.00	0.12	0.12	20.01	122.44	44.59	130.30	130.06	0.24	549.733			
200.00	200.00	200.00	200.00	0.48	0.29	20.01	122.44	44.59	130.30	129.53	0.77	169.215			
300.00	300.00	300.00	300.00	0.84	0.47	20.01	122.44	44.59	130.30	129.00	1.30	99.998			
350.00	350.00	350.00	350.00	1.02	0.55	20.01	122.44	44.59	130.30	128.73	1.57	83.019 CC			
400.00	399.99	399.99	399.99	1.19	0.64	-94.61	122.44	44.59	130.35	128.52	1.83	71.224 ES			
500.00	499.85	497.74	497.70	1.54	0.82	-97.83	123.87	42.54	131.67	129.31	2.36	55.870			
600.00	599.29	593.56	593.23	1.90	1.01	-104.75	128.06	36.56	136.65	133.71	2.94	46.441			
700.00	698.04	686.06	684.99	2.28	1.25	-113.92	134.70	27.07	148.47	144.85	3.61	41.079			
800.00	795.85	774.95	772.55	2.70	1.52	-123.53	143.34	14.47	170.07	165.75	4.32	39.370 SF			
900.00	892.43	859.29	854.92	3.17	1.86	-132.25	152.70	-1.04	202.37	197.36	5.01	40.385			
1,000.00	987.52	937.27	930.32	3.71	2.22	-139.31	162.19	-18.48	245.46	239.82	5.64	43.500			
1,100.00	1,080.87	1,008.41	998.37	4.33	2.59	-144.69	171.54	-36.99	298.47	292.28	6.20	48.177			
1,200.00	1,172.22	1,072.52	1,059.00	5.04	2.98	-148.64	180.51	-55.76	360.15	353.47	6.68	53.911			
1,300.00	1,261.31	1,129.58	1,112.37	5.85	3.36	-151.43	188.94	-74.11	429.22	422.13	7.09	60.497			
1,400.00	1,347.90	1,179.76	1,158.79	6.79	3.71	-153.30	196.68	-91.52	504.56	497.11	7.45	67.742			
1,500.00	1,431.76	1,223.31	1,198.66	7.86	4.05	-154.40	203.64	-107.59	585.17	577.42	7.75	75.516			
1,603.26	1,515.23	1,261.69	1,233.47	9.10	4.36	-154.80	209.97	-122.48	673.03	665.02	8.01	84.036			
1,700.00	1,591.88	1,300.00	1,267.88	10.35	4.67	-157.19	216.45	-138.01	757.89	749.67	8.22	92.190			
1,800.00	1,671.11	1,324.41	1,289.63	11.67	4.89	-158.52	220.67	-148.25	846.59	838.20	8.39	100.893			
1,900.00	1,750.34	1,353.27	1,315.16	13.01	5.16	-159.94	225.75	-160.71	936.26	927.70	8.56	109.420			
2,000.00	1,829.57	1,380.33	1,338.91	14.36	5.41	-161.14	230.59	-172.74	1,026.71	1,018.01	8.71	117.928			
2,100.00	1,908.81	1,400.00	1,356.06	15.72	5.59	-161.94	234.16	-181.68	1,117.89	1,109.07	8.82	126.740			
2,200.00	1,988.04	1,429.65	1,381.73	17.09	5.89	-163.05	239.63	-195.49	1,209.63	1,200.66	8.97	134.825			
2,300.00	2,067.27	1,452.17	1,401.06	18.46	6.12	-163.83	243.85	-206.23	1,301.94	1,292.85	9.09	143.244			
2,400.00	2,146.50	1,473.41	1,419.18	19.84	6.33	-164.51	247.88	-216.57	1,394.74	1,385.55	9.20	151.667			
2,500.00	2,225.73	1,500.00	1,441.68	21.23	6.61	-165.30	252.98	-229.78	1,488.01	1,478.69	9.33	159.552			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: 0-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
0.00	0.00	0.00	0.00	0.00	0.00	-170.52	-89.03	-14.86	90.26	90.02	0.24	380.801										
100.00	100.00	100.00	100.00	0.12	0.12	-170.52	-89.03	-14.86	90.26	90.02	0.33	276.990 CC										
116.67	116.67	116.67	116.67	0.18	0.15	-170.52	-89.03	-14.86	90.26	89.93	0.77	117.216 ES										
200.00	200.00	200.00	200.00	0.48	0.29	-170.52	-89.03	-14.86	90.26	89.49	1.39	66.556										
300.00	300.00	296.03	295.99	0.84	0.47	-171.29	-91.27	-13.98	92.42	91.03	1.73	55.023										
350.00	350.00	343.89	343.75	1.02	0.57	-172.21	-94.07	-12.87	95.15	93.42	2.07	47.753										
400.00	399.99	391.61	391.29	1.19	0.68	72.51	-97.96	-11.33	98.80	96.73	2.76	39.280										
500.00	499.85	486.62	485.55	1.54	0.94	71.75	-108.99	-6.97	108.23	105.47	3.46	34.827										
600.00	599.29	580.90	578.38	1.90	1.28	72.22	-124.23	-0.95	120.39	116.94	4.19	32.335										
700.00	698.04	674.26	669.40	2.28	1.68	73.51	-143.51	6.67	135.32	131.14	4.96	30.863										
800.00	795.85	766.57	758.29	2.70	2.15	75.27	-166.61	15.80	153.10	148.14	5.81	29.927										
900.00	892.43	857.66	844.74	3.17	2.69	77.21	-193.30	26.35	173.82	168.01	6.75	29.260										
1,000.00	987.52	947.42	928.49	3.71	3.29	79.14	-223.32	38.21	197.55	190.80	7.81	28.719										
1,100.00	1,080.87	1,035.76	1,009.34	4.33	3.95	80.95	-256.39	51.29	224.31	216.50	9.00	28.229										
1,200.00	1,172.22	1,122.57	1,087.11	5.04	4.66	82.56	-292.26	65.46	254.08	245.08	10.33	27.755										
1,300.00	1,261.31	1,207.81	1,161.69	5.85	5.42	83.95	-330.64	80.63	286.78	276.45	11.82	27.276										
1,400.00	1,347.90	1,291.43	1,232.99	6.79	6.23	85.09	-371.25	96.68	322.33	310.52	13.49	26.696										
1,500.00	1,431.76	1,379.78	1,306.70	7.86	7.10	86.30	-416.55	114.58	360.09	346.60	15.44	25.879										
1,603.26	1,515.23	1,473.46	1,384.73	9.10	8.02	87.89	-464.75	133.63	399.63	384.19	17.39	25.149										
1,700.00	1,591.88	1,560.75	1,457.45	10.35	8.89	90.48	-509.66	151.39	437.37	419.98	19.44	24.542										
1,800.00	1,671.11	1,651.00	1,532.62	11.67	9.78	92.73	-556.09	169.74	477.07	457.63	21.51	24.053										
1,900.00	1,750.34	1,741.24	1,607.79	13.01	10.68	94.64	-602.52	188.09	517.32	495.81	23.59	23.658										
2,000.00	1,829.57	1,831.48	1,682.96	14.36	11.58	96.28	-648.96	206.44	557.99	534.40	25.67	23.336										
2,100.00	1,908.81	1,921.72	1,758.14	15.72	12.47	97.70	-695.39	224.79	598.99	573.33	27.75	23.069										
2,200.00	1,988.04	2,011.96	1,833.31	17.09	13.37	98.95	-741.82	243.14	640.28	612.52	29.84	22.847										
2,300.00	2,067.27	2,102.20	1,908.48	18.46	14.27	100.04	-788.25	261.49	681.78	651.94	31.93	22.660										
2,400.00	2,146.50	2,192.44	1,983.65	19.84	15.17	101.01	-834.68	279.84	723.47	691.54	34.01	22.501										
2,500.00	2,225.73	2,282.68	2,058.82	21.23	16.07	101.88	-881.11	298.19	765.32	731.30	36.10	22.365										
2,600.00	2,304.96	2,372.92	2,133.99	22.62	16.97	102.65	-927.54	316.54	807.29	771.20	38.18	22.248										
2,700.00	2,384.19	2,463.16	2,209.16	24.00	17.87	103.35	-973.97	334.89	849.38	811.20	40.26	22.146										
2,800.00	2,463.42	2,553.40	2,284.33	25.40	18.78	103.99	-1,020.40	353.25	891.56	851.31	26.79	21.979										
2,900.00	2,542.66	2,643.64	2,359.51	26.79	19.68	104.57	-1,066.83	371.60	933.83	891.49	28.58	21.847										
3,000.00	2,621.89	2,733.88	2,434.68	28.18	20.58	105.10	-1,113.27	389.95	976.17	931.75	30.38	21.792										
3,100.00	2,701.12	2,824.12	2,509.85	29.58	21.48	105.58	-1,159.70	408.30	1,018.57	972.08	32.33	21.697										
3,200.00	2,780.35	2,914.36	2,585.02	30.98	22.38	106.03	-1,206.13	426.65	1,061.03	1,012.46	34.37	21.657										
3,300.00	2,859.58	3,004.60	2,660.19	32.38	23.28	106.44	-1,252.56	445.00	1,103.53	1,052.89	36.41	21.587										
3,400.00	2,938.81	3,094.84	2,735.36	33.78	24.19	106.82	-1,298.99	463.35	1,146.08	1,093.37	38.46	21.528										
3,500.00	3,018.04	3,185.08	2,810.53	35.18	25.09	107.18	-1,345.42	481.70	1,188.67	1,133.89	40.50	21.502										
3,600.00	3,097.27	3,275.32	2,885.70	36.58	25.99	107.51	-1,391.85	500.05	1,231.29	1,174.44	42.54	21.502										
3,700.00	3,176.51	3,365.56	2,960.88	37.98	26.89	107.81	-1,438.28	518.40	1,273.95	1,215.02	44.58	21.502										
3,800.00	3,255.74	3,455.80	3,036.05	39.38	27.79	108.10	-1,484.71	536.75	1,316.63	1,255.64	46.61	21.502										
3,900.00	3,334.97	3,546.04	3,111.22	40.78	28.70	108.37	-1,531.14	555.11	1,359.34	1,296.28	48.65	21.502										
4,000.00	3,414.20	3,636.28	3,186.39	42.19	29.60	108.63	-1,577.58	573.46	1,402.07	1,336.94	50.69	21.502										
4,100.00	3,493.43	3,726.52	3,261.56	43.59	30.50	108.87	-1,624.01	591.81	1,444.83	1,377.63	52.73	21.502										
4,200.00	3,572.66	3,816.76	3,336.73	44.99	31.40	109.09	-1,670.44	610.16	1,487.60	1,418.34	54.77	21.478 SF										

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	15.67	125.48	35.20	130.32						
100.00	100.00	100.00	100.00	0.12	0.12	15.67	125.48	35.20	130.32	130.09	0.24	549.827			
200.00	200.00	202.06	202.05	0.48	0.30	15.42	125.24	34.53	129.93	129.13	0.80	163.053			
300.00	300.00	305.87	305.70	0.84	0.51	13.33	123.31	29.23	126.85	125.42	1.43	88.578			
350.00	350.00	357.47	357.06	1.02	0.64	11.44	121.63	24.62	124.30	122.53	1.76	70.529			
400.00	399.99	408.69	407.90	1.19	0.78	-105.80	119.50	18.76	121.39	119.31	2.08	58.388			
500.00	499.85	509.21	507.10	1.54	1.12	-115.41	113.96	3.55	116.63	113.90	2.72	42.866			
540.32	540.01	548.78	545.89	1.68	1.29	-120.61	111.29	-3.78	116.01	113.01	3.00	38.645	CC, ES		
600.00	599.29	606.07	601.75	1.90	1.53	-129.29	106.94	-15.73	117.75	114.32	3.43	34.345			
700.00	698.04	695.94	688.59	2.28	1.96	-144.06	99.47	-37.57	131.26	126.97	4.29	30.568	SF		
800.00	795.85	778.84	768.00	2.70	2.42	-155.95	94.30	-60.77	161.53	156.29	5.24	30.829			
900.00	892.43	856.14	841.36	3.17	2.89	-164.27	91.35	-84.96	206.05	200.03	6.02	34.234			
1,000.00	987.52	927.30	908.19	3.71	3.36	-169.77	90.23	-109.38	261.50	254.86	6.63	39.418			
1,100.00	1,080.87	991.98	968.26	4.33	3.81	-173.39	90.54	-133.33	325.51	318.38	7.14	45.618			
1,200.00	1,172.22	1,050.04	1,021.60	5.04	4.26	-175.83	91.89	-156.23	396.50	388.94	7.55	52.503			
1,300.00	1,261.31	1,100.00	1,067.00	5.85	4.65	-177.48	93.87	-176.98	473.29	465.38	7.91	59.826			
1,400.00	1,347.90	1,146.65	1,108.95	6.79	5.05	-178.75	96.40	-197.21	554.97	546.77	8.20	67.665			
1,500.00	1,431.76	1,185.62	1,143.66	7.86	5.39	-179.68	99.01	-214.74	640.78	632.33	8.45	75.801			
1,603.26	1,515.23	1,219.75	1,173.79	9.10	5.70	179.56	101.68	-230.56	733.02	724.35	8.66	84.634			
1,700.00	1,591.88	1,248.04	1,198.56	10.35	5.97	179.02	104.15	-244.00	821.25	812.43	8.82	93.107			
1,800.00	1,671.11	1,275.47	1,222.40	11.67	6.23	178.60	106.77	-257.30	913.04	904.07	8.97	101.803			
1,900.00	1,750.34	1,300.00	1,243.57	13.01	6.46	178.27	109.31	-269.42	1,005.37	996.26	9.11	110.417			
2,000.00	1,829.57	1,325.43	1,265.37	14.36	6.73	177.99	112.13	-282.22	1,098.19	1,088.98	9.21	119.257			
2,100.00	1,908.81	1,348.23	1,284.77	15.72	6.97	177.77	114.82	-293.89	1,191.44	1,182.11	9.34	127.602			
2,200.00	1,988.04	1,369.72	1,302.94	17.09	7.19	177.59	117.50	-305.05	1,285.10	1,275.64	9.47	135.767			
2,300.00	2,067.27	1,400.00	1,328.33	18.46	7.51	177.38	121.50	-321.05	1,379.19	1,369.59	9.60	143.631			
2,400.00	2,146.50	1,400.00	1,328.33	19.84	7.51	177.38	121.50	-321.05	1,473.55	1,463.95	9.60	153.543			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	-169.61	-98.13	-17.99	99.77					
100.00	100.00	100.00	100.00	0.12	0.12	-169.61	-98.13	-17.99	99.77	99.53	0.24	420.923		
103.39	103.39	103.39	103.39	0.13	0.12	-169.61	-98.13	-17.99	99.77	99.51	0.26	391.107 CC		
200.00	200.00	197.84	197.84	0.48	0.29	-169.79	-98.70	-17.78	100.31	99.50	0.81	124.273 ES		
300.00	300.00	293.28	293.15	0.84	0.48	-171.12	-103.17	-16.13	104.65	103.16	1.49	70.162		
350.00	350.00	340.76	340.45	1.02	0.60	-172.19	-107.06	-14.69	108.49	106.64	1.85	58.757		
400.00	399.99	388.06	387.44	1.19	0.72	72.37	-112.03	-12.85	113.27	111.07	2.20	51.581		
500.00	499.85	482.11	480.44	1.54	1.02	71.27	-125.15	-8.00	124.97	122.07	2.89	43.176		
600.00	599.29	575.29	571.78	1.90	1.39	71.33	-142.36	-1.64	139.37	135.77	3.60	38.691		
700.00	698.04	667.41	661.11	2.28	1.83	72.19	-163.47	6.17	156.46	152.13	4.33	36.111		
800.00	795.85	758.33	748.10	2.70	2.33	73.53	-188.24	15.33	176.28	171.17	5.11	34.525		
900.00	892.43	847.92	832.49	3.17	2.90	75.11	-216.41	25.75	198.90	192.95	5.94	33.458		
1,000.00	987.52	936.05	914.04	3.71	3.52	76.75	-247.72	37.33	224.38	217.50	6.87	32.650		
1,100.00	1,080.87	1,022.63	992.59	4.33	4.19	78.32	-281.89	49.96	252.74	244.83	7.91	31.961		
1,200.00	1,172.22	1,107.59	1,067.97	5.04	4.92	79.76	-318.62	63.54	283.98	274.91	9.07	31.317		
1,300.00	1,261.31	1,190.88	1,140.11	5.85	5.69	81.03	-357.65	77.98	318.03	307.66	10.37	30.671		
1,400.00	1,347.90	1,272.46	1,208.95	6.79	6.50	82.10	-398.70	93.16	354.83	343.02	11.82	30.021		
1,500.00	1,431.76	1,356.21	1,277.76	7.86	7.35	83.11	-443.47	109.71	394.12	380.69	13.43	29.339		
1,603.26	1,515.23	1,449.02	1,353.57	9.10	8.31	84.51	-493.69	128.29	435.38	420.02	15.36	28.345		
1,700.00	1,591.88	1,535.55	1,424.24	10.35	9.20	86.98	-540.51	145.60	474.58	457.28	17.30	27.440		
1,800.00	1,671.11	1,624.99	1,497.30	11.67	10.13	89.15	-588.91	163.50	515.78	496.44	19.34	26.669		
1,900.00	1,750.34	1,714.43	1,570.36	13.01	11.05	91.01	-637.31	181.39	557.52	536.11	21.41	26.039		
2,000.00	1,829.57	1,803.88	1,643.42	14.36	11.98	92.61	-685.70	199.29	599.69	576.19	23.50	25.521		
2,100.00	1,908.81	1,893.32	1,716.47	15.72	12.91	94.01	-734.10	217.19	642.21	616.61	25.60	25.091		
2,200.00	1,988.04	1,982.76	1,789.53	17.09	13.84	95.24	-782.50	235.09	685.01	657.31	27.70	24.731		
2,300.00	2,067.27	2,072.21	1,862.59	18.46	14.76	96.32	-830.90	252.98	728.04	698.23	29.80	24.427		
2,400.00	2,146.50	2,161.65	1,935.65	19.84	15.69	97.29	-879.29	270.88	771.26	739.35	31.91	24.168		
2,500.00	2,225.73	2,251.09	2,008.70	21.23	16.62	98.15	-927.69	288.78	814.64	780.62	34.02	23.945		
2,600.00	2,304.96	2,340.53	2,081.76	22.62	17.55	98.93	-976.09	306.68	858.16	822.04	36.13	23.753		
2,700.00	2,384.19	2,429.98	2,154.82	24.00	18.48	99.63	-1,024.49	324.57	901.80	863.57	38.24	23.585		
2,800.00	2,463.42	2,519.42	2,227.88	25.40	19.41	100.27	-1,072.88	342.47	945.54	905.20	40.34	23.437		
2,900.00	2,542.66	2,608.86	2,300.94	26.79	20.34	100.85	-1,121.28	360.37	989.37	946.92	42.45	23.307		
3,000.00	2,621.89	2,698.31	2,373.99	28.18	21.27	101.39	-1,169.68	378.26	1,033.27	988.72	44.55	23.191		
3,100.00	2,701.12	2,787.75	2,447.05	29.58	22.20	101.88	-1,218.08	396.16	1,077.24	1,030.58	46.66	23.088		
3,200.00	2,780.35	2,877.19	2,520.11	30.98	23.13	102.33	-1,266.47	414.06	1,121.27	1,072.51	48.76	22.995		
3,300.00	2,859.58	2,966.64	2,593.17	32.38	24.06	102.75	-1,314.87	431.96	1,165.36	1,114.49	50.86	22.911		
3,400.00	2,938.81	3,056.08	2,666.23	33.78	24.99	103.14	-1,363.27	449.85	1,209.49	1,156.52	52.97	22.835		
3,500.00	3,018.04	3,145.52	2,739.28	35.18	25.92	103.50	-1,411.67	467.75	1,253.66	1,198.59	55.07	22.766		
3,600.00	3,097.27	3,234.97	2,812.34	36.58	26.85	103.84	-1,460.06	485.65	1,297.87	1,240.70	57.17	22.703		
3,700.00	3,176.51	3,324.41	2,885.40	37.98	27.78	104.15	-1,508.46	503.55	1,342.11	1,282.85	59.27	22.646		
3,800.00	3,255.74	3,413.85	2,958.46	39.38	28.72	104.45	-1,556.86	521.44	1,386.38	1,325.02	61.36	22.593		
3,900.00	3,334.97	3,503.30	3,031.51	40.78	29.65	104.72	-1,605.25	539.34	1,430.69	1,367.22	63.46	22.544		
4,000.00	3,414.20	3,592.74	3,104.57	42.19	30.58	104.98	-1,653.65	557.24	1,475.01	1,409.45	65.56	22.499 SF		

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	20.44	113.33	42.24	120.95						
100.00	100.00	100.00	100.00	0.12	0.12	20.44	113.33	42.24	120.95	120.71	0.24	510.277			
116.67	116.67	116.67	116.67	0.18	0.15	20.44	113.33	42.24	120.95	120.62	0.33	371.169	CC		
200.00	200.00	200.00	200.00	0.48	0.29	20.44	113.33	42.24	120.95	120.18	0.77	157.070	ES		
300.00	300.00	296.26	296.23	0.84	0.46	21.39	113.70	44.53	122.16	120.82	1.35	90.739			
350.00	350.00	343.48	343.36	1.02	0.56	22.30	114.81	47.08	124.27	122.59	1.68	73.959			
400.00	399.99	390.57	390.28	1.19	0.66	-91.10	116.68	50.51	127.53	125.51	2.02	63.248			
500.00	499.85	484.23	483.27	1.54	0.91	-90.20	122.62	59.94	137.44	134.73	2.71	50.792			
600.00	599.29	576.88	574.62	1.90	1.23	-90.38	131.39	72.68	151.75	148.33	3.41	44.445			
700.00	698.04	668.18	663.79	2.28	1.61	-91.30	142.84	88.50	170.41	166.27	4.14	41.123			
800.00	795.85	763.44	756.07	2.70	2.03	-92.95	156.92	107.51	192.44	187.66	4.78	40.239			
900.00	892.43	860.11	849.67	3.17	2.48	-95.50	171.30	126.91	215.36	209.89	5.47	39.393			
1,000.00	987.52	955.94	942.46	3.71	2.92	-98.62	185.57	146.14	239.58	233.32	6.26	38.246			
1,100.00	1,080.87	1,050.68	1,034.20	4.33	3.37	-102.06	199.66	165.16	265.75	258.57	7.18	37.018			
1,200.00	1,172.22	1,144.08	1,124.63	5.04	3.81	-105.63	213.56	183.90	294.45	286.25	8.20	35.892			
1,300.00	1,261.31	1,235.86	1,213.50	5.85	4.24	-109.15	227.22	202.33	326.22	316.90	9.32	34.992			
1,400.00	1,347.90	1,325.78	1,300.57	6.79	4.67	-112.52	240.60	220.38	361.50	350.98	10.51	34.383			
1,500.00	1,431.76	1,413.60	1,385.60	7.86	5.08	-115.65	253.67	238.00	400.60	388.85	11.75	34.084	SF		
1,603.26	1,515.23	1,501.81	1,471.02	9.10	5.50	-118.58	266.80	255.71	445.23	432.17	13.06	34.093			
1,700.00	1,591.88	1,583.21	1,549.83	10.35	5.89	-122.13	278.91	272.05	489.94	475.67	14.27	34.341			
1,800.00	1,671.11	1,667.34	1,631.30	11.67	6.29	-125.23	291.43	288.93	537.59	522.12	15.48	34.738			
1,900.00	1,750.34	1,751.48	1,712.76	13.01	6.69	-127.86	303.95	305.82	586.35	569.70	16.65	35.210			
2,000.00	1,829.57	1,835.61	1,794.23	14.36	7.09	-130.10	316.48	322.71	635.97	618.17	17.81	35.716			
2,100.00	1,908.81	1,919.75	1,875.70	15.72	7.49	-132.04	329.00	339.60	686.26	667.32	18.94	36.234			
2,200.00	1,988.04	2,003.88	1,957.16	17.09	7.89	-133.72	341.52	356.48	737.08	717.02	20.06	36.748			
2,300.00	2,067.27	2,088.02	2,038.63	18.46	8.29	-135.19	354.04	373.37	788.33	767.17	21.16	37.251			
2,400.00	2,146.50	2,172.15	2,120.10	19.84	8.69	-136.49	366.56	390.26	839.93	817.67	22.26	37.737			
2,500.00	2,225.73	2,256.29	2,201.56	21.23	9.09	-137.64	379.08	407.15	891.82	868.48	23.34	38.203			
2,600.00	2,304.96	2,340.42	2,283.03	22.62	9.49	-138.67	391.60	424.03	943.95	919.53	24.42	38.649			
2,700.00	2,384.19	2,424.56	2,364.49	24.00	9.89	-139.60	404.12	440.92	996.29	970.79	25.50	39.073			
2,800.00	2,463.42	2,508.69	2,445.96	25.40	10.30	-140.43	416.64	457.81	1,048.80	1,022.23	26.57	39.477			
2,900.00	2,542.66	2,592.83	2,527.43	26.79	10.70	-141.19	429.16	474.70	1,101.46	1,073.83	27.63	39.860			
3,000.00	2,621.89	2,676.96	2,608.89	28.18	11.10	-141.87	441.68	491.58	1,154.25	1,125.55	28.70	40.224			
3,100.00	2,701.12	2,761.10	2,690.36	29.58	11.50	-142.50	454.20	508.47	1,207.15	1,177.39	29.76	40.570			
3,200.00	2,780.35	2,845.23	2,771.83	30.98	11.90	-143.08	466.73	525.36	1,260.15	1,229.33	30.81	40.898			
3,300.00	2,859.58	2,929.37	2,853.29	32.38	12.30	-143.61	479.25	542.25	1,313.23	1,281.36	31.87	41.209			
3,400.00	2,938.81	3,013.50	2,934.76	33.78	12.70	-144.10	491.77	559.13	1,366.39	1,333.47	32.92	41.506			
3,500.00	3,018.04	3,097.64	3,016.22	35.18	13.11	-144.55	504.29	576.02	1,419.61	1,385.64	33.97	41.787			
3,600.00	3,097.27	3,181.77	3,097.69	36.58	13.51	-144.97	516.81	592.91	1,472.90	1,437.88	35.02	42.056			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-164.10	-96.11	-27.38	99.93						
100.00	100.00	100.00	100.00	0.12	0.12	-164.10	-96.11	-27.38	99.93	99.70	0.24	421.615			
103.34	103.34	103.34	103.34	0.13	0.12	-164.10	-96.11	-27.38	99.93	99.68	0.25	392.148	CC, ES		
200.00	200.00	197.58	197.57	0.48	0.29	-164.02	-96.62	-27.67	100.54	99.72	0.82	123.151			
300.00	300.00	292.49	292.36	0.84	0.48	-163.39	-100.71	-30.03	105.37	103.85	1.52	69.104			
350.00	350.00	339.71	339.40	1.02	0.59	-162.90	-104.26	-32.09	109.60	107.72	1.89	58.132			
400.00	399.99	386.69	386.09	1.19	0.71	83.50	-108.80	-34.70	114.97	112.73	2.24	51.360			
500.00	499.85	479.54	477.91	1.54	1.01	86.55	-120.67	-41.56	129.09	126.16	2.94	43.947			
600.00	599.29	570.32	566.94	1.90	1.37	90.77	-136.00	-50.41	148.40	144.77	3.62	40.959			
700.00	698.04	658.40	652.41	2.28	1.78	95.26	-154.37	-61.01	173.62	169.33	4.29	40.476			
800.00	795.85	743.22	733.73	2.70	2.25	99.37	-175.26	-73.07	205.19	200.24	4.95	41.463			
900.00	892.43	825.35	811.37	3.17	2.74	102.88	-198.44	-86.44	243.18	237.57	5.61	43.380			
1,000.00	987.52	915.25	895.65	3.71	3.30	105.85	-226.68	-99.87	285.08	278.89	6.20	45.998			
1,100.00	1,080.87	1,005.64	979.92	4.33	3.88	107.85	-257.73	-110.08	328.87	321.93	6.94	47.362			
1,200.00	1,172.22	1,096.62	1,064.05	5.04	4.49	109.17	-291.61	-117.00	374.16	366.29	7.87	47.543			
1,300.00	1,261.31	1,188.26	1,147.93	5.85	5.13	110.00	-328.33	-120.54	420.68	411.68	8.99	46.792			
1,400.00	1,347.90	1,280.68	1,231.44	6.79	5.80	110.46	-367.90	-120.63	468.20	457.89	10.31	45.412			
1,500.00	1,431.76	1,373.99	1,314.46	7.86	6.52	110.64	-410.35	-117.15	516.55	504.71	11.83	43.648			
1,603.26	1,515.23	1,471.42	1,399.52	9.10	7.32	110.60	-457.24	-109.73	567.18	553.55	13.63	41.621			
1,700.00	1,591.88	1,564.54	1,479.08	10.35	8.13	111.69	-504.41	-99.01	614.33	598.86	15.48	39.696			
1,800.00	1,671.11	1,663.24	1,561.35	11.67	9.04	112.20	-556.77	-83.83	661.74	644.23	17.51	37.782			
1,900.00	1,750.34	1,764.01	1,642.91	13.01	10.02	112.20	-612.60	-64.31	707.64	687.96	19.68	35.951			
2,000.00	1,829.57	1,860.35	1,718.63	14.36	11.01	111.83	-667.92	-42.22	752.16	730.30	21.85	34.420			
2,100.00	1,908.81	1,949.89	1,788.62	15.72	11.94	111.48	-719.63	-21.12	796.46	772.56	23.90	33.322			
2,200.00	1,988.04	2,039.44	1,858.61	17.09	12.89	111.15	-771.35	-0.03	840.79	814.77	26.02	32.318			
2,300.00	2,067.27	2,128.98	1,928.59	18.46	13.84	110.87	-823.07	21.07	885.14	857.00	28.13	31.463			
2,400.00	2,146.50	2,218.52	1,998.58	19.84	14.81	110.60	-874.79	42.17	929.50	899.24	30.26	30.720			
2,500.00	2,225.73	2,308.07	2,068.57	21.23	15.77	110.37	-926.51	63.26	973.88	941.49	32.39	30.068			
2,600.00	2,304.96	2,397.61	2,138.56	22.62	16.75	110.15	-978.23	84.36	1,018.27	983.74	34.53	29.493			
2,700.00	2,384.19	2,487.16	2,208.54	24.00	17.73	109.95	-1,029.95	105.46	1,062.67	1,026.00	36.67	28.980			
2,800.00	2,463.42	2,576.70	2,278.53	25.40	18.71	109.77	-1,081.67	126.55	1,107.08	1,068.26	38.82	28.522			
2,900.00	2,542.66	2,666.24	2,348.52	26.79	19.70	109.60	-1,133.38	147.65	1,151.50	1,110.53	40.97	28.109			
3,000.00	2,621.89	2,755.79	2,418.51	28.18	20.68	109.44	-1,185.10	168.74	1,195.92	1,152.80	43.12	27.735			
3,100.00	2,701.12	2,845.33	2,488.49	29.58	21.68	109.30	-1,236.82	189.84	1,240.35	1,195.08	45.28	27.395			
3,200.00	2,780.35	2,934.88	2,558.48	30.98	22.67	109.16	-1,288.54	210.94	1,284.79	1,237.36	47.44	27.085			
3,300.00	2,859.58	3,024.42	2,628.47	32.38	23.66	109.04	-1,340.26	232.03	1,329.24	1,279.64	49.60	26.801			
3,400.00	2,938.81	3,113.96	2,698.46	33.78	24.66	108.92	-1,391.98	253.13	1,373.68	1,321.93	51.76	26.540			
3,500.00	3,018.04	3,203.51	2,768.44	35.18	25.66	108.81	-1,443.70	274.22	1,418.14	1,364.21	53.92	26.299			
3,600.00	3,097.27	3,293.05	2,838.43	36.58	26.66	108.71	-1,495.42	295.32	1,462.59	1,406.50	56.09	26.076	SF		

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	20.75	103.22	39.11	110.38						
100.00	100.00	100.00	100.00	0.12	0.12	20.75	103.22	39.11	110.38	110.15	0.24	465.708			
200.00	200.00	200.00	200.00	0.48	0.29	20.75	103.22	39.11	110.38	109.61	0.77	143.351			
216.67	216.67	216.67	216.67	0.54	0.32	20.75	103.22	39.11	110.38	109.53	0.86	128.524 CC			
300.00	300.00	300.00	300.00	0.84	0.47	20.75	103.22	39.11	110.38	109.08	1.30	84.714 ES			
350.00	350.00	347.88	347.87	1.02	0.55	20.95	103.51	39.64	110.86	109.28	1.58	70.057			
400.00	399.99	395.71	395.66	1.19	0.64	-93.07	104.39	41.21	112.34	110.47	1.88	59.905			
500.00	499.85	491.09	490.77	1.54	0.84	-93.09	107.86	47.46	118.40	115.90	2.50	47.441			
600.00	599.29	585.89	584.82	1.90	1.09	-93.83	113.59	57.78	128.56	125.40	3.16	40.722			
700.00	698.04	679.81	677.31	2.28	1.41	-95.04	121.50	72.02	142.85	138.99	3.86	36.992			
800.00	795.85	773.94	769.12	2.70	1.78	-96.51	131.56	90.13	161.20	156.62	4.58	35.164			
900.00	892.43	871.45	863.93	3.17	2.19	-98.92	142.63	110.05	181.45	176.15	5.30	34.220			
1,000.00	987.52	968.22	958.02	3.71	2.61	-102.13	153.61	129.82	203.15	197.03	6.12	33.176			
1,100.00	1,080.87	1,063.98	1,051.13	4.33	3.03	-105.79	164.48	149.38	226.97	219.92	7.05	32.193			
1,200.00	1,172.22	1,158.46	1,143.00	5.04	3.44	-109.64	175.20	168.69	253.55	245.48	8.07	31.411			
1,300.00	1,261.31	1,251.41	1,233.37	5.85	3.85	-113.47	185.75	187.67	283.45	274.28	9.17	30.917			
1,400.00	1,347.90	1,342.57	1,322.01	6.79	4.26	-117.12	196.09	206.30	317.12	306.80	10.31	30.744 SF			
1,500.00	1,431.76	1,431.70	1,408.67	7.86	4.65	-120.50	206.21	224.51	354.88	343.39	11.49	30.891			
1,603.26	1,515.23	1,521.33	1,495.82	9.10	5.05	-123.64	216.38	242.82	398.37	385.67	12.71	31.353			
1,700.00	1,591.88	1,604.09	1,576.29	10.35	5.42	-127.24	225.77	259.72	442.06	428.24	13.82	31.982			
1,800.00	1,671.11	1,689.63	1,659.46	11.67	5.81	-130.32	235.48	277.20	488.52	473.58	14.94	32.704			
1,900.00	1,750.34	1,775.17	1,742.63	13.01	6.19	-132.89	245.18	294.67	535.95	519.93	16.03	33.443			
2,000.00	1,829.57	1,860.71	1,825.80	14.36	6.57	-135.06	254.89	312.15	584.13	567.04	17.09	34.172			
2,100.00	1,908.81	1,946.25	1,908.98	15.72	6.96	-136.91	264.60	329.62	632.88	614.73	18.15	34.878			
2,200.00	1,988.04	2,031.79	1,992.15	17.09	7.34	-138.50	274.30	347.10	682.08	662.89	19.19	35.552			
2,300.00	2,067.27	2,117.33	2,075.32	18.46	7.73	-139.89	284.01	364.57	731.63	711.42	20.22	36.191			
2,400.00	2,146.50	2,202.88	2,158.50	19.84	8.11	-141.10	293.72	382.05	781.48	760.24	21.24	36.795			
2,500.00	2,225.73	2,288.42	2,241.67	21.23	8.50	-142.17	303.43	399.52	831.56	809.31	22.26	37.363			
2,600.00	2,304.96	2,373.96	2,324.84	22.62	8.88	-143.13	313.13	417.00	881.85	858.58	23.27	37.898			
2,700.00	2,384.19	2,459.50	2,408.01	24.00	9.27	-143.98	322.84	434.47	932.29	908.02	24.28	38.401			
2,800.00	2,463.42	2,545.04	2,491.19	25.40	9.65	-144.74	332.55	451.95	982.88	957.60	25.28	38.875			
2,900.00	2,542.66	2,630.58	2,574.36	26.79	10.04	-145.43	342.25	469.42	1,033.59	1,007.30	26.29	39.320			
3,000.00	2,621.89	2,716.12	2,657.53	28.18	10.42	-146.06	351.96	486.90	1,084.40	1,057.11	27.29	39.739			
3,100.00	2,701.12	2,801.67	2,740.71	29.58	10.81	-146.63	361.67	504.38	1,135.30	1,107.01	28.29	40.135			
3,200.00	2,780.35	2,887.21	2,823.88	30.98	11.19	-147.15	371.37	521.85	1,186.28	1,156.99	29.29	40.507			
3,300.00	2,859.58	2,972.75	2,907.05	32.38	11.58	-147.63	381.08	539.33	1,237.32	1,207.04	30.28	40.860			
3,400.00	2,938.81	3,058.29	2,990.22	33.78	11.96	-148.08	390.79	556.80	1,288.43	1,257.15	31.28	41.192			
3,500.00	3,018.04	3,143.83	3,073.40	35.18	12.35	-148.49	400.50	574.28	1,339.58	1,307.31	32.27	41.508			
3,600.00	3,097.27	3,229.37	3,156.57	36.58	12.73	-148.87	410.20	591.75	1,390.79	1,357.52	33.27	41.806			
3,700.00	3,176.51	3,314.91	3,239.74	37.98	13.12	-149.22	419.91	609.23	1,442.03	1,407.77	34.26	42.090			
3,800.00	3,255.74	3,400.46	3,322.92	39.38	13.50	-149.55	429.62	626.70	1,493.32	1,458.06	35.25	42.359			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	15.63	106.25	29.72	110.33						
100.00	100.00	100.00	100.00	0.12	0.12	15.63	106.25	29.72	110.33	110.10	0.24	465.494			
200.00	200.00	200.00	200.00	0.48	0.29	15.63	106.25	29.72	110.33	109.56	0.77	143.285			
300.00	300.00	300.00	300.00	0.84	0.47	15.63	106.25	29.72	110.33	109.03	1.30	84.675			
350.00	350.00	350.33	350.32	1.02	0.56	15.29	106.36	29.07	110.26	108.69	1.57	70.069			
398.80	398.79	399.34	399.30	1.19	0.65	-100.36	106.65	27.17	110.17	108.34	1.83	60.139	CC		
400.00	399.99	400.55	400.50	1.19	0.65	-100.41	106.66	27.11	110.17	108.33	1.84	59.925	ES		
500.00	499.85	499.87	499.51	1.54	0.86	-107.02	107.87	19.40	111.19	108.79	2.39	46.435			
600.00	599.29	596.44	595.25	1.90	1.12	-117.75	109.81	7.04	116.88	113.84	3.04	38.469			
700.00	698.04	688.88	686.20	2.28	1.44	-130.13	112.37	-9.25	131.82	128.02	3.80	34.724			
800.00	795.85	776.07	771.16	2.70	1.82	-141.44	115.40	-28.59	159.05	154.46	4.59	34.636	SF		
900.00	892.43	857.17	849.30	3.17	2.23	-150.33	118.75	-50.00	198.77	193.45	5.32	37.345			
1,000.00	987.52	931.62	920.17	3.71	2.67	-156.83	122.28	-72.52	249.53	243.58	5.95	41.934			
1,100.00	1,080.87	1,000.00	984.43	4.33	3.11	-161.55	125.90	-95.60	309.57	303.10	6.47	47.814			
1,200.00	1,172.22	1,059.55	1,039.68	5.04	3.55	-164.81	129.34	-117.53	377.36	370.42	6.94	54.365			
1,300.00	1,261.31	1,113.04	1,088.70	5.85	3.96	-167.18	132.66	-138.68	451.64	444.31	7.33	61.647			
1,400.00	1,347.90	1,159.80	1,131.05	6.79	4.35	-168.88	135.73	-158.27	531.37	523.71	7.66	69.411			
1,500.00	1,431.76	1,200.00	1,167.06	7.86	4.69	-170.05	138.50	-175.93	615.67	607.74	7.93	77.676			
1,603.26	1,515.23	1,235.48	1,198.52	9.10	5.03	-170.83	141.04	-192.13	706.70	698.54	8.16	86.597			
1,700.00	1,591.88	1,264.72	1,224.22	10.35	5.31	-172.18	143.20	-205.92	794.03	785.69	8.34	95.213			
1,800.00	1,671.11	1,300.00	1,254.93	11.67	5.64	-173.57	145.88	-223.06	885.08	876.56	8.52	103.870			
1,900.00	1,750.34	1,319.50	1,271.77	13.01	5.85	-174.26	147.41	-232.78	976.69	968.04	8.65	112.916			
2,000.00	1,829.57	1,344.36	1,293.09	14.36	6.11	-175.06	149.39	-245.41	1,068.92	1,060.13	8.79	121.616			
2,100.00	1,908.81	1,367.72	1,312.96	15.72	6.36	-175.74	151.29	-257.53	1,161.67	1,152.75	8.92	130.265			
2,200.00	1,988.04	1,400.00	1,340.18	17.09	6.70	-176.60	153.98	-274.67	1,254.95	1,245.86	9.09	138.109			
2,300.00	2,067.27	1,400.00	1,340.18	18.46	6.70	-176.60	153.98	-274.67	1,348.58	1,339.49	9.09	148.334			
2,400.00	2,146.50	1,429.99	1,365.20	19.84	7.04	-177.31	156.54	-291.00	1,442.53	1,433.28	9.25	155.954			

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

Cathedral Energy Services

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Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	21.34	94.11	36.76	101.04						
100.00	100.00	100.00	100.00	0.12	0.12	21.34	94.11	36.76	101.04	100.80	0.24	426.278			
116.67	116.67	116.67	116.67	0.18	0.15	21.34	94.11	36.76	101.04	100.71	0.33	310.069	CC		
200.00	200.00	200.00	200.00	0.48	0.29	21.34	94.11	36.76	101.04	100.27	0.77	131.214	ES		
300.00	300.00	296.51	296.47	0.84	0.47	22.35	94.96	39.05	102.74	101.38	1.36	75.587			
350.00	350.00	344.62	344.48	1.02	0.57	23.57	96.02	41.89	104.91	103.22	1.68	62.282			
400.00	399.99	392.58	392.25	1.19	0.68	-89.38	97.50	45.86	108.01	106.00	2.01	53.755			
500.00	499.85	488.05	486.96	1.54	0.95	-87.42	101.68	57.08	116.95	114.27	2.69	43.491			
600.00	599.29	582.77	580.21	1.90	1.29	-86.43	107.45	72.59	129.35	125.94	3.41	37.949			
700.00	698.04	680.04	675.26	2.28	1.67	-86.53	114.66	91.96	144.25	140.20	4.05	35.613			
800.00	795.85	778.73	771.64	2.70	2.07	-88.35	122.06	111.85	159.16	154.45	4.71	33.799			
900.00	892.43	877.01	867.62	3.17	2.47	-91.49	129.44	131.65	174.38	168.91	5.46	31.919			
1,000.00	987.52	974.59	962.93	3.71	2.87	-95.56	136.76	151.32	190.64	184.31	6.33	30.126			
1,100.00	1,080.87	1,071.23	1,057.30	4.33	3.27	-100.22	144.01	170.79	208.81	201.51	7.30	28.591			
1,200.00	1,172.22	1,166.65	1,150.49	5.04	3.67	-105.16	151.17	190.02	229.78	221.40	8.37	27.442			
1,300.00	1,261.31	1,260.59	1,242.23	5.85	4.06	-110.10	158.21	208.95	254.30	244.79	9.51	26.745			
1,400.00	1,347.90	1,352.79	1,332.27	6.79	4.44	-114.84	165.13	227.53	283.01	272.33	10.68	26.511	SF		
1,500.00	1,431.76	1,443.00	1,420.37	7.86	4.82	-119.22	171.90	245.70	316.32	304.48	11.84	26.709			
1,603.26	1,515.23	1,533.80	1,509.05	9.10	5.20	-123.28	178.71	264.00	355.80	342.77	13.03	27.313			
1,700.00	1,591.88	1,617.67	1,590.96	10.35	5.55	-127.49	185.00	280.90	396.21	382.13	14.09	28.126			
1,800.00	1,671.11	1,704.36	1,675.62	11.67	5.92	-131.08	191.51	298.37	439.65	424.51	15.13	29.057			
1,900.00	1,750.34	1,791.06	1,760.29	13.01	6.28	-134.05	198.01	315.84	484.31	468.18	16.14	30.012			
2,000.00	1,829.57	1,877.75	1,844.96	14.36	6.64	-136.54	204.51	333.31	529.90	512.79	17.12	30.955			
2,100.00	1,908.81	1,964.45	1,929.62	15.72	7.01	-138.65	211.02	350.78	576.20	558.12	18.08	31.867			
2,200.00	1,988.04	2,051.14	2,014.29	17.09	7.37	-140.46	217.52	368.25	623.04	604.01	19.03	32.739			
2,300.00	2,067.27	2,137.83	2,098.96	18.46	7.73	-142.02	224.02	385.72	670.32	650.35	19.97	33.567			
2,400.00	2,146.50	2,224.53	2,183.62	19.84	8.10	-143.39	230.53	403.19	717.94	697.04	20.90	34.349			
2,500.00	2,225.73	2,311.22	2,268.29	21.23	8.46	-144.58	237.03	420.66	765.85	744.02	21.83	35.085			
2,600.00	2,304.96	2,397.92	2,352.96	22.62	8.83	-145.64	243.54	438.13	813.98	791.23	22.75	35.779			
2,700.00	2,384.19	2,484.61	2,437.62	24.00	9.19	-146.58	250.04	455.60	862.31	838.64	23.67	36.431			
2,800.00	2,463.42	2,571.31	2,522.29	25.40	9.55	-147.42	256.54	473.07	910.81	886.22	24.59	37.044			
2,900.00	2,542.66	2,658.00	2,606.96	26.79	9.92	-148.18	263.05	490.54	959.44	933.94	25.50	37.622			
3,000.00	2,621.89	2,744.70	2,691.62	28.18	10.28	-148.87	269.55	508.01	1,008.19	981.77	26.42	38.166			
3,100.00	2,701.12	2,831.39	2,776.29	29.58	10.65	-149.49	276.05	525.48	1,057.04	1,029.71	27.33	38.679			
3,200.00	2,780.35	2,918.08	2,860.95	30.98	11.01	-150.06	282.56	542.95	1,105.98	1,077.74	28.24	39.163			
3,300.00	2,859.58	3,004.78	2,945.62	32.38	11.38	-150.59	289.06	560.42	1,155.00	1,125.85	29.15	39.620			
3,400.00	2,938.81	3,091.47	3,030.29	33.78	11.74	-151.07	295.57	577.89	1,204.08	1,174.02	30.06	40.052			
3,500.00	3,018.04	3,178.17	3,114.95	35.18	12.10	-151.51	302.07	595.36	1,253.23	1,222.25	30.97	40.461			
3,600.00	3,097.27	3,264.86	3,199.62	36.58	12.47	-151.92	308.57	612.83	1,302.42	1,270.54	31.88	40.849			
3,700.00	3,176.51	3,351.56	3,284.29	37.98	12.83	-152.30	315.08	630.30	1,351.67	1,318.87	32.79	41.217			
3,800.00	3,255.74	3,438.25	3,368.95	39.38	13.20	-152.65	321.58	647.77	1,400.95	1,367.25	33.70	41.566			
3,900.00	3,334.97	3,524.94	3,453.62	40.78	13.56	-152.98	328.08	665.24	1,450.28	1,415.66	34.61	41.899			
4,000.00	3,414.20	3,611.64	3,538.29	42.19	13.93	-153.29	334.59	682.71	1,499.64	1,464.11	35.52	42.215			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
H04 596 Pad - UWF05A-04 H04 596 - DD - Plan #2															
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	15.57	87.03	24.25	90.34						
100.00	100.00	100.00	100.00	0.12	0.12	15.57	87.03	24.25	90.34	90.10	0.24	381.144			
200.00	200.00	200.00	200.00	0.48	0.29	15.57	87.03	24.25	90.34	89.57	0.77	117.321			
300.00	300.00	300.00	300.00	0.84	0.47	15.57	87.03	24.25	90.34	89.04	1.30	69.331			
350.00	350.00	350.41	350.40	1.02	0.56	15.15	87.09	23.59	90.23	88.65	1.57	57.316			
400.00	399.99	400.71	400.67	1.19	0.65	-100.85	87.27	21.61	90.03	88.19	1.84	48.931			
420.80	420.78	421.56	421.48	1.26	0.69	-102.02	87.39	20.40	90.00	88.05	1.96	46.017	CC, ES		
500.00	499.85	500.21	499.84	1.54	0.86	-108.94	88.00	13.81	90.82	88.43	2.40	37.920			
600.00	599.29	596.96	595.77	1.90	1.12	-121.94	89.17	1.31	96.93	93.89	3.04	31.861			
700.00	698.04	689.61	686.91	2.28	1.45	-136.23	90.72	-15.18	113.50	109.69	3.81	29.781	SF		
800.00	795.85	777.03	772.09	2.70	1.82	-148.37	92.55	-34.76	143.15	138.54	4.60	31.103			
900.00	892.43	858.39	850.47	3.17	2.24	-157.27	94.58	-56.45	185.20	179.89	5.32	34.845			
1,000.00	987.52	933.12	921.59	3.71	2.68	-163.47	96.72	-79.28	237.80	231.87	5.93	40.109			
1,100.00	1,080.87	1,000.00	984.43	4.33	3.11	-167.74	98.86	-102.05	299.17	292.71	6.46	46.299			
1,200.00	1,172.22	1,061.70	1,041.67	5.04	3.56	-170.87	101.00	-124.99	367.89	360.98	6.92	53.201			
1,300.00	1,261.31	1,115.54	1,090.98	5.85	3.98	-173.10	103.02	-146.50	442.82	435.51	7.31	60.599			
1,400.00	1,347.90	1,162.67	1,133.63	6.79	4.38	-174.76	104.89	-166.46	523.00	515.35	7.65	68.404			
1,500.00	1,431.76	1,200.00	1,167.06	7.86	4.70	-175.89	106.44	-183.01	607.61	599.69	7.93	76.663			
1,603.26	1,515.23	1,239.12	1,201.73	9.10	5.07	-177.04	108.13	-201.04	698.85	690.68	8.18	85.482			
1,700.00	1,591.88	1,268.71	1,227.71	10.35	5.35	-178.08	109.45	-215.16	786.32	777.95	8.37	93.988			
1,800.00	1,671.11	1,300.00	1,254.93	11.67	5.65	-179.03	110.89	-230.51	877.42	868.87	8.55	102.656			
1,900.00	1,750.34	1,324.20	1,275.81	13.01	5.90	-179.69	112.03	-242.69	969.12	960.42	8.70	111.359			
2,000.00	1,829.57	1,349.39	1,297.38	14.36	6.17	179.69	113.24	-255.65	1,061.38	1,052.52	8.86	119.861			
2,100.00	1,908.81	1,373.07	1,317.50	15.72	6.42	179.16	114.41	-268.08	1,154.13	1,145.14	9.00	128.293			
2,200.00	1,988.04	1,400.00	1,340.18	17.09	6.71	178.61	115.76	-282.52	1,247.35	1,238.20	9.15	136.307			
2,300.00	2,067.27	1,416.39	1,353.89	18.46	6.89	178.29	116.60	-291.47	1,340.96	1,331.71	9.25	144.971			
2,400.00	2,146.50	1,436.24	1,370.39	19.84	7.11	177.93	117.63	-302.46	1,434.95	1,425.58	9.36	153.230			

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Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
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Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft							
Survey Program: O-MWD													Offset Well Error:		0.00 usft						
Reference													Offset		Semi Major Axis		Distance		Total	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor									
0.00	0.00	0.00	0.00	0.00	0.00	21.82	83.99	33.64	90.48												
100.00	100.00	100.00	100.00	0.12	0.12	21.82	83.99	33.64	90.48	90.24	0.24	381.726									
200.00	200.00	200.00	200.00	0.48	0.29	21.82	83.99	33.64	90.48	89.71	0.77	117.500									
216.67	216.67	216.67	216.67	0.54	0.32	21.82	83.99	33.64	90.48	89.62	0.86	105.347 CC									
300.00	300.00	300.00	300.00	0.84	0.47	21.82	83.99	33.64	90.48	89.18	1.30	69.437 ES									
350.00	350.00	348.74	348.73	1.02	0.55	22.15	84.11	34.25	90.83	89.25	1.58	57.570									
400.00	399.99	397.43	397.39	1.19	0.64	-91.57	84.47	36.07	91.90	90.05	1.86	49.479									
500.00	499.85	494.64	494.31	1.54	0.85	-90.79	85.89	43.36	96.30	93.85	2.45	39.272									
600.00	599.29	591.50	590.37	1.90	1.11	-90.56	88.24	55.43	103.65	100.54	3.11	33.370									
700.00	698.04	687.89	685.23	2.28	1.43	-90.77	91.50	72.17	113.89	110.07	3.82	29.781									
800.00	795.85	787.03	782.31	2.70	1.80	-92.26	95.34	91.90	125.74	121.22	4.52	27.806									
900.00	892.43	885.89	879.11	3.17	2.17	-95.59	99.17	111.57	138.14	132.83	5.30	26.063									
1,000.00	987.52	984.12	975.30	3.71	2.55	-100.18	102.97	131.12	151.87	145.70	6.17	24.604									
1,100.00	1,080.87	1,081.45	1,070.62	4.33	2.93	-105.56	106.74	150.49	167.93	160.80	7.13	23.545									
1,200.00	1,172.22	1,177.62	1,164.79	5.04	3.31	-111.25	110.47	169.63	187.28	179.12	8.15	22.970									
1,300.00	1,261.31	1,272.37	1,257.57	5.85	3.68	-116.86	114.14	188.48	210.73	201.53	9.20	22.909 SF									
1,400.00	1,347.90	1,365.43	1,348.70	6.79	4.05	-122.13	117.75	207.00	238.88	228.64	10.24	23.335									
1,500.00	1,431.76	1,456.55	1,437.93	7.86	4.41	-126.87	121.28	225.14	272.06	260.82	11.25	24.193									
1,603.26	1,515.23	1,548.34	1,527.81	9.10	4.77	-131.14	124.83	243.40	311.74	299.50	12.24	25.463									
1,700.00	1,591.88	1,633.16	1,610.87	10.35	5.11	-135.33	128.12	260.28	352.33	339.20	13.13	26.831									
1,800.00	1,671.11	1,720.83	1,696.72	11.67	5.46	-138.78	131.51	277.73	395.66	381.65	14.01	28.239									
1,900.00	1,750.34	1,808.51	1,782.58	13.01	5.81	-141.58	134.91	295.18	439.98	425.11	14.87	29.589									
2,000.00	1,829.57	1,896.18	1,868.43	14.36	6.15	-143.88	138.31	312.63	485.02	469.30	15.71	30.864									
2,100.00	1,908.81	1,983.86	1,954.28	15.72	6.50	-145.80	141.70	330.08	530.60	514.04	16.55	32.057									
2,200.00	1,988.04	2,071.53	2,040.14	17.09	6.85	-147.42	145.10	347.52	576.58	559.20	17.38	33.169									
2,300.00	2,067.27	2,159.21	2,125.99	18.46	7.20	-148.81	148.50	364.97	622.89	604.68	18.21	34.203									
2,400.00	2,146.50	2,246.88	2,211.85	19.84	7.55	-150.01	151.90	382.42	669.44	650.41	19.04	35.164									
2,500.00	2,225.73	2,334.56	2,297.70	21.23	7.90	-151.05	155.29	399.87	716.20	696.34	19.86	36.057									
2,600.00	2,304.96	2,422.24	2,383.55	22.62	8.25	-151.97	158.69	417.32	763.13	742.44	20.69	36.887									
2,700.00	2,384.19	2,509.91	2,469.41	24.00	8.60	-152.78	162.09	434.77	810.19	788.68	21.51	37.660									
2,800.00	2,463.42	2,597.59	2,555.26	25.40	8.96	-153.51	165.48	452.21	857.37	835.03	22.34	38.382									
2,900.00	2,542.66	2,685.26	2,641.12	26.79	9.31	-154.16	168.88	469.66	904.64	881.48	23.16	39.055									
3,000.00	2,621.89	2,772.94	2,726.97	28.18	9.66	-154.74	172.28	487.11	952.00	928.01	23.99	39.685									
3,100.00	2,701.12	2,860.61	2,812.82	29.58	10.01	-155.27	175.67	504.56	999.43	974.61	24.82	40.275									
3,200.00	2,780.35	2,948.29	2,898.68	30.98	10.36	-155.76	179.07	522.01	1,046.92	1,021.27	25.64	40.829									
3,300.00	2,859.58	3,035.96	2,984.53	32.38	10.71	-156.20	182.47	539.45	1,094.46	1,067.99	26.47	41.349									
3,400.00	2,938.81	3,123.64	3,070.39	33.78	11.06	-156.60	185.86	556.90	1,142.04	1,114.75	27.30	41.839									
3,500.00	3,018.04	3,211.31	3,156.24	35.18	11.41	-156.98	189.26	574.35	1,189.67	1,161.55	28.12	42.300									
3,600.00	3,097.27	3,298.99	3,242.10	36.58	11.76	-157.32	192.66	591.80	1,237.34	1,208.38	28.95	42.736									
3,700.00	3,176.51	3,386.66	3,327.95	37.98	12.11	-157.64	196.05	609.25	1,285.03	1,255.25	29.78	43.148									
3,800.00	3,255.74	3,474.34	3,413.80	39.38	12.46	-157.93	199.45	626.70	1,332.76	1,302.15	30.61	43.538									
3,900.00	3,334.97	3,562.01	3,499.66	40.78	12.81	-158.21	202.85	644.14	1,380.51	1,349.07	31.44	43.908									
4,000.00	3,414.20	3,649.69	3,585.51	42.19	13.16	-158.47	206.24	661.59	1,428.28	1,396.01	32.27	44.259									
4,100.00	3,493.43	3,737.36	3,671.37	43.59	13.52	-158.71	209.64	679.04	1,476.08	1,442.97	33.10	44.592									

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	23.50	64.77	28.16	70.63						
100.00	100.00	100.00	100.00	0.12	0.12	23.50	64.77	28.16	70.63	70.39	0.24	297.970			
200.00	200.00	200.00	200.00	0.48	0.29	23.50	64.77	28.16	70.63	69.86	0.77	91.719			
216.67	216.67	216.67	216.67	0.54	0.32	23.50	64.77	28.16	70.63	69.77	0.86	82.233 CC			
300.00	300.00	300.00	300.00	0.84	0.47	23.50	64.77	28.16	70.63	69.32	1.30	54.202			
350.00	350.00	349.24	349.23	1.02	0.55	23.97	64.78	28.79	70.89	69.32	1.58	44.994 ES			
400.00	399.99	398.43	398.39	1.19	0.64	-89.48	64.81	30.70	71.72	69.87	1.85	38.774			
500.00	499.85	496.69	496.34	1.54	0.85	-88.08	64.92	38.28	75.04	72.61	2.43	30.842			
600.00	599.29	594.69	593.53	1.90	1.12	-87.23	65.11	50.85	80.55	77.46	3.08	26.118			
700.00	698.04	692.39	689.63	2.28	1.46	-86.86	65.38	68.32	88.19	84.37	3.81	23.116			
800.00	795.85	791.86	786.96	2.70	1.83	-88.11	65.69	88.86	96.88	92.33	4.55	21.312			
900.00	892.43	891.19	884.15	3.17	2.21	-91.95	66.00	109.38	105.71	100.35	5.35	19.741			
1,000.00	987.52	990.01	980.84	3.71	2.59	-97.66	66.30	129.79	115.60	109.34	6.26	18.469			
1,100.00	1,080.87	1,088.05	1,076.76	4.33	2.98	-104.55	66.61	150.04	127.79	120.55	7.24	17.647			
1,200.00	1,172.22	1,185.02	1,171.64	5.04	3.37	-111.91	66.91	170.07	143.57	135.32	8.26	17.386 SF			
1,300.00	1,261.31	1,280.67	1,265.23	5.85	3.75	-119.10	67.21	189.83	163.98	154.72	9.26	17.717			
1,400.00	1,347.90	1,374.74	1,357.27	6.79	4.13	-125.66	67.50	209.26	189.67	179.47	10.20	18.598			
1,500.00	1,431.76	1,466.97	1,447.51	7.86	4.50	-131.39	67.79	228.30	220.93	209.85	11.08	19.948			
1,603.26	1,515.23	1,560.00	1,538.54	9.10	4.88	-136.36	68.08	247.52	259.07	247.15	11.92	21.741			
1,700.00	1,591.88	1,646.03	1,622.71	10.35	5.22	-140.83	68.35	265.29	298.35	285.69	12.66	23.568			
1,800.00	1,671.11	1,734.96	1,709.72	11.67	5.58	-144.40	68.63	283.66	340.24	326.84	13.41	25.381			
1,900.00	1,750.34	1,823.89	1,796.73	13.01	5.94	-147.20	68.90	302.02	383.01	368.87	14.14	27.079			
2,000.00	1,829.57	1,912.81	1,883.74	14.36	6.30	-149.44	69.18	320.39	426.40	411.52	14.88	28.653			
2,100.00	1,908.81	2,001.74	1,970.74	15.72	6.66	-151.28	69.46	338.76	470.24	454.62	15.62	30.105			
2,200.00	1,988.04	2,090.66	2,057.75	17.09	7.02	-152.81	69.74	357.13	514.40	498.04	16.36	31.441			
2,300.00	2,067.27	2,179.59	2,144.76	18.46	7.39	-154.11	70.01	375.49	558.82	541.72	17.10	32.671			
2,400.00	2,146.50	2,268.52	2,231.77	19.84	7.75	-155.21	70.29	393.86	603.44	585.59	17.85	33.805			
2,500.00	2,225.73	2,357.44	2,318.78	21.23	8.11	-156.16	70.57	412.23	648.21	629.61	18.60	34.851			
2,600.00	2,304.96	2,446.37	2,405.79	22.62	8.47	-156.99	70.85	430.60	693.11	673.76	19.35	35.817			
2,700.00	2,384.19	2,535.30	2,492.79	24.00	8.83	-157.72	71.12	448.96	738.11	718.01	20.11	36.712			
2,800.00	2,463.42	2,624.22	2,579.80	25.40	9.19	-158.37	71.40	467.33	783.20	762.34	20.86	37.542			
2,900.00	2,542.66	2,713.15	2,666.81	26.79	9.55	-158.95	71.68	485.70	828.36	806.74	21.62	38.314			
3,000.00	2,621.89	2,802.07	2,753.82	28.18	9.91	-159.47	71.95	504.07	873.58	851.20	22.38	39.033			
3,100.00	2,701.12	2,891.00	2,840.83	29.58	10.28	-159.93	72.23	522.43	918.85	895.71	23.14	39.704			
3,200.00	2,780.35	2,979.93	2,927.83	30.98	10.64	-160.36	72.51	540.80	964.17	940.26	23.91	40.331			
3,300.00	2,859.58	3,068.85	3,014.84	32.38	11.00	-160.74	72.79	559.17	1,009.52	984.85	24.67	40.919			
3,400.00	2,938.81	3,157.78	3,101.85	33.78	11.36	-161.09	73.06	577.54	1,054.91	1,029.47	25.44	41.470			
3,500.00	3,018.04	3,246.71	3,188.86	35.18	11.72	-161.42	73.34	595.90	1,100.32	1,074.12	26.21	41.989			
3,600.00	3,097.27	3,335.63	3,275.87	36.58	12.08	-161.72	73.62	614.27	1,145.77	1,118.79	26.97	42.477			
3,700.00	3,176.51	3,424.56	3,362.88	37.98	12.45	-161.99	73.90	632.64	1,191.23	1,163.49	27.74	42.938			
3,800.00	3,255.74	3,513.48	3,449.88	39.38	12.81	-162.25	74.17	651.01	1,236.72	1,208.20	28.51	43.373			
3,900.00	3,334.97	3,602.41	3,536.89	40.78	13.17	-162.48	74.45	669.37	1,282.22	1,252.93	29.29	43.784			
4,000.00	3,414.20	3,691.34	3,623.90	42.19	13.53	-162.70	74.73	687.74	1,327.74	1,297.68	30.06	44.174			
4,100.00	3,493.43	3,780.26	3,710.91	43.59	13.89	-162.91	75.00	706.11	1,373.27	1,342.44	30.83	44.543			
4,200.00	3,572.66	3,869.19	3,797.92	44.99	14.25	-163.10	75.28	724.48	1,418.82	1,387.22	31.60	44.895			
4,300.00	3,651.89	3,958.12	3,884.93	46.40	14.62	-163.28	75.56	742.84	1,464.38	1,432.00	32.38	45.228			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	26.48	45.55	22.68	50.88	50.64	0.24	214.667			
100.00	100.00	100.00	100.00	0.12	0.12	26.48	45.55	22.68	50.88	50.11	0.77	66.077			
200.00	200.00	200.00	200.00	0.48	0.29	26.48	45.55	22.68	50.88	50.02	0.86	59.243 CC			
216.67	216.67	216.67	216.67	0.54	0.32	26.48	45.55	22.68	50.88	49.58	1.30	39.049			
300.00	300.00	300.00	300.00	0.84	0.47	26.48	45.55	22.68	50.88	49.39	1.57	32.406			
350.00	350.00	349.84	349.83	1.02	0.56	27.20	45.32	23.30	50.96	49.35	1.84	27.851 ES			
400.00	399.99	399.64	399.59	1.19	0.65	-85.69	44.66	25.13	51.19	50.23	2.41	21.815			
500.00	499.85	498.49	498.14	1.54	0.86	-83.15	42.65	32.51	52.65	52.73	3.07	18.180			
600.00	599.29	597.17	595.99	1.90	1.12	-81.32	40.18	44.93	55.80	56.77	3.82	15.863			
700.00	698.04	695.64	692.85	2.28	1.47	-80.24	37.24	62.33	60.59	61.43	4.57	14.440			
800.00	795.85	795.30	790.29	2.70	1.84	-81.36	33.99	82.99	66.00	65.56	5.40	13.147			
900.00	892.43	894.97	887.73	3.17	2.23	-86.47	30.74	103.69	70.96	70.38	6.32	12.131			
1,000.00	987.52	994.20	984.75	3.71	2.63	-94.69	27.50	124.30	76.70	77.78	7.30	11.652 SF			
1,100.00	1,080.87	1,092.72	1,081.07	4.33	3.02	-104.91	24.29	144.76	85.08	89.72	8.24	11.888			
1,200.00	1,172.22	1,190.27	1,176.44	5.04	3.42	-115.65	21.10	165.01	97.96	107.54	9.07	12.862			
1,300.00	1,261.31	1,286.57	1,270.58	5.85	3.81	-125.55	17.96	185.01	116.61	131.75	9.78	14.473			
1,400.00	1,347.90	1,381.36	1,363.26	6.79	4.19	-133.89	14.87	204.70	141.52	162.23	10.41	16.579			
1,500.00	1,431.76	1,474.38	1,454.20	7.86	4.57	-140.56	11.83	224.01	172.64	199.93	11.03	19.130			
1,603.26	1,515.23	1,568.30	1,546.02	9.10	4.96	-145.92	8.76	243.52	210.95	238.69	11.60	21.584			
1,700.00	1,591.88	1,655.20	1,630.98	10.35	5.31	-150.25	5.93	261.56	250.29	279.70	12.20	23.931			
1,800.00	1,671.11	1,745.02	1,718.80	11.67	5.68	-153.51	3.00	280.22	291.89	321.28	13.45	28.010			
1,900.00	1,750.34	1,834.85	1,806.62	13.01	6.05	-155.97	0.06	298.87	334.09	363.25	14.09	29.771			
2,000.00	1,829.57	1,924.68	1,894.44	14.36	6.42	-157.88	-2.87	317.52	376.70	405.48	14.75	31.369			
2,100.00	1,908.81	2,014.50	1,982.25	15.72	6.79	-159.41	-5.80	336.18	419.57	447.91	15.41	32.824			
2,200.00	1,988.04	2,104.33	2,070.07	17.09	7.16	-160.65	-8.73	354.83	462.65	490.47	16.08	34.151			
2,300.00	2,067.27	2,194.15	2,157.89	18.46	7.53	-161.69	-11.66	373.48	505.88	533.14	16.76	35.365			
2,400.00	2,146.50	2,283.98	2,245.71	19.84	7.90	-162.56	-14.59	392.14	549.23	575.90	17.44	36.479			
2,500.00	2,225.73	2,373.80	2,333.53	21.23	8.27	-163.31	-17.53	410.79	592.66	618.72	18.12	37.503			
2,600.00	2,304.96	2,463.63	2,421.35	22.62	8.64	-163.95	-20.46	429.44	636.16	661.60	18.81	38.448			
2,700.00	2,384.19	2,553.45	2,509.17	24.00	9.01	-164.52	-23.39	448.10	679.72	704.51	19.50	39.322			
2,800.00	2,463.42	2,643.28	2,596.98	25.40	9.38	-165.01	-26.32	466.75	723.33	747.47	20.20	40.133			
2,900.00	2,542.66	2,733.11	2,684.80	26.79	9.75	-165.45	-29.25	485.40	766.97	790.45	20.90	40.886			
3,000.00	2,621.89	2,822.93	2,772.62	28.18	10.12	-165.84	-32.18	504.06	810.65	833.46	21.60	41.587			
3,100.00	2,701.12	2,912.76	2,860.44	29.58	10.49	-166.19	-35.12	522.71	854.36	876.49	22.30	42.242			
3,200.00	2,780.35	3,002.58	2,948.26	30.98	10.86	-166.51	-38.05	541.36	898.09	919.54	23.00	42.855			
3,300.00	2,859.58	3,092.41	3,036.08	32.38	11.23	-166.80	-40.98	560.02	941.84	962.60	23.70	43.429			
3,400.00	2,938.81	3,182.23	3,123.90	33.78	11.60	-167.06	-43.91	578.67	985.60	1,005.68	24.41	43.968			
3,500.00	3,018.04	3,272.06	3,211.71	35.18	11.97	-167.30	-46.84	597.32	1,029.39	1,048.77	25.11	44.475			
3,600.00	3,097.27	3,361.89	3,299.53	36.58	12.34	-167.52	-49.77	615.98	1,073.18	1,091.87	25.82	44.953			
3,700.00	3,176.51	3,451.71	3,387.35	37.98	12.72	-167.73	-52.71	634.63	1,116.99	1,134.99	26.53	45.404			
3,800.00	3,255.74	3,541.54	3,475.17	39.38	13.09	-167.91	-55.64	653.28	1,160.81	1,178.10	27.24	45.830			
3,900.00	3,334.97	3,631.36	3,562.99	40.78	13.46	-168.09	-58.57	671.94	1,204.64	1,221.23	27.95	46.234			
4,000.00	3,414.20	3,721.19	3,650.81	42.19	13.83	-168.25	-61.50	690.59	1,248.47	1,264.36	28.66	46.617			
4,100.00	3,493.43	3,811.01	3,738.63	43.59	14.20	-168.40	-64.43	709.24	1,292.32	1,307.50	29.37	46.980			
4,200.00	3,572.66	3,900.84	3,826.44	44.99	14.57	-168.54	-67.36	727.90	1,336.17	1,350.65	30.09	47.325			
4,300.00	3,651.89	3,990.67	3,914.26	46.40	14.94	-168.67	-70.30	746.55	1,380.02	1,393.80	30.80	47.653			
4,400.00	3,731.12	4,080.49	4,002.08	47.80	15.31	-168.80	-73.23	765.20	1,423.88	1,436.95					
4,500.00	3,810.36	4,170.32	4,089.90	49.20	15.68	-168.92	-76.16	783.86	1,467.75						

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: O-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
0.00	0.00	0.00	0.00	0.00	0.00	29.18	36.42	20.34	41.71	41.47	0.24	175.977										
100.00	100.00	100.00	100.00	0.12	0.12	29.18	36.42	20.34	41.71	41.47	0.77	54.168	CC									
200.00	200.00	200.00	200.00	0.48	0.29	29.18	36.42	20.34	41.71	40.94	1.31	32.044										
300.00	300.00	299.78	299.76	0.84	0.47	31.45	35.75	21.87	41.91	40.60	1.60	26.570										
350.00	350.00	349.52	349.42	1.02	0.57	35.10	34.67	24.37	42.38	40.79	1.89	22.909										
400.00	399.99	399.13	398.87	1.19	0.68	-74.85	33.08	28.04	43.21	41.32	2.54	17.952										
500.00	499.85	498.11	497.13	1.54	0.94	-66.74	28.38	38.89	45.61	43.07	3.29	14.838										
600.00	599.29	596.75	594.31	1.90	1.28	-59.67	21.70	54.33	48.87	45.58	4.05	12.962										
700.00	698.04	695.78	690.99	2.28	1.68	-54.09	13.19	73.98	52.49	48.44	4.75	11.308										
800.00	795.85	795.76	788.43	2.70	2.09	-52.86	4.28	94.53	53.76	49.01	5.54	9.384										
900.00	892.43	895.68	885.81	3.17	2.51	-56.29	-4.61	115.08	51.97	46.43	6.50	7.384										
1,000.00	987.52	995.28	982.88	3.71	2.94	-65.40	-13.48	135.55	47.97	41.47	7.66	5.787										
1,100.00	1,080.87	1,094.28	1,079.36	4.33	3.36	-82.23	-22.29	155.90	44.34	36.68	8.02	5.490	ES									
1,129.91	1,108.42	1,123.74	1,108.07	4.54	3.49	-88.87	-24.92	161.96	44.04	36.02	8.67	5.326	SF									
1,200.00	1,172.22	1,192.41	1,175.00	5.04	3.78	-106.10	-31.03	176.08	46.18	37.51	9.03	6.447										
1,300.00	1,261.31	1,289.41	1,269.53	5.85	4.20	-128.89	-39.67	196.02	58.23	49.20	9.12	8.820										
1,400.00	1,347.90	1,385.00	1,362.69	6.79	4.61	-144.57	-48.18	215.67	80.47	71.35	9.33	11.871										
1,500.00	1,431.76	1,478.92	1,454.23	7.86	5.02	-154.24	-56.54	234.98	110.72	101.39	9.69	15.353										
1,603.26	1,515.23	1,573.88	1,546.78	9.10	5.43	-160.45	-64.99	254.50	148.72	139.03	10.12	18.535										
1,700.00	1,591.88	1,661.81	1,632.47	10.35	5.81	-164.46	-72.82	272.58	187.61	177.49	10.63	21.478										
1,800.00	1,671.11	1,752.69	1,721.04	11.67	6.20	-167.17	-80.91	291.26	228.35	217.72	11.18	24.093										
1,900.00	1,750.34	1,843.57	1,809.61	13.01	6.60	-169.06	-89.00	309.94	269.39	258.20	11.76	26.422										
2,000.00	1,829.57	1,934.46	1,898.19	14.36	6.99	-170.45	-97.09	328.63	310.60	298.85	12.35	28.503										
2,100.00	1,908.81	2,025.34	1,986.76	15.72	7.39	-171.52	-105.19	347.31	351.94	339.59	12.95	30.371										
2,200.00	1,988.04	2,116.23	2,075.33	17.09	7.78	-172.36	-113.28	365.99	393.35	380.40	13.57	32.054										
2,300.00	2,067.27	2,207.11	2,163.91	18.46	8.18	-173.04	-121.37	384.68	434.82	421.26	14.19	33.576										
2,400.00	2,146.50	2,297.99	2,252.48	19.84	8.57	-173.61	-129.46	403.36	476.34	462.15	14.81	34.959										
2,500.00	2,225.73	2,388.88	2,341.06	21.23	8.97	-174.08	-137.55	422.05	517.88	503.07	15.45	36.220										
2,600.00	2,304.96	2,479.76	2,429.63	22.62	9.36	-174.49	-145.64	440.73	559.46	544.01	16.08	37.374										
2,700.00	2,384.19	2,570.65	2,518.20	24.00	9.76	-174.83	-153.73	459.41	601.05	584.96	16.72	38.433										
2,800.00	2,463.42	2,661.53	2,606.78	25.40	10.15	-175.14	-161.83	478.10	642.65	625.93	17.36	39.407										
2,900.00	2,542.66	2,752.41	2,695.35	26.79	10.55	-175.40	-169.92	496.78	684.27	666.91	18.01	40.308										
3,000.00	2,621.89	2,843.30	2,783.93	28.18	10.94	-175.64	-178.01	515.46	725.91	707.90	18.66	41.141										
3,100.00	2,701.12	2,934.18	2,872.50	29.58	11.34	-175.85	-186.10	534.15	767.55	748.89	19.31	41.915										
3,200.00	2,780.35	3,025.07	2,961.07	30.98	11.74	-176.04	-194.19	552.83	809.19	789.89	19.96	42.636										
3,300.00	2,859.58	3,115.95	3,049.65	32.38	12.13	-176.21	-202.28	571.52	850.85	830.89	20.61	43.308										
3,400.00	2,938.81	3,206.83	3,138.22	33.78	12.53	-176.36	-210.37	590.20	892.51	871.90	21.26	43.936										
3,500.00	3,018.04	3,297.72	3,226.80	35.18	12.92	-176.50	-218.47	608.88	934.17	912.91	21.92	44.525										
3,600.00	3,097.27	3,388.60	3,315.37	36.58	13.32	-176.63	-226.56	627.57	975.84	953.93	22.57	45.077										
3,700.00	3,176.51	3,479.49	3,403.94	37.98	13.71	-176.75	-234.65	646.25	1,017.52	994.94	23.23	45.597										
3,800.00	3,255.74	3,570.37	3,492.52	39.38	14.11	-176.86	-242.74	664.93	1,059.19	1,035.96	23.89	46.086										
3,900.00	3,334.97	3,661.25	3,581.09	40.78	14.50	-176.96	-250.83	683.62	1,100.87	1,076.98	24.55	46.548										
4,000.00	3,414.20	3,752.14	3,669.67	42.19	14.90	-177.05	-258.92	702.30	1,142.55	1,118.01	25.21	46.984										
4,100.00	3,493.43	3,843.02	3,758.24	43.59	15.30	-177.14	-267.01	720.99	1,184.24	1,159.03	25.86	47.397										
4,200.00	3,572.66	3,933.91	3,846.81	44.99	15.69	-177.22	-275.11	739.67	1,225.92	1,200.06	26.53	47.789										
4,300.00	3,651.89	4,024.79	3,935.39	46.40	16.09	-177.29	-283.20	758.35	1,267.61	1,241.08	27.19	48.160										
4,400.00	3,731.12	4,115.67	4,023.96	47.80	16.48	-177.36	-291.29	777.04	1,309.30	1,282.11	27.85	48.513										
4,500.00	3,810.36	4,206.56	4,112.54	49.20	16.88	-177.43	-299.38	795.72	1,350.99	1,323.14	28.51	48.849										
4,600.00	3,889.59	4,297.44	4,201.11	50.61	17.27	-177.49	-307.47	814.41	1,392.68	1,364.17	29.17	49.169										
4,700.00	3,968.82	4,388.33	4,289.68	52.01	17.67	-177.55	-315.56	833.09	1,434.38	1,405.20	29.84	49.474										
4,800.00	4,048.05	4,479.21	4,378.26	53.42	18.07	-177.61	-323.65	851.77	1,476.07	1,446.24												

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
H04 596 Pad - UWF06B-04 H04 596 - DD - Plan #2															
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	15.47	67.81	18.77	70.36						
100.00	100.00	100.00	100.00	0.12	0.12	15.47	67.81	18.77	70.36	70.12	0.24	296.847			
200.00	200.00	200.00	200.00	0.48	0.29	15.47	67.81	18.77	70.36	69.59	0.77	91.374			
300.00	300.00	300.77	300.72	0.84	0.48	13.35	67.91	16.12	69.80	68.48	1.32	52.930			
350.00	350.00	350.98	350.82	1.02	0.59	10.67	68.03	12.81	69.23	67.62	1.61	43.016			
399.44	399.43	400.35	399.98	1.19	0.70	-107.92	68.19	8.28	68.89	67.00	1.89	36.496 CC			
400.00	399.99	400.91	400.54	1.19	0.70	-107.98	68.19	8.22	68.89	67.00	1.89	36.429 ES			
500.00	499.85	499.09	497.87	1.54	0.98	-122.11	68.66	-4.58	71.80	69.27	2.53	28.350			
600.00	599.29	593.85	591.07	1.90	1.33	-139.30	69.28	-21.67	84.74	81.40	3.35	25.325 SF			
700.00	698.04	683.97	678.81	2.28	1.74	-153.74	70.02	-42.18	111.26	107.06	4.20	26.483			
800.00	795.85	768.46	760.11	2.70	2.19	-163.71	70.85	-65.15	150.58	145.62	4.96	30.387			
900.00	892.43	846.64	834.36	3.17	2.67	-170.25	71.74	-89.58	200.55	194.95	5.60	35.818			
1,000.00	987.52	918.07	901.27	3.71	3.15	-174.60	72.65	-114.55	259.35	253.20	6.15	42.143			
1,100.00	1,080.87	982.56	960.85	4.33	3.64	-177.64	73.54	-139.22	325.62	318.98	6.64	49.034			
1,200.00	1,172.22	1,040.11	1,013.28	5.04	4.11	-179.85	74.40	-162.92	398.25	391.18	7.07	56.351			
1,300.00	1,261.31	1,100.00	1,067.06	5.85	4.62	178.16	75.36	-189.25	476.43	469.02	7.41	64.281			
1,400.00	1,347.90	1,135.12	1,098.20	6.79	4.96	177.01	75.95	-205.47	559.05	551.29	7.76	72.069			
1,500.00	1,431.76	1,173.16	1,131.59	7.86	5.33	175.75	76.61	-223.69	645.72	637.69	8.03	80.416			
1,603.26	1,515.23	1,206.65	1,160.68	9.10	5.65	174.48	77.21	-240.26	738.67	730.41	8.26	89.401			
1,700.00	1,591.88	1,245.00	1,193.83	10.35	6.03	173.80	77.91	-259.54	827.22	818.75	8.47	97.618			
1,800.00	1,671.11	1,285.08	1,228.47	11.67	6.42	173.22	78.64	-279.69	918.77	910.08	8.69	105.672			
1,900.00	1,750.34	1,325.15	1,263.10	13.01	6.81	172.75	79.37	-299.83	1,010.34	1,001.41	8.93	113.194			
2,000.00	1,829.57	1,365.23	1,297.74	14.36	7.21	172.36	80.10	-319.98	1,101.91	1,092.74	9.17	120.207			
2,100.00	1,908.81	1,405.30	1,332.37	15.72	7.60	172.03	80.83	-340.12	1,193.49	1,184.07	9.42	126.735			
2,200.00	1,988.04	1,445.38	1,367.01	17.09	7.99	171.74	81.56	-360.27	1,285.07	1,275.40	9.68	132.805			
2,300.00	2,067.27	1,485.45	1,401.65	18.46	8.39	171.49	82.29	-380.41	1,376.66	1,366.72	9.94	138.445			
2,400.00	2,146.50	1,525.53	1,436.28	19.84	8.78	171.27	83.02	-400.56	1,468.26	1,458.04	10.22	143.684			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	15.31	48.57	13.30	50.36						
100.00	100.00	100.00	100.00	0.12	0.12	15.31	48.57	13.30	50.36	50.12	0.24	212.446			
200.00	200.00	200.00	200.00	0.48	0.29	15.31	48.57	13.30	50.36	49.59	0.77	65.394			
300.00	300.00	301.60	301.55	0.84	0.48	12.85	47.47	10.83	48.71	47.35	1.36	35.766			
350.00	350.00	352.22	352.06	1.02	0.59	9.55	46.10	7.76	46.80	45.12	1.67	27.953			
400.00	399.99	402.58	402.20	1.19	0.70	-110.67	44.21	3.49	44.62	42.66	1.96	22.742			
467.47	467.40	469.78	468.89	1.42	0.90	-124.27	40.84	-4.08	42.99	40.65	2.34	18.345	CC, ES		
500.00	499.85	501.77	500.51	1.54	0.99	-132.77	38.90	-8.44	43.57	41.05	2.53	17.231			
600.00	599.29	597.92	595.05	1.90	1.34	-159.57	31.78	-24.44	55.21	51.89	3.32	16.640	SF		
700.00	698.04	692.46	687.59	2.28	1.70	-176.69	23.92	-42.11	81.01	76.97	4.04	20.062			
800.00	795.85	785.37	778.53	2.70	2.06	-174.77	16.20	-59.48	115.36	110.74	4.63	24.938			
900.00	892.43	876.38	867.62	3.17	2.42	170.31	8.63	-76.49	155.72	150.54	5.18	30.070			
1,000.00	987.52	965.26	954.62	3.71	2.77	167.84	1.24	-93.11	201.13	195.40	5.73	35.102			
1,100.00	1,080.87	1,051.76	1,039.28	4.33	3.11	166.37	-5.95	-109.28	251.16	244.87	6.29	39.937			
1,200.00	1,172.22	1,135.63	1,121.39	5.04	3.45	165.46	-12.93	-124.96	305.56	298.70	6.86	44.561			
1,300.00	1,261.31	1,216.66	1,200.70	5.85	3.77	164.86	-19.66	-140.11	364.14	356.71	7.43	48.992			
1,400.00	1,347.90	1,294.62	1,277.01	6.79	4.08	164.41	-26.15	-154.68	426.74	418.73	8.01	53.255			
1,500.00	1,431.76	1,369.29	1,350.10	7.86	4.38	164.05	-32.36	-168.64	493.21	484.61	8.60	57.382			
1,603.26	1,515.23	1,442.74	1,421.99	9.10	4.67	163.69	-38.46	-182.37	565.70	556.51	9.19	61.537			
1,700.00	1,591.88	1,509.73	1,487.57	10.35	4.94	164.13	-44.03	-194.90	635.41	625.67	9.74	65.205			
1,800.00	1,671.11	1,578.98	1,555.36	11.67	5.22	164.50	-49.79	-207.84	707.49	697.18	10.31	68.600			
1,900.00	1,750.34	1,648.24	1,623.15	13.01	5.50	164.81	-55.55	-220.79	779.58	768.69	10.89	71.585			
2,000.00	1,829.57	1,717.49	1,690.93	14.36	5.78	165.06	-61.31	-233.74	851.67	840.20	11.47	74.223			
2,100.00	1,908.81	1,786.74	1,758.72	15.72	6.05	165.27	-67.07	-246.68	923.78	911.71	12.07	76.566			
2,200.00	1,988.04	1,856.00	1,826.51	17.09	6.33	165.45	-72.82	-259.63	995.89	983.23	12.66	78.658			
2,300.00	2,067.27	1,925.25	1,894.30	18.46	6.61	165.61	-78.58	-272.57	1,068.00	1,054.74	13.26	80.535			
2,400.00	2,146.50	1,994.50	1,962.09	19.84	6.89	165.74	-84.34	-285.52	1,140.12	1,126.25	13.87	82.225			
2,500.00	2,225.73	2,063.75	2,029.87	21.23	7.17	165.86	-90.10	-298.47	1,212.23	1,197.76	14.47	83.756			
2,600.00	2,304.96	2,133.01	2,097.66	22.62	7.45	165.97	-95.86	-311.41	1,284.35	1,269.27	15.08	85.146			
2,700.00	2,384.19	2,202.26	2,165.45	24.00	7.72	166.07	-101.62	-324.36	1,356.48	1,340.78	15.70	86.414			
2,800.00	2,463.42	2,271.51	2,233.24	25.40	8.00	166.15	-107.37	-337.31	1,428.60	1,412.29	16.31	87.574			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	15.46	96.14	26.60	99.75						
100.00	100.00	100.00	100.00	0.12	0.12	15.46	96.14	26.60	99.75	99.51	0.24	420.829			
200.00	200.00	200.00	200.00	0.48	0.29	15.46	96.14	26.60	99.75	98.98	0.77	129.537			
300.00	300.00	300.00	300.00	0.84	0.47	15.46	96.14	26.60	99.75	98.44	1.30	76.550			
350.00	350.00	350.00	350.00	1.02	0.55	15.46	96.14	26.60	99.75	98.18	1.57	63.552 CC			
400.00	399.99	399.99	399.99	1.19	0.64	-99.24	96.14	26.60	99.85	98.02	1.83	54.557 ES			
500.00	499.85	496.98	496.94	1.54	0.81	-103.17	97.88	24.85	102.22	99.85	2.37	43.154			
600.00	599.29	595.16	594.84	1.90	1.01	-111.77	101.84	18.88	108.74	105.80	2.94	37.034			
700.00	698.04	690.10	689.08	2.28	1.25	-123.09	106.33	8.37	121.63	118.05	3.58	33.983			
800.00	795.85	780.44	778.14	2.70	1.54	-134.45	111.20	-5.93	144.58	140.30	4.28	33.783 SF			
900.00	892.43	869.02	864.93	3.17	1.84	-144.12	116.37	-22.87	178.40	173.51	4.89	36.456			
1,000.00	987.52	956.00	950.13	3.71	2.16	-151.25	121.47	-39.63	220.46	215.03	5.42	40.640			
1,100.00	1,080.87	1,040.27	1,032.68	4.33	2.47	-156.41	126.41	-55.87	269.26	263.35	5.92	45.512			
1,200.00	1,172.22	1,121.63	1,112.37	5.04	2.78	-160.18	131.17	-71.54	323.86	317.48	6.39	50.710			
1,300.00	1,261.31	1,199.83	1,188.96	5.85	3.07	-162.97	135.76	-86.61	383.60	376.76	6.84	56.050			
1,400.00	1,347.90	1,274.66	1,262.27	6.79	3.36	-165.08	140.14	-101.03	448.00	440.71	7.29	61.442			
1,500.00	1,431.76	1,345.92	1,332.07	7.86	3.64	-166.67	144.32	-114.76	516.67	508.94	7.73	66.851			
1,603.26	1,515.23	1,415.56	1,400.28	9.10	3.91	-167.92	148.40	-128.17	591.74	583.57	8.17	72.448			
1,700.00	1,591.88	1,478.85	1,462.27	10.35	4.16	-169.43	152.11	-140.37	664.05	655.48	8.57	77.522			
1,800.00	1,671.11	1,544.27	1,526.35	11.67	4.41	-170.69	155.94	-152.97	738.97	729.99	8.97	82.358			
1,900.00	1,750.34	1,609.70	1,590.44	13.01	4.67	-171.72	159.77	-165.58	814.02	804.63	9.39	86.717			
2,000.00	1,829.57	1,675.12	1,654.52	14.36	4.92	-172.58	163.61	-178.18	889.17	879.36	9.81	90.652			
2,100.00	1,908.81	1,740.55	1,718.61	15.72	5.18	-173.31	167.44	-190.79	964.39	954.16	10.24	94.214			
2,200.00	1,988.04	1,805.97	1,782.69	17.09	5.44	-173.94	171.27	-203.39	1,039.68	1,029.01	10.67	97.444			
2,300.00	2,067.27	1,871.39	1,846.77	18.46	5.70	-174.48	175.11	-216.00	1,115.01	1,103.90	11.11	100.381			
2,400.00	2,146.50	1,936.82	1,910.86	19.84	5.95	-174.95	178.94	-228.60	1,190.37	1,178.82	11.55	103.059			
2,500.00	2,225.73	2,002.24	1,974.94	21.23	6.21	-175.37	182.77	-241.21	1,265.77	1,253.78	12.00	105.507			
2,600.00	2,304.96	2,067.67	2,039.02	22.62	6.47	-175.74	186.61	-253.82	1,341.20	1,328.75	12.45	107.751			
2,700.00	2,384.19	2,133.09	2,103.11	24.00	6.73	-176.07	190.44	-266.42	1,416.64	1,403.74	12.90	109.812			
2,800.00	2,463.42	2,198.51	2,167.19	25.40	6.99	-176.37	194.27	-279.03	1,492.11	1,478.75	13.36	111.711			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: O-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
0.00	0.00	0.00	0.00	0.00	0.00	22.68	74.89	31.29	81.16													
100.00	100.00	100.00	100.00	0.12	0.12	22.68	74.89	31.29	81.16	80.92	0.24	342.417										
116.67	116.67	116.67	116.67	0.18	0.15	22.68	74.89	31.29	81.16	80.84	0.33	249.070	CC									
200.00	200.00	200.00	200.00	0.48	0.29	22.68	74.89	31.29	81.16	80.39	0.77	105.401	ES									
300.00	300.00	298.17	298.13	0.84	0.47	24.27	74.97	33.81	82.27	80.93	1.33	61.733										
350.00	350.00	347.10	346.95	1.02	0.58	26.20	75.08	36.95	83.73	82.09	1.64	50.999										
400.00	399.99	395.88	395.54	1.19	0.69	-85.92	75.23	41.32	85.90	83.94	1.95	43.983										
500.00	499.85	493.11	491.96	1.54	0.96	-82.20	75.65	53.72	92.18	89.55	2.63	35.081										
600.00	599.29	589.81	587.11	1.90	1.31	-79.49	76.24	70.91	100.85	97.48	3.37	29.938										
700.00	698.04	685.94	680.71	2.28	1.75	-77.71	76.98	92.74	111.69	107.51	4.18	26.746										
800.00	795.85	781.43	772.49	2.70	2.26	-76.68	77.88	119.06	124.53	119.47	5.06	24.619										
900.00	892.43	876.24	862.20	3.17	2.86	-76.22	78.92	149.70	139.28	133.24	6.03	23.090										
1,000.00	987.52	970.32	949.61	3.71	3.54	-76.16	80.11	184.46	155.85	148.73	7.12	21.901										
1,100.00	1,080.87	1,063.64	1,034.51	4.33	4.31	-76.37	81.43	223.14	174.20	165.87	8.33	20.906										
1,200.00	1,172.22	1,156.18	1,116.73	5.04	5.16	-76.75	82.87	265.55	194.30	184.59	9.70	20.024										
1,300.00	1,261.31	1,247.90	1,196.11	5.85	6.10	-77.22	84.44	311.47	216.09	204.85	11.25	19.211										
1,400.00	1,347.90	1,341.07	1,274.56	6.79	7.10	-77.83	86.15	361.69	239.39	226.42	12.97	18.457										
1,500.00	1,431.76	1,437.98	1,355.64	7.86	8.15	-79.21	87.96	414.72	262.37	247.45	14.93	17.579										
1,603.26	1,515.23	1,537.66	1,439.05	9.10	9.23	-81.39	89.82	469.27	285.61	268.41	17.19	16.610										
1,700.00	1,591.88	1,630.77	1,516.97	10.35	10.25	-84.18	91.55	520.22	307.66	288.20	19.46	15.807										
1,800.00	1,671.11	1,727.02	1,597.51	11.67	11.30	-86.68	93.35	572.90	331.10	309.26	21.84	15.157										
1,900.00	1,750.34	1,823.27	1,678.05	13.01	12.35	-88.85	95.14	625.57	355.07	330.83	24.24	14.647										
2,000.00	1,829.57	1,919.52	1,758.59	14.36	13.41	-90.74	96.94	678.24	379.46	352.81	26.65	14.241										
2,100.00	1,908.81	2,015.77	1,839.13	15.72	14.46	-92.41	98.73	730.91	404.20	375.15	29.05	13.914										
2,200.00	1,988.04	2,112.03	1,919.67	17.09	15.52	-93.89	100.53	783.58	429.22	397.77	31.45	13.648										
2,300.00	2,067.27	2,208.28	2,000.21	18.46	16.58	-95.20	102.33	836.25	454.49	420.64	33.85	13.428										
2,400.00	2,146.50	2,304.53	2,080.75	19.84	17.64	-96.38	104.12	888.93	479.96	443.72	36.24	13.245										
2,500.00	2,225.73	2,400.78	2,161.29	21.23	18.69	-97.44	105.92	941.60	505.60	466.98	38.62	13.092										
2,600.00	2,304.96	2,497.03	2,241.83	22.62	19.75	-98.40	107.71	994.27	531.39	490.39	41.00	12.961										
2,700.00	2,384.19	2,593.28	2,322.37	24.00	20.81	-99.27	109.51	1,046.94	557.31	513.94	43.37	12.850										
2,800.00	2,463.42	2,689.53	2,402.91	25.40	21.87	-100.06	111.30	1,099.61	583.33	537.60	45.74	12.754										
2,900.00	2,542.66	2,785.78	2,483.46	26.79	22.93	-100.78	113.10	1,152.28	609.46	561.36	48.10	12.671										
3,000.00	2,621.89	2,882.04	2,564.00	28.18	23.99	-101.45	114.89	1,204.96	635.66	585.21	50.46	12.599										
3,100.00	2,701.12	2,978.29	2,644.54	29.58	25.05	-102.06	116.69	1,257.63	661.94	609.13	52.81	12.535										
3,200.00	2,780.35	3,074.54	2,725.08	30.98	26.11	-102.63	118.48	1,310.30	688.29	633.13	55.16	12.479										
3,300.00	2,859.58	3,170.79	2,805.62	32.38	27.17	-103.15	120.28	1,362.97	714.69	657.19	57.50	12.429										
3,400.00	2,938.81	3,267.04	2,886.16	33.78	28.23	-103.64	122.07	1,415.64	741.15	681.30	59.84	12.385										
3,500.00	3,018.04	3,363.29	2,966.70	35.18	29.29	-104.10	123.87	1,468.31	767.65	705.47	62.18	12.345										
3,600.00	3,097.27	3,459.54	3,047.24	36.58	30.35	-104.52	125.66	1,520.99	794.19	729.68	64.52	12.310										
3,700.00	3,176.51	3,555.79	3,127.78	37.98	31.41	-104.92	127.46	1,573.66	820.77	753.92	66.85	12.278										
3,800.00	3,255.74	3,652.04	3,208.32	39.38	32.47	-105.29	129.26	1,626.33	847.39	778.21	69.18	12.249										
3,900.00	3,334.97	3,748.30	3,288.86	40.78	33.54	-105.64	131.05	1,679.00	874.04	802.53	71.51	12.223										
4,000.00	3,414.20	3,844.55	3,369.40	42.19	34.60	-105.97	132.85	1,731.67	900.71	826.88	73.83	12.199										
4,100.00	3,493.43	3,940.80	3,449.94	43.59	35.66	-106.27	134.64	1,784.34	927.42	851.26	76.16	12.177										
4,200.00	3,572.66	4,037.05	3,530.48	44.99	36.72	-106.57	136.44	1,837.02	954.14	875.66	78.48	12.158										
4,300.00	3,651.89	4,133.30	3,611.02	46.40	37.78	-106.84	138.23	1,889.69	980.89	900.09	80.80	12.139										
4,400.00	3,731.12	4,229.55	3,691.56	47.80	38.84	-107.11	140.03	1,942.36	1,007.66	924.54	83.12	12.123										
4,500.00	3,810.36	4,325.80	3,772.10	49.20	39.90	-107.35	141.82	1,995.03	1,034.44	949.00	85.44	12.107										
4,600.00	3,889.59	4,422.05	3,852.64	50.61	40.96	-107.59	143.62	2,047.70	1,061.25	973.49	87.76	12.093										
4,700.00	3,968.82	4,518.31	3,933.18	52.01	42.02	-107.81	145.41	2,100.37	1,088.07	998.00	90.07	12.080										
4,800.00	4,048.05	4,614.56	4,013.72	53.42	43.09	-108.03	147.21	2,153.05	1,114.90	1,022.51	92.39	12.068										
4,900.00	4,127.28	4,710.81	4,094.27	54.82	44.15	-108.23	149.00	2,205.72	1,141.75	1,047.05	94.70	12.057										

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

Cathedral Energy Services

Anticollision Report

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Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
5,000.00	4,206.51	4,807.06	4,174.81	56.23	45.21	-108.42	150.80	2,258.39	1,168.61	1,071.60	97.01	12.046			
5,100.00	4,285.74	4,903.31	4,255.35	57.64	46.27	-108.61	152.59	2,311.06	1,195.48	1,096.16	99.32	12.036			
5,200.00	4,364.97	4,999.56	4,335.89	59.04	47.33	-108.79	154.39	2,363.73	1,222.36	1,120.73	101.63	12.027			
5,300.00	4,444.21	5,095.81	4,416.43	60.45	48.39	-108.96	156.18	2,416.40	1,249.26	1,145.32	103.94	12.019			
5,400.00	4,523.44	5,192.06	4,496.97	61.85	49.45	-109.12	157.98	2,469.07	1,276.16	1,169.91	106.25	12.011			
5,500.00	4,602.67	5,288.32	4,577.51	63.26	50.52	-109.27	159.78	2,521.75	1,303.08	1,194.52	108.56	12.003			
5,600.00	4,681.90	5,384.57	4,658.05	64.67	51.58	-109.42	161.57	2,574.42	1,330.00	1,219.13	110.87	11.996			
5,700.00	4,761.13	5,480.82	4,738.59	66.07	52.64	-109.57	163.37	2,627.09	1,356.93	1,243.75	113.17	11.990			
5,800.00	4,840.36	5,577.07	4,819.13	67.48	53.70	-109.71	165.16	2,679.76	1,383.86	1,268.39	115.48	11.984			
5,900.00	4,919.59	5,673.32	4,899.67	68.89	54.76	-109.84	166.96	2,732.43	1,410.81	1,293.02	117.78	11.978			
6,000.00	4,998.82	5,769.57	4,980.21	70.29	55.82	-109.97	168.75	2,785.10	1,437.76	1,317.67	120.09	11.973			
6,100.00	5,078.06	5,865.82	5,060.75	71.70	56.89	-110.09	170.55	2,837.78	1,464.72	1,342.32	122.39	11.967			
6,200.00	5,157.29	5,962.07	5,141.29	73.11	57.95	-110.21	172.34	2,890.45	1,491.68	1,366.98	124.70	11.962 SF			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	15.35	76.91	21.12	79.76						
100.00	100.00	100.00	100.00	0.12	0.12	15.35	76.91	21.12	79.76	79.52	0.24	336.499			
200.00	200.00	200.00	200.00	0.48	0.29	15.35	76.91	21.12	79.76	78.99	0.77	103.579			
300.00	300.00	300.00	300.00	0.84	0.47	15.35	76.91	21.12	79.76	78.46	1.30	61.210			
350.00	350.00	350.00	350.00	1.02	0.55	15.35	76.91	21.12	79.76	78.19	1.57	50.817	CC, ES		
400.00	399.99	399.22	399.21	1.19	0.64	-99.00	76.99	21.75	80.11	78.27	1.83	43.713			
500.00	499.85	498.75	498.66	1.54	0.82	-100.03	77.58	25.63	82.54	80.19	2.36	35.023			
600.00	599.29	598.69	598.58	1.90	0.99	-106.93	78.56	25.67	85.97	83.09	2.89	29.799			
700.00	698.04	696.26	696.01	2.28	1.16	-118.92	79.84	20.68	93.42	89.98	3.45	27.113			
800.00	795.85	790.07	789.32	2.70	1.36	-132.62	81.38	11.20	109.71	105.65	4.06	27.009	SF		
900.00	892.43	878.93	877.17	3.17	1.59	-144.66	83.10	-1.99	137.83	133.12	4.72	29.227			
1,000.00	987.52	964.89	961.59	3.71	1.85	-153.94	84.98	-18.05	177.47	172.16	5.31	33.417			
1,100.00	1,080.87	1,049.91	1,045.02	4.33	2.13	-160.40	86.86	-34.32	225.04	219.21	5.83	38.580			
1,200.00	1,172.22	1,132.07	1,125.64	5.04	2.41	-164.83	88.68	-50.05	278.78	272.46	6.33	44.057			
1,300.00	1,261.31	1,211.16	1,203.25	5.85	2.68	-167.97	90.44	-65.19	337.80	331.00	6.81	49.629			
1,400.00	1,347.90	1,286.95	1,277.62	6.79	2.95	-170.26	92.12	-79.70	401.53	394.26	7.27	55.200			
1,500.00	1,431.76	1,359.24	1,348.55	7.86	3.21	-171.96	93.72	-93.54	469.56	461.83	7.73	60.739			
1,603.26	1,515.23	1,430.00	1,417.98	9.10	3.47	-173.30	95.29	-107.09	543.96	535.77	8.19	66.424			
1,700.00	1,591.88	1,494.37	1,481.15	10.35	3.71	-174.59	96.71	-119.42	615.63	607.02	8.61	71.538			
1,800.00	1,671.11	1,560.92	1,546.45	11.67	3.95	-175.65	98.19	-132.16	689.82	680.79	9.03	76.374			
1,900.00	1,750.34	1,627.46	1,611.75	13.01	4.20	-176.51	99.66	-144.90	764.11	754.64	9.47	80.709			
2,000.00	1,829.57	1,694.01	1,677.04	14.36	4.45	-177.22	101.14	-157.64	838.46	828.55	9.91	84.603			
2,100.00	1,908.81	1,760.55	1,742.34	15.72	4.70	-177.81	102.61	-170.38	912.85	902.49	10.36	88.110			
2,200.00	1,988.04	1,827.10	1,807.64	17.09	4.95	-178.31	104.08	-183.12	987.29	976.47	10.82	91.277			
2,300.00	2,067.27	1,893.65	1,872.94	18.46	5.20	-178.75	105.56	-195.86	1,061.75	1,050.47	11.28	94.145			
2,400.00	2,146.50	1,960.19	1,938.24	19.84	5.45	-179.13	107.03	-208.60	1,136.24	1,124.49	11.74	96.750			
2,500.00	2,225.73	2,026.74	2,003.53	21.23	5.70	-179.46	108.51	-221.34	1,210.74	1,198.53	12.21	99.124			
2,600.00	2,304.96	2,093.28	2,068.83	22.62	5.95	-179.75	109.98	-234.08	1,285.26	1,272.58	12.69	101.294			
2,700.00	2,384.19	2,159.83	2,134.13	24.00	6.20	-179.99	111.46	-246.82	1,359.80	1,346.63	13.17	103.281			
2,800.00	2,463.42	2,226.37	2,199.43	25.40	6.46	-179.76	112.93	-259.56	1,434.35	1,420.70	13.65	105.108			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	24.88	55.66	25.81	61.36						
100.00	100.00	100.00	100.00	0.12	0.12	24.88	55.66	25.81	61.36	61.12	0.24	258.864			
116.67	116.67	116.67	116.67	0.18	0.15	24.88	55.66	25.81	61.36	61.03	0.33	188.295	CC		
200.00	200.00	200.00	200.00	0.48	0.29	24.88	55.66	25.81	61.36	60.59	0.77	79.682	ES		
300.00	300.00	298.66	298.61	0.84	0.47	27.03	55.59	28.36	62.43	61.09	1.33	46.849			
350.00	350.00	347.82	347.67	1.02	0.58	29.60	55.51	31.53	63.88	62.24	1.64	38.870			
400.00	399.99	396.84	396.49	1.19	0.69	-81.84	55.39	35.94	66.03	64.07	1.96	33.719			
500.00	499.85	494.55	493.39	1.54	0.97	-77.11	55.05	48.47	72.14	69.50	2.64	27.302			
600.00	599.29	591.77	589.03	1.90	1.32	-73.81	54.58	65.84	80.38	76.99	3.39	23.710			
700.00	698.04	688.46	683.15	2.28	1.76	-71.75	53.99	87.92	90.49	86.29	4.20	21.549			
800.00	795.85	784.57	775.49	2.70	2.28	-70.67	53.27	114.55	102.27	97.19	5.08	20.143			
900.00	892.43	880.08	865.80	3.17	2.89	-70.28	52.43	145.58	115.63	109.59	6.04	19.136			
1,000.00	987.52	974.94	953.85	3.71	3.58	-70.37	51.48	180.83	130.51	123.39	7.12	18.339			
1,100.00	1,080.87	1,069.14	1,039.45	4.33	4.36	-70.78	50.42	220.12	146.87	138.55	8.32	17.646			
1,200.00	1,172.22	1,162.66	1,122.41	5.04	5.23	-71.37	49.26	263.25	164.68	155.00	9.69	17.004			
1,300.00	1,261.31	1,255.48	1,202.57	5.85	6.18	-72.07	48.00	310.02	183.93	172.71	11.23	16.382			
1,400.00	1,347.90	1,350.10	1,282.09	6.79	7.20	-72.94	46.62	361.26	204.33	191.38	12.95	15.783			
1,500.00	1,431.76	1,447.76	1,363.77	7.86	8.26	-74.75	45.18	414.77	223.92	209.01	14.91	15.014			
1,603.26	1,515.23	1,548.28	1,447.85	9.10	9.35	-77.49	43.69	469.85	243.31	226.08	17.23	14.121			
1,700.00	1,591.88	1,642.22	1,526.41	10.35	10.38	-80.71	42.30	521.33	261.68	242.12	19.56	13.378			
1,800.00	1,671.11	1,739.32	1,607.62	11.67	11.44	-83.59	40.87	574.53	281.41	259.40	22.01	12.788			
1,900.00	1,750.34	1,836.42	1,688.84	13.01	12.51	-86.09	39.43	627.74	301.74	277.27	24.47	12.333			
2,000.00	1,829.57	1,933.52	1,770.05	14.36	13.57	-88.28	38.00	680.95	322.56	295.63	26.93	11.978			
2,100.00	1,908.81	2,030.62	1,851.26	15.72	14.64	-90.21	36.57	734.16	343.78	314.40	29.39	11.698			
2,200.00	1,988.04	2,127.72	1,932.47	17.09	15.71	-91.91	35.13	787.37	365.34	333.50	31.84	11.474			
2,300.00	2,067.27	2,224.82	2,013.68	18.46	16.78	-93.42	33.70	840.57	387.17	352.89	34.28	11.293			
2,400.00	2,146.50	2,321.92	2,094.90	19.84	17.84	-94.78	32.26	893.78	409.23	372.52	36.72	11.146			
2,500.00	2,225.73	2,419.02	2,176.11	21.23	18.91	-95.99	30.83	946.99	431.49	392.35	39.14	11.025			
2,600.00	2,304.96	2,516.12	2,257.32	22.62	19.98	-97.09	29.39	1,000.20	453.92	412.37	41.55	10.924			
2,700.00	2,384.19	2,613.22	2,338.53	24.00	21.05	-98.08	27.96	1,053.40	476.49	432.53	43.96	10.840			
2,800.00	2,463.42	2,710.32	2,419.74	25.40	22.12	-98.98	26.52	1,106.61	499.19	452.83	46.36	10.769			
2,900.00	2,542.66	2,807.42	2,500.95	26.79	23.19	-99.81	25.09	1,159.82	521.99	473.24	48.75	10.708			
3,000.00	2,621.89	2,904.52	2,582.17	28.18	24.26	-100.56	23.65	1,213.03	544.89	493.76	51.13	10.657			
3,100.00	2,701.12	3,001.62	2,663.38	29.58	25.34	-101.26	22.22	1,266.23	567.87	514.36	53.51	10.613			
3,200.00	2,780.35	3,098.72	2,744.59	30.98	26.41	-101.90	20.79	1,319.44	590.92	535.05	55.88	10.575			
3,300.00	2,859.58	3,195.82	2,825.80	32.38	27.48	-102.49	19.35	1,372.65	614.04	555.80	58.24	10.543			
3,400.00	2,938.81	3,292.92	2,907.01	33.78	28.55	-103.04	17.92	1,425.86	637.22	576.62	60.61	10.514			
3,500.00	3,018.04	3,390.02	2,988.23	35.18	29.62	-103.56	16.48	1,479.06	660.45	597.49	62.96	10.489			
3,600.00	3,097.27	3,487.12	3,069.44	36.58	30.69	-104.03	15.05	1,532.27	683.73	618.41	65.32	10.468			
3,700.00	3,176.51	3,584.22	3,150.65	37.98	31.76	-104.48	13.61	1,585.48	707.05	639.38	67.67	10.449			
3,800.00	3,255.74	3,681.32	3,231.86	39.38	32.84	-104.90	12.18	1,638.69	730.40	660.39	70.02	10.432			
3,900.00	3,334.97	3,778.42	3,313.07	40.78	33.91	-105.29	10.74	1,691.89	753.79	681.43	72.36	10.417			
4,000.00	3,414.20	3,875.52	3,394.29	42.19	34.98	-105.66	9.31	1,745.10	777.22	702.51	74.70	10.404			
4,100.00	3,493.43	3,972.63	3,475.50	43.59	36.05	-106.00	7.87	1,798.31	800.67	723.63	77.04	10.393			
4,200.00	3,572.66	4,069.73	3,556.71	44.99	37.12	-106.33	6.44	1,851.52	824.14	744.77	79.38	10.383			
4,300.00	3,651.89	4,166.83	3,637.92	46.40	38.19	-106.64	5.01	1,904.73	847.64	765.93	81.71	10.374			
4,400.00	3,731.12	4,263.93	3,719.13	47.80	39.27	-106.93	3.57	1,957.93	871.17	787.12	84.05	10.365			
4,500.00	3,810.36	4,361.03	3,800.35	49.20	40.34	-107.21	2.14	2,011.14	894.71	808.34	86.38	10.358			
4,600.00	3,889.59	4,458.13	3,881.56	50.61	41.41	-107.47	0.70	2,064.35	918.27	829.57	88.71	10.352			
4,700.00	3,968.82	4,555.23	3,962.77	52.01	42.48	-107.72	-0.73	2,117.56	941.85	850.82	91.03	10.346			
4,800.00	4,048.05	4,652.33	4,043.98	53.42	43.56	-107.96	-2.17	2,170.76	965.45	872.09	93.36	10.341			
4,900.00	4,127.28	4,749.43	4,125.19	54.82	44.63	-108.18	-3.60	2,223.97	989.06	893.37	95.68	10.337			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference				Offset				Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
5,000.00	4,206.51	4,846.53	4,206.41	56.23	45.70	-108.40	-5.04	2,277.18	1,012.68	914.68	98.01	10.333			
5,100.00	4,285.74	4,943.63	4,287.62	57.64	46.77	-108.61	-6.47	2,330.39	1,036.32	935.99	100.33	10.329			
5,200.00	4,364.97	5,040.73	4,368.83	59.04	47.84	-108.80	-7.91	2,383.59	1,059.97	957.32	102.65	10.326			
5,300.00	4,444.21	5,137.83	4,450.04	60.45	48.92	-108.99	-9.34	2,436.80	1,083.63	978.66	104.97	10.323			
5,400.00	4,523.44	5,234.93	4,531.25	61.85	49.99	-109.17	-10.77	2,490.01	1,107.30	1,000.01	107.29	10.321			
5,500.00	4,602.67	5,332.03	4,612.46	63.26	51.06	-109.34	-12.21	2,543.22	1,130.98	1,021.37	109.61	10.318			
5,600.00	4,681.90	5,429.13	4,693.68	64.67	52.13	-109.51	-13.64	2,596.42	1,154.67	1,042.75	111.93	10.316			
5,700.00	4,761.13	5,526.23	4,774.89	66.07	53.21	-109.67	-15.08	2,649.63	1,178.37	1,064.13	114.24	10.315			
5,800.00	4,840.36	5,623.33	4,856.10	67.48	54.28	-109.82	-16.51	2,702.84	1,202.08	1,085.52	116.56	10.313			
5,900.00	4,919.59	5,720.43	4,937.31	68.89	55.35	-109.97	-17.95	2,756.05	1,225.79	1,106.92	118.87	10.312			
6,000.00	4,998.82	5,817.53	5,018.52	70.29	56.42	-110.11	-19.38	2,809.26	1,249.52	1,128.33	121.19	10.311			
6,100.00	5,078.06	5,914.63	5,099.74	71.70	57.50	-110.24	-20.82	2,862.46	1,273.25	1,149.74	123.50	10.309			
6,200.00	5,157.29	6,011.73	5,180.95	73.11	58.57	-110.37	-22.25	2,915.67	1,296.98	1,171.17	125.82	10.309			
6,300.00	5,236.52	6,108.83	5,262.16	74.51	59.64	-110.50	-23.69	2,968.88	1,320.72	1,192.60	128.13	10.308			
6,400.00	5,315.75	6,205.93	5,343.37	75.92	60.71	-110.62	-25.12	3,022.09	1,344.47	1,214.03	130.44	10.307			
6,500.00	5,394.98	6,303.03	5,424.58	77.33	61.79	-110.74	-26.56	3,075.29	1,368.23	1,235.47	132.75	10.307			
6,600.00	5,474.21	6,400.13	5,505.80	78.73	62.86	-110.85	-27.99	3,128.50	1,391.98	1,256.92	135.06	10.306			
6,700.00	5,553.44	6,497.24	5,587.01	80.14	63.93	-110.96	-29.42	3,181.71	1,415.75	1,278.37	137.37	10.306			
6,800.00	5,632.67	6,594.34	5,668.22	81.55	65.00	-111.07	-30.86	3,234.92	1,439.52	1,299.83	139.68	10.305			
6,900.00	5,711.90	6,691.44	5,749.43	82.96	66.08	-111.17	-32.29	3,288.12	1,463.29	1,321.29	141.99	10.305			
7,000.00	5,791.14	6,788.54	5,830.64	84.36	67.15	-111.27	-33.73	3,341.33	1,487.06	1,342.76	144.30	10.305 SF			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	15.17	57.68	15.64	59.77						
100.00	100.00	100.00	100.00	0.12	0.12	15.17	57.68	15.64	59.77	59.53	0.24	252.152			
200.00	200.00	200.00	200.00	0.48	0.29	15.17	57.68	15.64	59.77	59.00	0.77	77.616			
300.00	300.00	300.00	300.00	0.84	0.47	15.17	57.68	15.64	59.77	58.46	1.30	45.867			
350.00	350.00	350.52	350.52	1.02	0.56	14.57	57.63	14.98	59.55	57.97	1.58	37.770			
400.00	399.99	400.94	400.89	1.19	0.65	-102.24	57.47	12.99	59.06	57.21	1.85	31.993			
452.09	452.04	453.15	452.99	1.37	0.76	-107.47	57.19	9.53	58.74	56.61	2.14	27.505 CC, ES			
500.00	499.85	500.70	500.33	1.54	0.86	-114.51	56.83	5.14	59.26	56.86	2.40	24.715			
600.00	599.29	597.79	596.58	1.90	1.13	-133.52	55.81	-7.45	66.47	63.42	3.05	21.785 SF			
700.00	698.04	691.86	689.19	2.28	1.43	-151.50	54.48	-23.89	86.42	82.63	3.79	22.805			
800.00	795.85	784.66	780.42	2.70	1.75	-163.31	53.11	-40.87	117.27	112.87	4.40	26.632			
900.00	892.43	875.45	869.66	3.17	2.06	-170.45	51.76	-57.48	155.82	150.88	4.95	31.508			
1,000.00	987.52	963.96	956.67	3.71	2.38	-174.93	50.45	-73.68	200.47	195.01	5.46	36.717			
1,100.00	1,080.87	1,049.97	1,041.22	4.33	2.69	-177.86	49.17	-89.41	250.40	244.43	5.96	41.980			
1,200.00	1,172.22	1,133.23	1,123.06	5.04	2.99	-179.87	47.94	-104.64	305.14	298.67	6.47	47.191			
1,300.00	1,261.31	1,213.52	1,201.99	5.85	3.28	178.69	46.75	-119.33	364.36	357.40	6.96	52.314			
1,400.00	1,347.90	1,290.61	1,277.77	6.79	3.56	177.62	45.61	-133.44	427.82	420.36	7.46	57.345			
1,500.00	1,431.76	1,364.29	1,350.20	7.86	3.83	176.79	44.52	-146.92	495.28	487.33	7.95	62.295			
1,603.26	1,515.23	1,436.59	1,421.27	9.10	4.09	176.09	43.45	-160.15	568.91	560.46	8.45	67.346			
1,700.00	1,591.88	1,502.46	1,486.02	10.35	4.33	175.76	42.47	-172.20	639.72	630.82	8.90	71.858			
1,800.00	1,671.11	1,570.55	1,552.95	11.67	4.58	175.48	41.46	-184.66	712.93	703.56	9.37	76.080			
1,900.00	1,750.34	1,638.63	1,619.88	13.01	4.83	175.25	40.45	-197.12	786.14	776.30	9.85	79.824			
2,000.00	1,829.57	1,706.72	1,686.81	14.36	5.08	175.06	39.44	-209.57	859.36	849.03	10.33	83.155			
2,100.00	1,908.81	1,774.81	1,753.74	15.72	5.33	174.90	38.43	-222.03	932.58	921.76	10.83	86.131			
2,200.00	1,988.04	1,842.89	1,820.67	17.09	5.58	174.76	37.42	-234.49	1,005.81	994.48	11.33	88.800			
2,300.00	2,067.27	1,910.98	1,887.60	18.46	5.83	174.65	36.42	-246.95	1,079.04	1,067.20	11.83	91.203			
2,400.00	2,146.50	1,979.06	1,954.52	19.84	6.08	174.54	35.41	-259.40	1,152.26	1,139.92	12.34	93.375			
2,500.00	2,225.73	2,047.15	2,021.45	21.23	6.33	174.45	34.40	-271.86	1,225.49	1,212.64	12.85	95.346			
2,600.00	2,304.96	2,115.24	2,088.38	22.62	6.58	174.37	33.39	-284.32	1,298.73	1,285.36	13.37	97.140			
2,700.00	2,384.19	2,183.32	2,155.31	24.00	6.83	174.30	32.38	-296.78	1,371.96	1,358.07	13.89	98.778			
2,800.00	2,463.42	2,251.41	2,222.24	25.40	7.08	174.24	31.37	-309.23	1,445.19	1,430.78	14.41	100.280			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft							
Survey Program: O-MWD													Offset Well Error:		0.00 usft						
Reference													Offset		Semi Major Axis		Distance		Total	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor									
0.00	0.00	0.00	0.00	0.00	0.00	15.90	38.45	10.95	39.98	39.75	0.24	168.685									
100.00	100.00	100.00	100.00	0.12	0.12	15.90	38.45	10.95	39.98	39.21	0.77	51.923									
200.00	200.00	200.00	200.00	0.48	0.29	15.90	38.45	10.95	39.98	38.68	1.30	30.684									
300.00	300.00	300.00	300.00	0.84	0.47	15.90	38.45	10.95	39.98	38.41	1.57	25.474 CC									
350.00	350.00	350.00	350.00	1.02	0.55	15.90	38.45	10.95	39.98	38.25	1.83	21.901 ES									
400.00	399.99	399.99	399.99	1.19	0.64	-99.36	38.45	10.95	40.08	40.81	2.39	18.083									
500.00	499.85	498.19	498.14	1.54	0.82	-104.09	40.08	12.88	43.20	48.47	2.95	17.429									
600.00	599.29	596.99	596.66	1.90	1.01	-109.39	44.47	18.85	51.42	58.00	3.53	17.417									
700.00	698.04	696.97	695.95	2.28	1.25	-113.06	48.32	29.77	61.54	68.49	4.23	17.196									
800.00	795.85	797.17	794.82	2.70	1.55	-115.34	50.93	45.78	72.71	79.77	5.06	16.766									
900.00	892.43	897.57	892.96	3.17	1.93	-116.69	52.28	66.86	84.83	97.79	6.04	16.188									
1,000.00	987.52	998.17	990.10	3.71	2.40	-117.41	52.37	92.98	97.79	111.53	7.19	15.519									
1,100.00	1,080.87	1,098.96	1,085.95	4.33	2.97	-117.68	51.19	124.09	111.53	117.49	8.51	14.805									
1,200.00	1,172.22	1,199.95	1,180.24	5.04	3.65	-117.64	48.74	160.14	126.00	131.14	10.03	14.075									
1,300.00	1,261.31	1,301.11	1,272.68	5.85	4.43	-117.38	45.00	201.04	141.17	145.23	11.76	13.352									
1,400.00	1,347.90	1,402.46	1,363.00	6.79	5.32	-116.96	40.00	246.71	156.99	159.72	13.71	12.653									
1,500.00	1,431.76	1,503.99	1,450.94	7.86	6.33	-116.42	33.72	297.04	173.43	175.04	15.96	11.969									
1,603.26	1,515.23	1,609.01	1,538.96	9.10	7.47	-115.78	25.93	353.79	191.00	189.35	18.15	11.433									
1,700.00	1,591.88	1,704.86	1,617.41	10.35	8.56	-115.42	18.05	408.28	207.50	204.10	20.45	10.983									
1,800.00	1,671.11	1,803.39	1,698.02	11.67	9.68	-115.08	9.94	464.36	224.54	218.82	22.77	10.609									
1,900.00	1,750.34	1,901.92	1,778.62	13.01	10.81	-114.80	1.82	520.44	241.59	233.53	25.12	10.296									
2,000.00	1,829.57	2,000.45	1,859.23	14.36	11.94	-114.55	-6.29	576.52	258.65	248.22	27.48	10.031									
2,100.00	1,908.81	2,098.98	1,939.84	15.72	13.07	-114.33	-14.41	632.59	275.70	262.90	29.86	9.804									
2,200.00	1,988.04	2,197.51	2,020.45	17.09	14.21	-114.14	-22.52	688.67	292.76	277.58	32.25	9.607									
2,300.00	2,067.27	2,296.04	2,101.05	18.46	15.35	-113.97	-30.64	744.75	309.83	292.25	34.65	9.435									
2,400.00	2,146.50	2,394.57	2,181.66	19.84	16.49	-113.82	-38.75	800.83	326.89	306.92	37.05	9.284									
2,500.00	2,225.73	2,493.10	2,262.27	21.23	17.63	-113.68	-46.87	856.90	343.96	321.58	39.45	9.151									
2,600.00	2,304.96	2,591.63	2,342.87	22.62	18.78	-113.56	-54.98	912.98	361.03	336.24	41.87	9.031									
2,700.00	2,384.19	2,690.16	2,423.48	24.00	19.92	-113.44	-63.10	969.06	378.10	350.89	44.28	8.924									
2,800.00	2,463.42	2,788.69	2,504.09	25.40	21.07	-113.34	-71.21	1,025.14	395.18	365.55	46.70	8.827									
2,900.00	2,542.66	2,887.22	2,584.70	26.79	22.21	-113.25	-79.33	1,081.21	412.25	380.20	49.12	8.740									
3,000.00	2,621.89	2,985.75	2,665.30	28.18	23.36	-113.16	-87.44	1,137.29	429.33	394.86	51.55	8.660									
3,100.00	2,701.12	3,084.28	2,745.91	29.58	24.51	-113.08	-95.56	1,193.37	446.40	409.51	53.97	8.587									
3,200.00	2,780.35	3,182.81	2,826.52	30.98	25.65	-113.00	-103.67	1,249.45	463.48	424.16	56.40	8.521									
3,300.00	2,859.58	3,281.34	2,907.12	32.38	26.80	-112.93	-111.79	1,305.52	480.56	438.80	58.83	8.459									
3,400.00	2,938.81	3,379.86	2,987.73	33.78	27.95	-112.87	-119.90	1,361.60	497.63	453.45	61.26	8.402									
3,500.00	3,018.04	3,478.39	3,068.34	35.18	29.09	-112.81	-128.02	1,417.68	514.71	468.10	63.69	8.350									
3,600.00	3,097.27	3,576.92	3,148.94	36.58	30.24	-112.75	-136.13	1,473.76	531.79	482.75	66.12	8.301									
3,700.00	3,176.51	3,675.45	3,229.55	37.98	31.39	-112.70	-144.25	1,529.84	548.87	497.39	68.56	8.255									
3,800.00	3,255.74	3,773.98	3,310.16	39.38	32.54	-112.65	-152.36	1,585.91	565.95	512.04	70.99	8.213									
3,900.00	3,334.97	3,872.51	3,390.77	40.78	33.69	-112.60	-160.48	1,641.99	583.03	526.68	73.43	8.173									
4,000.00	3,414.20	3,971.04	3,471.37	42.19	34.84	-112.56	-168.59	1,698.07	600.11	541.33	75.86	8.135									
4,100.00	3,493.43	4,069.57	3,551.98	43.59	35.99	-112.52	-176.71	1,754.15	617.19	555.97	78.30	8.100									
4,200.00	3,572.66	4,168.10	3,632.59	44.99	37.13	-112.48	-184.82	1,810.22	634.27	570.62	80.74	8.067									
4,300.00	3,651.89	4,266.63	3,713.19	46.40	38.28	-112.44	-192.94	1,866.30	651.36	585.26	83.18	8.036									
4,400.00	3,731.12	4,365.16	3,793.80	47.80	39.43	-112.40	-201.05	1,922.38	668.44	599.90	85.62	8.007									
4,500.00	3,810.36	4,463.69	3,874.41	49.20	40.58	-112.37	-209.16	1,978.46	685.52	614.55	88.05	7.979									
4,600.00	3,889.59	4,562.22	3,955.02	50.61	41.73	-112.34	-217.28	2,034.53	702.60	629.19	90.49	7.953									
4,700.00	3,968.82	4,660.75	4,035.62	52.01	42.88	-112.31	-225.39	2,090.61	719.68	643.83	92.93	7.928									
4,800.00	4,048.05	4,759.28	4,116.23	53.42	44.03	-112.28	-233.51	2,146.69	736.77	658.48	95.37	7.904									
4,900.00	4,127.28	4,857.81	4,196.84	54.82	45.18	-112.25	-241.62	2,202.77	753.85	673.12	97.81	7.882									
5,000.00	4,206.51	4,956.34	4,277.44	56.23	46.33	-112.22	-249.74	2,258.84	770.93	688.00											

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: O-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
5,100.00	4,285.74	5,054.86	4,358.05	57.64	47.48	-112.20	-257.85	2,314.92	788.02	687.76	100.26	7.860										
5,200.00	4,364.97	5,153.39	4,438.66	59.04	48.63	-112.17	-265.97	2,371.00	805.10	702.40	102.70	7.840										
5,300.00	4,444.21	5,251.92	4,519.26	60.45	49.78	-112.15	-274.08	2,427.08	822.18	717.04	105.14	7.820										
5,400.00	4,523.44	5,350.45	4,599.87	61.85	50.93	-112.13	-282.20	2,483.15	839.27	731.69	107.58	7.801										
5,500.00	4,602.67	5,448.98	4,680.48	63.26	52.08	-112.11	-290.31	2,539.23	856.35	746.33	110.02	7.784										
5,600.00	4,681.90	5,547.51	4,761.09	64.67	53.23	-112.08	-298.43	2,595.31	873.43	760.97	112.46	7.766										
5,700.00	4,761.13	5,646.04	4,841.69	66.07	54.38	-112.07	-306.54	2,651.39	890.52	775.61	114.91	7.750										
5,800.00	4,840.36	5,744.57	4,922.30	67.48	55.53	-112.05	-314.66	2,707.47	907.60	790.25	117.35	7.734										
5,900.00	4,919.59	5,843.10	5,002.91	68.89	56.68	-112.03	-322.77	2,763.54	924.69	804.90	119.79	7.719										
6,000.00	4,998.82	5,941.63	5,083.51	70.29	57.83	-112.01	-330.89	2,819.62	941.77	819.54	122.23	7.705										
6,100.00	5,078.06	6,040.16	5,164.12	71.70	58.98	-111.99	-339.00	2,875.70	958.85	834.18	124.68	7.691										
6,200.00	5,157.29	6,138.69	5,244.73	73.11	60.13	-111.98	-347.12	2,931.78	975.94	848.82	127.12	7.677										
6,300.00	5,236.52	6,237.22	5,325.33	74.51	61.28	-111.96	-355.23	2,987.85	993.02	863.46	129.56	7.664										
6,400.00	5,315.75	6,335.75	5,405.94	75.92	62.43	-111.94	-363.35	3,043.93	1,010.11	878.10	132.01	7.652										
6,500.00	5,394.98	6,434.28	5,486.55	77.33	63.58	-111.93	-371.46	3,100.01	1,027.19	892.74	134.45	7.640										
6,600.00	5,474.21	6,532.81	5,567.16	78.73	64.73	-111.92	-379.58	3,156.09	1,044.28	907.38	136.89	7.628										
6,700.00	5,553.44	6,631.34	5,647.76	80.14	65.88	-111.90	-387.69	3,212.16	1,061.36	922.02	139.34	7.617										
6,800.00	5,632.67	6,729.86	5,728.37	81.55	67.03	-111.89	-395.81	3,268.24	1,078.45	936.67	141.78	7.606										
6,900.00	5,711.90	6,828.39	5,808.98	82.96	68.18	-111.87	-403.92	3,324.32	1,095.53	951.31	144.23	7.596										
7,000.00	5,791.14	6,926.92	5,889.58	84.36	69.33	-111.86	-412.04	3,380.40	1,112.62	965.95	146.67	7.586										
7,100.00	5,870.37	7,025.45	5,970.19	85.77	70.48	-111.85	-420.15	3,436.47	1,129.70	980.59	149.11	7.576										
7,200.00	5,949.60	7,123.98	6,050.80	87.18	71.63	-111.84	-428.27	3,492.55	1,146.79	995.23	151.56	7.567										
7,300.00	6,028.83	7,222.51	6,131.41	88.59	72.78	-111.83	-436.38	3,548.63	1,163.87	1,009.87	154.00	7.557										
7,400.00	6,108.06	7,321.04	6,212.01	89.99	73.93	-111.81	-444.50	3,604.71	1,180.96	1,024.51	156.45	7.549										
7,500.00	6,187.29	7,419.57	6,292.62	91.40	75.08	-111.80	-452.61	3,660.79	1,198.04	1,039.15	158.89	7.540										
7,600.00	6,266.52	7,518.10	6,373.23	92.81	76.23	-111.79	-460.73	3,716.86	1,215.13	1,053.79	161.34	7.532										
7,611.65	6,275.75	7,529.58	6,382.62	92.97	76.37	-111.79	-461.67	3,723.39	1,217.12	1,055.50	161.62	7.531										
7,700.00	6,346.98	7,609.28	6,448.68	94.16	77.24	-112.18	-468.06	3,767.52	1,231.71	1,068.21	163.51	7.533										
7,800.00	6,430.41	7,699.98	6,526.03	95.38	78.13	-112.58	-474.84	3,814.38	1,247.06	1,081.60	165.46	7.537										
7,900.00	6,516.61	7,789.27	6,604.29	96.46	78.93	-112.94	-480.99	3,856.90	1,261.13	1,093.95	167.18	7.544										
8,000.00	6,605.34	7,879.44	6,685.28	97.42	79.64	-113.24	-486.67	3,896.12	1,273.88	1,105.16	168.72	7.550										
8,100.00	6,696.36	7,969.73	6,768.16	98.24	80.28	-113.50	-491.80	3,931.55	1,285.28	1,115.20	170.08	7.557										
8,200.00	6,789.43	8,060.14	6,852.75	98.95	80.83	-113.72	-496.36	3,963.12	1,295.31	1,124.05	171.26	7.564										
8,300.00	6,884.28	8,150.68	6,938.88	99.54	81.30	-113.90	-500.36	3,990.72	1,303.95	1,131.68	172.27	7.569										
8,400.00	6,980.66	8,241.34	7,026.34	100.02	81.70	-114.03	-503.77	4,014.28	1,311.16	1,138.05	173.11	7.574										
8,500.00	7,078.29	8,332.11	7,114.96	100.41	82.02	-114.11	-506.58	4,033.72	1,316.94	1,143.14	173.80	7.577										
8,600.00	7,176.93	8,423.00	7,204.51	100.71	82.26	-114.16	-508.79	4,049.00	1,321.27	1,146.93	174.34	7.579										
8,700.00	7,276.28	8,513.99	7,294.81	100.93	82.43	-114.16	-510.39	4,060.05	1,324.14	1,149.39	174.76	7.577										
8,800.00	7,376.09	8,605.08	7,385.63	101.09	82.53	-114.12	-511.37	4,066.84	1,325.55	1,150.50	175.05	7.573										
8,864.91	7,440.99	8,664.25	7,444.76	101.16	82.55	0.26	-511.68	4,068.94	1,325.67	1,150.50	175.17	7.568										
8,882.15	7,458.23	8,679.98	7,460.49	101.18	82.55	124.51	-511.71	4,069.20	1,325.65	1,150.45	175.19	7.567										
8,893.09	7,469.17	8,689.96	7,470.47	101.19	82.56	124.52	-511.73	4,069.30	1,325.66	1,150.45	175.21	7.566										
8,900.00	7,476.08	8,696.26	7,476.77	101.19	82.56	124.52	-511.73	4,069.33	1,325.67	1,150.45	175.22	7.566										
9,000.00	7,576.08	8,795.82	7,576.33	101.27	82.59	124.54	-511.74	4,069.33	1,325.94	1,150.59	175.35	7.562										
9,100.00	7,676.07	8,896.10	7,676.60	101.36	82.62	124.56	-511.77	4,069.29	1,326.19	1,150.71	175.48	7.557										
9,200.00	7,776.07	8,996.37	7,776.88	101.44	82.65	124.57	-511.82	4,069.21	1,326.42	1,150.80	175.61	7.553										
9,300.00	7,876.07	9,096.65	7,877.16	101.52	82.69	124.58	-511.89	4,069.10	1,326.62	1,150.88	175.74	7.549										
9,400.00	7,976.07	9,196.92	7,977.43	101.61	82.72	124.59	-511.99	4,068.97	1,326.81	1,150.94	175.88	7.544										
9,500.00	8,076.07	9,297.20	8,077.71	101.69	82.75	124.60	-512.10	4,068.80	1,326.98	1,150.97	176.01	7.539										
9,600.00	8,176.07	9,397.48	8,177.98	101.78	82.78	124.61	-512.23	4,068.60	1,327.12	1,150.98	176.14	7.534										
9,700.00	8,276.07	9,497.75	8,278.26	101.87	82.81	124.62	-512.38	4,068.37	1,327.25	1,150.97	176.27	7.529										
9,800.00	8,376.07	9,598.03	8,378.53	101.96	82.84	124.63	-512.56	4,068.11	1,327.35	1,150.95	176.41	7.524										

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 0-MWD												Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,900.00	8,476.06	9,698.31	8,478.81	102.05	82.87	124.63	-512.75	4,067.82	1,327.44	1,150.90	176.54	7.519		
10,000.00	8,576.06	9,798.58	8,579.09	102.14	82.91	124.64	-512.97	4,067.49	1,327.50	1,150.83	176.67	7.514		
10,100.00	8,676.06	9,898.86	8,679.36	102.24	82.94	124.64	-513.21	4,067.14	1,327.54	1,150.73	176.80	7.508		
10,200.00	8,776.06	9,999.14	8,779.64	102.33	82.97	124.64	-513.46	4,066.75	1,327.56	1,150.62	176.94	7.503		
10,300.00	8,876.06	10,099.41	8,879.91	102.43	83.00	124.64	-513.74	4,066.34	1,327.56	1,150.49	177.07	7.497		
10,400.00	8,976.06	10,199.69	8,980.19	102.52	83.03	124.64	-514.04	4,065.89	1,327.54	1,150.33	177.20	7.492		
10,500.00	9,076.06	10,299.97	9,080.46	102.62	83.06	124.63	-514.36	4,065.41	1,327.50	1,150.16	177.34	7.486		
10,600.00	9,176.06	10,400.24	9,180.74	102.72	83.09	124.63	-514.70	4,064.90	1,327.43	1,149.96	177.47	7.480		
10,700.00	9,276.06	10,500.40	9,280.90	102.82	83.12	124.62	-515.06	4,064.37	1,327.35	1,149.75	177.60	7.474		
10,800.00	9,376.05	10,600.40	9,380.90	102.92	83.15	124.62	-515.42	4,063.83	1,327.27	1,149.53	177.74	7.468		
10,900.00	9,476.05	10,700.40	9,480.89	103.03	83.19	124.61	-515.78	4,063.29	1,327.18	1,149.31	177.87	7.461		
11,000.00	9,576.05	10,800.40	9,580.89	103.13	83.22	124.61	-516.14	4,062.74	1,327.10	1,149.08	178.01	7.455		
11,100.00	9,676.05	10,900.40	9,680.89	103.24	83.25	124.60	-516.50	4,062.20	1,327.01	1,148.86	178.15	7.449		
11,200.00	9,776.05	11,000.40	9,780.89	103.34	83.28	124.60	-516.86	4,061.66	1,326.93	1,148.63	178.29	7.442		
11,300.00	9,876.05	11,100.40	9,880.88	103.45	83.32	124.59	-517.22	4,061.12	1,326.84	1,148.41	178.43	7.436		
11,400.00	9,976.05	11,200.40	9,980.88	103.56	83.35	124.58	-517.59	4,060.58	1,326.76	1,148.18	178.58	7.430		
11,500.00	10,076.05	11,300.40	10,080.88	103.67	83.38	124.58	-517.95	4,060.04	1,326.67	1,147.95	178.72	7.423		
11,600.00	10,176.04	11,400.40	10,180.88	103.78	83.42	124.57	-518.31	4,059.50	1,326.58	1,147.71	178.87	7.416		
11,700.00	10,276.04	11,500.40	10,280.88	103.89	83.45	124.57	-518.67	4,058.96	1,326.50	1,147.48	179.02	7.410		
11,800.00	10,376.04	11,600.40	10,380.87	104.00	83.49	124.56	-519.03	4,058.42	1,326.41	1,147.25	179.17	7.403		
11,900.00	10,476.04	11,700.40	10,480.87	104.12	83.52	124.55	-519.39	4,057.87	1,326.33	1,147.01	179.32	7.396		
12,000.00	10,576.04	11,800.40	10,580.87	104.23	83.56	124.55	-519.75	4,057.33	1,326.24	1,146.77	179.47	7.390		
12,100.00	10,676.04	11,900.40	10,680.87	104.35	83.59	124.54	-520.11	4,056.79	1,326.16	1,146.53	179.63	7.383		
12,200.00	10,776.04	12,000.40	10,780.86	104.47	83.63	124.54	-520.47	4,056.25	1,326.07	1,146.29	179.78	7.376		
12,300.00	10,876.04	12,100.40	10,880.86	104.58	83.66	124.53	-520.84	4,055.71	1,325.99	1,146.05	179.94	7.369		
12,400.00	10,976.03	12,200.40	10,980.86	104.70	83.70	124.53	-521.20	4,055.17	1,325.90	1,145.80	180.10	7.362		
12,489.94	11,065.98	12,290.35	11,070.80	104.81	83.74	124.52	-521.52	4,054.68	1,325.83	1,145.58	180.25	7.356		
12,500.00	11,076.03	12,300.40	11,080.86	104.82	83.74	124.52	-521.56	4,054.63	1,325.82	1,145.56	180.26	7.355		
12,600.00	11,176.03	12,400.40	11,180.86	104.95	83.78	124.51	-521.92	4,054.09	1,325.73	1,145.31	180.42	7.348		
12,700.00	11,276.03	12,500.40	11,280.85	105.07	83.81	124.51	-522.28	4,053.54	1,325.65	1,145.06	180.59	7.341		
12,800.00	11,376.03	12,600.40	11,380.85	105.19	83.85	124.50	-522.64	4,053.00	1,325.56	1,144.81	180.75	7.334		
12,851.46	11,427.49	12,651.86	11,432.31	105.26	83.87	124.50	-522.83	4,052.73	1,325.52	1,144.68	180.84	7.330 SF		

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft							
Survey Program: 0-MWD													Offset Well Error:		0.00 usft						
Reference													Offset		Semi Major Axis		Distance		Total	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor									
0.00	0.00	0.00	0.00	0.00	0.00	40.82	17.21	14.86	22.74												
100.00	100.00	100.00	100.00	0.12	0.12	40.82	17.21	14.86	22.74	22.50	0.24	95.921									
116.67	116.67	116.67	116.67	0.18	0.15	40.82	17.21	14.86	22.74	22.41	0.33	69.771	CC								
200.00	200.00	200.00	200.00	0.48	0.29	40.82	17.21	14.86	22.74	21.97	0.77	29.526	ES								
300.00	300.00	299.32	299.28	0.84	0.47	46.16	16.71	17.40	24.13	22.78	1.35	17.852									
350.00	350.00	348.82	348.67	1.02	0.58	51.94	16.09	20.55	26.13	24.45	1.69	15.491									
400.00	399.99	398.17	397.82	1.19	0.69	-56.73	15.23	24.94	28.94	26.91	2.03	14.236									
500.00	499.85	496.57	495.38	1.54	0.97	-49.38	12.78	37.41	35.75	33.00	2.76	12.972									
600.00	599.29	594.55	591.75	1.90	1.33	-45.67	9.39	54.71	43.62	40.12	3.50	12.461									
700.00	698.04	692.09	686.66	2.28	1.77	-44.16	5.07	76.73	52.22	47.96	4.27	12.242									
800.00	795.85	789.19	779.89	2.70	2.30	-43.95	-0.15	103.34	61.44	56.37	5.07	12.124									
900.00	892.43	885.85	871.20	3.17	2.92	-44.53	-6.25	134.41	71.22	65.29	5.93	12.016									
1,000.00	987.52	982.06	960.38	3.71	3.63	-45.59	-13.19	169.80	81.58	74.71	6.87	11.872									
1,100.00	1,080.87	1,077.82	1,047.23	4.33	4.43	-46.94	-20.95	209.36	92.53	84.60	7.93	11.671									
1,200.00	1,172.22	1,173.12	1,131.56	5.04	5.32	-48.45	-29.50	252.92	104.08	94.96	9.13	11.406									
1,300.00	1,261.31	1,267.99	1,213.19	5.85	6.29	-50.03	-38.80	300.33	116.26	105.77	10.49	11.082									
1,400.00	1,347.90	1,363.80	1,293.22	6.79	7.34	-51.72	-48.93	352.01	128.91	116.89	12.02	10.724									
1,500.00	1,431.76	1,462.96	1,375.37	7.86	8.44	-54.54	-59.62	406.51	139.55	125.71	13.84	10.083									
1,603.26	1,515.23	1,565.24	1,460.11	9.10	9.57	-58.80	-70.65	462.72	148.02	131.85	16.16	9.158									
1,700.00	1,591.88	1,660.92	1,539.38	10.35	10.64	-63.38	-80.97	515.30	155.50	136.86	18.64	8.343									
1,800.00	1,671.11	1,759.82	1,621.32	11.67	11.75	-67.66	-91.63	569.65	164.19	142.89	21.30	7.708									
1,900.00	1,750.34	1,858.73	1,703.25	13.01	12.86	-71.49	-102.29	624.00	173.70	149.69	24.01	7.234									
2,000.00	1,829.57	1,957.63	1,785.19	14.36	13.97	-74.91	-112.95	678.35	183.92	157.17	26.74	6.877									
2,100.00	1,908.81	2,056.53	1,867.13	15.72	15.08	-77.97	-123.62	732.70	194.71	165.25	29.46	6.609									
2,200.00	1,988.04	2,155.43	1,949.07	17.09	16.19	-80.70	-134.28	787.05	206.01	173.84	32.16	6.405									
2,300.00	2,067.27	2,254.33	2,031.00	18.46	17.30	-83.15	-144.94	841.41	217.72	182.88	34.84	6.249									
2,400.00	2,146.50	2,353.23	2,112.94	19.84	18.41	-85.34	-155.60	895.76	229.78	192.30	37.49	6.130									
2,500.00	2,225.73	2,452.14	2,194.88	21.23	19.52	-87.32	-166.26	950.11	242.15	202.05	40.10	6.038									
2,600.00	2,304.96	2,551.04	2,276.82	22.62	20.64	-89.10	-176.93	1,004.46	254.77	212.08	42.69	5.967									
2,700.00	2,384.19	2,649.94	2,358.76	24.00	21.75	-90.71	-187.59	1,058.81	267.62	222.36	45.26	5.913									
2,800.00	2,463.42	2,748.84	2,440.69	25.40	22.87	-92.18	-198.25	1,113.16	280.65	232.85	47.80	5.871									
2,900.00	2,542.66	2,847.74	2,522.63	26.79	23.98	-93.51	-208.91	1,167.52	293.85	243.53	50.32	5.840									
3,000.00	2,621.89	2,946.64	2,604.57	28.18	25.09	-94.73	-219.58	1,221.87	307.20	254.38	52.82	5.816									
3,100.00	2,701.12	3,045.55	2,686.51	29.58	26.21	-95.85	-230.24	1,276.22	320.67	265.37	55.30	5.798									
3,200.00	2,780.35	3,144.45	2,768.44	30.98	27.32	-96.88	-240.90	1,330.57	334.25	276.48	57.77	5.786									
3,300.00	2,859.58	3,243.35	2,850.38	32.38	28.44	-97.83	-251.56	1,384.92	347.93	287.70	60.22	5.777									
3,400.00	2,938.81	3,342.25	2,932.32	33.78	29.55	-98.70	-262.23	1,439.27	361.69	299.03	62.66	5.772									
3,500.00	3,018.04	3,441.15	3,014.26	35.18	30.67	-99.51	-272.89	1,493.62	375.53	310.44	65.09	5.769									
3,600.00	3,097.27	3,540.06	3,096.19	36.58	31.78	-100.27	-283.55	1,547.98	389.45	321.94	67.51	5.769	SF								
3,700.00	3,176.51	3,638.96	3,178.13	37.98	32.90	-100.97	-294.21	1,602.33	403.42	333.50	69.92	5.770									
3,800.00	3,255.74	3,737.86	3,260.07	39.38	34.01	-101.63	-304.87	1,656.68	417.45	345.13	72.32	5.772									
3,900.00	3,334.97	3,836.76	3,342.01	40.78	35.13	-102.24	-315.54	1,711.03	431.53	356.81	74.71	5.776									
4,000.00	3,414.20	3,935.66	3,423.95	42.19	36.25	-102.81	-326.20	1,765.38	445.65	368.55	77.10	5.780									
4,100.00	3,493.43	4,034.56	3,505.88	43.59	37.36	-103.35	-336.86	1,819.73	459.82	380.34	79.48	5.785									
4,200.00	3,572.66	4,133.47	3,587.82	44.99	38.48	-103.86	-347.52	1,874.09	474.02	392.16	81.86	5.791									
4,300.00	3,651.89	4,232.37	3,669.76	46.40	39.59	-104.34	-358.19	1,928.44	488.26	404.03	84.22	5.797									
4,400.00	3,731.12	4,331.27	3,751.70	47.80	40.71	-104.79	-368.85	1,982.79	502.52	415.94	86.59	5.804									
4,500.00	3,810.36	4,430.17	3,833.63	49.20	41.82	-105.21	-379.51	2,037.14	516.82	427.87	88.95	5.810									
4,600.00	3,889.59	4,529.07	3,915.57	50.61	42.94	-105.61	-390.17	2,091.49	531.15	439.84	91.31	5.817									
4,700.00	3,968.82	4,627.97	3,997.51	52.01	44.05	-105.99	-400.84	2,145.84	545.49	451.83	93.66	5.824									
4,800.00	4,048.05	4,726.88	4,079.45	53.42	45.17	-106.36	-411.50	2,200.20	559.86	463.86	96.01	5.831									
4,900.00	4,127.28	4,825.78	4,161.38	54.82	46.29	-106.70	-422.16	2,254.55	574.25	475.90	98.35	5.839									

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
5,000.00	4,206.51	4,924.68	4,243.32	56.23	47.40	-107.03	-432.82	2,308.90	588.67	487.97	100.70	5.846			
5,100.00	4,285.74	5,023.58	4,325.26	57.64	48.52	-107.34	-443.48	2,363.25	603.09	500.06	103.04	5.853			
5,200.00	4,364.97	5,122.48	4,407.20	59.04	49.63	-107.63	-454.15	2,417.60	617.54	512.16	105.38	5.860			
5,300.00	4,444.21	5,221.39	4,489.13	60.45	50.75	-107.92	-464.81	2,471.95	632.00	524.29	107.71	5.868			
5,400.00	4,523.44	5,320.29	4,571.07	61.85	51.87	-108.19	-475.47	2,526.30	646.47	536.43	110.04	5.875			
5,500.00	4,602.67	5,419.19	4,653.01	63.26	52.98	-108.45	-486.13	2,580.66	660.96	548.59	112.38	5.882			
5,600.00	4,681.90	5,518.09	4,734.95	64.67	54.10	-108.69	-496.80	2,635.01	675.46	560.76	114.71	5.889			
5,700.00	4,761.13	5,616.99	4,816.89	66.07	55.21	-108.93	-507.46	2,689.36	689.98	572.94	117.03	5.896			
5,800.00	4,840.36	5,715.89	4,898.82	67.48	56.33	-109.16	-518.12	2,743.71	704.50	585.14	119.36	5.902			
5,900.00	4,919.59	5,814.80	4,980.76	68.89	57.45	-109.38	-528.78	2,798.06	719.03	597.35	121.69	5.909			
6,000.00	4,998.82	5,913.70	5,062.70	70.29	58.56	-109.59	-539.45	2,852.41	733.58	609.57	124.01	5.916			
6,100.00	5,078.06	6,012.60	5,144.64	71.70	59.68	-109.79	-550.11	2,906.77	748.13	621.80	126.33	5.922			
6,200.00	5,157.29	6,111.50	5,226.57	73.11	60.79	-109.98	-560.77	2,961.12	762.69	634.04	128.65	5.928			
6,300.00	5,236.52	6,210.40	5,308.51	74.51	61.91	-110.17	-571.43	3,015.47	777.26	646.29	130.97	5.935			
6,400.00	5,315.75	6,309.30	5,390.45	75.92	63.03	-110.35	-582.09	3,069.82	791.84	658.55	133.29	5.941			
6,500.00	5,394.98	6,408.21	5,472.39	77.33	64.14	-110.52	-592.76	3,124.17	806.43	670.82	135.61	5.947			
6,600.00	5,474.21	6,507.11	5,554.32	78.73	65.26	-110.69	-603.42	3,178.52	821.02	683.10	137.92	5.953			
6,700.00	5,553.44	6,606.01	5,636.26	80.14	66.38	-110.85	-614.08	3,232.88	835.62	695.38	140.24	5.959			
6,800.00	5,632.67	6,704.91	5,718.20	81.55	67.49	-111.00	-624.74	3,287.23	850.22	707.67	142.55	5.964			
6,900.00	5,711.90	6,803.81	5,800.14	82.96	68.61	-111.15	-635.41	3,341.58	864.84	719.97	144.87	5.970			
7,000.00	5,791.14	6,902.72	5,882.07	84.36	69.72	-111.30	-646.07	3,395.93	879.45	732.27	147.18	5.975			
7,100.00	5,870.37	7,001.62	5,964.01	85.77	70.84	-111.44	-656.73	3,450.28	894.07	744.58	149.49	5.981			
7,200.00	5,949.60	7,100.52	6,045.95	87.18	71.96	-111.58	-667.39	3,504.63	908.70	756.90	151.81	5.986			
7,300.00	6,028.83	7,199.42	6,127.89	88.59	73.07	-111.71	-678.06	3,558.98	923.33	769.22	154.12	5.991			
7,400.00	6,108.06	7,298.32	6,209.83	89.99	74.19	-111.84	-688.72	3,613.34	937.97	781.54	156.43	5.996			
7,500.00	6,187.29	7,397.22	6,291.76	91.40	75.31	-111.96	-699.38	3,667.69	952.61	793.87	158.74	6.001			
7,600.00	6,266.52	7,496.13	6,373.70	92.81	76.42	-112.08	-710.04	3,722.04	967.26	806.21	161.05	6.006			
7,611.65	6,275.75	7,507.65	6,383.24	92.97	76.55	-112.09	-711.28	3,728.37	968.96	807.65	161.31	6.007			
7,700.00	6,346.98	7,590.09	6,451.90	94.16	77.45	-112.47	-720.07	3,773.15	981.28	818.07	163.21	6.012			
7,800.00	6,430.41	7,680.01	6,528.80	95.38	78.33	-112.83	-729.04	3,818.88	994.17	829.08	165.09	6.022			
7,900.00	6,516.61	7,769.95	6,607.82	96.46	79.12	-113.15	-737.31	3,861.02	1,005.97	839.19	166.78	6.032			
8,000.00	6,605.34	7,859.93	6,688.80	97.42	79.83	-113.43	-744.85	3,899.48	1,016.66	848.38	168.28	6.042			
8,100.00	6,696.36	7,949.94	6,771.57	98.24	80.45	-113.66	-751.65	3,934.16	1,026.20	856.60	169.60	6.051			
8,200.00	6,789.43	8,040.00	6,855.97	98.95	81.00	-113.85	-757.70	3,964.99	1,034.58	863.84	170.74	6.059			
8,300.00	6,884.28	8,130.12	6,941.80	99.54	81.47	-114.00	-762.98	3,991.90	1,041.77	870.05	171.72	6.067			
8,400.00	6,980.66	8,220.29	7,028.88	100.02	81.86	-114.11	-767.48	4,014.83	1,047.77	875.23	172.54	6.073			
8,500.00	7,078.29	8,310.53	7,117.04	100.41	82.17	-114.18	-771.18	4,033.70	1,052.54	879.33	173.21	6.077			
8,600.00	7,176.93	8,399.98	7,205.23	100.71	82.41	-114.21	-774.06	4,048.36	1,056.10	882.36	173.74	6.079			
8,700.00	7,276.28	8,491.20	7,295.78	100.93	82.57	-114.20	-776.17	4,059.12	1,058.41	884.27	174.14	6.078			
8,800.00	7,376.09	8,581.64	7,385.97	101.09	82.66	-114.14	-777.44	4,065.58	1,059.49	885.07	174.42	6.074			
8,864.91	7,440.99	8,640.38	7,444.67	101.16	82.69	0.25	-777.82	4,067.53	1,059.53	884.97	174.56	6.070			
8,883.40	7,459.48	8,657.13	7,461.42	101.18	82.70	124.50	-777.86	4,067.77	1,059.49	884.91	174.59	6.069			
8,893.09	7,469.17	8,665.90	7,470.19	101.19	82.70	124.51	-777.88	4,067.83	1,059.50	884.90	174.60	6.068			
8,900.00	7,476.08	8,675.69	7,479.99	101.19	82.70	124.51	-777.88	4,067.85	1,059.52	884.90	174.62	6.068			
8,901.16	7,477.23	8,675.69	7,479.99	101.19	82.70	124.51	-777.88	4,067.85	1,059.52	884.90	174.62	6.068			
9,000.00	7,576.08	8,772.00	7,576.29	101.27	82.73	124.53	-777.89	4,067.84	1,059.79	885.04	174.75	6.065			
9,100.00	7,676.07	8,872.21	7,676.51	101.36	82.76	124.55	-777.92	4,067.79	1,060.04	885.15	174.88	6.061			
9,200.00	7,776.07	8,972.43	7,776.72	101.44	82.80	124.57	-777.97	4,067.72	1,060.26	885.24	175.02	6.058			
9,300.00	7,876.07	9,072.65	7,876.94	101.52	82.83	124.59	-778.04	4,067.61	1,060.47	885.32	175.16	6.054			
9,400.00	7,976.07	9,172.87	7,977.16	101.61	82.86	124.60	-778.14	4,067.47	1,060.66	885.37	175.29	6.051			
9,500.00	8,076.07	9,273.09	8,077.38	101.69	82.89	124.61	-778.25	4,067.30	1,060.82	885.40	175.43	6.047			
9,600.00	8,176.07	9,373.31	8,177.60	101.78	82.92	124.62	-778.38	4,067.10	1,060.97	885.41	175.56	6.043			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
9,700.00	8,276.07	9,473.53	8,277.82	101.87	82.95	124.63	-778.54	4,066.87	1,061.09	885.40	175.70	6.039			
9,800.00	8,376.07	9,573.75	8,378.04	101.96	82.98	124.64	-778.71	4,066.61	1,061.20	885.37	175.83	6.035			
9,900.00	8,476.06	9,673.97	8,478.26	102.05	83.02	124.65	-778.91	4,066.31	1,061.28	885.31	175.97	6.031			
10,000.00	8,576.06	9,774.19	8,578.48	102.14	83.05	124.65	-779.12	4,065.99	1,061.34	885.24	176.10	6.027			
10,100.00	8,676.06	9,874.42	8,678.70	102.24	83.08	124.66	-779.36	4,065.63	1,061.38	885.15	176.23	6.023			
10,200.00	8,776.06	9,974.64	8,778.92	102.33	83.11	124.66	-779.61	4,065.24	1,061.40	885.04	176.37	6.018			
10,300.00	8,876.06	10,074.86	8,879.14	102.43	83.14	124.66	-779.89	4,064.83	1,061.40	884.90	176.50	6.014			
10,400.00	8,976.06	10,175.08	8,979.36	102.52	83.17	124.65	-780.19	4,064.38	1,061.38	884.75	176.63	6.009			
10,500.00	9,076.06	10,275.30	9,079.58	102.62	83.20	124.65	-780.51	4,063.90	1,061.34	884.58	176.76	6.004			
10,600.00	9,176.06	10,375.52	9,179.80	102.72	83.23	124.64	-780.85	4,063.38	1,061.28	884.38	176.90	5.999			
10,700.00	9,276.06	10,475.64	9,279.92	102.82	83.26	124.64	-781.21	4,062.85	1,061.20	884.17	177.03	5.995			
10,800.00	9,376.05	10,575.64	9,379.92	102.92	83.30	124.63	-781.57	4,062.30	1,061.11	883.95	177.16	5.990			
10,900.00	9,476.05	10,675.64	9,479.91	103.03	83.33	124.62	-781.93	4,061.76	1,061.03	883.73	177.29	5.985			
11,000.00	9,576.05	10,775.64	9,579.91	103.13	83.36	124.61	-782.29	4,061.22	1,060.94	883.51	177.43	5.979			
11,100.00	9,676.05	10,875.64	9,679.91	103.24	83.39	124.61	-782.65	4,060.67	1,060.86	883.29	177.57	5.974			
11,200.00	9,776.05	10,975.64	9,779.91	103.34	83.42	124.60	-783.01	4,060.13	1,060.77	883.07	177.71	5.969			
11,300.00	9,876.05	11,075.64	9,879.90	103.45	83.46	124.59	-783.37	4,059.59	1,060.69	882.84	177.85	5.964			
11,400.00	9,976.05	11,175.64	9,979.90	103.56	83.49	124.59	-783.73	4,059.05	1,060.61	882.62	177.99	5.959			
11,500.00	10,076.05	11,275.64	10,079.90	103.67	83.52	124.58	-784.09	4,058.50	1,060.52	882.39	178.13	5.954			
11,600.00	10,176.04	11,375.64	10,179.90	103.78	83.56	124.57	-784.45	4,057.96	1,060.44	882.16	178.28	5.948			
11,700.00	10,276.04	11,475.64	10,279.90	103.89	83.59	124.56	-784.81	4,057.42	1,060.35	881.93	178.43	5.943			
11,800.00	10,376.04	11,575.64	10,379.89	104.00	83.63	124.56	-785.17	4,056.87	1,060.27	881.70	178.57	5.937			
11,900.00	10,476.04	11,675.64	10,479.89	104.12	83.66	124.55	-785.53	4,056.33	1,060.18	881.46	178.72	5.932			
12,000.00	10,576.04	11,775.64	10,579.89	104.23	83.70	124.54	-785.89	4,055.79	1,060.10	881.23	178.88	5.926			
12,100.00	10,676.04	11,875.64	10,679.89	104.35	83.74	124.53	-786.25	4,055.24	1,060.02	880.99	179.03	5.921			
12,200.00	10,776.04	11,975.64	10,779.88	104.47	83.77	124.53	-786.61	4,054.70	1,059.93	880.75	179.18	5.915			
12,300.00	10,876.04	12,075.64	10,879.88	104.58	83.81	124.52	-786.97	4,054.16	1,059.85	880.51	179.34	5.910			
12,400.00	10,976.03	12,175.64	10,979.88	104.70	83.85	124.51	-787.33	4,053.62	1,059.76	880.27	179.50	5.904			
12,489.94	11,065.98	12,265.58	11,069.82	104.81	83.88	124.51	-787.65	4,053.13	1,059.69	880.05	179.64	5.899			
12,500.00	11,076.03	12,275.64	11,079.88	104.82	83.88	124.50	-787.69	4,053.07	1,059.68	880.02	179.66	5.898			
12,600.00	11,176.03	12,375.64	11,179.88	104.95	83.92	124.50	-788.05	4,052.53	1,059.60	879.78	179.82	5.893			
12,700.00	11,276.03	12,475.64	11,279.87	105.07	83.96	124.49	-788.41	4,051.99	1,059.51	879.53	179.98	5.887			
12,800.00	11,376.03	12,575.64	11,379.87	105.19	84.00	124.48	-788.77	4,051.44	1,059.43	879.29	180.14	5.881			
12,851.46	11,427.49	12,627.09	11,431.33	105.26	84.02	124.48	-788.96	4,051.16	1,059.38	879.16	180.23	5.878			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: 0-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
0.00	0.00	0.00	0.00	0.00	0.00	14.92	29.35	7.82	30.38													
100.00	100.00	100.00	100.00	0.12	0.12	14.92	29.35	7.82	30.38	30.14	0.24	128.155										
200.00	200.00	200.00	200.00	0.48	0.29	14.92	29.35	7.82	30.38	29.61	0.77	39.448										
300.00	300.00	301.11	301.06	0.84	0.48	11.34	27.87	5.59	28.45	27.07	1.38	20.652										
350.00	350.00	351.49	351.33	1.02	0.59	6.17	26.03	2.82	26.22	24.53	1.69	15.489										
400.00	399.99	401.61	401.24	1.19	0.70	-118.34	23.48	-1.04	23.84	21.87	1.97	12.120										
443.12	443.09	444.51	443.85	1.34	0.82	-132.94	20.72	-5.21	22.86	20.67	2.19	10.451 CC, ES										
500.00	499.85	500.45	499.21	1.54	0.98	-156.76	16.32	-11.84	25.45	22.92	2.54	10.035 SF										
600.00	599.29	596.45	593.61	1.90	1.34	173.55	6.70	-26.36	43.75	40.31	3.44	12.735										
700.00	698.04	690.77	685.71	2.28	1.71	161.64	-4.52	-43.29	73.98	69.88	4.10	18.061										
800.00	795.85	783.86	776.60	2.70	2.09	157.41	-15.65	-60.09	110.04	105.39	4.65	23.658										
900.00	892.43	875.17	865.74	3.17	2.46	155.83	-26.57	-76.57	150.73	145.52	5.21	28.919										
1,000.00	987.52	964.45	952.90	3.71	2.83	155.30	-37.25	-92.69	195.75	189.96	5.79	33.788										
1,100.00	1,080.87	1,051.46	1,037.84	4.33	3.19	155.24	-47.66	-108.39	244.97	238.58	6.40	38.299										
1,200.00	1,172.22	1,135.95	1,120.33	5.04	3.54	155.36	-57.76	-123.64	298.32	291.30	7.02	42.503										
1,300.00	1,261.31	1,217.70	1,200.14	5.85	3.88	155.53	-67.54	-138.39	355.68	348.03	7.66	46.454										
1,400.00	1,347.90	1,296.48	1,277.05	6.79	4.21	155.69	-76.96	-152.61	416.97	408.66	8.31	50.203										
1,500.00	1,431.76	1,372.07	1,350.86	7.86	4.53	155.79	-86.00	-166.26	482.05	473.09	8.96	53.792										
1,603.26	1,515.23	1,446.57	1,423.59	9.10	4.84	155.80	-94.91	-179.70	553.09	543.45	9.64	57.377										
1,700.00	1,591.88	1,514.60	1,490.01	10.35	5.13	156.81	-103.05	-191.98	621.47	611.20	10.27	60.524										
1,800.00	1,671.11	1,584.93	1,558.66	11.67	5.42	157.65	-111.46	-204.68	692.23	681.32	10.91	63.427										
1,900.00	1,750.34	1,655.25	1,627.32	13.01	5.72	158.34	-119.87	-217.37	763.06	751.49	11.57	65.975										
2,000.00	1,829.57	1,725.58	1,695.98	14.36	6.01	158.91	-128.28	-230.06	833.93	821.71	12.22	68.225										
2,100.00	1,908.81	1,795.90	1,764.63	15.72	6.31	159.39	-136.69	-242.75	904.84	891.96	12.89	70.224										
2,200.00	1,988.04	1,866.23	1,833.29	17.09	6.61	159.80	-145.10	-255.45	975.77	962.22	13.55	72.008										
2,300.00	2,067.27	1,936.55	1,901.95	18.46	6.90	160.15	-153.51	-268.14	1,046.73	1,032.51	14.22	73.609										
2,400.00	2,146.50	2,006.88	1,970.60	19.84	7.20	160.47	-161.92	-280.83	1,117.70	1,102.81	14.89	75.053										
2,500.00	2,225.73	2,077.20	2,039.26	21.23	7.49	160.74	-170.33	-293.53	1,188.69	1,173.13	15.57	76.361										
2,600.00	2,304.96	2,147.53	2,107.92	22.62	7.79	160.98	-178.75	-306.22	1,259.69	1,243.45	16.24	77.550										
2,700.00	2,384.19	2,217.85	2,176.57	24.00	8.08	161.20	-187.16	-318.91	1,330.70	1,313.78	16.92	78.636										
2,800.00	2,463.42	2,288.18	2,245.23	25.40	8.38	161.39	-195.57	-331.60	1,401.72	1,384.12	17.60	79.632										
2,900.00	2,542.66	2,358.50	2,313.88	26.79	8.68	161.57	-203.98	-344.30	1,472.75	1,454.46	18.28	80.547										

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft							
Survey Program: O-MWD													Offset Well Error:		0.00 usft						
Reference													Offset		Semi Major Axis		Distance		Total	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor									
0.00	0.00	0.00	0.00	0.00	0.00	15.90	19.22	5.48	19.99												
100.00	100.00	100.00	100.00	0.12	0.12	15.90	19.22	5.48	19.99	19.75	0.24	84.334									
200.00	200.00	200.00	200.00	0.48	0.29	15.90	19.22	5.48	19.99	19.22	0.77	25.959									
300.00	300.00	300.00	300.00	0.84	0.47	15.90	19.22	5.48	19.99	18.69	1.30	15.341									
350.00	350.00	350.00	350.00	1.02	0.55	15.90	19.22	5.48	19.99	18.42	1.57	12.736 CC									
400.00	399.99	399.99	399.99	1.19	0.64	-100.28	19.22	5.48	20.10	18.27	1.83	10.980 ES									
500.00	499.85	499.85	499.85	1.54	0.81	-113.97	19.22	5.48	21.65	19.30	2.35	9.215									
600.00	599.29	599.29	599.29	1.90	0.99	-134.02	19.22	5.48	27.61	24.73	2.89	9.570									
700.00	698.04	699.58	699.53	2.28	1.17	-147.79	18.57	7.99	38.18	34.72	3.45	11.053									
800.00	795.85	800.54	800.18	2.70	1.37	-154.46	16.57	15.65	50.38	46.29	4.09	12.327									
900.00	892.43	902.18	900.92	3.17	1.62	-157.73	13.19	28.56	63.32	58.55	4.77	13.270									
1,000.00	987.52	1,004.49	1,001.47	3.71	1.94	-159.22	8.44	46.76	76.68	71.18	5.50	13.938									
1,100.00	1,080.87	1,107.46	1,101.51	4.33	2.36	-159.68	2.28	70.32	90.30	84.03	6.28	14.387									
1,200.00	1,172.22	1,211.09	1,200.72	5.04	2.88	-159.51	-5.28	99.26	104.13	97.03	7.11	14.647									
1,300.00	1,261.31	1,315.38	1,298.76	5.85	3.52	-158.92	-14.25	133.60	118.14	110.12	8.01	14.740									
1,400.00	1,347.90	1,420.30	1,395.31	6.79	4.29	-158.04	-24.63	173.31	132.29	123.27	9.01	14.675									
1,500.00	1,431.76	1,525.85	1,490.01	7.86	5.17	-156.94	-36.40	218.38	146.57	136.44	10.13	14.467									
1,603.26	1,515.23	1,635.50	1,585.50	9.10	6.22	-155.65	-50.02	270.49	161.46	150.03	11.44	14.116									
1,700.00	1,591.88	1,739.02	1,672.69	10.35	7.33	-154.12	-64.12	324.47	173.34	160.49	12.85	13.485									
1,800.00	1,671.11	1,845.23	1,758.91	11.67	8.56	-151.72	-79.79	384.46	181.32	166.75	14.56	12.449									
1,900.00	1,750.34	1,944.70	1,838.51	13.01	9.74	-149.31	-94.87	442.17	188.04	171.66	16.38	11.480									
2,000.00	1,829.57	2,044.17	1,918.11	14.36	10.92	-147.07	-109.95	499.87	195.08	176.74	18.34	10.636									
2,100.00	1,908.81	2,143.64	1,997.72	15.72	12.12	-144.98	-125.03	557.58	202.40	181.97	20.42	9.910									
2,200.00	1,988.04	2,243.11	2,077.32	17.09	13.31	-143.04	-140.10	615.29	209.96	187.36	22.61	9.287									
2,300.00	2,067.27	2,342.57	2,156.92	18.46	14.51	-141.24	-155.18	672.99	217.75	192.88	24.87	8.754									
2,400.00	2,146.50	2,442.04	2,236.53	19.84	15.71	-139.56	-170.26	730.70	225.74	198.53	27.21	8.296									
2,500.00	2,225.73	2,541.51	2,316.13	21.23	16.92	-138.00	-185.34	788.41	233.91	204.31	29.60	7.902									
2,600.00	2,304.96	2,640.98	2,395.73	22.62	18.12	-136.54	-200.41	846.11	242.24	210.20	32.04	7.561									
2,700.00	2,384.19	2,740.45	2,475.34	24.00	19.33	-135.19	-215.49	903.82	250.72	216.20	34.51	7.264									
2,800.00	2,463.42	2,839.92	2,554.94	25.40	20.54	-133.92	-230.57	961.53	259.32	222.30	37.02	7.005									
2,900.00	2,542.66	2,939.39	2,634.54	26.79	21.75	-132.73	-245.64	1,019.24	268.05	228.50	39.55	6.777									
3,000.00	2,621.89	3,038.86	2,714.15	28.18	22.96	-131.62	-260.72	1,076.94	276.88	234.78	42.10	6.576									
3,100.00	2,701.12	3,138.33	2,793.75	29.58	24.17	-130.57	-275.80	1,134.65	285.81	241.14	44.67	6.398									
3,200.00	2,780.35	3,237.80	2,873.36	30.98	25.38	-129.59	-290.88	1,192.36	294.83	247.58	47.25	6.239									
3,300.00	2,859.58	3,337.27	2,952.96	32.38	26.59	-128.67	-305.95	1,250.06	303.93	254.08	49.85	6.097									
3,400.00	2,938.81	3,436.74	3,032.56	33.78	27.80	-127.80	-321.03	1,307.77	313.10	260.65	52.45	5.969									
3,500.00	3,018.04	3,536.21	3,112.17	35.18	29.01	-126.98	-336.11	1,365.48	322.34	267.28	55.06	5.854									
3,600.00	3,097.27	3,635.68	3,191.77	36.58	30.23	-126.21	-351.19	1,423.18	331.65	273.97	57.68	5.750									
3,700.00	3,176.51	3,735.15	3,271.37	37.98	31.44	-125.48	-366.26	1,480.89	341.00	280.71	60.30	5.655									
3,800.00	3,255.74	3,834.61	3,350.98	39.38	32.65	-124.79	-381.34	1,538.60	350.42	287.49	62.92	5.569									
3,900.00	3,334.97	3,934.08	3,430.58	40.78	33.86	-124.13	-396.42	1,596.30	359.87	294.32	65.55	5.490									
4,000.00	3,414.20	4,033.55	3,510.18	42.19	35.08	-123.51	-411.49	1,654.01	369.38	301.20	68.18	5.418									
4,100.00	3,493.43	4,133.02	3,589.79	43.59	36.29	-122.92	-426.57	1,711.72	378.92	308.11	70.81	5.351									
4,200.00	3,572.66	4,232.49	3,669.39	44.99	37.50	-122.36	-441.65	1,769.43	388.50	315.06	73.45	5.290									
4,300.00	3,651.89	4,331.96	3,749.00	46.40	38.72	-121.83	-456.73	1,827.13	398.12	322.04	76.08	5.233									
4,400.00	3,731.12	4,431.43	3,828.60	47.80	39.93	-121.32	-471.80	1,884.84	407.77	329.06	78.72	5.180									
4,500.00	3,810.36	4,530.90	3,908.20	49.20	41.15	-120.83	-486.88	1,942.55	417.45	336.10	81.35	5.131									
4,600.00	3,889.59	4,630.37	3,987.81	50.61	42.36	-120.37	-501.96	2,000.25	427.16	343.17	83.99	5.086									
4,700.00	3,968.82	4,729.84	4,067.41	52.01	43.57	-119.92	-517.04	2,057.96	436.90	350.27	86.62	5.044									
4,800.00	4,048.05	4,829.31	4,147.01	53.42	44.79	-119.50	-532.11	2,115.67	446.66	357.40	89.26	5.004									
4,900.00	4,127.28	4,928.78	4,226.62	54.82	46.00	-119.09	-547.19	2,173.37	456.44	364.55	91.89	4.967									
5,000.00	4,206.51	5,028.25	4,306.22	56.23	47.22	-118.71	-562.27	2,231.08	466.25	371.72	94.53	4.932									

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: 0-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
5,100.00	4,285.74	5,127.72	4,385.82	57.64	48.43	-118.33	-577.35	2,288.79	476.07	378.91	97.16	4.900										
5,200.00	4,364.97	5,227.19	4,465.43	59.04	49.65	-117.98	-592.42	2,346.49	485.92	386.12	99.80	4.869										
5,300.00	4,444.21	5,326.65	4,545.03	60.45	50.86	-117.63	-607.50	2,404.20	495.78	393.35	102.43	4.840										
5,400.00	4,523.44	5,426.12	4,624.63	61.85	52.08	-117.30	-622.58	2,461.91	505.66	400.60	105.06	4.813										
5,500.00	4,602.67	5,525.59	4,704.24	63.26	53.29	-116.98	-637.65	2,519.62	515.56	407.87	107.69	4.787										
5,600.00	4,681.90	5,625.06	4,783.84	64.67	54.51	-116.68	-652.73	2,577.32	525.47	415.15	110.32	4.763										
5,700.00	4,761.13	5,724.53	4,863.45	66.07	55.72	-116.39	-667.81	2,635.03	535.39	422.44	112.95	4.740										
5,800.00	4,840.36	5,824.00	4,943.05	67.48	56.94	-116.10	-682.89	2,692.74	545.33	429.75	115.58	4.718										
5,900.00	4,919.59	5,923.47	5,022.65	68.89	58.15	-115.83	-697.96	2,750.44	555.28	437.07	118.21	4.697										
6,000.00	4,998.82	6,022.94	5,102.26	70.29	59.37	-115.57	-713.04	2,808.15	565.25	444.41	120.84	4.678										
6,100.00	5,078.06	6,122.41	5,181.86	71.70	60.58	-115.31	-728.12	2,865.86	575.22	451.76	123.47	4.659										
6,200.00	5,157.29	6,221.88	5,261.46	73.11	61.80	-115.06	-743.20	2,923.56	585.21	459.11	126.09	4.641										
6,300.00	5,236.52	6,321.35	5,341.07	74.51	63.01	-114.83	-758.27	2,981.27	595.20	466.48	128.72	4.624										
6,400.00	5,315.75	6,420.82	5,420.67	75.92	64.23	-114.60	-773.35	3,038.98	605.21	473.87	131.34	4.608										
6,500.00	5,394.98	6,520.29	5,500.27	77.33	65.44	-114.38	-788.43	3,096.68	615.23	481.26	133.97	4.592										
6,600.00	5,474.21	6,619.76	5,579.88	78.73	66.66	-114.16	-803.51	3,154.39	625.25	488.66	136.59	4.577										
6,700.00	5,553.44	6,719.23	5,659.48	80.14	67.87	-113.95	-818.58	3,212.10	635.28	496.07	139.22	4.563										
6,800.00	5,632.67	6,818.69	5,739.09	81.55	69.09	-113.75	-833.66	3,269.80	645.32	503.48	141.84	4.550										
6,900.00	5,711.90	6,918.16	5,818.69	82.96	70.30	-113.55	-848.74	3,327.51	655.37	510.91	144.46	4.537										
7,000.00	5,791.14	7,017.63	5,898.29	84.36	71.52	-113.36	-863.81	3,385.22	665.43	518.35	147.08	4.524										
7,100.00	5,870.37	7,117.10	5,977.90	85.77	72.73	-113.18	-878.89	3,442.93	675.49	525.79	149.70	4.512										
7,200.00	5,949.60	7,216.57	6,057.50	87.18	73.95	-113.00	-893.97	3,500.63	685.56	533.24	152.32	4.501										
7,300.00	6,028.83	7,316.04	6,137.10	88.59	75.16	-112.83	-909.05	3,558.34	695.64	540.69	154.94	4.490										
7,400.00	6,108.06	7,415.51	6,216.71	89.99	76.38	-112.66	-924.12	3,616.05	705.72	548.16	157.56	4.479										
7,500.00	6,187.29	7,514.98	6,296.31	91.40	77.60	-112.50	-939.20	3,673.75	715.80	555.63	160.18	4.469										
7,600.00	6,266.52	7,609.41	6,372.31	92.81	78.72	-112.40	-953.37	3,727.97	726.10	563.51	162.59	4.466										
7,611.65	6,275.75	7,619.97	6,380.95	92.97	78.83	-112.41	-954.90	3,733.85	727.36	564.53	162.83	4.467										
7,700.00	6,346.98	7,699.98	6,447.48	94.16	79.69	-112.74	-966.14	3,776.85	736.70	572.09	164.61	4.475										
7,800.00	6,430.41	7,790.63	6,525.01	95.38	80.56	-113.07	-978.00	3,822.26	746.51	580.07	166.44	4.485										
7,900.00	6,516.61	7,881.14	6,604.57	96.46	81.35	-113.35	-988.91	3,864.01	755.47	587.40	168.07	4.495										
8,000.00	6,605.34	7,971.61	6,686.04	97.42	82.06	-113.60	-998.85	3,902.04	763.57	594.05	169.52	4.504										
8,100.00	6,696.36	8,062.05	6,769.26	98.24	82.68	-113.80	-1,007.79	3,936.29	770.80	600.00	170.80	4.513										
8,200.00	6,789.43	8,152.47	6,854.04	98.95	83.22	-113.96	-1,015.73	3,966.68	777.12	605.21	171.90	4.521										
8,300.00	6,884.28	8,242.89	6,940.21	99.54	83.69	-114.08	-1,022.65	3,993.15	782.53	609.68	172.85	4.527										
8,400.00	6,980.66	8,333.32	7,027.59	100.02	84.07	-114.17	-1,028.53	4,015.65	787.01	613.37	173.64	4.532										
8,500.00	7,078.29	8,423.76	7,115.98	100.41	84.38	-114.22	-1,033.36	4,034.13	790.56	616.26	174.29	4.536										
8,600.00	7,176.93	8,514.23	7,205.21	100.71	84.61	-114.22	-1,037.12	4,048.54	793.16	618.35	174.81	4.537										
8,700.00	7,276.28	8,604.73	7,295.07	100.93	84.77	-114.19	-1,039.82	4,058.85	794.81	619.60	175.21	4.536										
8,800.00	7,376.09	8,699.98	7,390.09	101.09	84.87	-114.12	-1,041.49	4,065.24	795.52	620.00	175.52	4.532										
8,864.91	7,440.99	8,754.09	7,444.17	101.16	84.88	0.28	-1,041.90	4,066.83	795.44	619.81	175.63	4.529										
8,883.38	7,459.45	8,770.83	7,460.91	101.18	84.89	124.54	-1,041.95	4,067.02	795.41	619.75	175.66	4.528										
8,893.09	7,469.17	8,779.64	7,469.71	101.19	84.89	124.54	-1,041.96	4,067.06	795.42	619.74	175.67	4.528										
8,900.00	7,476.08	8,786.00	7,476.08	101.19	84.89	124.54	-1,041.96	4,067.07	795.44	619.75	175.68	4.528										
9,000.00	7,576.08	8,886.17	7,576.24	101.27	84.93	124.57	-1,041.97	4,067.05	795.70	619.87	175.83	4.525										
9,100.00	7,676.07	8,986.33	7,676.41	101.36	84.96	124.60	-1,042.01	4,067.00	795.95	619.98	175.97	4.523										
9,200.00	7,776.07	9,086.50	7,776.57	101.44	84.99	124.62	-1,042.06	4,066.93	796.18	620.06	176.12	4.521										
9,300.00	7,876.07	9,186.66	7,876.74	101.52	85.02	124.64	-1,042.13	4,066.82	796.38	620.12	176.26	4.518										
9,400.00	7,976.07	9,286.83	7,976.90	101.61	85.05	124.66	-1,042.22	4,066.68	796.57	620.17	176.40	4.516										
9,500.00	8,076.07	9,386.99	8,077.07	101.69	85.08	124.68	-1,042.34	4,066.51	796.74	620.19	176.54	4.513										
9,600.00	8,176.07	9,487.16	8,177.23	101.78	85.11	124.69	-1,042.47	4,066.31	796.88	620.20	176.68	4.510										
9,700.00	8,276.07	9,587.33	8,277.40	101.87	85.14	124.71	-1,042.63	4,066.07	797.00	620.18	176.82	4.507										
9,800.00	8,376.07	9,687.49	8,377.57	101.96	85.17	124.72	-1,042.80	4,065.81	797.11	620.15	176.96	4.504										

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
9,900.00	8,476.06	9,787.66	8,477.73	102.05	85.21	124.72	-1,043.00	4,065.51	797.19	620.09	177.09	4.501			
10,000.00	8,576.06	9,887.83	8,577.90	102.14	85.24	124.73	-1,043.22	4,065.19	797.25	620.02	177.23	4.498			
10,100.00	8,676.06	9,987.99	8,678.06	102.24	85.27	124.73	-1,043.45	4,064.83	797.29	619.92	177.36	4.495			
10,200.00	8,776.06	10,088.16	8,778.23	102.33	85.30	124.73	-1,043.71	4,064.44	797.31	619.81	177.50	4.492			
10,300.00	8,876.06	10,188.33	8,878.39	102.43	85.33	124.73	-1,043.99	4,064.02	797.30	619.67	177.63	4.489			
10,400.00	8,976.06	10,288.49	8,978.56	102.52	85.36	124.73	-1,044.29	4,063.57	797.28	619.52	177.76	4.485			
10,500.00	9,076.06	10,388.66	9,078.72	102.62	85.39	124.73	-1,044.61	4,063.09	797.24	619.34	177.89	4.482			
10,600.00	9,176.06	10,488.83	9,178.89	102.72	85.42	124.72	-1,044.95	4,062.58	797.17	619.15	178.02	4.478			
10,700.00	9,276.06	10,588.91	9,278.97	102.82	85.45	124.71	-1,045.31	4,062.04	797.09	618.94	178.15	4.474			
10,800.00	9,376.05	10,688.91	9,378.97	102.92	85.48	124.70	-1,045.67	4,061.50	797.00	618.72	178.28	4.471			
10,900.00	9,476.05	10,788.91	9,478.96	103.03	85.52	124.69	-1,046.03	4,060.96	796.92	618.51	178.41	4.467			
11,000.00	9,576.05	10,888.91	9,578.96	103.13	85.55	124.68	-1,046.39	4,060.42	796.83	618.29	178.54	4.463			
11,100.00	9,676.05	10,988.91	9,678.96	103.24	85.58	124.67	-1,046.76	4,059.87	796.75	618.07	178.68	4.459			
11,200.00	9,776.05	11,088.91	9,778.96	103.34	85.61	124.66	-1,047.12	4,059.33	796.66	617.85	178.82	4.455			
11,300.00	9,876.05	11,188.91	9,878.95	103.45	85.65	124.65	-1,047.48	4,058.79	796.58	617.63	178.95	4.451			
11,400.00	9,976.05	11,288.91	9,978.95	103.56	85.68	124.64	-1,047.84	4,058.25	796.49	617.40	179.09	4.447			
11,500.00	10,076.05	11,388.91	10,078.95	103.67	85.71	124.63	-1,048.20	4,057.71	796.41	617.18	179.23	4.443			
11,600.00	10,176.04	11,488.91	10,178.95	103.78	85.75	124.62	-1,048.56	4,057.17	796.32	616.95	179.38	4.439			
11,700.00	10,276.04	11,588.91	10,278.95	103.89	85.78	124.61	-1,048.92	4,056.62	796.24	616.72	179.52	4.435			
11,800.00	10,376.04	11,688.91	10,378.94	104.00	85.82	124.60	-1,049.28	4,056.08	796.15	616.49	179.66	4.431			
11,900.00	10,476.04	11,788.91	10,478.94	104.12	85.85	124.59	-1,049.64	4,055.54	796.07	616.26	179.81	4.427			
12,000.00	10,576.04	11,888.91	10,578.94	104.23	85.89	124.58	-1,050.00	4,055.00	795.98	616.02	179.96	4.423			
12,100.00	10,676.04	11,988.91	10,678.94	104.35	85.92	124.57	-1,050.37	4,054.46	795.90	615.79	180.11	4.419			
12,200.00	10,776.04	12,088.90	10,778.93	104.47	85.96	124.56	-1,050.73	4,053.91	795.81	615.55	180.26	4.415			
12,300.00	10,876.04	12,188.90	10,878.93	104.58	86.00	124.55	-1,051.09	4,053.37	795.73	615.31	180.41	4.411			
12,400.00	10,976.03	12,288.90	10,978.93	104.70	86.03	124.54	-1,051.45	4,052.83	795.64	615.07	180.57	4.406			
12,489.94	11,065.98	12,378.85	11,068.87	104.81	86.07	124.54	-1,051.77	4,052.34	795.57	614.86	180.71	4.402			
12,500.00	11,076.03	12,388.90	11,078.93	104.82	86.07	124.53	-1,051.81	4,052.29	795.56	614.83	180.73	4.402			
12,600.00	11,176.03	12,488.90	11,178.93	104.95	86.11	124.52	-1,052.17	4,051.75	795.47	614.59	180.88	4.398			
12,700.00	11,276.03	12,588.90	11,278.92	105.07	86.14	124.51	-1,052.53	4,051.20	795.39	614.35	181.04	4.393			
12,800.00	11,376.03	12,688.90	11,378.92	105.19	86.18	124.51	-1,052.89	4,050.66	795.30	614.10	181.20	4.389			
12,851.46	11,427.49	12,740.36	11,430.38	105.26	86.20	124.50	-1,053.08	4,050.38	795.26	613.97	181.29	4.387 SF			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: O-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
0.00	0.00	0.00	0.00	0.00	0.00	60.54	7.07	12.52	14.37	14.14	0.24	60.644										
100.00	100.00	100.00	100.00	0.12	0.12	60.54	7.07	12.52	14.37	14.12	0.26	55.595 CC										
104.04	104.04	104.04	104.04	0.13	0.12	60.54	7.07	12.52	14.37	14.12	0.26	55.595 CC										
200.00	200.00	199.70	199.69	0.48	0.29	62.12	6.96	13.15	14.88	14.08	0.81	18.445 ES										
300.00	300.00	298.83	298.68	0.84	0.49	71.60	6.06	18.22	19.25	17.73	1.52	12.682										
350.00	350.00	348.13	347.77	1.02	0.62	76.85	5.29	22.63	23.34	21.45	1.90	12.298										
400.00	399.99	397.24	396.55	1.19	0.74	-33.61	4.29	28.25	28.24	25.98	2.27	12.458										
500.00	499.85	495.07	493.20	1.54	1.06	-30.20	1.66	43.13	38.56	35.58	2.98	12.920										
600.00	599.29	592.51	588.57	1.90	1.46	-28.95	-2.37	62.61	49.11	45.42	3.69	13.324										
700.00	698.04	689.46	682.35	2.28	1.94	-28.40	-8.14	86.48	59.66	55.26	4.40	13.566										
800.00	795.85	785.95	774.34	2.70	2.52	-28.23	-15.60	114.60	70.18	65.05	5.13	13.684										
900.00	892.43	881.98	864.32	3.17	3.17	-28.28	-24.70	146.84	80.63	74.74	5.89	13.695										
1,000.00	987.52	977.57	952.12	3.71	3.92	-28.48	-35.41	183.07	90.99	84.31	6.69	13.608										
1,100.00	1,080.87	1,072.75	1,037.55	4.33	4.75	-28.79	-47.68	223.16	101.25	93.71	7.54	13.430										
1,200.00	1,172.22	1,167.52	1,120.45	5.04	5.67	-29.17	-61.45	266.96	111.38	102.92	8.46	13.168										
1,300.00	1,261.31	1,261.90	1,200.65	5.85	6.68	-29.60	-76.69	314.32	121.35	111.89	9.46	12.832										
1,400.00	1,347.90	1,358.17	1,280.06	6.79	7.76	-30.17	-93.61	366.03	130.82	120.31	10.51	12.450										
1,500.00	1,431.76	1,457.92	1,361.84	7.86	8.89	-31.65	-111.42	420.29	136.62	124.90	11.72	11.654										
1,603.26	1,515.23	1,560.95	1,446.31	9.10	10.06	-34.36	-129.82	476.33	138.15	124.81	13.34	10.353										
1,700.00	1,591.88	1,657.39	1,525.38	10.35	11.16	-37.51	-147.04	528.79	137.78	122.58	15.20	9.064										
1,736.78	1,621.02	1,694.05	1,555.44	10.83	11.57	-38.71	-153.59	548.74	137.75	121.78	15.97	8.627										
1,800.00	1,671.11	1,757.08	1,607.12	11.67	12.29	-40.78	-164.85	583.02	137.84	120.49	17.35	7.943										
1,900.00	1,750.34	1,856.77	1,688.85	13.01	13.43	-44.03	-182.65	637.25	138.35	118.63	19.72	7.015										
2,000.00	1,829.57	1,956.46	1,770.59	14.36	14.57	-47.24	-200.45	691.47	139.30	117.03	22.27	6.255										
2,100.00	1,908.81	2,056.14	1,852.32	15.72	15.71	-50.40	-218.25	745.70	140.69	115.71	24.98	5.633										
2,200.00	1,988.04	2,155.83	1,934.06	17.09	16.86	-53.50	-236.05	799.93	142.50	114.70	27.80	5.126										
2,300.00	2,067.27	2,255.52	2,015.79	18.46	18.00	-56.50	-253.86	854.16	144.71	113.99	30.72	4.711										
2,400.00	2,146.50	2,355.21	2,097.53	19.84	19.14	-59.41	-271.66	908.38	147.31	113.62	33.70	4.372										
2,500.00	2,225.73	2,454.90	2,179.26	21.23	20.29	-62.21	-289.46	962.61	150.28	113.57	36.72	4.093										
2,600.00	2,304.96	2,554.59	2,260.99	22.62	21.43	-64.90	-307.26	1,016.84	153.60	113.84	39.75	3.864										
2,700.00	2,384.19	2,654.28	2,342.73	24.00	22.58	-67.47	-325.06	1,071.06	157.24	114.44	42.80	3.674										
2,800.00	2,463.42	2,753.97	2,424.46	25.40	23.72	-69.92	-342.87	1,125.29	161.18	115.36	45.82	3.517										
2,900.00	2,542.66	2,853.66	2,506.20	26.79	24.87	-72.24	-360.67	1,179.52	165.41	116.58	48.83	3.387										
3,000.00	2,621.89	2,953.35	2,587.93	28.18	26.01	-74.45	-378.47	1,233.74	169.89	118.08	51.81	3.279										
3,100.00	2,701.12	3,053.04	2,669.67	29.58	27.16	-76.55	-396.27	1,287.97	174.62	119.86	54.75	3.189										
3,200.00	2,780.35	3,152.73	2,751.40	30.98	28.30	-78.53	-414.07	1,342.20	179.56	121.90	57.66	3.114										
3,300.00	2,859.58	3,252.42	2,833.14	32.38	29.45	-80.40	-431.88	1,396.43	184.71	124.19	60.52	3.052										
3,400.00	2,938.81	3,352.11	2,914.87	33.78	30.59	-82.17	-449.68	1,450.65	190.04	126.70	63.34	3.000										
3,500.00	3,018.04	3,451.80	2,996.61	35.18	31.74	-83.84	-467.48	1,504.88	195.55	129.42	66.13	2.957										
3,600.00	3,097.27	3,551.49	3,078.34	36.58	32.89	-85.42	-485.28	1,559.11	201.21	132.35	68.87	2.922										
3,700.00	3,176.51	3,651.18	3,160.08	37.98	34.03	-86.91	-503.08	1,613.33	207.02	135.45	71.57	2.893										
3,800.00	3,255.74	3,750.87	3,241.81	39.38	35.18	-88.32	-520.89	1,667.56	212.96	138.73	74.24	2.869										
3,900.00	3,334.97	3,850.56	3,323.55	40.78	36.32	-89.66	-538.69	1,721.79	219.02	142.16	76.87	2.849										
4,000.00	3,414.20	3,950.25	3,405.28	42.19	37.47	-90.92	-556.49	1,776.01	225.20	145.74	79.46	2.834										
4,100.00	3,493.43	4,049.94	3,487.01	43.59	38.62	-92.11	-574.29	1,830.24	231.48	149.45	82.03	2.822										
4,200.00	3,572.66	4,149.63	3,568.75	44.99	39.76	-93.24	-592.09	1,884.47	237.85	153.28	84.56	2.813										
4,300.00	3,651.89	4,249.32	3,650.48	46.40	40.91	-94.31	-609.90	1,938.70	244.31	157.23	87.07	2.806										
4,400.00	3,731.12	4,349.01	3,732.22	47.80	42.06	-95.32	-627.70	1,992.92	250.85	161.29	89.56	2.801										
4,500.00	3,810.36	4,448.70	3,813.95	49.20	43.20	-96.29	-645.50	2,047.15	257.46	165.45	92.01	2.798										
4,600.00	3,889.59	4,548.39	3,895.69	50.61	44.35	-97.20	-663.30	2,101.38	264.15	169.69	94.45	2.797										
4,700.00	3,968.82	4,648.08	3,977.42	52.01	45.50	-98.07	-681.10	2,155.60	270.89	174.03	96.87	2.797 SF										
4,800.00	4,048.05	4,747.77	4,059.16	53.42	46.64	-98.90	-698.91	2,209.83	277.70	178.44	99.27	2.798										

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

Cathedral Energy Services

Anticollision Report

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Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: 0-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
4,900.00	4,127.28	4,847.46	4,140.89	54.82	47.79	-99.69	-716.71	2,264.06	284.56	182.92	101.64	2.800										
5,000.00	4,206.51	4,947.15	4,222.63	56.23	48.94	-100.44	-734.51	2,318.28	291.48	187.47	104.01	2.802										
5,100.00	4,285.74	5,046.84	4,304.36	57.64	50.08	-101.15	-752.31	2,372.51	298.44	192.08	106.36	2.806										
5,200.00	4,364.97	5,146.53	4,386.10	59.04	51.23	-101.83	-770.11	2,426.74	305.44	196.75	108.69	2.810										
5,300.00	4,444.21	5,246.22	4,467.83	60.45	52.38	-102.49	-787.92	2,480.97	312.49	201.48	111.01	2.815										
5,400.00	4,523.44	5,345.91	4,549.57	61.85	53.52	-103.11	-805.72	2,535.19	319.57	206.25	113.32	2.820										
5,500.00	4,602.67	5,445.59	4,631.30	63.26	54.67	-103.71	-823.52	2,589.42	326.69	211.08	115.61	2.826										
5,600.00	4,681.90	5,545.28	4,713.04	64.67	55.82	-104.28	-841.32	2,643.65	333.85	215.94	117.90	2.832										
5,700.00	4,761.13	5,644.97	4,794.77	66.07	56.96	-104.82	-859.12	2,697.87	341.03	220.85	120.18	2.838										
5,800.00	4,840.36	5,744.66	4,876.50	67.48	58.11	-105.35	-876.93	2,752.10	348.25	225.80	122.44	2.844										
5,900.00	4,919.59	5,844.35	4,958.24	68.89	59.26	-105.85	-894.73	2,806.33	355.49	230.79	124.70	2.851										
6,000.00	4,998.82	5,944.04	5,039.97	70.29	60.40	-106.33	-912.53	2,860.55	362.76	235.81	126.95	2.857										
6,100.00	5,078.06	6,043.73	5,121.71	71.70	61.55	-106.80	-930.33	2,914.78	370.05	240.86	129.20	2.864										
6,200.00	5,157.29	6,143.42	5,203.44	73.11	62.70	-107.24	-948.13	2,969.01	377.37	245.94	131.43	2.871										
6,300.00	5,236.52	6,243.11	5,285.18	74.51	63.85	-107.67	-965.94	3,023.24	384.71	251.05	133.66	2.878										
6,400.00	5,315.75	6,342.80	5,366.91	75.92	64.99	-108.09	-983.74	3,077.46	392.07	256.19	135.88	2.885										
6,500.00	5,394.98	6,442.49	5,448.65	77.33	66.14	-108.48	-1,001.54	3,131.69	399.45	261.35	138.10	2.892										
6,600.00	5,474.21	6,542.18	5,530.38	78.73	67.29	-108.87	-1,019.34	3,185.92	406.85	266.53	140.31	2.900										
6,700.00	5,553.44	6,641.87	5,612.12	80.14	68.43	-109.24	-1,037.14	3,240.14	414.26	271.74	142.52	2.907										
6,800.00	5,632.67	6,741.56	5,693.85	81.55	69.58	-109.59	-1,054.95	3,294.37	421.69	276.97	144.72	2.914										
6,900.00	5,711.90	6,841.25	5,775.59	82.96	70.73	-109.94	-1,072.75	3,348.60	429.14	282.22	146.92	2.921										
7,000.00	5,791.14	6,940.94	5,857.32	84.36	71.87	-110.27	-1,090.55	3,402.82	436.60	287.49	149.12	2.928										
7,100.00	5,870.37	7,040.63	5,939.06	85.77	73.02	-110.59	-1,108.35	3,457.05	444.08	292.78	151.30	2.935										
7,200.00	5,949.60	7,140.32	6,020.79	87.18	74.17	-110.90	-1,126.15	3,511.28	451.57	298.08	153.49	2.942										
7,300.00	6,028.83	7,240.01	6,102.52	88.59	75.31	-111.20	-1,143.96	3,565.51	459.07	303.40	155.67	2.949										
7,400.00	6,108.06	7,339.70	6,184.26	89.99	76.46	-111.49	-1,161.76	3,619.73	466.59	308.74	157.85	2.956										
7,500.00	6,187.29	7,439.39	6,265.99	91.40	77.61	-111.77	-1,179.56	3,673.96	474.11	314.09	160.03	2.963										
7,600.00	6,266.52	7,539.08	6,347.73	92.81	78.76	-112.05	-1,197.36	3,728.19	481.65	319.45	162.20	2.969										
7,611.65	6,275.75	7,550.69	6,357.25	92.97	78.89	-112.08	-1,199.43	3,734.50	482.53	320.08	162.45	2.970										
7,700.00	6,346.98	7,633.15	6,425.68	94.16	79.77	-112.43	-1,213.78	3,778.21	488.90	324.72	164.18	2.978										
7,800.00	6,430.41	7,725.76	6,504.81	95.38	80.68	-112.78	-1,228.79	3,823.91	495.58	329.65	165.93	2.987										
7,900.00	6,516.61	7,818.26	6,586.08	96.46	81.49	-113.10	-1,242.56	3,865.86	501.70	334.21	167.49	2.995										
8,000.00	6,605.34	7,910.66	6,669.30	97.42	82.22	-113.36	-1,255.08	3,903.99	507.25	338.37	168.87	3.004										
8,100.00	6,696.36	7,999.98	6,751.50	98.24	82.84	-113.59	-1,265.97	3,937.17	512.20	342.17	170.03	3.012										
8,200.00	6,789.43	8,095.23	6,840.85	98.95	83.40	-113.78	-1,276.25	3,968.49	516.53	345.42	171.11	3.019										
8,300.00	6,884.28	8,187.43	6,928.80	99.54	83.87	-113.93	-1,284.87	3,994.74	520.25	348.27	171.98	3.025										
8,400.00	6,980.66	8,279.58	7,017.94	100.02	84.25	-114.04	-1,292.15	4,016.91	523.34	350.64	172.70	3.030										
8,500.00	7,078.29	8,371.70	7,108.08	100.41	84.55	-114.11	-1,298.07	4,034.97	525.79	352.51	173.28	3.034										
8,600.00	7,176.93	8,463.81	7,199.00	100.71	84.78	-114.15	-1,302.64	4,048.88	527.60	353.86	173.74	3.037										
8,700.00	7,276.28	8,555.92	7,290.53	100.93	84.93	-114.15	-1,305.83	4,058.60	528.76	354.69	174.08	3.038										
8,800.00	7,376.09	8,648.04	7,382.46	101.09	85.01	-114.11	-1,307.65	4,064.13	529.27	354.96	174.31	3.036										
8,864.91	7,440.99	8,707.84	7,442.24	101.16	85.04	0.27	-1,308.08	4,065.45	529.26	354.83	174.43	3.034										
8,874.51	7,450.58	8,716.68	7,451.09	101.17	85.04	124.52	-1,308.10	4,065.50	529.24	354.80	174.44	3.034										
8,893.09	7,469.17	8,734.78	7,469.18	101.19	85.05	124.52	-1,308.10	4,065.51	529.28	354.81	174.47	3.034										
8,900.00	7,476.08	8,741.70	7,476.10	101.19	85.05	124.53	-1,308.10	4,065.51	529.29	354.82	174.48	3.034										
9,000.00	7,576.08	8,841.81	7,576.21	101.27	85.08	124.57	-1,308.11	4,065.49	529.56	354.92	174.64	3.032										
9,100.00	7,676.07	8,941.91	7,676.32	101.36	85.11	124.61	-1,308.15	4,065.43	529.80	355.00	174.80	3.031										
9,200.00	7,776.07	9,042.02	7,776.43	101.44	85.14	124.64	-1,308.20	4,065.35	530.03	355.07	174.96	3.029										
9,300.00	7,876.07	9,142.13	7,876.54	101.52	85.17	124.67	-1,308.28	4,065.24	530.23	355.12	175.11	3.028										
9,400.00	7,976.07	9,242.24	7,976.65	101.61	85.20	124.70	-1,308.38	4,065.09	530.41	355.15	175.27	3.026										
9,500.00	8,076.07	9,342.35	8,076.76	101.69	85.24	124.72	-1,308.50	4,064.91	530.57	355.16	175.42	3.025										
9,600.00	8,176.07	9,442.47	8,176.87	101.78	85.27	124.75	-1,308.63	4,064.71	530.71	355.15	175.56	3.023										

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 0-MWD												Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
9,700.00	8,276.07	9,542.58	8,276.98	101.87	85.30	124.76	-1,308.79	4,064.47	530.83	355.12	175.71	3.021		
9,800.00	8,376.07	9,642.69	8,377.09	101.96	85.33	124.78	-1,308.97	4,064.20	530.93	355.08	175.85	3.019		
9,900.00	8,476.06	9,742.80	8,477.20	102.05	85.36	124.79	-1,309.17	4,063.90	531.01	355.01	175.99	3.017		
10,000.00	8,576.06	9,842.91	8,577.31	102.14	85.39	124.80	-1,309.39	4,063.56	531.07	354.93	176.13	3.015		
10,100.00	8,676.06	9,943.02	8,677.42	102.24	85.42	124.80	-1,309.64	4,063.20	531.10	354.83	176.27	3.013		
10,200.00	8,776.06	10,043.13	8,777.53	102.33	85.45	124.80	-1,309.90	4,062.81	531.12	354.71	176.40	3.011		
10,300.00	8,876.06	10,143.24	8,877.64	102.43	85.48	124.80	-1,310.18	4,062.38	531.11	354.58	176.53	3.009		
10,400.00	8,976.06	10,243.35	8,977.75	102.52	85.51	124.80	-1,310.48	4,061.93	531.08	354.42	176.66	3.006		
10,500.00	9,076.06	10,343.47	9,077.86	102.62	85.54	124.79	-1,310.81	4,061.44	531.04	354.25	176.79	3.004		
10,600.00	9,176.06	10,443.58	9,177.97	102.72	85.58	124.78	-1,311.15	4,060.92	530.97	354.05	176.91	3.001		
10,700.00	9,276.06	10,543.61	9,278.00	102.82	85.61	124.76	-1,311.51	4,060.38	530.88	353.85	177.04	2.999		
10,800.00	9,376.05	10,643.61	9,377.99	102.92	85.64	124.75	-1,311.87	4,059.84	530.80	353.64	177.16	2.996		
10,900.00	9,476.05	10,743.61	9,477.99	103.03	85.67	124.73	-1,312.23	4,059.30	530.71	353.42	177.29	2.994		
11,000.00	9,576.05	10,843.61	9,577.99	103.13	85.70	124.72	-1,312.60	4,058.76	530.63	353.21	177.41	2.991		
11,100.00	9,676.05	10,943.61	9,677.99	103.24	85.73	124.70	-1,312.96	4,058.21	530.54	353.00	177.54	2.988		
11,200.00	9,776.05	11,043.61	9,777.99	103.34	85.77	124.69	-1,313.32	4,057.67	530.46	352.78	177.67	2.986		
11,300.00	9,876.05	11,143.61	9,877.98	103.45	85.80	124.67	-1,313.68	4,057.13	530.37	352.57	177.81	2.983		
11,400.00	9,976.05	11,243.61	9,977.98	103.56	85.83	124.66	-1,314.04	4,056.59	530.29	352.35	177.94	2.980		
11,500.00	10,076.05	11,343.61	10,077.98	103.67	85.87	124.65	-1,314.40	4,056.05	530.20	352.13	178.07	2.977		
11,600.00	10,176.04	11,443.61	10,177.98	103.78	85.90	124.63	-1,314.76	4,055.50	530.12	351.90	178.21	2.975		
11,700.00	10,276.04	11,543.61	10,277.97	103.89	85.94	124.62	-1,315.12	4,054.96	530.03	351.68	178.35	2.972		
11,800.00	10,376.04	11,643.61	10,377.97	104.00	85.97	124.60	-1,315.48	4,054.42	529.95	351.46	178.49	2.969		
11,900.00	10,476.04	11,743.61	10,477.97	104.12	86.01	124.59	-1,315.84	4,053.88	529.86	351.23	178.63	2.966		
12,000.00	10,576.04	11,843.61	10,577.97	104.23	86.04	124.57	-1,316.21	4,053.34	529.78	351.00	178.77	2.963		
12,100.00	10,676.04	11,943.61	10,677.97	104.35	86.08	124.56	-1,316.57	4,052.79	529.69	350.77	178.92	2.961		
12,200.00	10,776.04	12,043.61	10,777.96	104.47	86.11	124.54	-1,316.93	4,052.25	529.61	350.54	179.06	2.958		
12,300.00	10,876.04	12,143.61	10,877.96	104.58	86.15	124.53	-1,317.29	4,051.71	529.52	350.31	179.21	2.955		
12,400.00	10,976.03	12,243.61	10,977.96	104.70	86.19	124.51	-1,317.65	4,051.17	529.44	350.08	179.36	2.952		
12,489.94	11,065.98	12,333.55	11,067.90	104.81	86.22	124.50	-1,317.97	4,050.68	529.36	349.86	179.50	2.949		
12,500.00	11,076.03	12,343.61	11,077.96	104.82	86.22	124.50	-1,318.01	4,050.63	529.35	349.84	179.51	2.949		
12,600.00	11,176.03	12,443.61	11,177.95	104.95	86.26	124.48	-1,318.37	4,050.08	529.27	349.60	179.66	2.946		
12,700.00	11,276.03	12,543.61	11,277.95	105.07	86.30	124.47	-1,318.73	4,049.54	529.18	349.37	179.82	2.943		
12,800.00	11,376.03	12,643.61	11,377.95	105.19	86.34	124.46	-1,319.09	4,049.00	529.10	349.13	179.97	2.940		
12,851.46	11,427.49	12,695.06	11,429.41	105.26	86.36	124.45	-1,319.28	4,048.72	529.05	349.00	180.05	2.938		

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-161.02	-9.10	-3.13	9.62						
100.00	100.00	100.00	100.00	0.12	0.12	-161.02	-9.10	-3.13	9.62	9.38	0.24	40.589			
200.00	200.00	200.00	200.00	0.48	0.29	-161.02	-9.10	-3.13	9.62	8.85	0.77	12.494			
203.87	203.87	203.87	203.87	0.49	0.30	-161.02	-9.10	-3.13	9.62	8.83	0.79	12.168	CC		
300.00	300.00	299.89	299.89	0.84	0.47	-159.78	-9.29	-3.42	9.90	8.59	1.31	7.560	ES		
350.00	350.00	349.76	349.75	1.02	0.56	-156.45	-9.85	-4.29	10.75	9.16	1.59	6.753			
400.00	399.99	399.58	399.53	1.19	0.65	96.68	-10.80	-5.75	12.30	10.42	1.88	6.549	SF		
500.00	499.85	498.70	498.50	1.54	0.84	119.46	-13.80	-10.37	19.46	16.99	2.47	7.878			
600.00	599.29	596.61	596.07	1.90	1.05	135.20	-18.23	-17.19	34.22	31.16	3.06	11.173			
700.00	698.04	692.69	691.56	2.28	1.29	143.41	-23.98	-26.05	56.61	52.95	3.65	15.493			
800.00	795.85	786.36	784.36	2.70	1.56	147.80	-30.93	-36.75	86.10	81.85	4.25	20.258			
900.00	892.43	877.09	873.89	3.17	1.85	150.30	-38.93	-49.06	122.31	117.46	4.85	25.198			
1,000.00	987.52	964.41	959.68	3.71	2.16	151.78	-47.78	-62.70	164.90	159.44	5.47	30.174			
1,100.00	1,080.87	1,047.90	1,041.32	4.33	2.49	152.64	-57.31	-77.37	213.55	207.47	6.08	35.111			
1,200.00	1,172.22	1,127.24	1,118.49	5.04	2.84	153.07	-67.33	-92.79	267.92	261.22	6.70	39.970			
1,300.00	1,261.31	1,200.00	1,188.89	5.85	3.18	153.17	-77.33	-108.19	327.69	320.36	7.32	44.740			
1,400.00	1,347.90	1,272.37	1,258.54	6.79	3.55	153.08	-88.05	-124.70	392.46	384.52	7.95	49.370			
1,500.00	1,431.76	1,337.80	1,321.15	7.86	3.90	152.73	-98.39	-140.63	461.92	453.35	8.57	53.908			
1,603.26	1,515.23	1,400.00	1,380.33	9.10	4.26	152.13	-108.81	-156.67	538.14	528.95	9.19	58.531			
1,700.00	1,591.88	1,455.46	1,432.82	10.35	4.60	152.89	-118.56	-171.69	611.98	602.21	9.77	62.608			
1,800.00	1,671.11	1,517.23	1,490.97	11.67	4.97	153.48	-129.99	-189.14	689.08	678.67	10.41	66.188			
1,900.00	1,750.34	1,607.68	1,576.06	13.01	5.52	153.91	-149.04	-213.12	764.96	753.62	11.34	67.467			
2,000.00	1,829.57	1,705.96	1,668.52	14.36	6.11	153.93	-173.34	-235.91	838.41	825.98	12.43	67.458			
2,100.00	1,908.81	1,777.51	1,735.75	15.72	6.54	153.82	-192.54	-251.08	910.39	897.09	13.29	68.478			
2,200.00	1,988.04	1,846.93	1,800.98	17.09	6.96	153.72	-211.18	-265.79	982.36	968.20	14.15	69.414			
2,300.00	2,067.27	1,916.35	1,866.22	18.46	7.38	153.64	-229.82	-280.50	1,054.33	1,039.31	15.02	70.197			
2,400.00	2,146.50	1,985.77	1,931.45	19.84	7.81	153.57	-248.46	-295.21	1,126.30	1,110.40	15.90	70.854			
2,500.00	2,225.73	2,055.19	1,996.68	21.23	8.23	153.51	-267.10	-309.93	1,198.27	1,181.49	16.78	71.409			
2,600.00	2,304.96	2,124.62	2,061.91	22.62	8.66	153.45	-285.74	-324.64	1,270.25	1,252.58	17.67	71.884			
2,700.00	2,384.19	2,194.04	2,127.15	24.00	9.09	153.40	-304.38	-339.35	1,342.22	1,323.65	18.57	72.292			
2,800.00	2,463.42	2,263.46	2,192.38	25.40	9.52	153.36	-323.02	-354.06	1,414.19	1,394.73	19.47	72.644			
2,900.00	2,542.66	2,332.88	2,257.61	26.79	9.95	153.32	-341.66	-368.78	1,486.17	1,465.80	20.37	72.951			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-164.10	-19.22	-5.48	19.98						
100.00	100.00	100.00	100.00	0.12	0.12	-164.10	-19.22	-5.48	19.98	19.74	0.24	84.298			
200.00	200.00	200.00	200.00	0.48	0.29	-164.10	-19.22	-5.48	19.98	19.21	0.77	25.948			
216.67	216.67	216.67	216.67	0.54	0.32	-164.10	-19.22	-5.48	19.98	19.12	0.86	23.264	CC		
300.00	300.00	300.00	300.00	0.84	0.47	-164.10	-19.22	-5.48	19.98	18.68	1.30	15.334	ES		
350.00	350.00	349.55	349.55	1.02	0.56	-163.13	-19.64	-5.96	20.53	18.94	1.59	12.914			
400.00	399.99	399.02	398.97	1.19	0.65	86.77	-20.91	-7.40	22.16	20.26	1.90	11.662			
500.00	499.85	497.15	496.80	1.54	0.85	103.32	-25.94	-13.10	30.05	27.46	2.59	11.592	SF		
600.00	599.29	593.32	592.16	1.90	1.11	118.13	-34.08	-22.34	46.74	43.44	3.30	14.158			
700.00	698.04	686.53	683.90	2.28	1.43	127.04	-44.99	-34.72	72.73	68.75	3.98	18.252			
800.00	795.85	775.95	771.03	2.70	1.81	132.01	-58.23	-49.73	107.31	102.64	4.66	23.023			
900.00	892.43	860.87	852.84	3.17	2.24	134.78	-73.29	-66.81	149.71	144.37	5.34	28.042			
1,000.00	987.52	940.78	928.83	3.71	2.69	136.27	-89.64	-85.36	199.28	193.27	6.01	33.132			
1,100.00	1,080.87	1,021.05	1,004.31	4.33	3.18	137.21	-107.69	-105.82	254.81	248.17	6.63	38.406			
1,200.00	1,172.22	1,101.17	1,079.60	5.04	3.67	138.01	-125.81	-126.38	313.93	306.66	7.27	43.181			
1,300.00	1,261.31	1,178.50	1,152.27	5.85	4.15	138.62	-143.30	-146.22	376.44	368.49	7.95	47.329			
1,400.00	1,347.90	1,252.85	1,222.13	6.79	4.62	139.03	-160.11	-165.29	442.29	433.62	8.68	50.980			
1,500.00	1,431.76	1,336.99	1,301.25	7.86	5.14	139.47	-179.98	-185.89	510.66	501.15	9.51	53.673			
1,603.26	1,515.23	1,428.95	1,387.78	9.10	5.69	139.58	-204.38	-205.20	582.22	571.68	10.53	55.267			
1,700.00	1,591.88	1,507.89	1,461.98	10.35	6.17	140.89	-227.33	-219.30	648.87	637.35	11.52	56.336			
1,800.00	1,671.11	1,580.07	1,529.81	11.67	6.61	141.81	-248.59	-231.86	717.61	705.13	12.47	57.525			
1,900.00	1,750.34	1,652.25	1,597.64	13.01	7.05	142.58	-269.84	-244.43	786.43	772.99	13.44	58.501			
2,000.00	1,829.57	1,724.43	1,665.46	14.36	7.49	143.22	-291.09	-256.99	855.31	840.89	14.42	59.314			
2,100.00	1,908.81	1,796.62	1,733.29	15.72	7.94	143.77	-312.35	-269.55	924.25	908.84	15.40	59.999			
2,200.00	1,988.04	1,868.80	1,801.12	17.09	8.38	144.24	-333.60	-282.11	993.22	976.82	16.39	60.584			
2,300.00	2,067.27	1,940.98	1,868.95	18.46	8.83	144.65	-354.85	-294.67	1,062.22	1,044.83	17.39	61.088			
2,400.00	2,146.50	2,013.16	1,936.77	19.84	9.27	145.01	-376.11	-307.23	1,131.25	1,112.86	18.39	61.528			
2,500.00	2,225.73	2,085.34	2,004.60	21.23	9.72	145.33	-397.36	-319.79	1,200.30	1,180.91	19.39	61.913			
2,600.00	2,304.96	2,157.52	2,072.43	22.62	10.17	145.62	-418.61	-332.35	1,269.36	1,248.97	20.39	62.253			
2,700.00	2,384.19	2,229.70	2,140.26	24.00	10.62	145.87	-439.87	-344.91	1,338.44	1,317.05	21.40	62.557			
2,800.00	2,463.42	2,301.88	2,208.09	25.40	11.07	146.10	-461.12	-357.47	1,407.54	1,385.13	22.40	62.828			
2,900.00	2,542.66	2,374.06	2,275.91	26.79	11.52	146.31	-482.38	-370.03	1,476.64	1,453.23	23.41	63.072			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	33.18	26.32	17.21	31.44						
100.00	100.00	100.00	100.00	0.12	0.12	33.18	26.32	17.21	31.44	31.21	0.24	132.658			
200.00	200.00	200.00	200.00	0.48	0.29	33.18	26.32	17.21	31.44	30.67	0.77	40.834			
300.00	300.00	300.00	300.00	0.84	0.47	33.18	26.32	17.21	31.44	30.14	1.30	24.131			
350.00	350.00	350.00	350.00	1.02	0.55	33.18	26.32	17.21	31.44	29.87	1.57	20.034			
400.00	399.99	399.99	399.99	1.19	0.64	-82.34	26.32	17.21	31.35	29.52	1.83	17.129			
485.96	485.84	485.84	485.84	1.49	0.79	-90.00	26.32	17.21	31.07	28.79	2.28	13.651	CC		
500.00	499.85	499.85	499.85	1.54	0.81	-91.93	26.32	17.21	31.09	28.74	2.35	13.236	ES		
600.00	599.29	600.01	599.97	1.90	0.99	-106.20	24.92	19.42	31.98	29.09	2.90	11.043			
700.00	698.04	700.59	700.22	2.28	1.20	-119.60	20.71	26.12	34.09	30.57	3.52	9.683			
800.00	795.85	801.55	800.30	2.70	1.45	-131.67	13.66	37.32	37.27	33.04	4.23	8.806			
900.00	892.43	902.91	899.93	3.17	1.78	-142.27	3.77	53.05	41.37	36.38	4.99	8.288			
1,000.00	987.52	1,004.08	998.29	3.71	2.18	-151.53	-8.82	73.05	46.38	40.68	5.70	8.137	SF		
1,100.00	1,080.87	1,103.31	1,094.42	4.33	2.61	-160.26	-21.94	93.90	55.78	49.55	6.23	8.955			
1,200.00	1,172.22	1,201.80	1,189.82	5.04	3.04	-167.32	-34.96	114.60	71.17	64.42	6.75	10.546			
1,300.00	1,261.31	1,299.26	1,284.23	5.85	3.48	-172.27	-47.85	135.07	92.36	85.06	7.30	12.659			
1,400.00	1,347.90	1,395.44	1,377.40	6.79	3.91	-175.57	-60.56	155.28	119.04	111.17	7.88	15.114			
1,500.00	1,431.76	1,490.07	1,469.06	7.86	4.35	-177.74	-73.07	175.16	150.97	142.49	8.48	17.800			
1,603.26	1,515.23	1,585.87	1,561.87	9.10	4.79	-179.23	-85.74	195.29	189.23	180.11	9.12	20.741			
1,700.00	1,591.88	1,674.64	1,647.85	10.35	5.20	-179.82	-97.48	213.94	227.57	217.84	9.73	23.387			
1,800.00	1,671.11	1,766.39	1,736.74	11.67	5.63	-179.12	-109.61	233.22	267.23	256.87	10.36	25.791			
1,900.00	1,750.34	1,858.15	1,825.62	13.01	6.06	-178.60	-121.74	252.50	306.92	295.92	11.00	27.896			
2,000.00	1,829.57	1,949.90	1,914.50	14.36	6.49	-178.20	-133.87	271.78	346.63	334.98	11.65	29.748			
2,100.00	1,908.81	2,041.66	2,003.39	15.72	6.92	-177.88	-146.00	291.06	386.35	374.04	12.31	31.388			
2,200.00	1,988.04	2,133.41	2,092.27	17.09	7.35	-177.62	-158.13	310.34	426.07	413.10	12.97	32.848			
2,300.00	2,067.27	2,225.17	2,181.15	18.46	7.79	-177.41	-170.26	329.62	465.81	452.17	13.64	34.153			
2,400.00	2,146.50	2,316.92	2,270.03	19.84	8.22	-177.23	-182.39	348.89	505.54	491.23	14.31	35.327			
2,500.00	2,225.73	2,408.68	2,358.92	21.23	8.65	-177.07	-194.52	368.17	545.29	530.30	14.99	36.386			
2,600.00	2,304.96	2,500.43	2,447.80	22.62	9.09	-176.94	-206.65	387.45	585.03	569.36	15.66	37.347			
2,700.00	2,384.19	2,592.19	2,536.68	24.00	9.52	-176.82	-218.78	406.73	624.77	608.43	16.35	38.222			
2,800.00	2,463.42	2,683.94	2,625.57	25.40	9.95	-176.72	-230.91	426.01	664.52	647.49	17.03	39.021			
2,900.00	2,542.66	2,775.70	2,714.45	26.79	10.39	-176.63	-243.05	445.29	704.27	686.56	17.72	39.754			
3,000.00	2,621.89	2,867.45	2,803.33	28.18	10.82	-176.55	-255.18	464.57	744.02	725.62	18.40	40.428			
3,100.00	2,701.12	2,959.21	2,892.21	29.58	11.26	-176.48	-267.31	483.84	783.77	764.68	19.09	41.049			
3,200.00	2,780.35	3,050.96	2,981.10	30.98	11.69	-176.41	-279.44	503.12	823.53	803.74	19.78	41.625			
3,300.00	2,859.58	3,142.72	3,069.98	32.38	12.13	-176.35	-291.57	522.40	863.28	842.80	20.48	42.159			
3,400.00	2,938.81	3,234.47	3,158.86	33.78	12.56	-176.30	-303.70	541.68	903.04	881.86	21.17	42.655			
3,500.00	3,018.04	3,326.23	3,247.75	35.18	13.00	-176.25	-315.83	560.96	942.79	920.93	21.87	43.118			
3,600.00	3,097.27	3,417.98	3,336.63	36.58	13.43	-176.20	-327.96	580.24	982.55	959.99	22.56	43.551			
3,700.00	3,176.51	3,509.74	3,425.51	37.98	13.87	-176.16	-340.09	599.52	1,022.30	999.04	23.26	43.956			
3,800.00	3,255.74	3,601.49	3,514.40	39.38	14.30	-176.12	-352.22	618.79	1,062.06	1,038.10	23.95	44.336			
3,900.00	3,334.97	3,693.25	3,603.28	40.78	14.74	-176.08	-364.35	638.07	1,101.82	1,077.16	24.65	44.693			
4,000.00	3,414.20	3,785.00	3,692.16	42.19	15.17	-176.05	-376.48	657.35	1,141.57	1,116.22	25.35	45.029			
4,100.00	3,493.43	3,876.76	3,781.04	43.59	15.61	-176.02	-388.62	676.63	1,181.33	1,155.28	26.05	45.347			
4,200.00	3,572.66	3,968.51	3,869.93	44.99	16.04	-175.99	-400.75	695.91	1,221.09	1,194.34	26.75	45.646			
4,300.00	3,651.89	4,060.27	3,958.81	46.40	16.48	-175.96	-412.88	715.19	1,260.85	1,233.39	27.45	45.930			
4,400.00	3,731.12	4,152.02	4,047.69	47.80	16.92	-175.93	-425.01	734.47	1,300.60	1,272.45	28.15	46.198			
4,500.00	3,810.36	4,243.78	4,136.58	49.20	17.35	-175.91	-437.14	753.75	1,340.36	1,311.51	28.85	46.453			
4,600.00	3,889.59	4,335.53	4,225.46	50.61	17.79	-175.89	-449.27	773.02	1,380.12	1,350.57	29.56	46.695			
4,700.00	3,968.82	4,427.29	4,314.34	52.01	18.22	-175.86	-461.40	792.30	1,419.88	1,389.62	30.26	46.926			
4,800.00	4,048.05	4,519.04	4,403.22	53.42	18.66	-175.84	-473.53	811.58	1,459.64	1,428.68	30.96	47.145			
4,900.00	4,127.28	4,610.80	4,492.11	54.82	19.10	-175.82	-485.66	830.86	1,499.40	1,467.74	31.66	47.354			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF15B-03 H04 596 (was 10E-03)
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Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: O-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
0.00	0.00	0.00	0.00	0.00	0.00	13.05	10.13	2.35	10.40													
100.00	100.00	100.00	100.00	0.12	0.12	13.05	10.13	2.35	10.40	10.16	0.24	43.857										
200.00	200.00	200.00	200.00	0.48	0.29	13.05	10.13	2.35	10.40	9.63	0.77	13.500										
300.00	300.00	300.00	300.00	0.84	0.47	13.05	10.13	2.35	10.40	9.09	1.30	7.978										
350.00	350.00	350.00	350.00	1.02	0.55	13.05	10.13	2.35	10.40	8.83	1.57	6.623 CC										
400.00	399.99	399.99	399.99	1.19	0.64	-104.77	10.13	2.35	10.54	8.71	1.83	5.760										
500.00	499.85	500.28	500.24	1.54	0.82	-119.32	8.51	4.42	10.98	8.60	2.38	4.607										
600.00	599.29	600.68	600.31	1.90	1.03	-136.76	3.65	10.65	11.26	8.21	3.05	3.696 ES										
700.00	698.04	701.16	699.91	2.28	1.29	-157.52	-4.45	21.03	12.06	8.29	3.78	3.195										
800.00	795.85	801.70	798.75	2.70	1.63	-178.88	-15.76	35.53	14.20	9.72	4.48	3.171 SF										
900.00	892.43	902.28	896.51	3.17	2.06	163.06	-30.27	54.12	18.14	12.93	5.21	3.481										
1,000.00	987.52	1,002.16	992.65	3.71	2.52	152.04	-46.91	75.45	24.96	19.01	5.95	4.193										
1,100.00	1,080.87	1,101.46	1,088.20	4.33	3.00	150.18	-63.55	96.78	36.61	29.88	6.73	5.438										
1,200.00	1,172.22	1,200.12	1,183.13	5.04	3.49	152.00	-80.08	117.97	52.81	45.32	7.49	7.050										
1,300.00	1,261.31	1,297.86	1,277.17	5.85	3.98	154.69	-96.46	138.96	73.66	65.45	8.21	8.969										
1,400.00	1,347.90	1,394.41	1,370.07	6.79	4.46	157.27	-112.64	159.70	99.30	90.39	8.91	11.144										
1,500.00	1,431.76	1,489.51	1,461.58	7.86	4.95	159.49	-128.57	180.12	129.79	120.19	9.60	13.526										
1,603.26	1,515.23	1,585.92	1,554.34	9.10	5.43	161.39	-144.73	200.83	166.34	156.04	10.30	16.155										
1,700.00	1,591.88	1,675.29	1,640.33	10.35	5.89	163.02	-159.71	220.03	203.04	192.09	10.96	18.530										
1,800.00	1,671.11	1,767.68	1,729.23	11.67	6.36	164.18	-175.19	239.87	241.09	229.43	11.66	20.685										
1,900.00	1,750.34	1,860.07	1,818.12	13.01	6.83	165.02	-190.67	259.71	279.20	266.83	12.37	22.572										
2,000.00	1,829.57	1,952.46	1,907.01	14.36	7.31	165.66	-206.15	279.55	317.34	304.25	13.09	24.234										
2,100.00	1,908.81	2,044.84	1,995.90	15.72	7.78	166.16	-221.63	299.40	355.52	341.69	13.83	25.706										
2,200.00	1,988.04	2,137.23	2,084.80	17.09	8.25	166.57	-237.11	319.24	393.71	379.13	14.57	27.017										
2,300.00	2,067.27	2,229.62	2,173.69	18.46	8.73	166.90	-252.59	339.08	431.91	416.59	15.32	28.191										
2,400.00	2,146.50	2,322.00	2,262.58	19.84	9.20	167.18	-268.07	358.92	470.13	454.05	16.07	29.247										
2,500.00	2,225.73	2,414.39	2,351.48	21.23	9.68	167.42	-283.55	378.76	508.35	491.52	16.83	30.201										
2,600.00	2,304.96	2,506.78	2,440.37	22.62	10.15	167.63	-299.04	398.61	546.59	528.99	17.59	31.067										
2,700.00	2,384.19	2,599.16	2,529.26	24.00	10.63	167.80	-314.52	418.45	584.82	566.46	18.36	31.855										
2,800.00	2,463.42	2,691.55	2,618.16	25.40	11.10	167.96	-330.00	438.29	623.06	603.94	19.13	32.577										
2,900.00	2,542.66	2,783.94	2,707.05	26.79	11.58	168.10	-345.48	458.13	661.31	641.41	19.90	33.239										
3,000.00	2,621.89	2,876.33	2,795.94	28.18	12.05	168.22	-360.96	477.98	699.55	678.89	20.67	33.848										
3,100.00	2,701.12	2,968.71	2,884.83	29.58	12.53	168.33	-376.44	497.82	737.80	716.36	21.44	34.411										
3,200.00	2,780.35	3,061.10	2,973.73	30.98	13.01	168.43	-391.92	517.66	776.05	753.84	22.22	34.933										
3,300.00	2,859.58	3,153.49	3,062.62	32.38	13.48	168.52	-407.40	537.50	814.31	791.31	22.99	35.417										
3,400.00	2,938.81	3,245.87	3,151.51	33.78	13.96	168.60	-422.88	557.35	852.56	828.79	23.77	35.867										
3,500.00	3,018.04	3,338.26	3,240.41	35.18	14.43	168.68	-438.36	577.19	890.82	866.27	24.55	36.288										
3,600.00	3,097.27	3,430.65	3,329.30	36.58	14.91	168.75	-453.85	597.03	929.07	903.75	25.33	36.681										
3,700.00	3,176.51	3,523.03	3,418.19	37.98	15.39	168.81	-469.33	616.87	967.33	941.22	26.11	37.049										
3,800.00	3,255.74	3,615.42	3,507.09	39.38	15.86	168.87	-484.81	636.72	1,005.59	978.70	26.89	37.395										
3,900.00	3,334.97	3,707.81	3,595.98	40.78	16.34	168.92	-500.29	656.56	1,043.85	1,016.18	27.67	37.720										
4,000.00	3,414.20	3,800.20	3,684.87	42.19	16.82	168.97	-515.77	676.40	1,082.11	1,053.66	28.46	38.026										
4,100.00	3,493.43	3,892.58	3,773.77	43.59	17.29	169.02	-531.25	696.24	1,120.37	1,091.13	29.24	38.316										
4,200.00	3,572.66	3,984.97	3,862.66	44.99	17.77	169.06	-546.73	716.09	1,158.64	1,128.61	30.02	38.589										
4,300.00	3,651.89	4,077.36	3,951.55	46.40	18.25	169.10	-562.21	735.93	1,196.90	1,166.09	30.81	38.848										
4,400.00	3,731.12	4,169.74	4,040.44	47.80	18.72	169.14	-577.69	755.77	1,235.16	1,203.57	31.60	39.093										
4,500.00	3,810.36	4,262.13	4,129.34	49.20	19.20	169.18	-593.18	775.61	1,273.43	1,241.04	32.38	39.326										
4,600.00	3,889.59	4,354.52	4,218.23	50.61	19.68	169.21	-608.66	795.46	1,311.69	1,278.52	33.17	39.548										
4,700.00	3,968.82	4,446.90	4,307.12	52.01	20.15	169.24	-624.14	815.30	1,349.95	1,316.00	33.95	39.758										
4,800.00	4,048.05	4,539.29	4,396.02	53.42	20.63	169.27	-639.62	835.14	1,388.22	1,353.48	34.74	39.959										
4,900.00	4,127.28	4,631.68	4,484.91	54.82	21.11	169.30	-655.10	854.98	1,426.48	1,390.96	35.53	40.150										
5,000.00	4,206.51	4,724.07	4,573.80	56.23	21.58	169.33	-670.58	874.83	1,464.75	1,428.43	36.32	40.333										

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft							
Survey Program: O-MWD													Offset Well Error:		0.00 usft						
Reference													Offset		Semi Major Axis		Distance		Total	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor									
0.00	0.00	0.00	0.00	0.00	0.00	149.88	-12.13	7.04	14.03	13.79	0.24	59.182									
100.00	100.00	100.00	100.00	0.12	0.12	149.88	-12.13	7.04	14.03	13.26	0.77	18.217									
200.00	200.00	200.00	200.00	0.48	0.29	149.88	-12.13	7.04	14.03	12.72	1.30	10.765									
300.00	300.00	300.00	300.00	0.84	0.47	149.88	-12.13	7.04	14.03	12.46	1.57	8.937									
350.00	350.00	350.00	350.00	1.02	0.55	149.88	-12.13	7.04	14.03	12.46	1.57	8.937									
400.00	399.99	399.99	399.99	1.19	0.64	37.17	-12.13	7.04	13.50	11.67	1.83	7.375									
500.00	499.85	499.34	499.30	1.54	0.82	48.45	-13.92	8.91	12.04	9.64	2.40	5.017									
530.44	530.17	529.60	529.50	1.65	0.88	53.62	-15.17	10.22	11.93	9.35	2.59	4.615 CC, ES									
600.00	599.29	598.77	598.41	1.90	1.02	67.04	-19.26	14.52	12.57	9.57	2.99	4.198 SF									
700.00	698.04	698.23	697.02	2.28	1.28	84.48	-28.16	23.86	15.92	12.32	3.61	4.415									
800.00	795.85	797.68	794.81	2.70	1.61	95.53	-40.59	36.90	21.94	17.61	4.33	5.066									
900.00	892.43	897.08	891.48	3.17	2.03	101.51	-56.51	53.60	30.13	24.93	5.20	5.791									
1,000.00	987.52	996.41	986.81	3.71	2.52	104.79	-75.77	73.82	40.18	33.97	6.22	6.465									
1,100.00	1,080.87	1,095.59	1,081.54	4.33	3.04	110.43	-96.01	95.06	52.00	44.69	7.31	7.118									
1,200.00	1,172.22	1,194.20	1,175.74	5.04	3.56	117.91	-116.14	116.18	66.46	58.05	8.41	7.900									
1,300.00	1,261.31	1,291.98	1,269.14	5.85	4.08	125.44	-136.10	137.12	84.63	75.16	9.47	8.939									
1,400.00	1,347.90	1,388.66	1,361.49	6.79	4.61	132.17	-155.83	157.83	107.23	96.79	10.44	10.273									
1,500.00	1,431.76	1,483.97	1,452.53	7.86	5.13	137.82	-175.29	178.24	134.64	123.31	11.33	11.886									
1,603.26	1,515.23	1,580.67	1,544.91	9.10	5.65	142.57	-195.03	198.96	168.14	155.96	12.18	13.802									
1,700.00	1,591.88	1,670.37	1,630.59	10.35	6.14	146.44	-213.34	218.17	202.42	189.46	12.96	15.618									
1,800.00	1,671.11	1,763.10	1,719.17	11.67	6.65	149.27	-232.26	238.03	238.46	224.68	13.78	17.309									
1,900.00	1,750.34	1,855.82	1,807.74	13.01	7.16	151.36	-251.19	257.89	274.87	260.26	14.61	18.818									
2,000.00	1,829.57	1,948.54	1,896.31	14.36	7.68	152.97	-270.11	277.75	311.53	296.08	15.45	20.164									
2,100.00	1,908.81	2,041.26	1,984.88	15.72	8.19	154.24	-289.04	297.61	348.36	332.06	16.30	21.368									
2,200.00	1,988.04	2,133.99	2,073.45	17.09	8.70	155.26	-307.97	317.47	385.31	368.15	17.17	22.447									
2,300.00	2,067.27	2,226.71	2,162.02	18.46	9.21	156.11	-326.89	337.33	422.35	404.31	18.03	23.419									
2,400.00	2,146.50	2,319.43	2,250.59	19.84	9.72	156.82	-345.82	357.19	459.45	440.54	18.91	24.297									
2,500.00	2,225.73	2,412.15	2,339.16	21.23	10.24	157.42	-364.74	377.05	496.61	476.82	19.79	25.094									
2,600.00	2,304.96	2,504.88	2,427.73	22.62	10.75	157.95	-383.67	396.91	533.81	513.13	20.67	25.820									
2,700.00	2,384.19	2,597.60	2,516.30	24.00	11.26	158.40	-402.60	416.77	571.04	549.48	21.56	26.483									
2,800.00	2,463.42	2,690.32	2,604.87	25.40	11.78	158.80	-421.52	436.63	608.30	585.84	22.45	27.091									
2,900.00	2,542.66	2,783.04	2,693.44	26.79	12.29	159.15	-440.45	456.49	645.58	622.23	23.35	27.650									
3,000.00	2,621.89	2,875.76	2,782.02	28.18	12.81	159.46	-459.37	476.35	682.88	658.63	24.24	28.166									
3,100.00	2,701.12	2,968.49	2,870.59	29.58	13.32	159.74	-478.30	496.21	720.19	695.05	25.14	28.643									
3,200.00	2,780.35	3,061.21	2,959.16	30.98	13.83	159.99	-497.23	516.07	757.52	731.48	26.04	29.086									
3,300.00	2,859.58	3,153.93	3,047.73	32.38	14.35	160.22	-516.15	535.93	794.86	767.91	26.95	29.498									
3,400.00	2,938.81	3,246.65	3,136.30	33.78	14.86	160.43	-535.08	555.79	832.21	804.36	27.85	29.882									
3,500.00	3,018.04	3,339.38	3,224.87	35.18	15.38	160.62	-554.01	575.65	869.57	840.81	28.75	30.241									
3,600.00	3,097.27	3,432.10	3,313.44	36.58	15.89	160.80	-572.93	595.51	906.94	877.27	29.66	30.577									
3,700.00	3,176.51	3,524.82	3,402.01	37.98	16.41	160.96	-591.86	615.37	944.31	913.74	30.57	30.892									
3,800.00	3,255.74	3,617.54	3,490.58	39.38	16.92	161.11	-610.78	635.23	981.69	950.21	31.48	31.189									
3,900.00	3,334.97	3,710.26	3,579.15	40.78	17.44	161.25	-629.71	655.09	1,019.07	986.69	32.38	31.467									
4,000.00	3,414.20	3,802.99	3,667.72	42.19	17.95	161.38	-648.64	674.95	1,056.46	1,023.17	33.29	31.731									
4,100.00	3,493.43	3,895.71	3,756.29	43.59	18.47	161.50	-667.56	694.81	1,093.85	1,059.65	34.21	31.979									
4,200.00	3,572.66	3,988.43	3,844.87	44.99	18.98	161.61	-686.49	714.67	1,131.25	1,096.13	35.12	32.214									
4,300.00	3,651.89	4,081.15	3,933.44	46.40	19.50	161.71	-705.41	734.53	1,168.65	1,132.62	36.03	32.437									
4,400.00	3,731.12	4,173.88	4,022.01	47.80	20.01	161.81	-724.34	754.39	1,206.05	1,169.11	36.94	32.648									
4,500.00	3,810.36	4,266.60	4,110.58	49.20	20.53	161.90	-743.27	774.25	1,243.46	1,205.61	37.85	32.849									
4,600.00	3,889.59	4,359.32	4,199.15	50.61	21.04	161.99	-762.19	794.11	1,280.87	1,242.10	38.77	33.040									
4,700.00	3,968.82	4,452.04	4,287.72	52.01	21.56	162.07	-781.12	813.97	1,318.28	1,278.60	39.68	33.222									
4,800.00	4,048.05	4,544.76	4,376.29	53.42	22.07	162.15	-800.04	833.83	1,355.69	1,315.10	40.60	33.395									
4,900.00	4,127.28	4,637.49	4,464.86	54.82	22.59	162.22	-818.97	853.69	1,393.11	1,351.60	41.51	33.561									

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
5,000.00	4,206.51	4,730.21	4,553.43	56.23	23.10	162.29	-837.90	873.55	1,430.53	1,388.10	42.43	33.719			
5,100.00	4,285.74	4,822.93	4,642.00	57.64	23.62	162.36	-856.82	893.41	1,467.95	1,424.61	43.34	33.870			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	169.57	-21.24	3.91	21.60	21.36	0.24	91.116			
100.00	100.00	100.00	100.00	0.12	0.12	169.57	-21.24	3.91	21.60	20.83	0.77	28.047			
200.00	200.00	200.00	200.00	0.48	0.29	169.57	-21.24	3.91	21.60	20.29	1.30	16.574			
300.00	300.00	300.00	300.00	0.84	0.47	169.57	-21.24	3.91	21.60	20.03	1.57	13.760			
350.00	350.00	350.00	350.00	1.02	0.55	169.57	-21.24	3.91	21.60	20.03	1.57	13.760			
400.00	399.99	399.99	399.99	1.19	0.64	56.69	-21.24	3.91	21.23	19.40	1.83	11.599			
500.00	499.85	499.85	499.85	1.54	0.81	70.14	-21.24	3.91	18.87	16.52	2.35	8.032			
562.77	562.33	562.27	562.27	1.76	0.92	88.34	-21.27	3.94	17.77	15.08	2.68	6.618	CC, ES		
600.00	599.29	599.15	599.14	1.90	0.99	100.73	-21.74	4.29	18.37	15.49	2.88	6.368	SF		
700.00	698.04	698.44	698.29	2.28	1.17	125.10	-25.82	7.41	25.15	21.70	3.45	7.289			
800.00	795.85	797.99	797.30	2.70	1.39	135.61	-34.02	13.66	36.57	32.50	4.08	8.971			
900.00	892.43	897.73	895.82	3.17	1.66	139.21	-46.34	23.06	50.68	45.89	4.78	10.592			
1,000.00	987.52	997.57	993.48	3.71	2.02	139.81	-62.75	35.57	66.88	61.29	5.59	11.960			
1,100.00	1,080.87	1,097.41	1,089.95	4.33	2.46	139.04	-83.19	51.16	85.06	78.53	6.53	13.035			
1,200.00	1,172.22	1,197.18	1,184.87	5.04	2.99	137.63	-107.60	69.78	105.20	97.59	7.61	13.825			
1,300.00	1,261.31	1,295.94	1,277.25	5.85	3.59	136.09	-135.34	90.94	127.44	118.62	8.82	14.452			
1,400.00	1,347.90	1,392.60	1,367.32	6.79	4.20	135.85	-163.23	112.21	153.02	142.96	10.06	15.209			
1,500.00	1,431.76	1,488.14	1,456.35	7.86	4.81	136.63	-190.79	133.23	182.26	170.94	11.32	16.096			
1,603.26	1,515.23	1,585.33	1,546.91	9.10	5.43	137.97	-218.83	154.61	216.43	203.80	12.62	17.146			
1,700.00	1,591.88	1,675.60	1,631.04	10.35	6.02	139.81	-244.88	174.48	250.48	236.65	13.83	18.110			
1,800.00	1,671.11	1,768.92	1,718.00	11.67	6.63	141.25	-271.80	195.01	285.87	270.79	15.08	18.955			
1,900.00	1,750.34	1,862.24	1,804.95	13.01	7.25	142.38	-298.73	215.55	321.38	305.04	16.34	19.671			
2,000.00	1,829.57	1,955.55	1,891.91	14.36	7.86	143.28	-325.65	236.08	356.97	339.37	17.60	20.284			
2,100.00	1,908.81	2,048.87	1,978.87	15.72	8.48	144.01	-352.57	256.61	392.63	373.77	18.86	20.813			
2,200.00	1,988.04	2,142.19	2,065.82	17.09	9.10	144.63	-379.49	277.15	428.34	408.21	20.13	21.275			
2,300.00	2,067.27	2,235.51	2,152.78	18.46	9.72	145.15	-406.42	297.68	464.08	442.68	21.41	21.679			
2,400.00	2,146.50	2,328.82	2,239.74	19.84	10.34	145.60	-433.34	318.22	499.85	477.17	22.68	22.037			
2,500.00	2,225.73	2,422.14	2,326.70	21.23	10.96	145.98	-460.26	338.75	535.65	511.69	23.96	22.356			
2,600.00	2,304.96	2,515.46	2,413.65	22.62	11.58	146.32	-487.19	359.28	571.46	546.22	25.24	22.641			
2,700.00	2,384.19	2,608.77	2,500.61	24.00	12.20	146.62	-514.11	379.82	607.29	580.77	26.52	22.897			
2,800.00	2,463.42	2,702.09	2,587.57	25.40	12.83	146.88	-541.03	400.35	643.13	615.33	27.81	23.129			
2,900.00	2,542.66	2,795.41	2,674.53	26.79	13.45	147.12	-567.96	420.89	678.99	649.89	29.09	23.340			
3,000.00	2,621.89	2,888.73	2,761.48	28.18	14.07	147.34	-594.88	441.42	714.85	684.47	30.38	23.532			
3,100.00	2,701.12	2,982.04	2,848.44	29.58	14.70	147.53	-621.80	461.95	750.72	719.05	31.67	23.708			
3,200.00	2,780.35	3,075.36	2,935.40	30.98	15.32	147.70	-648.72	482.49	786.59	753.64	32.95	23.869			
3,300.00	2,859.58	3,168.68	3,022.36	32.38	15.94	147.86	-675.65	503.02	822.48	788.23	34.24	24.018			
3,400.00	2,938.81	3,261.99	3,109.31	33.78	16.57	148.01	-702.57	523.56	858.36	822.83	35.53	24.156			
3,500.00	3,018.04	3,355.31	3,196.27	35.18	17.19	148.15	-729.49	544.09	894.25	857.43	36.82	24.284			
3,600.00	3,097.27	3,448.63	3,283.23	36.58	17.82	148.27	-756.42	564.62	930.15	892.03	38.12	24.403			
3,700.00	3,176.51	3,541.94	3,370.19	37.98	18.44	148.39	-783.34	585.16	966.05	926.64	39.41	24.513			
3,800.00	3,255.74	3,635.26	3,457.14	39.38	19.07	148.49	-810.26	605.69	1,001.95	961.25	40.70	24.617			
3,900.00	3,334.97	3,728.58	3,544.10	40.78	19.69	148.59	-837.19	626.23	1,037.86	995.86	42.00	24.714			
4,000.00	3,414.20	3,821.90	3,631.06	42.19	20.32	148.69	-864.11	646.76	1,073.76	1,030.48	43.29	24.805			
4,100.00	3,493.43	3,915.21	3,718.02	43.59	20.94	148.77	-891.03	667.29	1,109.67	1,065.09	44.58	24.890			
4,200.00	3,572.66	4,008.53	3,804.97	44.99	21.57	148.85	-917.95	687.83	1,145.59	1,099.71	45.88	24.971			
4,300.00	3,651.89	4,101.85	3,891.93	46.40	22.19	148.93	-944.88	708.36	1,181.50	1,134.33	47.17	25.046			
4,400.00	3,731.12	4,195.16	3,978.89	47.80	22.82	149.00	-971.80	728.89	1,217.42	1,168.95	48.47	25.118			
4,500.00	3,810.36	4,288.48	4,065.84	49.20	23.44	149.07	-998.72	749.43	1,253.33	1,203.57	49.76	25.186			
4,600.00	3,889.59	4,381.80	4,152.80	50.61	24.07	149.13	-1,025.65	769.96	1,289.25	1,238.19	51.06	25.250			
4,700.00	3,968.82	4,475.12	4,239.76	52.01	24.70	149.19	-1,052.57	790.50	1,325.17	1,272.82	52.36	25.311			
4,800.00	4,048.05	4,568.43	4,326.72	53.42	25.32	149.25	-1,079.49	811.03	1,361.09	1,307.44	53.65	25.369			
4,900.00	4,127.28	4,661.75	4,413.67	54.82	25.95	149.31	-1,106.42	831.56	1,397.02	1,342.07	54.95	25.424			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
5,000.00	4,206.51	4,755.07	4,500.63	56.23	26.57	149.36	-1,133.34	852.10	1,432.94	1,376.69	56.24	25.477			
5,100.00	4,285.74	4,848.38	4,587.59	57.64	27.20	149.41	-1,160.26	872.63	1,468.86	1,411.32	57.54	25.527			

Cathedral Energy Services

Anticollision Report

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Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft								
Survey Program: O-MWD													Offset Well Error:		0.00 usft							
Reference													Offset		Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning									
0.00	0.00	0.00	0.00	0.00	0.00	177.14	-31.37	1.56	31.41													
100.00	100.00	100.00	100.00	0.12	0.12	177.14	-31.37	1.56	31.41	31.17	0.24	132.499										
200.00	200.00	200.00	200.00	0.48	0.29	177.14	-31.37	1.56	31.41	30.64	0.77	40.785										
300.00	300.00	300.00	300.00	0.84	0.47	177.14	-31.37	1.56	31.41	30.10	1.30	24.102										
350.00	350.00	350.00	350.00	1.02	0.55	177.14	-31.37	1.56	31.41	29.84	1.57	20.009										
400.00	399.99	399.99	399.99	1.19	0.64	63.89	-31.37	1.56	31.11	29.28	1.83	16.998										
500.00	499.85	499.85	499.85	1.54	0.81	73.20	-31.37	1.56	29.19	26.84	2.35	12.426										
548.97	548.61	548.15	548.14	1.71	0.90	80.88	-31.87	1.90	28.62	26.00	2.62	10.937	CC, ES									
600.00	599.29	598.53	598.48	1.90	0.99	89.46	-33.48	2.98	29.28	26.38	2.90	10.099										
700.00	698.04	697.37	697.02	2.28	1.19	104.53	-39.82	7.25	34.50	31.02	3.48	9.905	SF									
800.00	795.85	796.26	795.07	2.70	1.44	114.48	-50.40	14.36	44.26	40.12	4.13	10.707										
900.00	892.43	895.09	892.27	3.17	1.75	119.92	-65.16	24.29	57.59	52.70	4.89	11.777										
1,000.00	987.52	993.74	988.26	3.71	2.15	122.52	-84.03	36.98	73.90	68.13	5.78	12.796										
1,100.00	1,080.87	1,092.13	1,082.69	4.33	2.63	123.50	-106.93	52.37	92.89	86.09	6.81	13.650										
1,200.00	1,172.22	1,190.15	1,175.22	5.04	3.21	123.56	-133.72	70.39	114.42	106.43	7.99	14.312										
1,300.00	1,261.31	1,287.60	1,265.51	5.85	3.85	123.14	-164.14	90.85	138.41	129.08	9.33	14.834										
1,400.00	1,347.90	1,383.92	1,354.17	6.79	4.50	123.62	-195.38	111.85	165.08	154.34	10.74	15.369										
1,500.00	1,431.76	1,479.20	1,441.88	7.86	5.16	125.01	-226.27	132.62	194.69	182.50	12.19	15.968										
1,603.26	1,515.23	1,576.23	1,531.20	9.10	5.83	126.92	-257.74	153.78	228.61	214.90	13.71	16.678										
1,700.00	1,591.88	1,666.40	1,614.20	10.35	6.47	129.34	-286.97	173.44	262.28	247.16	15.12	17.345										
1,800.00	1,671.11	1,759.60	1,699.99	11.67	7.12	131.27	-317.20	193.76	297.42	280.84	16.58	17.941										
1,900.00	1,750.34	1,852.81	1,785.79	13.01	7.78	132.79	-347.42	214.08	332.79	314.76	18.03	18.456										
2,000.00	1,829.57	1,946.01	1,871.58	14.36	8.44	134.02	-377.64	234.40	368.34	348.85	19.49	18.902										
2,100.00	1,908.81	2,039.22	1,957.37	15.72	9.11	135.03	-407.86	254.72	404.00	383.06	20.94	19.293										
2,200.00	1,988.04	2,132.42	2,043.17	17.09	9.77	135.88	-438.08	275.05	439.76	417.36	22.40	19.636										
2,300.00	2,067.27	2,225.63	2,128.96	18.46	10.43	136.61	-468.31	295.37	475.59	451.74	23.85	19.940										
2,400.00	2,146.50	2,318.83	2,214.76	19.84	11.10	137.23	-498.53	315.69	511.48	486.17	25.31	20.211										
2,500.00	2,225.73	2,412.04	2,300.55	21.23	11.76	137.77	-528.75	336.01	547.41	520.64	26.76	20.453										
2,600.00	2,304.96	2,505.24	2,386.35	22.62	12.43	138.24	-558.97	356.33	583.38	555.16	28.22	20.671										
2,700.00	2,384.19	2,598.45	2,472.14	24.00	13.10	138.66	-589.19	376.65	619.38	589.70	29.68	20.869										
2,800.00	2,463.42	2,691.65	2,557.94	25.40	13.76	139.03	-619.42	396.98	655.41	624.27	31.14	21.048										
2,900.00	2,542.66	2,784.86	2,643.73	26.79	14.43	139.37	-649.64	417.30	691.45	658.86	32.60	21.212										
3,000.00	2,621.89	2,878.06	2,729.53	28.18	15.10	139.67	-679.86	437.62	727.52	693.46	34.06	21.362										
3,100.00	2,701.12	2,971.26	2,815.32	29.58	15.77	139.94	-710.08	457.94	763.60	728.09	35.52	21.499										
3,200.00	2,780.35	3,064.47	2,901.12	30.98	16.44	140.19	-740.30	478.26	799.70	762.72	36.98	21.626										
3,300.00	2,859.58	3,157.67	2,986.91	32.38	17.10	140.42	-770.53	498.59	835.81	797.37	38.44	21.744										
3,400.00	2,938.81	3,250.88	3,072.71	33.78	17.77	140.62	-800.75	518.91	871.93	832.03	39.90	21.853										
3,500.00	3,018.04	3,344.08	3,158.50	35.18	18.44	140.82	-830.97	539.23	908.05	866.69	41.36	21.954										
3,600.00	3,097.27	3,437.29	3,244.30	36.58	19.11	140.99	-861.19	559.55	944.19	901.37	42.82	22.048										
3,700.00	3,176.51	3,530.49	3,330.09	37.98	19.78	141.16	-891.41	579.87	980.33	936.05	44.29	22.136										
3,800.00	3,255.74	3,623.70	3,415.89	39.38	20.45	141.31	-921.64	600.19	1,016.48	970.73	45.75	22.219										
3,900.00	3,334.97	3,716.90	3,501.68	40.78	21.12	141.45	-951.86	620.52	1,052.64	1,005.43	47.21	22.296										
4,000.00	3,414.20	3,810.11	3,587.48	42.19	21.79	141.58	-982.08	640.84	1,088.80	1,040.12	48.67	22.369										
4,100.00	3,493.43	3,903.31	3,673.27	43.59	22.46	141.71	-1,012.30	661.16	1,124.96	1,074.83	50.14	22.438										
4,200.00	3,572.66	3,996.52	3,759.07	44.99	23.12	141.82	-1,042.52	681.48	1,161.13	1,109.53	51.60	22.502										
4,300.00	3,651.89	4,089.72	3,844.86	46.40	23.79	141.93	-1,072.75	701.80	1,197.31	1,144.24	53.06	22.563										
4,400.00	3,731.12	4,182.93	3,930.66	47.80	24.46	142.03	-1,102.97	722.12	1,233.48	1,178.95	54.53	22.621										
4,500.00	3,810.36	4,276.13	4,016.45	49.20	25.13	142.13	-1,133.19	742.45	1,269.66	1,213.67	55.99	22.676										
4,600.00	3,889.59	4,369.33	4,102.25	50.61	25.80	142.22	-1,163.41	762.77	1,305.85	1,248.39	57.46	22.728										
4,700.00	3,968.82	4,462.54	4,188.04	52.01	26.47	142.31	-1,193.64	783.09	1,342.03	1,283.11	58.92	22.777										
4,800.00	4,048.05	4,555.74	4,273.84	53.42	27.14	142.39	-1,223.86	803.41	1,378.22	1,317.84	60.38	22.824										
4,900.00	4,127.28	4,648.95	4,359.63	54.82	27.81	142.47	-1,254.08	823.73	1,414.41	1,352.56	61.85	22.869										

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
5,000.00	4,206.51	4,742.15	4,445.43	56.23	28.48	142.54	-1,284.30	844.05	1,450.60	1,387.29	63.31	22.912			
5,100.00	4,285.74	4,835.36	4,531.22	57.64	29.15	142.61	-1,314.52	864.38	1,486.80	1,422.02	64.78	22.953			

Cathedral Energy Services

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Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-177.79	-40.46	-1.56	40.49	40.26	0.24	170.845			
100.00	100.00	100.00	100.00	0.12	0.12	-177.79	-40.46	-1.56	40.49	39.72	0.77	52.588			
200.00	200.00	200.00	200.00	0.48	0.29	-177.79	-40.46	-1.56	40.49	39.19	1.30	31.077			
300.00	300.00	300.00	300.00	0.84	0.47	-177.79	-40.46	-1.56	40.49	38.93	1.57	25.800			
350.00	350.00	350.00	350.00	1.02	0.55	-177.79	-40.46	-1.56	40.49	38.42	1.83	21.993			
400.00	399.99	399.99	399.99	1.19	0.64	68.75	-40.46	-1.56	40.25	36.79	2.36	16.610			
500.00	499.85	499.09	499.08	1.54	0.81	75.34	-41.00	-1.24	39.15	36.78	2.37	16.542	CC, ES		
501.70	501.54	500.76	500.76	1.54	0.82	75.48	-41.04	-1.22	39.15	38.02	2.93	13.956			
600.00	599.29	597.41	597.27	1.90	1.00	84.64	-45.34	1.37	40.95	43.18	3.55	13.171	SF		
700.00	698.04	695.70	695.03	2.28	1.22	93.85	-53.99	6.58	46.73	52.27	4.23	13.350			
800.00	795.85	793.83	791.97	2.70	1.50	101.18	-66.91	14.36	56.50	69.97	5.03	13.914			
900.00	892.43	891.65	887.73	3.17	1.85	106.24	-84.02	24.66	69.97	80.83	5.96	14.558			
1,000.00	987.52	989.06	981.93	3.71	2.29	109.44	-105.21	37.42	86.80	99.69	7.05	15.147			
1,100.00	1,080.87	1,085.95	1,074.26	4.33	2.81	111.34	-130.34	52.55	106.73	121.31	8.29	15.633			
1,200.00	1,172.22	1,182.20	1,164.39	5.04	3.42	112.35	-159.24	69.95	129.60	145.57	9.69	16.028			
1,300.00	1,261.31	1,277.75	1,252.08	5.85	4.09	112.78	-191.75	89.52	155.26	172.09	11.20	16.364			
1,400.00	1,347.90	1,373.61	1,339.10	6.79	4.80	113.61	-226.20	110.26	183.29	200.79	12.79	16.696			
1,500.00	1,431.76	1,468.54	1,425.26	7.86	5.50	115.27	-260.32	130.80	213.59	233.10	14.49	17.087			
1,603.26	1,515.23	1,565.29	1,513.09	9.10	6.22	117.43	-295.09	151.74	247.59	265.06	16.09	17.473			
1,700.00	1,591.88	1,655.24	1,594.75	10.35	6.90	120.15	-327.42	171.20	281.15	298.57	17.74	17.834			
1,800.00	1,671.11	1,748.23	1,679.15	11.67	7.60	122.36	-360.84	191.33	316.31	332.43	19.38	18.157			
1,900.00	1,750.34	1,841.22	1,763.56	13.01	8.31	124.13	-394.26	211.45	351.80	366.52	21.01	18.444			
2,000.00	1,829.57	1,934.20	1,847.97	14.36	9.02	125.58	-427.68	231.57	387.54	400.81	22.64	18.701			
2,100.00	1,908.81	2,027.19	1,932.38	15.72	9.72	126.78	-461.10	251.69	423.45	435.23	24.27	18.931			
2,200.00	1,988.04	2,120.18	2,016.79	17.09	10.43	127.80	-494.52	271.81	459.50	469.77	25.90	19.138			
2,300.00	2,067.27	2,213.16	2,101.20	18.46	11.14	128.67	-527.94	291.93	495.67	504.39	27.53	19.325			
2,400.00	2,146.50	2,306.15	2,185.60	19.84	11.85	129.42	-561.36	312.05	531.91	539.08	29.15	19.494			
2,500.00	2,225.73	2,399.13	2,270.01	21.23	12.56	130.07	-594.78	332.17	568.23	573.83	30.77	19.647			
2,600.00	2,304.96	2,492.12	2,354.42	22.62	13.27	130.65	-628.20	352.29	604.61	608.63	32.40	19.787			
2,700.00	2,384.19	2,585.11	2,438.83	24.00	13.99	131.16	-661.62	372.41	641.03	643.47	34.02	19.915			
2,800.00	2,463.42	2,678.09	2,523.24	25.40	14.70	131.62	-695.04	392.54	677.49	678.35	35.64	20.033			
2,900.00	2,542.66	2,771.08	2,607.64	26.79	15.41	132.03	-728.46	412.66	713.99	713.25	37.26	20.141			
3,000.00	2,621.89	2,864.07	2,692.05	28.18	16.12	132.40	-761.88	432.78	750.51	748.18	38.88	20.242			
3,100.00	2,701.12	2,957.05	2,776.46	29.58	16.84	132.74	-795.30	452.90	787.06	783.13	40.50	20.334			
3,200.00	2,780.35	3,050.04	2,860.87	30.98	17.55	133.05	-828.71	473.02	823.63	818.10	42.13	20.421			
3,300.00	2,859.58	3,143.03	2,945.28	32.38	18.26	133.33	-862.13	493.14	860.22	853.08	43.75	20.501			
3,400.00	2,938.81	3,236.01	3,029.69	33.78	18.98	133.58	-895.55	513.26	896.83	888.08	45.37	20.576			
3,500.00	3,018.04	3,329.00	3,114.09	35.18	19.69	133.82	-928.97	533.38	933.45	923.09	46.99	20.646			
3,600.00	3,097.27	3,421.98	3,198.50	36.58	20.40	134.04	-962.39	553.50	970.08	958.12	48.61	20.711			
3,700.00	3,176.51	3,514.97	3,282.91	37.98	21.12	134.25	-995.81	573.62	1,006.73	993.15	50.23	20.773			
3,800.00	3,255.74	3,607.96	3,367.32	39.38	21.83	134.43	-1,029.23	593.75	1,043.38	1,028.20	51.85	20.831			
3,900.00	3,334.97	3,700.94	3,451.73	40.78	22.54	134.61	-1,062.65	613.87	1,080.05	1,063.25	53.47	20.886			
4,000.00	3,414.20	3,793.93	3,536.13	42.19	23.26	134.78	-1,096.07	633.99	1,116.72	1,098.31	55.09	20.937			
4,100.00	3,493.43	3,886.92	3,620.54	43.59	23.97	134.93	-1,129.49	654.11	1,153.40	1,133.38	56.71	20.986			
4,200.00	3,572.66	3,979.90	3,704.95	44.99	24.69	135.08	-1,162.91	674.23	1,190.08	1,168.45	58.33	21.032			
4,300.00	3,651.89	4,072.89	3,789.36	46.40	25.40	135.21	-1,196.33	694.35	1,226.78	1,203.53	61.57	21.118			
4,400.00	3,731.12	4,165.88	3,873.77	47.80	26.12	135.34	-1,229.75	714.47	1,263.48	1,237.79	63.19	21.157			
4,500.00	3,810.36	4,258.86	3,958.18	49.20	26.83	135.46	-1,263.17	734.59	1,300.18	1,273.70	64.81	21.195			
4,600.00	3,889.59	4,351.85	4,042.58	50.61	27.54	135.58	-1,296.59	754.71	1,336.89	1,308.79	66.43	21.231			
4,700.00	3,968.82	4,444.83	4,126.99	52.01	28.26	135.68	-1,330.01	774.84	1,373.60	1,343.89	68.05	21.265			
4,800.00	4,048.05	4,537.82	4,211.40	53.42	28.97	135.79	-1,363.43	794.96	1,410.32	1,378.99					
4,900.00	4,127.28	4,630.81	4,295.81	54.82	29.69	135.88	-1,396.85	815.08	1,447.04						

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
5,000.00	4,206.51	4,723.79	4,380.22	56.23	30.40	135.98	-1,430.27	835.20	1,483.76	1,414.10	69.67	21.298			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD+HDGM													Offset Well Error:		0.00 usft
Reference				Offset				Semi Major Axis			Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-175.56	-50.41	-3.91	50.56						
100.00	100.00	100.00	100.00	0.12	0.12	-175.56	-50.41	-3.91	50.56	50.32	0.24	210.508			
200.00	200.00	200.00	200.00	0.48	0.48	-175.56	-50.41	-3.91	50.56	49.60	0.96	52.824			
300.00	300.00	300.00	300.00	0.84	0.84	-175.56	-50.41	-3.91	50.56	48.89	1.67	30.201			
350.00	350.00	350.00	350.00	1.02	1.02	-175.56	-50.41	-3.91	50.56	48.53	2.03	24.875			
400.00	399.99	399.99	399.99	1.19	1.20	70.81	-50.41	-3.91	50.34	47.95	2.39	21.105			
431.72	431.70	431.03	431.03	1.30	1.30	71.81	-50.63	-3.79	50.20	47.59	2.61	19.218	CC, ES		
500.00	499.85	497.83	497.78	1.54	1.53	74.68	-52.61	-2.71	50.87	47.72	3.15	16.162			
600.00	599.29	595.58	595.24	1.90	1.87	80.15	-59.20	0.87	54.45	50.48	3.97	13.704			
700.00	698.04	693.11	691.96	2.28	2.22	86.08	-70.12	6.82	61.47	56.67	4.80	12.808	SF		
800.00	795.85	790.26	787.55	2.70	2.59	91.47	-85.31	15.08	72.10	66.48	5.62	12.823			
900.00	892.43	886.89	881.64	3.17	3.01	95.82	-104.63	25.60	86.34	79.86	6.48	13.318			
1,000.00	987.52	982.89	973.88	3.71	3.46	99.10	-127.93	38.28	104.06	96.64	7.42	14.031			
1,100.00	1,080.87	1,078.12	1,063.96	4.33	3.96	101.44	-155.04	53.04	125.09	116.63	8.46	14.792			
1,200.00	1,172.22	1,172.50	1,151.60	5.04	4.52	103.06	-185.77	69.76	149.27	139.65	9.62	15.509			
1,300.00	1,261.31	1,265.92	1,236.55	5.85	5.14	104.11	-219.90	88.33	176.47	165.53	10.94	16.135			
1,400.00	1,347.90	1,360.58	1,321.24	6.79	5.82	105.18	-257.04	108.55	206.12	193.73	12.39	16.631			
1,500.00	1,431.76	1,455.00	1,405.67	7.86	6.52	106.93	-294.19	128.76	237.45	223.47	13.98	16.988			
1,603.26	1,515.23	1,551.34	1,491.80	9.10	7.26	109.15	-332.09	149.39	271.93	256.21	15.73	17.293			
1,700.00	1,591.88	1,640.95	1,571.92	10.35	7.95	112.01	-367.34	168.57	305.73	288.31	17.42	17.553			
1,800.00	1,671.11	1,733.58	1,654.75	11.67	8.68	114.38	-403.78	188.40	341.24	322.06	19.18	17.792			
1,900.00	1,750.34	1,826.22	1,737.57	13.01	9.42	116.31	-440.22	208.24	377.17	356.22	20.95	18.004			
2,000.00	1,829.57	1,918.85	1,820.39	14.36	10.15	117.90	-476.66	228.07	413.41	390.69	22.72	18.194			
2,100.00	1,908.81	2,011.48	1,903.21	15.72	10.90	119.24	-513.10	247.90	449.89	425.39	24.50	18.366			
2,200.00	1,988.04	2,104.11	1,986.03	17.09	11.64	120.38	-549.54	267.73	486.54	460.28	26.27	18.522			
2,300.00	2,067.27	2,196.74	2,068.86	18.46	12.39	121.36	-585.98	287.56	523.35	495.31	28.04	18.663			
2,400.00	2,146.50	2,289.37	2,151.68	19.84	13.15	122.21	-622.42	307.39	560.27	530.45	29.82	18.791			
2,500.00	2,225.73	2,382.01	2,234.50	21.23	13.90	122.96	-658.86	327.23	597.28	565.69	31.59	18.908			
2,600.00	2,304.96	2,474.64	2,317.32	22.62	14.65	123.62	-695.30	347.06	634.37	601.01	33.36	19.016			
2,700.00	2,384.19	2,567.27	2,400.14	24.00	15.41	124.20	-731.74	366.89	671.53	636.39	35.13	19.114			
2,800.00	2,463.42	2,659.90	2,482.96	25.40	16.17	124.73	-768.18	386.72	708.74	671.83	36.90	19.205			
2,900.00	2,542.66	2,752.53	2,565.79	26.79	16.93	125.20	-804.62	406.55	746.00	707.32	38.67	19.289			
3,000.00	2,621.89	2,845.17	2,648.61	28.18	17.69	125.63	-841.05	426.39	783.29	742.85	40.45	19.367			
3,100.00	2,701.12	2,937.80	2,731.43	29.58	18.45	126.02	-877.49	446.22	820.62	778.41	42.22	19.439			
3,200.00	2,780.35	3,030.43	2,814.25	30.98	19.21	126.38	-913.93	466.05	857.99	814.00	43.99	19.506			
3,300.00	2,859.58	3,123.06	2,897.07	32.38	19.97	126.71	-950.37	485.88	895.37	849.62	45.76	19.569			
3,400.00	2,938.81	3,215.69	2,979.90	33.78	20.73	127.01	-986.81	505.71	932.79	885.26	47.53	19.627			
3,500.00	3,018.04	3,308.32	3,062.72	35.18	21.49	127.28	-1,023.25	525.54	970.22	920.92	49.30	19.682			
3,600.00	3,097.27	3,400.96	3,145.54	36.58	22.26	127.54	-1,059.69	545.38	1,007.67	956.60	51.06	19.733			
3,700.00	3,176.51	3,493.59	3,228.36	37.98	23.02	127.78	-1,096.13	565.21	1,045.13	992.30	52.83	19.781			
3,800.00	3,255.74	3,586.22	3,311.18	39.38	23.78	128.00	-1,132.57	585.04	1,082.61	1,028.01	54.60	19.827			
3,900.00	3,334.97	3,678.85	3,394.01	40.78	24.55	128.21	-1,169.01	604.87	1,120.11	1,063.73	56.37	19.870			
4,000.00	3,414.20	3,771.48	3,476.83	42.19	25.31	128.40	-1,205.45	624.70	1,157.61	1,099.47	58.14	19.910			
4,100.00	3,493.43	3,864.11	3,559.65	43.59	26.08	128.58	-1,241.89	644.53	1,195.13	1,135.22	59.91	19.948			
4,200.00	3,572.66	3,956.75	3,642.47	44.99	26.84	128.75	-1,278.33	664.37	1,232.65	1,170.97	61.68	19.985			
4,300.00	3,651.89	4,049.38	3,725.29	46.40	27.61	128.91	-1,314.77	684.20	1,270.19	1,206.74	63.45	20.019			
4,400.00	3,731.12	4,142.01	3,808.12	47.80	28.37	129.06	-1,351.21	704.03	1,307.73	1,242.51	65.22	20.052			
4,500.00	3,810.36	4,234.64	3,890.94	49.20	29.14	129.21	-1,387.65	723.86	1,345.28	1,278.29	66.99	20.083			
4,600.00	3,889.59	4,327.27	3,973.76	50.61	29.90	129.34	-1,424.09	743.69	1,382.83	1,314.08	68.76	20.112			
4,700.00	3,968.82	4,419.90	4,056.58	52.01	30.67	129.47	-1,460.53	763.52	1,420.40	1,349.87	70.52	20.141			
4,800.00	4,048.05	4,512.54	4,139.40	53.42	31.43	129.59	-1,496.97	783.36	1,457.97	1,385.67	72.29	20.168			
4,900.00	4,127.28	4,605.17	4,222.22	54.82	32.20	129.71	-1,533.41	803.19	1,495.54	1,421.48	74.06	20.193			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft							
Survey Program: O-MWD													Offset Well Error:		0.00 usft						
Reference													Offset		Semi Major Axis		Distance		Total	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor									
0.00	0.00	0.00	0.00	0.00	0.00	-173.27	-59.69	-7.04	60.11												
100.00	100.00	100.00	100.00	0.12	0.12	-173.27	-59.69	-7.04	60.11	59.87	0.24	253.589									
200.00	200.00	200.00	200.00	0.48	0.29	-173.27	-59.69	-7.04	60.11	59.34	0.77	78.058									
300.00	300.00	300.00	300.00	0.84	0.47	-173.27	-59.69	-7.04	60.11	58.80	1.30	46.128									
350.00	350.00	350.00	350.00	1.02	0.55	-173.27	-59.69	-7.04	60.11	58.54	1.57	38.296 CC, ES									
400.00	399.99	398.71	398.71	1.19	0.64	72.64	-60.25	-6.76	60.44	58.60	1.84	32.791									
500.00	499.85	496.05	495.91	1.54	0.82	74.49	-64.69	-4.56	63.17	60.73	2.44	25.870									
600.00	599.29	593.14	592.49	1.90	1.05	77.73	-73.53	-0.16	68.81	65.73	3.08	22.321									
700.00	698.04	689.82	688.03	2.28	1.33	81.64	-86.69	6.38	77.61	73.85	3.76	20.623									
800.00	795.85	785.92	782.15	2.70	1.69	85.57	-104.05	15.00	89.76	85.25	4.51	19.905									
900.00	892.43	881.31	874.48	3.17	2.13	89.09	-125.45	25.64	105.34	99.99	5.35	19.679									
1,000.00	987.52	975.85	964.71	3.71	2.64	92.03	-150.70	38.19	124.35	118.03	6.32	19.673									
1,100.00	1,080.87	1,069.43	1,052.53	4.33	3.23	94.37	-179.61	52.55	146.69	139.26	7.43	19.746									
1,200.00	1,172.22	1,161.94	1,137.70	5.04	3.89	96.17	-211.94	68.62	172.26	163.57	8.69	19.827									
1,300.00	1,261.31	1,253.30	1,219.99	5.85	4.62	97.50	-247.45	86.26	200.91	190.81	10.10	19.887									
1,400.00	1,347.90	1,345.83	1,301.62	6.79	5.39	98.64	-286.47	105.66	232.27	220.60	11.67	19.906									
1,500.00	1,431.76	1,439.65	1,384.15	7.86	6.18	100.32	-326.44	125.52	264.99	251.59	13.39	19.788									
1,603.26	1,515.23	1,535.46	1,468.43	9.10	7.00	102.44	-367.25	145.80	300.37	285.06	15.31	19.625									
1,700.00	1,591.88	1,624.63	1,546.86	10.35	7.76	105.29	-405.23	164.67	334.79	317.63	17.16	19.513									
1,800.00	1,671.11	1,716.80	1,627.94	11.67	8.55	107.69	-444.48	184.18	371.00	351.93	19.07	19.452									
1,900.00	1,750.34	1,808.97	1,709.02	13.01	9.34	109.67	-483.74	203.69	407.69	386.70	20.99	19.427									
2,000.00	1,829.57	1,901.14	1,790.09	14.36	10.13	111.32	-523.00	223.20	444.73	421.84	22.89	19.425 SF									
2,100.00	1,908.81	1,993.31	1,871.17	15.72	10.92	112.72	-562.26	242.71	482.05	457.25	24.80	19.439									
2,200.00	1,988.04	2,085.48	1,952.25	17.09	11.71	113.92	-601.52	262.22	519.59	492.89	26.70	19.462									
2,300.00	2,067.27	2,177.65	2,033.32	18.46	12.51	114.97	-640.78	281.73	557.29	528.70	28.59	19.491									
2,400.00	2,146.50	2,269.82	2,114.40	19.84	13.30	115.88	-680.04	301.24	595.14	564.65	30.48	19.523									
2,500.00	2,225.73	2,361.99	2,195.47	21.23	14.10	116.68	-719.30	320.75	633.10	600.73	32.37	19.557									
2,600.00	2,304.96	2,454.16	2,276.55	22.62	14.89	117.39	-758.56	340.26	671.15	636.90	34.26	19.591									
2,700.00	2,384.19	2,546.33	2,357.63	24.00	15.69	118.03	-797.82	359.77	709.29	673.15	36.14	19.626									
2,800.00	2,463.42	2,638.50	2,438.70	25.40	16.48	118.60	-837.08	379.28	747.49	709.47	38.02	19.660									
2,900.00	2,542.66	2,730.67	2,519.78	26.79	17.28	119.11	-876.34	398.79	785.75	745.85	39.90	19.693									
3,000.00	2,621.89	2,822.84	2,600.86	28.18	18.08	119.58	-915.59	418.30	824.06	782.29	41.78	19.726									
3,100.00	2,701.12	2,915.01	2,681.93	29.58	18.87	120.01	-954.85	437.81	862.41	818.76	43.65	19.757									
3,200.00	2,780.35	3,007.18	2,763.01	30.98	19.67	120.40	-994.11	457.32	900.80	855.28	45.53	19.787									
3,300.00	2,859.58	3,099.35	2,844.09	32.38	20.47	120.76	-1,033.37	476.83	939.23	891.83	47.40	19.815									
3,400.00	2,938.81	3,191.52	2,925.16	33.78	21.26	121.09	-1,072.63	496.34	977.68	928.41	49.27	19.843									
3,500.00	3,018.04	3,283.69	3,006.24	35.18	22.06	121.39	-1,111.89	515.85	1,016.16	965.01	51.14	19.869									
3,600.00	3,097.27	3,375.86	3,087.32	36.58	22.86	121.68	-1,151.15	535.36	1,054.66	1,001.64	53.01	19.895									
3,700.00	3,176.51	3,468.03	3,168.39	37.98	23.65	121.94	-1,190.41	554.87	1,093.18	1,038.30	54.88	19.919									
3,800.00	3,255.74	3,560.20	3,249.47	39.38	24.45	122.19	-1,229.67	574.38	1,131.72	1,074.97	56.75	19.942									
3,900.00	3,334.97	3,652.37	3,330.55	40.78	25.25	122.42	-1,268.93	593.89	1,170.27	1,111.65	58.62	19.964									
4,000.00	3,414.20	3,744.54	3,411.62	42.19	26.05	122.63	-1,308.19	613.40	1,208.84	1,148.36	60.49	19.985									
4,100.00	3,493.43	3,836.71	3,492.70	43.59	26.84	122.83	-1,347.45	632.91	1,247.43	1,185.08	62.35	20.006									
4,200.00	3,572.66	3,928.88	3,573.78	44.99	27.64	123.02	-1,386.70	652.42	1,286.03	1,221.81	64.22	20.025									
4,300.00	3,651.89	4,021.05	3,654.85	46.40	28.44	123.20	-1,425.96	671.93	1,324.63	1,258.55	66.09	20.044									
4,400.00	3,731.12	4,113.22	3,735.93	47.80	29.24	123.37	-1,465.22	691.44	1,363.25	1,295.30	67.95	20.062									
4,500.00	3,810.36	4,205.39	3,817.00	49.20	30.03	123.53	-1,504.48	710.95	1,401.88	1,332.06	69.82	20.079									
4,600.00	3,889.59	4,297.56	3,898.08	50.61	30.83	123.68	-1,543.74	730.46	1,440.52	1,368.83	71.68	20.096									
4,700.00	3,968.82	4,389.73	3,979.16	52.01	31.63	123.82	-1,583.00	749.97	1,479.16	1,405.61	73.55	20.112									

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: O-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-172.34	-69.80	-9.39	70.43						
100.00	100.00	100.00	100.00	0.12	0.12	-172.34	-69.80	-9.39	70.43	70.19	0.24	297.146			
200.00	200.00	200.00	200.00	0.48	0.29	-172.34	-69.80	-9.39	70.43	69.66	0.77	91.465			
216.67	216.67	216.67	216.67	0.54	0.32	-172.34	-69.80	-9.39	70.43	69.57	0.86	82.005 CC			
300.00	300.00	300.00	300.00	0.84	0.47	-172.34	-69.80	-9.39	70.43	69.13	1.30	54.052 ES			
350.00	350.00	348.48	348.47	1.02	0.55	-172.61	-70.36	-9.13	70.97	69.38	1.59	44.735			
400.00	399.99	396.91	396.87	1.19	0.64	72.73	-72.04	-8.36	72.39	70.51	1.89	38.336			
500.00	499.85	493.57	493.24	1.54	0.85	73.31	-78.72	-5.31	77.32	74.79	2.52	30.622			
600.00	599.29	589.81	588.70	1.90	1.10	75.21	-89.76	-0.26	85.06	81.87	3.19	26.634			
700.00	698.04	685.46	682.85	2.28	1.43	77.90	-105.06	6.73	95.79	91.89	3.90	24.571			
800.00	795.85	780.36	775.32	2.70	1.83	80.88	-124.45	15.60	109.66	105.00	4.66	23.522			
900.00	892.43	874.37	865.75	3.17	2.30	83.79	-147.76	26.26	126.81	121.29	5.51	22.996			
1,000.00	987.52	967.34	953.84	3.71	2.85	86.40	-174.76	38.60	147.26	140.78	6.48	22.725			
1,100.00	1,080.87	1,059.17	1,039.33	4.33	3.47	88.64	-205.23	52.53	170.98	163.40	7.58	22.565			
1,200.00	1,172.22	1,149.76	1,122.00	5.04	4.15	90.48	-238.91	67.93	197.91	189.09	8.82	22.440			
1,300.00	1,261.31	1,239.03	1,201.65	5.85	4.89	91.94	-275.55	84.68	227.93	217.72	10.21	22.315			
1,400.00	1,347.90	1,328.51	1,279.59	6.79	5.68	93.14	-315.52	102.96	260.86	249.09	11.76	22.178			
1,500.00	1,431.76	1,421.64	1,360.13	7.86	6.51	94.72	-358.04	122.40	295.13	281.64	13.49	21.871			
1,603.26	1,515.23	1,516.82	1,442.45	9.10	7.37	96.70	-401.50	142.26	331.66	316.21	15.45	21.467			
1,700.00	1,591.88	1,605.44	1,519.10	10.35	8.16	99.50	-441.96	160.76	366.95	349.59	17.36	21.133			
1,800.00	1,671.11	1,697.05	1,598.32	11.67	8.99	101.88	-483.78	179.88	404.11	384.75	19.35	20.880			
1,900.00	1,750.34	1,788.65	1,677.55	13.01	9.82	103.88	-525.61	199.01	441.78	420.43	21.35	20.694			
2,000.00	1,829.57	1,880.26	1,756.77	14.36	10.65	105.56	-567.43	218.13	479.85	456.51	23.34	20.558			
2,100.00	1,908.81	1,971.86	1,836.00	15.72	11.48	107.00	-609.25	237.25	518.22	492.89	25.33	20.458			
2,200.00	1,988.04	2,063.47	1,915.22	17.09	12.31	108.24	-651.08	256.37	556.84	529.52	27.32	20.383			
2,300.00	2,067.27	2,155.08	1,994.45	18.46	13.14	109.32	-692.90	275.49	595.66	566.35	29.30	20.328			
2,400.00	2,146.50	2,246.68	2,073.67	19.84	13.97	110.27	-734.73	294.62	634.63	603.35	31.28	20.287			
2,500.00	2,225.73	2,338.29	2,152.90	21.23	14.80	111.11	-776.55	313.74	673.74	640.48	33.26	20.257			
2,600.00	2,304.96	2,429.89	2,232.12	22.62	15.64	111.86	-818.37	332.86	712.96	677.73	35.23	20.235			
2,700.00	2,384.19	2,521.50	2,311.35	24.00	16.47	112.54	-860.20	351.98	752.27	715.07	37.21	20.220			
2,800.00	2,463.42	2,613.10	2,390.58	25.40	17.30	113.14	-902.02	371.10	791.66	752.49	39.17	20.209			
2,900.00	2,542.66	2,704.71	2,469.80	26.79	18.13	113.69	-943.85	390.23	831.13	789.98	41.14	20.202			
3,000.00	2,621.89	2,796.31	2,549.03	28.18	18.97	114.19	-985.67	409.35	870.64	827.54	43.11	20.198			
3,100.00	2,701.12	2,887.92	2,628.25	29.58	19.80	114.65	-1,027.49	428.47	910.21	865.15	45.07	20.196			
3,200.00	2,780.35	2,979.53	2,707.48	30.98	20.64	115.07	-1,069.32	447.59	949.83	902.80	47.03	20.196 SF			
3,300.00	2,859.58	3,071.13	2,786.70	32.38	21.47	115.45	-1,111.14	466.71	989.48	940.49	48.99	20.197			
3,400.00	2,938.81	3,162.74	2,865.93	33.78	22.30	115.81	-1,152.97	485.84	1,029.17	978.22	50.95	20.200			
3,500.00	3,018.04	3,254.34	2,945.15	35.18	23.14	116.14	-1,194.79	504.96	1,068.90	1,015.99	52.91	20.203			
3,600.00	3,097.27	3,345.95	3,024.38	36.58	23.97	116.44	-1,236.61	524.08	1,108.64	1,053.78	54.86	20.207			
3,700.00	3,176.51	3,437.55	3,103.61	37.98	24.81	116.73	-1,278.44	543.20	1,148.42	1,091.60	56.82	20.211			
3,800.00	3,255.74	3,529.16	3,182.83	39.38	25.64	116.99	-1,320.26	562.32	1,188.21	1,129.44	58.78	20.216			
3,900.00	3,334.97	3,620.76	3,262.06	40.78	26.47	117.24	-1,362.09	581.45	1,228.03	1,167.30	60.73	20.221			
4,000.00	3,414.20	3,712.37	3,341.28	42.19	27.31	117.47	-1,403.91	600.57	1,267.86	1,205.18	62.68	20.226			
4,100.00	3,493.43	3,803.97	3,420.51	43.59	28.14	117.69	-1,445.73	619.69	1,307.71	1,243.08	64.64	20.232			
4,200.00	3,572.66	3,895.58	3,499.73	44.99	28.98	117.90	-1,487.56	638.81	1,347.58	1,280.99	66.59	20.237			
4,300.00	3,651.89	3,987.19	3,578.96	46.40	29.81	118.09	-1,529.38	657.93	1,387.46	1,318.92	68.54	20.243			
4,400.00	3,731.12	4,078.79	3,658.18	47.80	30.65	118.28	-1,571.21	677.05	1,427.35	1,356.86	70.49	20.248			
4,500.00	3,810.36	4,170.40	3,737.41	49.20	31.48	118.45	-1,613.03	696.18	1,467.25	1,394.81	72.44	20.254			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-164.38	-47.55	-13.30	49.38						
100.00	100.00	100.00	100.00	0.12	0.12	-164.38	-47.55	-13.30	49.38	49.14	0.24	208.314			
200.00	200.00	200.00	200.00	0.48	0.29	-164.38	-47.55	-13.30	49.38	48.61	0.77	64.122			
300.00	300.00	300.00	300.00	0.84	0.47	-164.38	-47.55	-13.30	49.38	48.07	1.30	37.893			
350.00	350.00	350.00	350.00	1.02	0.55	-164.38	-47.55	-13.30	49.38	47.81	1.57	31.459			
400.00	399.99	399.99	399.99	1.19	0.64	82.05	-47.55	-13.30	49.28	47.45	1.83	26.927			
483.10	482.99	482.79	482.79	1.48	0.79	86.66	-47.57	-13.30	48.91	46.64	2.26	21.628	CC		
500.00	499.85	499.23	499.23	1.54	0.81	88.06	-47.70	-13.34	48.99	46.64	2.35	20.832	ES		
600.00	599.29	596.13	596.05	1.90	0.99	98.40	-51.25	-14.31	53.34	50.39	2.95	18.073	SF		
700.00	698.04	691.75	691.29	2.28	1.19	109.49	-59.18	-17.12	65.59	61.99	3.60	18.212			
800.00	795.85	785.38	784.03	2.70	1.43	118.15	-71.08	-21.90	86.44	82.17	4.27	20.256			
900.00	892.43	876.36	873.43	3.17	1.73	123.83	-86.53	-28.46	115.39	110.43	4.96	23.270			
1,000.00	987.52	964.12	958.83	3.71	2.08	127.27	-105.04	-36.56	151.70	146.00	5.69	26.655			
1,100.00	1,080.87	1,048.19	1,039.68	4.33	2.48	129.23	-126.06	-45.94	194.68	188.22	6.47	30.094			
1,200.00	1,172.22	1,128.23	1,115.64	5.04	2.92	130.22	-149.02	-56.32	243.80	236.51	7.29	33.436			
1,300.00	1,261.31	1,200.00	1,182.81	5.85	3.36	130.46	-172.02	-66.82	298.59	290.44	8.14	36.668			
1,400.00	1,347.90	1,275.22	1,252.14	6.79	3.89	130.38	-198.53	-79.01	358.49	349.42	9.06	39.563			
1,500.00	1,431.76	1,341.94	1,312.62	7.86	4.39	129.82	-224.08	-90.83	423.15	413.16	9.99	42.356			
1,603.26	1,515.23	1,411.85	1,375.10	9.10	4.94	129.05	-252.52	-104.04	494.19	483.17	11.02	44.851			
1,700.00	1,591.88	1,479.97	1,435.88	10.35	5.47	130.43	-280.41	-117.00	562.28	550.23	12.05	46.664			
1,800.00	1,671.11	1,550.38	1,498.71	11.67	6.03	131.55	-309.24	-130.40	632.80	619.66	13.14	48.172			
1,900.00	1,750.34	1,620.79	1,561.54	13.01	6.60	132.45	-338.06	-143.80	703.42	689.17	14.24	49.385			
2,000.00	1,829.57	1,691.20	1,624.36	14.36	7.16	133.19	-366.89	-157.20	774.11	758.74	15.37	50.372			
2,100.00	1,908.81	1,761.61	1,687.19	15.72	7.73	133.80	-395.72	-170.59	844.85	828.34	16.51	51.187			
2,200.00	1,988.04	1,832.02	1,750.02	17.09	8.30	134.32	-424.54	-183.99	915.63	897.98	17.65	51.870			
2,300.00	2,067.27	1,902.44	1,812.85	18.46	8.87	134.76	-453.37	-197.39	986.45	967.64	18.81	52.449			
2,400.00	2,146.50	1,972.85	1,875.67	19.84	9.44	135.15	-482.20	-210.79	1,057.29	1,037.32	19.97	52.943			
2,500.00	2,225.73	2,043.26	1,938.50	21.23	10.01	135.49	-511.03	-224.18	1,128.15	1,107.01	21.14	53.371			
2,600.00	2,304.96	2,113.67	2,001.33	22.62	10.58	135.78	-539.85	-237.58	1,199.03	1,176.72	22.31	53.743			
2,700.00	2,384.19	2,184.08	2,064.16	24.00	11.15	136.05	-568.68	-250.98	1,269.93	1,246.44	23.49	54.070			
2,800.00	2,463.42	2,254.49	2,126.98	25.40	11.73	136.28	-597.51	-264.38	1,340.83	1,316.17	24.67	54.358			
2,900.00	2,542.66	2,324.91	2,189.81	26.79	12.30	136.50	-626.33	-277.77	1,411.75	1,385.90	25.85	54.615			
3,000.00	2,621.89	2,395.32	2,252.64	28.18	12.87	136.69	-655.16	-291.17	1,482.68	1,455.64	27.03	54.845			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design H04 596 Pad - UWF15A-03 H04 596 (was 10D-03) - DD - PLAN #4													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis			Distance			Total		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor			
0.00	0.00	0.00	0.00	0.00	0.00	102.14	-2.02	9.39	9.60						
100.00	100.00	100.00	100.00	0.12	0.12	102.14	-2.02	9.39	9.60	9.36	0.24	39.976			
200.00	200.00	200.00	200.00	0.48	0.48	102.14	-2.02	9.39	9.60	8.64	0.96	10.032			
216.67	216.67	216.67	216.67	0.54	0.54	102.14	-2.02	9.39	9.60	8.52	1.08	8.918 CC			
300.00	300.00	300.00	300.00	0.84	0.84	102.14	-2.02	9.39	9.60	7.93	1.67	5.735 ES			
350.00	350.00	349.74	349.73	1.02	1.01	102.01	-2.13	10.02	10.25	8.17	2.08	4.922			
400.00	399.99	399.44	399.39	1.19	1.19	-13.34	-2.47	11.94	11.57	9.02	2.55	4.534			
500.00	499.85	498.72	498.36	1.54	1.54	-18.66	-3.81	19.56	14.34	10.77	3.57	4.021			
600.00	599.29	597.89	596.69	1.90	1.91	-24.46	-6.61	32.05	17.36	12.78	4.58	3.791			
700.00	698.04	696.95	694.13	2.28	2.31	-28.73	-11.44	49.18	20.50	14.93	5.57	3.680			
800.00	795.85	795.90	790.41	2.70	2.75	-32.02	-18.27	70.89	23.71	17.15	6.55	3.618			
900.00	892.43	894.74	885.29	3.17	3.25	-34.66	-27.10	97.11	26.96	19.42	7.54	3.576			
1,000.00	987.52	993.47	978.52	3.71	3.82	-36.86	-37.88	127.75	30.23	21.68	8.56	3.533			
1,100.00	1,080.87	1,092.11	1,069.85	4.33	4.47	-38.73	-50.58	162.72	33.52	23.88	9.63	3.479			
1,200.00	1,172.22	1,190.64	1,159.07	5.04	5.22	-40.36	-65.17	201.91	36.79	26.00	10.79	3.409			
1,300.00	1,261.31	1,289.09	1,245.93	5.85	6.08	-41.82	-81.59	245.21	40.05	27.98	12.07	3.319			
1,400.00	1,347.90	1,387.45	1,330.22	6.79	7.06	-43.13	-99.81	292.49	43.28	29.80	13.49	3.209			
1,500.00	1,431.76	1,486.60	1,412.82	7.86	8.15	-44.94	-119.72	343.57	45.99	30.97	15.02	3.062			
1,603.26	1,515.23	1,589.73	1,498.40	9.10	9.34	-51.11	-140.63	397.18	45.63	28.58	17.05	2.676			
1,700.00	1,591.88	1,686.22	1,578.48	10.35	10.48	-59.72	-160.21	447.34	44.40	24.83	19.57	2.269			
1,764.39	1,642.90	1,750.44	1,631.78	11.20	11.24	-65.63	-173.23	480.73	44.17	22.73	21.44	2.060			
1,800.00	1,671.11	1,785.97	1,661.25	11.67	11.66	-68.91	-180.44	499.19	44.24	21.73	22.51	1.966			
1,900.00	1,750.34	1,885.71	1,744.03	13.01	12.86	-77.92	-200.67	551.04	45.21	19.69	25.51	1.772			
2,000.00	1,829.57	1,985.46	1,826.80	14.36	14.07	-86.37	-220.91	602.89	47.24	18.87	28.37	1.665			
2,100.00	1,908.81	2,085.21	1,909.58	15.72	15.28	-93.97	-241.14	654.74	50.21	19.26	30.95	1.622			
2,200.00	1,988.04	2,184.95	1,992.35	17.09	16.49	-100.62	-261.37	706.59	53.96	20.73	33.23	1.624			
2,300.00	2,067.27	2,284.70	2,075.13	18.46	17.72	-106.35	-281.60	758.44	58.34	23.09	35.25	1.655			
2,400.00	2,146.50	2,384.45	2,157.90	19.84	18.94	-111.24	-301.84	810.29	63.22	26.15	37.06	1.706			
2,500.00	2,225.73	2,484.19	2,240.68	21.23	20.16	-115.40	-322.07	862.14	68.49	29.76	38.73	1.768			
2,600.00	2,304.96	2,583.94	2,323.45	22.62	21.39	-118.95	-342.30	913.99	74.07	33.78	40.29	1.838			
2,700.00	2,384.19	2,683.69	2,406.23	24.00	22.62	-122.00	-362.53	965.84	79.89	38.11	41.78	1.912			
2,800.00	2,463.42	2,783.43	2,489.00	25.40	23.85	-124.63	-382.77	1,017.69	85.91	42.69	43.23	1.988			
2,900.00	2,542.66	2,883.18	2,571.78	26.79	25.09	-126.91	-403.00	1,069.54	92.09	47.45	44.64	2.063			
3,000.00	2,621.89	2,982.93	2,654.55	28.18	26.32	-128.90	-423.23	1,121.39	98.39	52.35	46.04	2.137			
3,100.00	2,701.12	3,082.67	2,737.32	29.58	27.56	-130.65	-443.46	1,173.23	104.80	57.37	47.43	2.210			
3,200.00	2,780.35	3,182.42	2,820.10	30.98	28.79	-132.19	-463.70	1,225.08	111.29	62.49	48.81	2.280			
3,300.00	2,859.58	3,282.16	2,902.87	32.38	30.03	-133.57	-483.93	1,276.93	117.86	67.67	50.19	2.348			
3,400.00	2,938.81	3,381.91	2,985.65	33.78	31.26	-134.80	-504.16	1,328.78	124.48	72.92	51.57	2.414			
3,500.00	3,018.04	3,481.66	3,068.42	35.18	32.50	-135.90	-524.39	1,380.63	131.16	78.21	52.95	2.477			
3,600.00	3,097.27	3,581.40	3,151.20	36.58	33.74	-136.90	-544.63	1,432.48	137.88	83.55	54.33	2.538			
3,700.00	3,176.51	3,681.15	3,233.97	37.98	34.98	-137.81	-564.86	1,484.33	144.64	88.92	55.72	2.596			
3,800.00	3,255.74	3,780.90	3,316.75	39.38	36.22	-138.63	-585.09	1,536.18	151.43	94.32	57.12	2.651			
3,900.00	3,334.97	3,880.64	3,399.52	40.78	37.46	-139.38	-605.33	1,588.03	158.25	99.74	58.51	2.705			
4,000.00	3,414.20	3,980.39	3,482.30	42.19	38.69	-140.08	-625.56	1,639.88	165.10	105.18	59.91	2.756			
4,100.00	3,493.43	4,080.14	3,565.07	43.59	39.93	-140.71	-645.79	1,691.73	171.96	110.64	61.32	2.804			
4,200.00	3,572.66	4,179.88	3,647.84	44.99	41.17	-141.30	-666.02	1,743.58	178.85	116.12	62.73	2.851			
4,300.00	3,651.89	4,279.63	3,730.62	46.40	42.41	-141.84	-686.26	1,795.43	185.75	121.61	64.14	2.896			
4,400.00	3,731.12	4,379.38	3,813.39	47.80	43.66	-142.35	-706.49	1,847.28	192.67	127.12	65.56	2.939			
4,500.00	3,810.36	4,479.12	3,896.17	49.20	44.90	-142.81	-726.72	1,899.13	199.61	132.63	66.98	2.980			
4,600.00	3,889.59	4,578.87	3,978.94	50.61	46.14	-143.25	-746.95	1,950.98	206.55	138.15	68.40	3.020			
4,700.00	3,968.82	4,678.62	4,061.72	52.01	47.38	-143.66	-767.19	2,002.83	213.51	143.68	69.83	3.058			
4,800.00	4,048.05	4,778.36	4,144.49	53.42	48.62	-144.04	-787.42	2,054.68	220.47	149.22	71.25	3.094			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error:		0.00 usft
Reference													Warning		
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
4,900.00	4,127.28	4,878.11	4,227.27	54.82	49.86	-144.40	-807.65	2,106.53	227.45	154.76	72.69	3.129			
5,000.00	4,206.51	4,977.86	4,310.04	56.23	51.10	-144.74	-827.88	2,158.38	234.43	160.31	74.12	3.163			
5,100.00	4,285.74	5,077.60	4,392.82	57.64	52.34	-145.06	-848.12	2,210.23	241.43	165.87	75.56	3.195			
5,200.00	4,364.97	5,177.35	4,475.59	59.04	53.59	-145.36	-868.35	2,262.08	248.42	171.43	77.00	3.226			
5,300.00	4,444.21	5,277.10	4,558.37	60.45	54.83	-145.65	-888.58	2,313.92	255.43	176.99	78.44	3.256			
5,400.00	4,523.44	5,376.84	4,641.14	61.85	56.07	-145.92	-908.81	2,365.77	262.44	182.56	79.88	3.285			
5,500.00	4,602.67	5,476.59	4,723.91	63.26	57.31	-146.17	-929.05	2,417.62	269.46	188.13	81.33	3.313			
5,600.00	4,681.90	5,576.33	4,806.69	64.67	58.55	-146.41	-949.28	2,469.47	276.48	193.71	82.77	3.340			
5,700.00	4,761.13	5,676.08	4,889.46	66.07	59.80	-146.64	-969.51	2,521.32	283.51	199.28	84.22	3.366			
5,800.00	4,840.36	5,775.83	4,972.24	67.48	61.04	-146.86	-989.75	2,573.17	290.54	204.86	85.67	3.391			
5,900.00	4,919.59	5,875.57	5,055.01	68.89	62.28	-147.07	-1,009.98	2,625.02	297.57	210.45	87.13	3.415			
6,000.00	4,998.82	5,975.32	5,137.79	70.29	63.52	-147.27	-1,030.21	2,676.87	304.61	216.03	88.58	3.439			
6,100.00	5,078.06	6,075.07	5,220.56	71.70	64.76	-147.46	-1,050.44	2,728.72	311.65	221.62	90.03	3.461			
6,200.00	5,157.29	6,174.81	5,303.34	73.11	66.01	-147.64	-1,070.68	2,780.57	318.70	227.21	91.49	3.483			
6,300.00	5,236.52	6,274.56	5,386.11	74.51	67.25	-147.82	-1,090.91	2,832.42	325.75	232.80	92.95	3.505			
6,400.00	5,315.75	6,374.31	5,468.89	75.92	68.49	-147.98	-1,111.14	2,884.27	332.80	238.39	94.41	3.525			
6,500.00	5,394.98	6,474.05	5,551.66	77.33	69.74	-148.14	-1,131.37	2,936.12	339.85	243.98	95.87	3.545			
6,600.00	5,474.21	6,573.80	5,634.44	78.73	70.98	-148.30	-1,151.61	2,987.97	346.91	249.58	97.33	3.564			
6,700.00	5,553.44	6,673.55	5,717.21	80.14	72.22	-148.44	-1,171.84	3,039.82	353.97	255.18	98.79	3.583			
6,800.00	5,632.67	6,773.29	5,799.98	81.55	73.46	-148.58	-1,192.07	3,091.67	361.03	260.77	100.26	3.601			
6,900.00	5,711.90	6,873.04	5,882.76	82.96	74.71	-148.72	-1,212.30	3,143.52	368.09	266.37	101.72	3.619			
7,000.00	5,791.14	6,972.79	5,965.53	84.36	75.95	-148.85	-1,232.54	3,195.37	375.16	271.97	103.18	3.636			
7,100.00	5,870.37	7,072.53	6,048.31	85.77	77.19	-148.98	-1,252.77	3,247.22	382.23	277.57	104.65	3.652			
7,200.00	5,949.60	7,172.28	6,131.08	87.18	78.44	-149.10	-1,273.00	3,299.07	389.29	283.18	106.12	3.669			
7,300.00	6,028.83	7,272.03	6,213.86	88.59	79.68	-149.22	-1,293.23	3,350.92	396.36	288.78	107.59	3.684			
7,400.00	6,108.06	7,371.77	6,296.63	89.99	80.92	-149.33	-1,313.47	3,402.77	403.44	294.38	109.05	3.699			
7,500.00	6,187.29	7,471.52	6,379.41	91.40	82.17	-149.44	-1,333.70	3,454.61	410.51	299.99	110.52	3.714			
7,600.00	6,266.52	7,571.26	6,462.18	92.81	83.41	-149.54	-1,353.93	3,506.46	417.59	305.59	111.99	3.729			
7,611.65	6,275.75	7,582.88	6,471.82	92.97	83.55	-149.55	-1,356.29	3,512.50	418.41	306.25	112.16	3.730			
7,700.00	6,346.98	7,671.11	6,545.04	94.16	84.65	-149.57	-1,374.19	3,558.37	422.90	309.22	113.68	3.720			
7,800.00	6,430.41	7,771.06	6,627.98	95.38	85.90	-149.19	-1,394.46	3,610.32	423.75	307.80	115.95	3.655			
7,900.00	6,516.61	7,870.82	6,710.77	96.46	87.14	-148.37	-1,414.69	3,662.18	420.15	301.32	118.83	3.536			
8,000.00	6,605.34	7,970.14	6,793.19	97.42	88.38	-147.09	-1,434.84	3,713.80	412.21	289.82	122.40	3.368			
8,100.00	6,696.36	8,068.15	6,874.52	98.24	89.60	-145.28	-1,454.72	3,764.75	400.16	273.38	126.78	3.156			
8,200.00	6,789.43	8,152.53	6,945.64	98.95	90.59	-143.35	-1,471.22	3,807.04	386.10	254.60	131.50	2.936			
8,300.00	6,884.28	8,237.53	7,019.25	99.54	91.50	-141.23	-1,486.67	3,846.63	371.76	235.32	136.44	2.725			
8,400.00	6,980.66	8,323.20	7,095.27	100.02	92.33	-138.88	-1,501.03	3,883.41	357.25	215.62	141.63	2.522			
8,500.00	7,078.29	8,409.58	7,173.63	100.41	93.07	-136.28	-1,514.23	3,917.25	342.71	195.63	147.08	2.330			
8,600.00	7,176.93	8,500.00	7,257.33	100.71	93.75	-133.30	-1,526.65	3,949.09	328.32	175.42	152.90	2.147			
8,700.00	7,276.28	8,584.63	7,337.06	100.93	94.29	-130.21	-1,536.97	3,975.52	314.20	155.40	158.80	1.979			
8,800.00	7,376.09	8,673.40	7,421.95	101.09	94.78	-126.67	-1,546.39	3,999.68	300.61	135.61	165.00	1.822			
8,864.91	7,440.99	8,731.50	7,478.12	101.16	95.06	-9.84	-1,551.78	4,013.49	292.18	123.08	169.10	1.728			
8,893.09	7,469.17	8,756.88	7,502.80	101.19	95.17	115.47	-1,553.94	4,019.02	288.78	117.92	170.86	1.690			
8,900.00	7,476.08	8,763.13	7,508.88	101.19	95.19	115.71	-1,554.45	4,020.33	288.00	116.72	171.28	1.681			
9,000.00	7,576.08	8,854.53	7,598.41	101.27	95.54	119.08	-1,561.13	4,037.44	278.57	101.90	176.66	1.577			
9,100.00	7,676.07	8,947.56	7,690.33	101.36	95.82	121.86	-1,566.32	4,050.74	272.23	91.53	180.70	1.507			
9,200.00	7,776.07	9,041.81	7,784.06	101.44	96.03	123.88	-1,569.91	4,059.94	268.43	85.01	183.42	1.463	Level 3		
9,300.00	7,876.07	9,136.84	7,878.94	101.52	96.19	125.01	-1,571.82	4,064.85	266.71	81.80	184.91	1.442	Level 3		
9,344.91	7,920.98	9,179.66	7,921.74	101.56	96.25	125.22	-1,572.12	4,065.62	266.53	81.34	185.19	1.439	Level 3		
9,400.00	7,976.07	9,234.87	7,976.95	101.61	96.30	125.25	-1,572.22	4,065.56	266.60	81.25	185.34	1.438	Level 3		
9,500.00	8,076.07	9,334.87	8,076.95	101.69	96.39	125.23	-1,572.54	4,065.05	266.55	81.04	185.50	1.437	Level 3		
9,600.00	8,176.07	9,434.87	8,176.95	101.78	96.48	125.21	-1,572.86	4,064.54	266.50	80.84	185.67	1.435	Level 3		

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HDGM													Offset Well Error:		0.00 usft
Reference				Offset				Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor			
9,700.00	8,276.07	9,534.87	8,276.94	101.87	96.57	125.18	-1,573.18	4,064.02	266.46	80.62	185.83	1.434 Level 3			
9,800.00	8,376.07	9,634.87	8,376.94	101.96	96.67	125.16	-1,573.50	4,063.51	266.41	80.41	186.00	1.432 Level 3			
9,900.00	8,476.06	9,734.87	8,476.94	102.05	96.76	125.14	-1,573.82	4,063.00	266.37	80.19	186.17	1.431 Level 3			
10,000.00	8,576.06	9,834.87	8,576.94	102.14	96.86	125.11	-1,574.14	4,062.48	266.32	79.97	186.35	1.429 Level 3			
10,100.00	8,676.06	9,934.87	8,676.94	102.24	96.96	125.09	-1,574.47	4,061.97	266.27	79.75	186.52	1.428 Level 3			
10,200.00	8,776.06	10,034.87	8,776.94	102.33	97.06	125.07	-1,574.79	4,061.46	266.23	79.53	186.70	1.426 Level 3			
10,300.00	8,876.06	10,134.87	8,876.93	102.43	97.16	125.05	-1,575.11	4,060.94	266.18	79.30	186.88	1.424 Level 3			
10,400.00	8,976.06	10,234.87	8,976.93	102.52	97.26	125.02	-1,575.43	4,060.43	266.14	79.07	187.07	1.423 Level 3			
10,500.00	9,076.06	10,334.87	9,076.93	102.62	97.36	125.00	-1,575.75	4,059.92	266.09	78.84	187.25	1.421 Level 3			
10,600.00	9,176.06	10,434.87	9,176.93	102.72	97.46	124.98	-1,576.07	4,059.40	266.05	78.60	187.44	1.419 Level 3			
10,700.00	9,276.06	10,534.87	9,276.93	102.82	97.57	124.95	-1,576.39	4,058.89	266.00	78.37	187.63	1.418 Level 3			
10,800.00	9,376.05	10,634.87	9,376.92	102.92	97.67	124.93	-1,576.71	4,058.38	265.96	78.13	187.83	1.416 Level 3			
10,900.00	9,476.05	10,734.87	9,476.92	103.03	97.78	124.91	-1,577.03	4,057.86	265.91	77.89	188.02	1.414 Level 3			
11,000.00	9,576.05	10,834.87	9,576.92	103.13	97.89	124.89	-1,577.35	4,057.35	265.86	77.64	188.22	1.412 Level 3			
11,100.00	9,676.05	10,934.87	9,676.92	103.24	98.00	124.86	-1,577.68	4,056.84	265.82	77.39	188.42	1.411 Level 3			
11,200.00	9,776.05	11,034.87	9,776.92	103.34	98.11	124.84	-1,578.00	4,056.32	265.77	77.15	188.63	1.409 Level 3			
11,300.00	9,876.05	11,134.87	9,876.91	103.45	98.22	124.82	-1,578.32	4,055.81	265.73	76.89	188.83	1.407 Level 3			
11,400.00	9,976.05	11,234.87	9,976.91	103.56	98.33	124.79	-1,578.64	4,055.30	265.68	76.64	189.04	1.405 Level 3			
11,500.00	10,076.05	11,334.87	10,076.91	103.67	98.45	124.77	-1,578.96	4,054.78	265.64	76.38	189.25	1.404 Level 3			
11,600.00	10,176.04	11,434.87	10,176.91	103.78	98.56	124.75	-1,579.28	4,054.27	265.59	76.13	189.47	1.402 Level 3			
11,700.00	10,276.04	11,534.87	10,276.91	103.89	98.68	124.73	-1,579.60	4,053.76	265.55	75.86	189.68	1.400 Level 3			
11,800.00	10,376.04	11,634.87	10,376.90	104.00	98.80	124.70	-1,579.92	4,053.24	265.50	75.60	189.90	1.398 Level 3			
11,900.00	10,476.04	11,734.87	10,476.90	104.12	98.91	124.68	-1,580.24	4,052.73	265.46	75.33	190.12	1.396 Level 3			
12,000.00	10,576.04	11,834.87	10,576.90	104.23	99.03	124.66	-1,580.56	4,052.21	265.41	75.07	190.35	1.394 Level 3			
12,100.00	10,676.04	11,934.87	10,676.90	104.35	99.16	124.63	-1,580.88	4,051.70	265.37	74.80	190.57	1.392 Level 3			
12,200.00	10,776.04	12,034.87	10,776.90	104.47	99.28	124.61	-1,581.21	4,051.19	265.32	74.52	190.80	1.391 Level 3			
12,300.00	10,876.04	12,134.87	10,876.90	104.58	99.40	124.59	-1,581.53	4,050.67	265.28	74.25	191.03	1.389 Level 3			
12,400.00	10,976.03	12,234.87	10,976.89	104.70	99.53	124.56	-1,581.85	4,050.16	265.23	73.97	191.26	1.387 Level 3			
12,489.94	11,065.98	12,324.81	11,066.84	104.81	99.64	124.54	-1,582.14	4,049.70	265.19	73.72	191.48	1.385 Level 3			
12,500.00	11,076.03	12,334.87	11,076.89	104.82	99.65	124.54	-1,582.17	4,049.65	265.19	73.69	191.50	1.385 Level 3			
12,600.00	11,176.03	12,434.87	11,176.89	104.95	99.78	124.52	-1,582.49	4,049.13	265.14	73.41	191.74	1.383 Level 3			
12,700.00	11,276.03	12,534.87	11,276.89	105.07	99.91	124.50	-1,582.81	4,048.62	265.10	73.12	191.98	1.381 Level 3			
12,800.00	11,376.03	12,634.87	11,376.89	105.19	100.04	124.47	-1,583.13	4,048.11	265.06	72.84	192.22	1.379 Level 3			
12,851.46	11,427.49	12,686.32	11,428.34	105.26	100.10	124.46	-1,583.30	4,047.84	265.03	72.69	192.35	1.378 Level 3, SF			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-163.10	-28.32	-8.60	29.60						
100.00	100.00	100.00	100.00	0.12	0.12	-163.10	-28.32	-8.60	29.60	29.36	0.24	124.884			
200.00	200.00	200.00	200.00	0.48	0.29	-163.10	-28.32	-8.60	29.60	28.83	0.77	38.441			
300.00	300.00	300.00	300.00	0.84	0.47	-163.10	-28.32	-8.60	29.60	28.30	1.30	22.717			
350.00	350.00	350.00	350.00	1.02	0.55	-163.10	-28.32	-8.60	29.60	28.03	1.57	18.859			
400.00	399.99	399.99	399.99	1.19	0.64	83.83	-28.32	-8.60	29.52	27.69	1.83	16.131			
470.95	470.87	470.87	470.87	1.44	0.76	90.00	-28.32	-8.60	29.35	27.15	2.20	13.353	CC		
500.00	499.85	499.85	499.85	1.54	0.81	94.00	-28.32	-8.60	29.42	27.08	2.35	12.528	ES		
600.00	599.29	597.71	597.67	1.90	0.99	110.86	-30.62	-9.58	34.24	31.31	2.93	11.693	SF		
700.00	698.04	694.44	694.10	2.28	1.18	124.27	-37.43	-12.47	48.32	44.77	3.55	13.611			
800.00	795.85	789.00	787.90	2.70	1.42	131.68	-48.27	-17.41	71.10	66.90	4.20	16.930			
900.00	892.43	880.70	878.19	3.17	1.70	135.42	-62.54	-24.52	101.80	96.91	4.88	20.844			
1,000.00	987.52	968.93	964.25	3.71	2.04	137.18	-79.74	-33.52	139.70	134.09	5.61	24.912			
1,100.00	1,080.87	1,053.17	1,045.51	4.33	2.43	137.86	-99.30	-44.05	184.28	177.91	6.37	28.928			
1,200.00	1,172.22	1,133.03	1,121.56	5.04	2.86	137.91	-120.64	-55.76	235.06	227.89	7.17	32.799			
1,300.00	1,261.31	1,208.23	1,192.19	5.85	3.31	137.53	-143.18	-68.32	291.58	283.60	7.99	36.506			
1,400.00	1,347.90	1,281.64	1,260.19	6.79	3.78	136.91	-167.29	-81.90	353.27	344.43	8.84	39.958			
1,500.00	1,431.76	1,357.22	1,329.97	7.86	4.29	136.42	-192.57	-96.16	418.42	408.66	9.75	42.905			
1,603.26	1,515.23	1,432.23	1,399.22	9.10	4.79	135.96	-217.65	-110.31	488.80	478.06	10.73	45.552			
1,700.00	1,591.88	1,500.99	1,462.72	10.35	5.25	137.30	-240.64	-123.28	556.27	544.60	11.67	47.676			
1,800.00	1,671.11	1,572.07	1,528.35	11.67	5.74	138.39	-264.41	-136.69	626.15	613.50	12.65	49.494			
1,900.00	1,750.34	1,643.14	1,593.98	13.01	6.23	139.26	-288.18	-150.10	696.12	682.47	13.65	50.997			
2,000.00	1,829.57	1,714.22	1,659.61	14.36	6.72	139.97	-311.95	-163.50	766.16	751.50	14.66	52.254			
2,100.00	1,908.81	1,785.30	1,725.24	15.72	7.21	140.56	-335.72	-176.91	836.25	820.57	15.68	53.316			
2,200.00	1,988.04	1,856.38	1,790.87	17.09	7.70	141.06	-359.49	-190.32	906.38	889.66	16.72	54.223			
2,300.00	2,067.27	1,927.46	1,856.50	18.46	8.19	141.49	-383.26	-203.73	976.54	958.79	17.75	55.007			
2,400.00	2,146.50	1,998.54	1,922.13	19.84	8.68	141.87	-407.03	-217.14	1,046.72	1,027.93	18.80	55.688			
2,500.00	2,225.73	2,069.61	1,987.76	21.23	9.18	142.19	-430.80	-230.54	1,116.93	1,097.08	19.84	56.285			
2,600.00	2,304.96	2,140.69	2,053.39	22.62	9.67	142.48	-454.57	-243.95	1,187.15	1,166.25	20.90	56.813			
2,700.00	2,384.19	2,211.77	2,119.02	24.00	10.17	142.74	-478.34	-257.36	1,257.38	1,235.43	21.95	57.282			
2,800.00	2,463.42	2,282.85	2,184.65	25.40	10.67	142.97	-502.11	-270.77	1,327.63	1,304.62	23.01	57.701			
2,900.00	2,542.66	2,353.93	2,250.28	26.79	11.16	143.17	-525.88	-284.18	1,397.88	1,373.81	24.07	58.078			
3,000.00	2,621.89	2,425.01	2,315.91	28.18	11.66	143.36	-549.65	-297.59	1,468.14	1,443.01	25.13	58.419			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-164.10	-38.44	-10.95	39.97						
100.00	100.00	100.00	100.00	0.12	0.12	-164.10	-38.44	-10.95	39.97	39.73	0.24	168.614			
200.00	200.00	200.00	200.00	0.48	0.29	-164.10	-38.44	-10.95	39.97	39.20	0.77	51.902			
203.67	203.67	203.67	203.67	0.49	0.30	-164.10	-38.44	-10.95	39.97	39.18	0.79	50.615 CC			
300.00	300.00	299.25	299.24	0.84	0.47	-163.47	-38.75	-11.50	40.43	39.11	1.32	30.641 ES			
350.00	350.00	348.43	348.39	1.02	0.56	-161.68	-39.70	-13.15	41.86	40.22	1.63	25.665			
400.00	399.99	397.45	397.30	1.19	0.66	87.46	-41.28	-15.88	44.28	42.32	1.95	22.662			
500.00	499.85	494.37	493.70	1.54	0.89	99.38	-46.24	-24.47	53.37	50.70	2.67	20.008 SF			
600.00	599.29	588.83	587.06	1.90	1.18	112.24	-53.43	-36.91	70.80	67.40	3.41	20.781			
700.00	698.04	679.80	676.18	2.28	1.54	122.08	-62.52	-52.66	97.99	93.89	4.10	23.886			
800.00	795.85	766.40	760.13	2.70	1.95	128.62	-73.13	-71.04	134.56	129.81	4.76	28.293			
900.00	892.43	847.96	838.23	3.17	2.40	132.76	-84.86	-91.36	179.62	174.23	5.39	33.349			
1,000.00	987.52	923.98	910.08	3.71	2.87	135.30	-97.28	-112.88	232.28	226.28	6.00	38.702			
1,100.00	1,080.87	1,000.00	980.87	4.33	3.39	136.98	-111.13	-136.85	291.82	285.26	6.55	44.536			
1,200.00	1,172.22	1,071.25	1,046.54	5.04	3.89	137.79	-125.59	-160.39	356.41	349.26	7.15	49.860			
1,300.00	1,261.31	1,154.72	1,123.63	5.85	4.46	138.27	-145.01	-185.81	422.82	415.06	7.77	54.425			
1,400.00	1,347.90	1,239.30	1,201.82	6.79	5.03	138.23	-167.39	-209.01	490.54	482.02	8.52	57.556			
1,500.00	1,431.76	1,325.18	1,281.12	7.86	5.61	137.84	-192.87	-229.91	559.39	549.97	9.42	59.392			
1,603.26	1,515.23	1,415.45	1,364.21	9.10	6.21	137.15	-222.57	-248.92	631.52	621.02	10.50	60.145			
1,700.00	1,591.88	1,502.15	1,443.58	10.35	6.78	138.05	-253.85	-264.31	698.63	686.99	11.64	60.012			
1,800.00	1,671.11	1,574.83	1,509.93	11.67	7.27	138.54	-281.08	-276.14	767.16	754.44	12.71	60.342			
1,900.00	1,750.34	1,647.52	1,576.28	13.01	7.77	138.94	-308.31	-287.97	835.71	821.90	13.80	60.537			
2,000.00	1,829.57	1,720.21	1,642.63	14.36	8.27	139.29	-335.53	-299.80	904.27	889.36	14.91	60.644			
2,100.00	1,908.81	1,792.90	1,708.98	15.72	8.78	139.59	-362.76	-311.64	972.86	956.83	16.03	60.691			
2,200.00	1,988.04	1,865.59	1,775.33	17.09	9.29	139.85	-389.99	-323.47	1,041.45	1,024.30	17.16	60.698			
2,300.00	2,067.27	1,938.28	1,841.68	18.46	9.81	140.07	-417.21	-335.30	1,110.06	1,091.77	18.29	60.680			
2,400.00	2,146.50	2,010.97	1,908.03	19.84	10.33	140.27	-444.44	-347.13	1,178.67	1,159.24	19.44	60.646			
2,500.00	2,225.73	2,083.66	1,974.38	21.23	10.84	140.45	-471.67	-358.97	1,247.29	1,226.71	20.58	60.601			
2,600.00	2,304.96	2,156.35	2,040.73	22.62	11.37	140.61	-498.90	-370.80	1,315.92	1,294.19	21.73	60.549			
2,700.00	2,384.19	2,229.04	2,107.08	24.00	11.89	140.76	-526.12	-382.63	1,384.55	1,361.66	22.89	60.493			
2,800.00	2,463.42	2,301.72	2,173.43	25.40	12.41	140.89	-553.35	-394.46	1,453.19	1,429.14	24.05	60.435			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-164.10	-57.68	-16.43	59.98						
100.00	100.00	100.00	100.00	0.12	0.12	-164.10	-57.68	-16.43	59.98	59.74	0.24	253.039			
200.00	200.00	200.00	200.00	0.48	0.29	-164.10	-57.68	-16.43	59.98	59.21	0.77	77.889			
216.67	216.67	216.67	216.67	0.54	0.32	-164.10	-57.68	-16.43	59.98	59.12	0.86	69.833 CC			
300.00	300.00	300.00	300.00	0.84	0.47	-164.10	-57.68	-16.43	59.98	58.67	1.30	46.028 ES			
350.00	350.00	348.55	348.54	1.02	0.55	-163.91	-58.19	-16.78	60.58	58.99	1.59	38.073			
400.00	399.99	397.02	396.98	1.19	0.64	82.83	-59.70	-17.84	62.30	60.40	1.90	32.734			
500.00	499.85	493.32	492.99	1.54	0.85	88.64	-65.69	-22.03	69.28	66.71	2.57	26.928			
600.00	599.29	588.01	586.92	1.90	1.10	96.96	-75.44	-28.86	82.38	79.11	3.27	25.175 SF			
700.00	698.04	680.31	677.80	2.28	1.41	105.08	-88.60	-38.07	103.03	99.07	3.96	25.990			
800.00	795.85	769.49	764.77	2.70	1.78	111.60	-104.72	-49.36	131.70	127.05	4.65	28.342			
900.00	892.43	854.96	847.19	3.17	2.20	116.34	-123.27	-62.35	168.11	162.77	5.34	31.492			
1,000.00	987.52	936.26	924.56	3.71	2.66	119.59	-143.70	-76.66	211.71	205.66	6.05	35.000			
1,100.00	1,080.87	1,016.12	999.51	4.33	3.15	121.74	-166.50	-92.12	261.57	254.80	6.77	38.635			
1,200.00	1,172.22	1,094.93	1,072.52	5.04	3.69	122.88	-192.07	-107.14	315.91	308.36	7.55	41.817			
1,300.00	1,261.31	1,171.06	1,142.05	5.85	4.26	123.26	-219.66	-121.27	374.16	365.72	8.43	44.359			
1,400.00	1,347.90	1,244.44	1,208.03	6.79	4.84	123.09	-248.90	-134.49	435.96	426.57	9.39	46.406			
1,500.00	1,431.76	1,316.65	1,271.94	7.86	5.43	122.57	-280.03	-147.14	500.99	490.55	10.43	48.017			
1,603.26	1,515.23	1,391.59	1,338.04	9.10	6.06	122.04	-312.86	-160.19	570.79	559.19	11.60	49.222			
1,700.00	1,591.88	1,460.48	1,398.79	10.35	6.63	123.68	-343.04	-172.19	637.51	624.78	12.73	50.086			
1,800.00	1,671.11	1,531.69	1,461.60	11.67	7.22	125.06	-374.24	-184.58	706.71	692.79	13.92	50.784			
1,900.00	1,750.34	1,602.90	1,524.40	13.01	7.82	126.19	-405.43	-196.98	776.10	760.97	15.12	51.324			
2,000.00	1,829.57	1,674.11	1,587.20	14.36	8.42	127.15	-436.63	-209.38	845.62	829.28	16.34	51.751			
2,100.00	1,908.81	1,745.32	1,650.00	15.72	9.02	127.96	-467.83	-221.77	915.24	897.67	17.57	52.096			
2,200.00	1,988.04	1,816.53	1,712.80	17.09	9.62	128.66	-499.02	-234.17	984.95	966.15	18.80	52.380			
2,300.00	2,067.27	1,887.74	1,775.60	18.46	10.22	129.27	-530.22	-246.57	1,054.72	1,034.68	20.05	52.617			
2,400.00	2,146.50	1,958.95	1,838.40	19.84	10.82	129.80	-561.41	-258.96	1,124.55	1,103.26	21.29	52.817			
2,500.00	2,225.73	2,030.16	1,901.20	21.23	11.43	130.27	-592.61	-271.36	1,194.42	1,171.88	22.54	52.988			
2,600.00	2,304.96	2,101.38	1,964.01	22.62	12.03	130.69	-623.81	-283.76	1,264.33	1,240.54	23.79	53.136			
2,700.00	2,384.19	2,172.59	2,026.81	24.00	12.63	131.07	-655.00	-296.16	1,334.28	1,309.23	25.05	53.265			
2,800.00	2,463.42	2,243.80	2,089.61	25.40	13.24	131.41	-686.20	-308.55	1,404.24	1,377.94	26.31	53.378			
2,900.00	2,542.66	2,315.01	2,152.41	26.79	13.84	131.71	-717.40	-320.95	1,474.23	1,446.67	27.57	53.479			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-164.30	-66.77	-18.77	69.36						
100.00	100.00	100.00	100.00	0.12	0.12	-164.30	-66.77	-18.77	69.36	69.12	0.24	292.629			
104.46	104.46	104.46	104.46	0.14	0.12	-164.30	-66.77	-18.77	69.36	69.10	0.26	265.943	CC		
200.00	200.00	198.71	198.71	0.48	0.29	-164.16	-67.07	-19.03	69.73	68.93	0.80	87.377	ES		
300.00	300.00	295.29	295.17	0.84	0.48	-162.77	-70.44	-21.85	73.91	72.42	1.49	49.563			
350.00	350.00	343.35	343.06	1.02	0.59	-161.62	-73.51	-24.43	77.77	75.92	1.85	41.985			
400.00	399.99	391.15	390.58	1.19	0.71	85.66	-77.47	-27.75	82.78	80.57	2.21	37.482			
500.00	499.85	485.50	483.93	1.54	1.01	91.02	-87.97	-36.56	96.58	93.66	2.93	33.014			
600.00	599.29	577.48	574.17	1.90	1.37	97.49	-101.59	-47.99	116.54	112.91	3.63	32.124	SF		
700.00	698.04	666.33	660.42	2.28	1.79	103.58	-117.89	-61.66	143.61	139.31	4.30	33.402			
800.00	795.85	751.40	742.00	2.70	2.25	108.59	-136.36	-77.16	178.11	173.15	4.95	35.952			
900.00	892.43	832.21	818.41	3.17	2.75	112.40	-156.46	-94.03	219.82	214.21	5.61	39.159			
1,000.00	987.52	908.37	889.36	3.71	3.27	115.13	-177.66	-111.82	268.31	262.01	6.29	42.646			
1,100.00	1,080.87	979.65	954.72	4.33	3.81	116.95	-199.45	-130.10	323.00	316.01	7.00	46.170			
1,200.00	1,172.22	1,057.04	1,024.74	5.04	4.42	118.38	-225.33	-150.49	382.44	374.74	7.71	49.634			
1,300.00	1,261.31	1,136.25	1,095.90	5.85	5.05	119.13	-254.43	-169.55	444.29	435.77	8.52	52.125			
1,400.00	1,347.90	1,214.99	1,166.02	6.79	5.69	119.31	-285.92	-186.59	508.17	498.70	9.48	53.627			
1,500.00	1,431.76	1,293.33	1,235.06	7.86	6.35	119.08	-319.74	-201.64	573.87	563.29	10.57	54.281			
1,603.26	1,515.23	1,371.83	1,303.44	9.10	7.02	118.48	-355.93	-214.87	643.44	631.62	11.82	54.433			
1,700.00	1,591.88	1,441.03	1,363.54	10.35	7.62	120.01	-388.33	-226.13	709.70	696.68	13.02	54.504			
1,800.00	1,671.11	1,512.56	1,425.67	11.67	8.24	121.33	-421.82	-237.78	778.43	764.15	14.28	54.509			
1,900.00	1,750.34	1,584.09	1,487.80	13.01	8.86	122.44	-455.31	-249.42	847.35	831.80	15.56	54.461			
2,000.00	1,829.57	1,655.63	1,549.92	14.36	9.49	123.38	-488.81	-261.07	916.42	899.57	16.85	54.388			
2,100.00	1,908.81	1,727.16	1,612.05	15.72	10.11	124.19	-522.30	-272.71	985.60	967.45	18.15	54.306			
2,200.00	1,988.04	1,798.69	1,674.17	17.09	10.74	124.90	-555.79	-284.35	1,054.88	1,035.42	19.46	54.220			
2,300.00	2,067.27	1,870.22	1,736.30	18.46	11.37	125.53	-589.28	-296.00	1,124.23	1,103.46	20.77	54.135			
2,400.00	2,146.50	1,941.76	1,798.43	19.84	12.00	126.08	-622.77	-307.64	1,193.64	1,171.55	22.08	54.053			
2,500.00	2,225.73	2,013.29	1,860.55	21.23	12.63	126.57	-656.26	-319.29	1,263.10	1,239.70	23.40	53.976			
2,600.00	2,304.96	2,084.82	1,922.68	22.62	13.27	127.01	-689.76	-330.93	1,332.60	1,307.88	24.72	53.903			
2,700.00	2,384.19	2,156.35	1,984.80	24.00	13.90	127.41	-723.25	-342.58	1,402.15	1,376.10	26.05	53.835			
2,800.00	2,463.42	2,227.89	2,046.93	25.40	14.53	127.77	-756.74	-354.22	1,471.72	1,444.35	27.37	53.772			

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 176-MWD													H04 596 Pad - WF10D O03 (EXISTING) - Existing - SURVEYS		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
5,500.00	4,602.67	4,816.04	4,750.68	63.26	15.53	24.28	-2,116.71	3,592.18	1,450.52	1,409.17	41.35	35.082				
5,600.00	4,681.90	4,892.55	4,825.71	64.67	15.83	24.65	-2,101.93	3,594.93	1,384.52	1,342.23	42.29	32.736				
5,700.00	4,761.13	4,965.63	4,897.39	66.07	16.10	25.04	-2,087.94	3,597.51	1,318.61	1,275.31	43.30	30.453				
5,800.00	4,840.36	5,037.53	4,967.96	67.48	16.37	25.48	-2,074.41	3,599.99	1,252.88	1,208.52	44.36	28.246				
5,900.00	4,919.59	5,109.99	5,039.13	68.89	16.63	25.98	-2,061.03	3,602.51	1,187.39	1,141.94	45.45	26.126				
6,000.00	4,998.82	5,180.83	5,108.77	70.29	16.88	26.55	-2,048.32	3,604.91	1,122.20	1,075.59	46.61	24.076				
6,100.00	5,078.06	5,255.47	5,182.25	71.70	17.15	27.24	-2,035.39	3,607.28	1,057.31	1,009.52	47.79	22.124				
6,200.00	5,157.29	5,339.08	5,264.44	73.11	17.47	28.09	-2,020.29	3,609.99	992.17	943.30	48.86	20.304				
6,300.00	5,236.52	5,414.34	5,338.30	74.51	17.74	28.92	-2,006.05	3,612.51	926.72	876.59	50.13	18.488				
6,400.00	5,315.75	5,486.51	5,409.20	75.92	18.01	29.86	-1,992.78	3,614.79	861.60	810.04	51.56	16.711				
6,500.00	5,394.98	5,565.13	5,486.44	77.33	18.31	31.06	-1,978.31	3,617.24	796.62	743.65	52.97	15.040				
6,600.00	5,474.21	5,643.67	5,563.47	78.73	18.61	32.42	-1,963.23	3,619.81	731.49	677.01	54.47	13.429				
6,700.00	5,553.44	5,714.84	5,633.29	80.14	18.87	33.89	-1,949.60	3,622.05	666.58	610.22	56.36	11.828				
6,800.00	5,632.67	5,786.65	5,703.90	81.55	19.12	35.77	-1,936.68	3,623.95	602.50	543.96	58.54	10.292				
6,900.00	5,711.90	5,864.29	5,780.35	82.96	19.39	38.36	-1,923.17	3,625.30	538.90	477.99	60.92	8.847				
7,000.00	5,791.14	5,938.94	5,853.89	84.36	19.65	41.57	-1,910.35	3,625.85	475.86	411.91	63.95	7.441				
7,100.00	5,870.37	6,011.70	5,925.60	85.77	19.89	45.56	-1,898.07	3,626.37	414.28	346.48	67.80	6.110				
7,200.00	5,949.60	6,085.34	5,998.19	87.18	20.14	50.72	-1,885.74	3,627.15	354.87	282.29	72.58	4.889				
7,300.00	6,028.83	6,160.39	6,072.12	88.59	20.41	57.48	-1,872.93	3,628.69	298.59	220.09	78.50	3.804				
7,400.00	6,108.06	6,236.61	6,147.06	89.99	20.69	66.33	-1,859.25	3,631.60	246.88	161.19	85.69	2.881				
7,500.00	6,187.29	6,311.57	6,220.72	91.40	20.96	77.84	-1,845.77	3,634.84	203.29	108.96	94.33	2.155				
7,600.00	6,266.52	6,386.76	6,294.66	92.81	21.23	92.50	-1,832.51	3,638.05	174.13	71.53	102.60	1.697				
7,611.65	6,275.75	6,395.53	6,303.29	92.97	21.26	94.38	-1,830.98	3,638.42	172.04	68.71	103.32	1.665				
7,685.03	6,334.74	6,452.16	6,359.00	93.96	21.47	106.47	-1,821.11	3,640.79	166.00	60.83	105.17	1.578	CC, ES, SF			
7,700.00	6,346.98	6,463.95	6,370.60	94.16	21.51	109.00	-1,819.05	3,641.29	166.24	61.35	104.90	1.585				
7,800.00	6,430.41	6,544.15	6,449.47	95.38	21.80	125.27	-1,804.91	3,644.62	178.83	80.74	98.09	1.823				
7,900.00	6,516.61	6,626.93	6,530.89	96.46	22.09	138.98	-1,790.38	3,648.04	204.85	117.29	87.56	2.340				
8,000.00	6,605.34	6,712.25	6,614.87	97.42	22.39	149.49	-1,775.67	3,651.43	237.14	158.94	78.20	3.032				
8,100.00	6,696.36	6,801.17	6,702.42	98.24	22.71	157.40	-1,760.58	3,655.06	270.76	199.48	71.28	3.798				
8,200.00	6,789.43	6,891.75	6,791.62	98.95	23.02	163.32	-1,745.29	3,658.88	303.09	236.59	66.51	4.557				
8,300.00	6,884.28	6,984.09	6,882.54	99.54	23.35	167.93	-1,729.63	3,662.80	332.86	269.54	63.32	5.257				
8,400.00	6,980.66	7,078.73	6,975.74	100.02	23.68	171.66	-1,713.66	3,666.85	359.19	297.85	61.34	5.855				
8,500.00	7,078.29	7,175.21	7,070.80	100.41	24.00	174.73	-1,697.77	3,671.06	381.45	321.18	60.27	6.329				
8,600.00	7,176.93	7,268.75	7,163.30	100.71	24.27	176.99	-1,684.16	3,674.05	399.85	340.22	59.63	6.706				
8,700.00	7,276.28	7,367.22	7,261.21	100.93	24.50	178.50	-1,673.83	3,675.26	413.86	354.19	59.68	6.935				
8,800.00	7,376.09	7,465.61	7,359.24	101.09	24.71	179.57	-1,665.51	3,675.44	423.06	363.20	59.85	7.068				
8,864.91	7,440.99	7,533.06	7,426.52	101.16	24.83	-65.49	-1,660.63	3,675.37	426.16	365.97	60.19	7.080				
8,893.09	7,469.17	7,562.71	7,456.12	101.19	24.88	58.94	-1,659.06	3,675.27	426.83	366.47	60.36	7.071				
8,900.00	7,476.08	7,569.84	7,463.25	101.19	24.89	58.98	-1,658.73	3,675.24	426.97	366.58	60.39	7.070				
9,000.00	7,576.08	7,672.23	7,565.58	101.27	25.01	59.41	-1,655.40	3,674.56	428.70	367.87	60.83	7.048				
9,100.00	7,676.07	7,775.47	7,668.80	101.36	25.12	59.55	-1,654.20	3,673.48	429.89	368.58	61.31	7.012				
9,200.00	7,776.07	7,877.92	7,771.25	101.44	25.21	59.59	-1,654.04	3,672.89	430.23	368.48	61.74	6.968				
9,300.00	7,876.07	7,977.79	7,871.12	101.52	25.30	59.58	-1,654.30	3,672.28	430.42	368.39	62.04	6.938				
9,400.00	7,976.07	8,077.81	7,971.13	101.61	25.39	59.56	-1,654.67	3,671.60	430.62	368.29	62.34	6.908				
9,500.00	8,076.07	8,175.86	8,069.18	101.69	25.47	59.50	-1,655.12	3,670.68	431.03	368.50	62.53	6.893				
9,600.00	8,176.07	8,274.24	8,167.54	101.78	25.55	59.39	-1,655.81	3,669.14	431.90	369.16	62.73	6.884				
9,700.00	8,276.07	8,374.03	8,267.31	101.87	25.63	59.22	-1,656.75	3,667.18	433.03	370.00	63.03	6.870				
9,800.00	8,376.07	8,475.54	8,368.80	101.96	25.71	59.06	-1,657.79	3,665.44	433.90	370.48	63.42	6.841				
9,900.00	8,476.06	8,573.88	8,467.11	102.05	25.78	58.86	-1,659.03	3,663.59	434.82	371.18	63.64	6.833				
10,000.00	8,576.06	8,672.11	8,565.30	102.14	25.86	58.60	-1,660.57	3,661.24	436.10	372.24	63.86	6.829				
10,100.00	8,676.06	8,769.81	8,662.97	102.24	25.96	58.51	-1,660.70	3,658.83	438.03	373.97	64.06	6.838				
10,200.00	8,776.06	8,869.75	8,762.88	102.33	26.06	58.45	-1,660.55	3,656.37	440.08	375.69	64.38	6.835				

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 UWF15B-03 H04 596 (was 10E-03)
Project:	North Piceance	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Reference Site:	H04 596 Pad	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Offset Design												H04 596 Pad - WF10D O03 (EXISTING) - Existing - SURVEYS		Offset Site Error:	0.00 usft
Survey Program: 176-MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
10,300.00	8,876.06	8,970.21	8,863.31	102.43	26.16	58.38	-1,660.48	3,653.91	442.08	377.34	64.74	6.828			
10,400.00	8,976.06	9,068.22	8,961.29	102.52	26.26	58.32	-1,660.34	3,651.39	444.24	379.27	64.97	6.838			
10,500.00	9,076.06	9,167.32	9,060.35	102.62	26.36	58.29	-1,659.86	3,648.62	446.73	381.47	65.26	6.846			
10,600.00	9,176.06	9,264.98	9,157.97	102.72	26.48	58.28	-1,659.03	3,645.74	449.50	384.03	65.47	6.866			
10,700.00	9,276.06	9,363.97	9,256.89	102.82	26.60	58.38	-1,657.26	3,642.67	452.81	387.05	65.76	6.886			
10,800.00	9,376.05	9,465.65	9,358.51	102.92	26.72	58.47	-1,655.66	3,639.69	455.87	389.67	66.19	6.887			
10,900.00	9,476.05	9,567.59	9,460.41	103.03	26.83	58.42	-1,655.09	3,636.54	458.66	392.02	66.64	6.883			
11,000.00	9,576.05	9,667.81	9,560.57	103.13	26.92	58.24	-1,655.74	3,633.41	460.99	393.98	67.00	6.880			
11,100.00	9,676.05	9,767.54	9,660.23	103.24	27.01	57.99	-1,656.86	3,629.82	463.56	396.21	67.35	6.883			
11,200.00	9,776.05	9,867.80	9,760.43	103.34	27.09	57.77	-1,657.79	3,626.47	465.99	398.28	67.72	6.882			
11,300.00	9,876.05	9,966.78	9,859.32	103.45	27.16	57.41	-1,659.72	3,622.64	468.51	400.47	68.04	6.886			
11,400.00	9,976.05	10,066.41	9,958.85	103.56	27.25	57.08	-1,661.40	3,618.60	471.32	402.91	68.41	6.890			
11,500.00	10,076.05	10,167.79	10,060.16	103.67	27.35	56.84	-1,662.51	3,615.04	473.87	405.00	68.87	6.881			
11,600.00	10,176.04	10,267.54	10,159.85	103.78	27.45	56.63	-1,663.48	3,611.71	476.32	407.07	69.24	6.879			
11,700.00	10,276.04	10,363.92	10,256.17	103.89	27.54	56.47	-1,663.95	3,608.39	479.05	409.61	69.44	6.899			
11,800.00	10,376.04	10,462.34	10,354.48	104.00	27.64	56.24	-1,664.73	3,603.90	482.70	412.94	69.75	6.920			
11,900.00	10,476.04	10,562.02	10,454.07	104.12	27.73	56.00	-1,665.59	3,599.54	486.16	416.02	70.14	6.931			
12,000.00	10,576.04	10,658.44	10,550.37	104.23	27.82	55.72	-1,666.62	3,594.76	490.11	419.74	70.37	6.965			
12,100.00	10,676.04	10,754.21	10,645.94	104.35	27.91	55.37	-1,668.07	3,589.00	494.88	424.30	70.58	7.011			
12,200.00	10,776.04	10,850.87	10,742.37	104.47	27.99	54.97	-1,669.66	3,582.36	500.44	429.57	70.87	7.062			
12,300.00	10,876.04	10,947.78	10,838.98	104.58	28.08	54.55	-1,671.27	3,575.00	506.68	435.50	71.18	7.118			
12,400.00	10,976.03	10,993.98	10,885.03	104.70	28.12	54.34	-1,672.05	3,571.41	515.92	447.43	68.49	7.533			
12,489.94	11,065.98	10,993.98	10,885.03	104.81	28.12	54.34	-1,672.05	3,571.41	538.36	475.77	62.59	8.602			
12,500.00	11,076.03	10,993.98	10,885.03	104.82	28.12	54.34	-1,672.05	3,571.41	541.74	479.86	61.88	8.755			
12,600.00	11,176.03	10,993.98	10,885.03	104.95	28.12	54.34	-1,672.05	3,571.41	583.77	529.07	54.70	10.671			
12,700.00	11,276.03	10,993.98	10,885.03	105.07	28.12	54.34	-1,672.05	3,571.41	638.83	590.88	47.95	13.323			
12,800.00	11,376.03	10,993.98	10,885.03	105.19	28.12	54.34	-1,672.05	3,571.41	703.85	661.68	42.17	16.690			
12,851.46	11,427.49	10,993.98	10,885.03	105.26	28.12	54.34	-1,672.05	3,571.41	740.36	700.70	39.66	18.668			

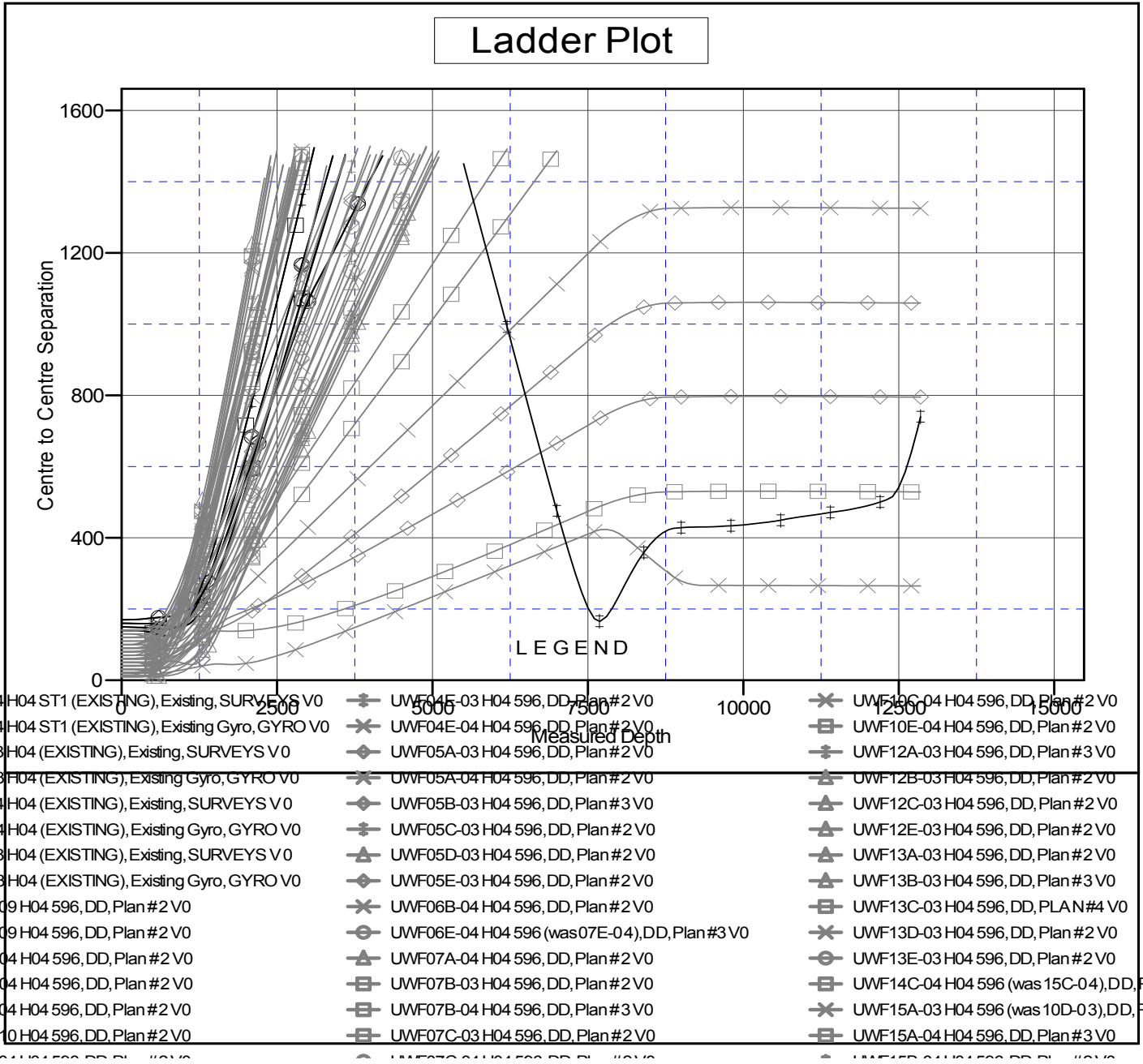
Cathedral Energy Services

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Reference Well:	UWF15B-03 H04 596 (was 10E-03)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 8292.98usft (Original Well E
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: UWF15B-03 H04 596 (was 10E-03)
 Coordinate System is US State Plane 1983, Colorado Central Zone
 Grid Convergence at Surface is: -1.68°



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