

EnCana Oil & Gas (USA) Inc

North Piceance

H04 596 Pad

UWF13C-03 H04 596

DD

PLAN #4

Anticollision Report

19 September, 2016

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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	13,005.64	PLAN #4 (DD)	MWD+HDGM	OWSG MWD + HDGM

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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:	UWF13C-03 H04 596	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 Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
H04 596 Pad						
CP01B-04 H04 ST1 (EXISTING) - Existing Gyro - GYRO	777.44	777.88	63.34	60.08	19.438	CC, ES
CP01B-04 H04 ST1 (EXISTING) - Existing Gyro - GYRO	800.00	799.48	63.67	60.29	18.884	SF
CP05B-03 H04 (EXISTING) - Existing Gyro - GYRO	1,034.05	1,027.80	46.01	41.37	9.935	CC, ES, SF
CP08D-04 H04 (EXISTING) - Existing Gyro - GYRO	913.54	909.30	65.61	61.71	16.812	CC, ES
CP08D-04 H04 (EXISTING) - Existing Gyro - GYRO	1,000.00	992.52	69.90	65.53	16.000	SF
CP09B-04 K04 (EXISTING) - Existing - GYROS						Out of range
CP12D-03 H04 (EXISTING) - Existing Gyro - GYRO	1,113.33	1,101.90	79.53	74.35	15.376	CC, ES
CP12D-03 H04 (EXISTING) - Existing Gyro - GYRO	1,200.00	1,181.83	85.91	80.25	15.167	SF
UWF02A-09 H04 596 - DD - Plan #2	104.10	104.10	32.02	31.76	123.685	CC
UWF02A-09 H04 596 - DD - Plan #2	200.00	199.52	32.39	31.60	41.015	ES
UWF02A-09 H04 596 - DD - Plan #2	500.00	492.74	56.20	53.24	19.001	SF
UWF02B-09 H04 596 - DD - Plan #2	796.68	797.27	29.94	25.87	7.344	CC
UWF02B-09 H04 596 - DD - Plan #2	800.00	800.59	29.95	25.85	7.307	ES, SF
UWF02C-04 H04 596 - DD - Plan #2	216.67	216.67	189.90	189.04	221.109	CC
UWF02C-04 H04 596 - DD - Plan #2	300.00	300.00	189.90	188.60	145.739	ES
UWF02C-04 H04 596 - DD - Plan #2	800.00	755.37	262.39	257.90	58.462	SF
UWF02D-04 H04 596 - DD - Plan #2	116.67	116.67	189.58	189.26	581.791	CC
UWF02D-04 H04 596 - DD - Plan #2	200.00	200.00	189.58	188.81	246.201	ES
UWF02D-04 H04 596 - DD - Plan #2	800.00	755.62	277.66	273.02	59.838	SF
UWF02E-04 H04 596 - DD - Plan #2	400.00	400.00	169.63	167.80	92.391	CC, ES
UWF02E-04 H04 596 - DD - Plan #2	900.00	865.55	248.29	243.39	50.603	SF
UWF04A-10 H04 596 - DD - Plan #2	203.69	203.69	29.78	28.99	37.705	CC
UWF04A-10 H04 596 - DD - Plan #2	300.00	299.40	30.28	28.95	22.895	ES
UWF04A-10 H04 596 - DD - Plan #2	12,800.00	12,999.97	801.20	715.40	9.338	SF
UWF04B-04 H04 596 - DD - Plan #2	400.00	400.00	179.52	177.68	97.775	CC, ES
UWF04B-04 H04 596 - DD - Plan #2	900.00	861.35	264.73	259.82	53.956	SF
UWF04B-10 H04 596 - DD - Plan #2	116.67	116.67	40.14	39.82	123.190	CC
UWF04B-10 H04 596 - DD - Plan #2	200.00	200.00	40.14	39.37	52.131	ES
UWF04B-10 H04 596 - DD - Plan #2	12,700.00	12,999.97	1,064.46	979.00	12.456	SF
UWF04C-04 H04 596 - DD - Plan #2	546.51	560.90	166.22	163.12	53.620	CC, ES
UWF04C-04 H04 596 - DD - Plan #2	900.00	872.67	233.77	227.66	38.233	SF
UWF04C-10 H04 596 - DD - Plan #2	103.51	103.51	49.76	49.50	194.565	CC
UWF04C-10 H04 596 - DD - Plan #2	200.00	198.97	50.28	49.47	62.380	ES
UWF04C-10 H04 596 - DD - Plan #2	12,600.00	12,999.97	1,329.66	1,244.49	15.613	SF
UWF04D-03 H04 596 - DD - Plan #2	116.67	116.67	170.12	169.79	522.067	CC
UWF04D-03 H04 596 - DD - Plan #2	200.00	200.00	170.12	169.35	220.927	ES
UWF04D-03 H04 596 - DD - Plan #2	800.00	748.49	263.35	258.67	56.248	SF
UWF04D-10 H04 596 - DD - Plan #2	103.33	103.33	51.38	51.12	201.649	CC, ES
UWF04D-10 H04 596 - DD - Plan #2	2,700.00	2,655.87	460.80	432.31	16.174	SF
UWF04E-03 H04 596 - DD - Plan #2	216.67	216.67	159.54	158.68	185.759	CC
UWF04E-03 H04 596 - DD - Plan #2	300.00	300.00	159.54	158.24	122.438	ES
UWF04E-03 H04 596 - DD - Plan #2	800.00	761.18	232.18	227.69	51.672	SF
UWF04E-04 H04 596 - DD - Plan #2	405.18	405.57	160.10	158.23	85.508	CC, ES
UWF04E-04 H04 596 - DD - Plan #2	900.00	867.61	243.09	237.77	45.712	SF
UWF05A-03 H04 596 - DD - Plan #2	116.67	116.67	150.14	149.81	460.737	CC
UWF05A-03 H04 596 - DD - Plan #2	200.00	200.00	150.14	149.37	194.974	ES
UWF05A-03 H04 596 - DD - Plan #2	1,200.00	1,143.18	365.38	357.85	48.564	SF
UWF05A-04 H04 596 - DD - Plan #2	412.29	413.06	140.00	138.08	73.166	CC, ES
UWF05A-04 H04 596 - DD - Plan #2	800.00	784.34	188.18	183.66	41.604	SF
UWF05B-03 H04 596 - DD - Plan #3	216.67	216.67	139.55	138.69	162.480	CC
UWF05B-03 H04 596 - DD - Plan #3	300.00	300.00	139.55	138.25	107.095	ES
UWF05B-03 H04 596 - DD - Plan #3	1,100.00	1,065.92	284.38	277.76	42.958	SF
UWF05C-03 H04 596 - DD - Plan #2	216.67	216.67	119.56	118.70	139.206	CC

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

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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:	UWF13C-03 H04 596	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 Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
H04 596 Pad						
UWF05C-03 H04 596 - DD - Plan #2	300.00	300.00	119.56	118.26	91.754	ES
UWF05C-03 H04 596 - DD - Plan #2	1,100.00	1,075.57	246.56	239.80	36.433	SF
UWF05D-03 H04 596 - DD - Plan #2	405.42	405.67	99.39	97.52	53.057	CC, ES
UWF05D-03 H04 596 - DD - Plan #2	1,100.00	1,083.80	205.72	198.82	29.829	SF
UWF05E-03 H04 596 - DD - Plan #2	409.41	410.00	89.37	87.44	46.234	CC, ES
UWF05E-03 H04 596 - DD - Plan #2	1,200.00	1,188.04	192.94	184.66	23.286	SF
UWF06B-04 H04 596 - DD - Plan #2	413.67	414.84	119.17	117.19	60.092	CC, ES
UWF06B-04 H04 596 - DD - Plan #2	800.00	777.88	181.12	176.17	36.595	SF
UWF06E-04 H04 596 (was 07E-04) - DD - Plan #3	511.63	517.96	91.63	88.96	34.236	CC, ES
UWF06E-04 H04 596 (was 07E-04) - DD - Plan #3	700.00	702.06	107.23	103.25	26.925	SF
UWF07A-04 H04 596 - DD - Plan #2	400.00	400.00	149.69	147.85	81.527	CC, ES
UWF07A-04 H04 596 - DD - Plan #2	900.00	875.02	231.26	226.42	47.761	SF
UWF07B-03 H04 596 - DD - Plan #2	116.67	116.67	130.15	129.82	399.394	CC
UWF07B-03 H04 596 - DD - Plan #2	200.00	200.00	130.15	129.38	169.015	ES
UWF07B-03 H04 596 - DD - Plan #2	3,400.00	2,984.99	1,463.11	1,424.38	37.773	SF
UWF07B-04 H04 596 - DD - Plan #3	303.79	303.79	129.76	128.43	98.060	CC
UWF07B-04 H04 596 - DD - Plan #3	400.00	398.95	129.96	128.12	70.752	ES
UWF07B-04 H04 596 - DD - Plan #3	900.00	886.66	193.49	188.88	41.936	SF
UWF07C-03 H04 596 - DD - Plan #2	116.67	116.67	110.16	109.83	338.052	CC
UWF07C-03 H04 596 - DD - Plan #2	200.00	200.00	110.16	109.39	143.056	ES
UWF07C-03 H04 596 - DD - Plan #2	1,000.00	956.36	233.28	226.43	34.058	SF
UWF07C-04 H04 596 - DD - Plan #2	436.30	438.09	108.96	106.91	53.021	CC, ES
UWF07C-04 H04 596 - DD - Plan #2	800.00	792.71	151.99	147.59	34.604	SF
UWF07E-03 H04 596 - DD - Plan #2	400.00	400.00	90.10	88.26	49.071	CC, ES
UWF07E-03 H04 596 - DD - Plan #2	3,900.00	3,563.83	1,457.72	1,409.42	30.179	SF
UWF10A-03 H04 596 - DD - Plan #2	116.67	116.67	70.17	69.85	215.341	CC
UWF10A-03 H04 596 - DD - Plan #2	300.00	299.63	70.42	69.11	53.637	ES
UWF10A-03 H04 596 - DD - Plan #2	800.00	784.80	124.30	119.29	24.801	SF
UWF10A-04 H04 596 - DD - Plan #2	527.75	533.79	69.14	66.33	24.646	CC, ES
UWF10A-04 H04 596 - DD - Plan #2	700.00	702.34	83.83	79.82	20.936	SF
UWF10B-03 H04 596 - DD - Plan #2	400.00	400.00	70.26	68.43	38.268	CC, ES
UWF10B-03 H04 596 - DD - Plan #2	2,300.00	2,206.65	579.47	555.48	24.162	SF
UWF10C-03 H04 596 - DD - Plan #2	106.32	106.32	59.78	59.51	220.824	CC
UWF10C-03 H04 596 - DD - Plan #2	200.00	199.83	59.85	59.08	77.584	ES
UWF10C-03 H04 596 - DD - Plan #2	700.00	688.28	102.43	98.10	23.646	SF
UWF10C-04 H04 596 - DD - Plan #2	452.32	453.41	39.06	36.91	18.241	CC, ES
UWF10C-04 H04 596 - DD - Plan #2	600.00	600.86	45.17	42.22	15.314	SF
UWF10E-04 H04 596 - DD - Plan #2	474.19	475.49	28.39	26.10	12.395	CC, ES
UWF10E-04 H04 596 - DD - Plan #2	600.00	600.58	34.68	31.66	11.478	SF
UWF12A-03 H04 596 - DD - Plan #3	400.00	400.00	79.58	77.74	43.342	CC, ES
UWF12A-03 H04 596 - DD - Plan #3	1,100.00	1,104.33	145.08	138.57	22.288	SF
UWF12B-03 H04 596 - DD - Plan #2	400.00	400.00	60.86	59.02	33.146	CC, ES
UWF12B-03 H04 596 - DD - Plan #2	1,100.00	1,105.70	106.11	99.15	15.254	SF
UWF12C-03 H04 596 - DD - Plan #2	400.00	400.00	39.81	37.97	21.683	CC, ES
UWF12C-03 H04 596 - DD - Plan #2	1,100.00	1,103.57	75.80	68.73	10.720	SF
UWF12E-03 H04 596 - DD - Plan #2	400.00	400.00	30.20	28.36	16.448	CC, ES
UWF12E-03 H04 596 - DD - Plan #2	13,005.64	12,757.91	790.06	705.34	9.326	SF
UWF13A-03 H04 596 - DD - Plan #2	400.00	400.00	19.81	17.98	10.791	CC, ES
UWF13A-03 H04 596 - DD - Plan #2	13,005.64	12,831.27	526.94	442.25	6.222	SF
UWF13B-03 H04 596 - DD - Plan #3	400.00	400.00	10.22	8.38	5.564	CC, ES
UWF13B-03 H04 596 - DD - Plan #3	13,005.64	12,915.05	261.57	177.26	3.102	SF
UWF13D-03 H04 596 - DD - Plan #2	304.67	304.67	9.80	8.47	7.379	CC
UWF13D-03 H04 596 - DD - Plan #2	400.00	399.81	10.27	8.42	5.556	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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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						
UWF13D-03 H04 596 - DD - Plan #2	12,900.00	12,999.02	265.36	180.04	3.110	SF
UWF13E-03 H04 596 - DD - Plan #2	216.67	216.67	20.15	19.29	23.465	CC
UWF13E-03 H04 596 - DD - Plan #2	300.00	300.00	20.15	18.85	15.466	ES
UWF13E-03 H04 596 - DD - Plan #2	12,800.00	12,999.97	529.41	444.49	6.234	SF
UWF14C-04 H04 596 (was 15C-04) - DD - Plan #3	400.00	400.00	9.81	7.98	5.344	CC, ES
UWF14C-04 H04 596 (was 15C-04) - DD - Plan #3	500.00	499.98	11.79	9.44	5.008	SF
UWF15A-03 H04 596 (was 10D-03) - DD - Plan #3	216.67	216.67	50.18	49.32	58.429	CC
UWF15A-03 H04 596 (was 10D-03) - DD - Plan #3	400.00	399.66	50.49	48.65	27.386	ES
UWF15A-03 H04 596 (was 10D-03) - DD - Plan #3	900.00	893.87	101.92	96.47	18.720	SF
UWF15A-04 H04 596 - DD - Plan #3	400.00	400.00	22.58	20.74	12.297	CC, ES
UWF15A-04 H04 596 - DD - Plan #3	600.00	600.86	30.78	27.88	10.598	SF
UWF15B-03 H04 596 (was 10E-03) - DD - Plan #3	449.14	450.23	49.99	47.88	23.668	CC, ES
UWF15B-03 H04 596 (was 10E-03) - DD - Plan #3	1,000.00	1,000.00	94.14	87.83	14.922	SF
UWF15B-04 H04 596 - DD - Plan #2	203.28	203.28	13.89	13.10	17.635	CC
UWF15B-04 H04 596 - DD - Plan #2	300.00	299.99	13.91	12.60	10.669	ES
UWF15B-04 H04 596 - DD - Plan #2	400.00	399.68	15.13	13.24	8.026	SF
UWF15D-04 H04 596 - DD - Plan #3	216.67	216.67	14.48	13.62	16.856	CC
UWF15D-04 H04 596 - DD - Plan #3	300.00	300.00	14.48	13.17	11.110	ES
UWF15D-04 H04 596 - DD - Plan #3	400.00	399.23	16.87	14.96	8.818	SF
UWF15E-04 H04 596 - DD - Plan #3	104.44	104.44	22.11	21.85	84.792	CC
UWF15E-04 H04 596 - DD - Plan #3	200.00	199.54	22.52	21.71	27.915	ES
UWF15E-04 H04 596 - DD - Plan #3	400.00	396.05	36.95	34.68	16.286	SF
WF03D B04 (EXISTING) - Existing - SURVEYS						Out of range
WF04D B04 (EXISTING) - Existing - SURVEYS						Out of range
WF10D O03 (EXISTING) - Existing - SURVEYS						Out of range

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - CP01B-04 H04 ST1 (EXISTING) - Existing Gyro - GYRO												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	2.02	2.02	0.00	0.00	-164.37	-86.69	-24.25	90.02				
100.00	100.00	102.77	102.76	0.12	0.07	-164.25	-86.19	-24.31	89.55	89.34	0.22	416.089	
163.58	163.58	165.58	165.58	0.35	0.13	-164.07	-85.85	-24.50	89.28	88.81	0.47	188.587	
200.00	200.00	201.60	201.60	0.48	0.16	-163.95	-85.89	-24.71	89.37	88.73	0.64	140.228	
300.00	300.00	302.64	302.62	0.84	0.25	-163.10	-85.40	-25.95	89.26	88.17	1.09	82.207	
400.00	400.00	404.53	404.46	1.20	0.34	-161.50	-82.90	-27.74	87.45	85.89	1.56	56.053	
500.00	499.95	504.61	504.46	1.54	0.43	50.65	-79.07	-29.74	82.83	80.83	1.99	41.540	
600.00	599.63	604.79	604.45	1.89	0.53	59.03	-73.82	-32.52	74.78	72.34	2.44	30.624	
700.00	698.77	702.95	702.37	2.24	0.63	73.86	-67.63	-35.57	66.34	63.45	2.88	22.996	
777.44	774.98	777.88	777.08	2.54	0.72	90.46	-62.49	-38.10	63.34	60.08	3.26	19.438 CC, ES	
800.00	797.08	799.48	798.60	2.63	0.74	95.97	-60.88	-38.92	63.67	60.29	3.37	18.884 SF	
900.00	894.31	894.19	892.96	3.06	0.85	119.84	-53.61	-42.75	74.02	70.13	3.88	19.057	
1,000.00	990.18	987.05	985.45	3.54	0.95	137.74	-46.25	-46.61	98.31	93.96	4.36	22.560	
1,100.00	1,084.43	1,078.55	1,076.58	4.08	1.05	149.26	-38.89	-50.22	132.85	128.05	4.80	27.695	
1,200.00	1,176.81	1,166.76	1,164.43	4.69	1.16	156.62	-31.54	-53.19	174.76	169.53	5.24	33.380	
1,286.90	1,255.36	1,239.28	1,236.59	5.28	1.25	161.04	-24.58	-55.42	216.79	211.17	5.61	38.612	
1,300.00	1,267.08	1,249.87	1,247.11	5.38	1.26	161.64	-23.53	-55.82	223.54	217.86	5.68	39.364	
1,400.00	1,356.49	1,331.16	1,327.89	6.11	1.36	165.23	-15.23	-59.52	276.22	270.14	6.08	45.405	
1,500.00	1,445.90	1,413.75	1,409.93	6.86	1.47	167.70	-6.60	-63.74	329.94	323.45	6.49	50.812	
1,600.00	1,535.31	1,495.88	1,491.47	7.63	1.58	169.44	2.06	-68.31	384.28	377.37	6.91	55.622	
1,700.00	1,624.72	1,576.19	1,571.16	8.42	1.69	170.72	10.83	-73.04	439.24	431.91	7.32	59.973	
1,800.00	1,714.13	1,664.06	1,658.34	9.21	1.80	171.81	20.49	-78.30	494.42	486.65	7.77	63.623	
1,900.00	1,803.54	1,750.24	1,743.96	10.00	1.91	172.54	28.55	-83.63	548.66	540.44	8.22	66.733	
2,000.00	1,892.95	1,831.69	1,824.88	10.81	2.02	173.08	36.16	-88.95	603.10	594.44	8.66	69.671	
2,100.00	1,982.36	1,910.67	1,903.31	11.61	2.13	173.49	43.68	-94.57	657.97	648.89	9.08	72.446	
2,200.00	2,071.77	1,980.24	1,972.26	12.42	2.23	173.79	51.06	-100.13	714.04	704.57	9.46	75.461	
2,300.00	2,161.18	2,062.76	2,053.91	13.23	2.35	174.08	60.52	-107.47	771.12	761.21	9.91	77.824	
2,400.00	2,250.59	2,146.04	2,136.35	14.05	2.47	174.25	69.23	-115.38	827.79	817.43	10.36	79.883	
2,500.00	2,340.00	2,222.95	2,212.43	14.86	2.59	174.34	77.05	-123.43	884.72	873.94	10.79	82.030	
2,600.00	2,429.41	2,300.00	2,288.53	15.68	2.71	174.37	85.25	-132.32	942.44	931.23	11.21	84.064	
2,700.00	2,518.82	2,379.48	2,366.96	16.50	2.83	174.37	93.61	-142.15	1,000.47	988.81	11.65	85.858	
2,800.00	2,608.23	2,464.06	2,450.41	17.32	2.96	174.29	101.65	-153.32	1,058.19	1,046.06	12.13	87.258	
2,900.00	2,697.64	2,531.89	2,517.24	18.14	3.08	174.15	107.49	-163.35	1,116.07	1,103.56	12.51	89.220	
3,000.00	2,787.05	2,599.99	2,583.96	18.96	3.20	173.95	114.02	-175.32	1,175.76	1,162.87	12.89	91.182	
3,100.00	2,876.46	2,640.97	2,623.87	19.78	3.29	173.80	118.28	-183.56	1,236.94	1,223.82	13.12	94.292	
3,200.00	2,965.87	2,699.99	2,681.03	20.60	3.41	173.54	124.63	-196.84	1,299.76	1,286.31	13.45	96.627	
3,300.00	3,055.28	2,747.77	2,726.96	21.42	3.52	173.28	129.90	-208.87	1,363.98	1,350.26	13.72	99.434	
3,400.00	3,144.69	2,799.99	2,776.78	22.25	3.65	172.96	135.70	-223.40	1,429.58	1,415.57	14.01	102.031	
3,500.00	3,234.10	2,838.71	2,813.48	23.07	3.75	172.72	140.48	-234.79	1,496.72	1,482.50	14.21	105.300	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - CP05B-03 H04 (EXISTING) - Existing Gyro - GYRO													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	2.01	2.01	0.00	0.00	-164.13	-106.01	-30.13	110.21					
100.00	100.00	102.40	102.40	0.12	0.07	-164.22	-105.87	-29.92	110.02	109.82	0.20	563.721		
200.00	200.00	202.42	202.41	0.48	0.16	-164.48	-105.65	-29.33	109.64	109.01	0.64	171.965		
300.00	300.00	302.36	302.33	0.84	0.25	-165.60	-105.86	-27.18	109.29	108.20	1.09	100.701		
400.00	400.00	402.24	402.14	1.20	0.34	-167.64	-106.53	-23.35	109.06	107.52	1.54	70.995		
500.00	499.95	501.41	501.22	1.54	0.43	39.64	-107.65	-19.34	107.35	105.38	1.97	54.379		
600.00	599.63	601.23	600.93	1.89	0.53	40.07	-109.20	-15.14	102.02	99.61	2.41	42.270		
700.00	698.77	702.21	701.79	2.24	0.63	42.41	-110.07	-10.12	91.94	89.07	2.87	31.992		
800.00	797.08	800.97	800.40	2.63	0.72	47.98	-110.15	-4.84	77.58	74.23	3.35	23.161		
900.00	894.31	899.44	898.73	3.06	0.82	60.50	-109.36	0.30	60.66	56.79	3.87	15.685		
1,000.00	990.18	995.37	994.54	3.54	0.91	86.85	-107.66	5.02	47.24	42.81	4.43	10.659		
1,034.05	1,022.46	1,027.80	1,026.92	3.73	0.94	99.44	-107.03	6.58	46.01	41.37	4.63	9.935 CC, ES, SF		
1,100.00	1,084.43	1,090.09	1,089.11	4.08	1.00	124.08	-105.69	9.84	51.19	46.25	4.94	10.368		
1,200.00	1,176.81	1,183.24	1,182.02	4.69	1.10	150.70	-102.86	15.95	75.87	70.53	5.34	14.208		
1,286.90	1,255.36	1,261.25	1,259.71	5.28	1.19	163.39	-99.51	22.15	108.02	102.31	5.71	18.930		
1,300.00	1,267.08	1,272.83	1,271.24	5.38	1.20	164.77	-98.99	23.04	113.46	107.69	5.77	19.660		
1,400.00	1,356.49	1,361.19	1,359.26	6.11	1.30	172.12	-94.92	29.73	156.52	150.30	6.21	25.192		
1,500.00	1,445.90	1,449.02	1,446.70	6.86	1.40	176.45	-90.36	36.54	201.17	194.49	6.68	30.131		
1,600.00	1,535.31	1,536.65	1,533.85	7.63	1.50	179.44	-85.01	43.85	246.89	239.73	7.16	34.498		
1,700.00	1,624.72	1,623.67	1,620.34	8.42	1.61	-178.34	-79.23	51.68	293.14	285.50	7.65	38.341		
1,800.00	1,714.13	1,707.46	1,703.59	9.21	1.71	-176.80	-72.95	58.70	340.56	332.44	8.12	41.942		
1,900.00	1,803.54	1,795.60	1,791.21	10.00	1.81	-175.65	-66.20	65.45	388.54	379.91	8.63	45.036		
2,000.00	1,892.95	1,879.41	1,874.58	10.81	1.91	-174.89	-59.79	71.19	436.88	427.78	9.11	47.980		
2,100.00	1,982.36	1,966.80	1,961.56	11.61	2.01	-174.36	-52.97	76.28	485.76	476.15	9.61	50.555		
2,200.00	2,071.77	2,050.90	2,045.30	12.42	2.10	-174.01	-46.64	80.68	534.64	524.55	10.09	52.996		
2,300.00	2,161.18	2,135.54	2,129.59	13.23	2.19	-173.79	-39.83	84.19	584.31	573.74	10.57	55.279		
2,400.00	2,250.59	2,224.89	2,218.63	14.05	2.29	-173.65	-33.18	87.45	633.68	622.60	11.08	57.170		
2,500.00	2,340.00	2,309.76	2,303.16	14.86	2.38	-173.48	-26.51	91.08	683.18	671.61	11.58	59.022		
2,600.00	2,429.41	2,400.00	2,393.02	15.68	2.48	-173.29	-19.54	95.46	732.37	720.26	12.10	60.507		
2,700.00	2,518.82	2,484.46	2,477.11	16.50	2.59	-173.10	-12.93	99.95	781.51	768.91	12.60	62.022		
2,800.00	2,608.23	2,570.68	2,562.86	17.32	2.69	-172.87	-5.52	105.05	831.07	817.96	13.11	63.377		
2,900.00	2,697.64	2,658.81	2,650.46	18.14	2.80	-172.61	2.22	110.86	880.57	866.93	13.65	64.532		
3,000.00	2,787.05	2,749.54	2,740.53	18.96	2.92	-172.30	10.38	117.93	929.87	915.67	14.20	65.471		
3,100.00	2,876.46	2,840.83	2,831.10	19.78	3.05	-171.96	18.47	126.05	978.73	963.96	14.77	66.265		
3,200.00	2,965.87	2,926.83	2,916.37	20.60	3.17	-171.64	26.09	134.24	1,027.42	1,012.12	15.31	67.129		
3,300.00	3,055.28	3,006.14	2,994.93	21.42	3.28	-171.34	33.69	142.08	1,076.62	1,060.82	15.80	68.147		
3,400.00	3,144.69	3,091.84	3,079.76	22.25	3.40	-171.03	42.29	150.63	1,126.18	1,109.84	16.34	68.930		
3,500.00	3,234.10	3,174.99	3,162.09	23.07	3.52	-170.76	50.73	158.73	1,175.92	1,159.06	16.86	69.752		
3,600.00	3,323.51	3,260.24	3,246.52	23.90	3.65	-170.52	59.48	166.70	1,225.89	1,208.49	17.39	70.479		
3,700.00	3,412.92	3,347.79	3,333.25	24.72	3.77	-170.31	68.39	174.67	1,275.87	1,257.93	17.94	71.109		
3,800.00	3,502.33	3,436.86	3,421.57	25.55	3.89	-170.14	77.11	182.21	1,325.74	1,307.24	18.50	71.669		
3,900.00	3,591.74	3,530.84	3,514.84	26.37	4.01	-170.01	85.87	189.67	1,375.39	1,356.31	19.08	72.077		
4,000.00	3,681.15	3,628.50	3,611.91	27.20	4.14	-169.92	93.82	196.79	1,424.25	1,404.56	19.68	72.356		
4,100.00	3,770.56	3,712.95	3,695.90	28.02	4.24	-169.87	100.50	202.64	1,473.03	1,452.83	20.20	72.931		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - CP08D-04 H04 (EXISTING) - Existing Gyro - GYRO												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	-165.92	-96.54	-24.22	99.53				
100.00	100.00	102.61	102.61	0.12	0.07	-165.95	-96.25	-24.08	99.22	99.01	0.20	487.365	
200.00	200.00	202.83	202.82	0.48	0.16	-165.82	-95.49	-24.12	98.49	97.85	0.64	153.229	
300.00	300.00	302.82	302.81	0.84	0.25	-165.51	-94.55	-24.43	97.66	96.57	1.09	89.944	
400.00	400.00	402.82	402.81	1.20	0.33	-165.20	-93.60	-24.73	96.81	95.28	1.53	63.256	
500.00	499.95	502.26	502.25	1.54	0.42	44.60	-93.01	-24.76	94.36	92.41	1.96	48.155	
600.00	599.63	601.83	601.81	1.89	0.51	48.12	-92.84	-24.46	88.69	86.30	2.39	37.105	
700.00	698.77	700.95	700.93	2.24	0.59	55.23	-92.64	-24.38	80.32	77.48	2.84	28.315	
800.00	797.08	799.39	799.37	2.63	0.68	67.73	-92.20	-24.51	71.14	67.83	3.31	21.497	
900.00	894.31	896.20	896.18	3.06	0.76	86.69	-91.93	-24.64	65.70	61.87	3.83	17.169	
913.54	907.37	909.30	909.28	3.13	0.77	89.69	-91.94	-24.66	65.61	61.71	3.90	16.812 CC, ES	
1,000.00	990.18	992.52	992.50	3.54	0.85	109.66	-91.90	-24.53	69.90	65.53	4.37	16.000 SF	
1,100.00	1,084.43	1,086.96	1,086.94	4.08	0.93	129.71	-91.88	-24.03	86.89	82.02	4.87	17.847	
1,200.00	1,176.81	1,179.20	1,179.17	4.69	1.01	143.31	-92.35	-23.77	115.43	110.10	5.33	21.656	
1,286.90	1,255.36	1,257.90	1,257.87	5.28	1.08	150.91	-93.27	-24.05	147.30	141.57	5.73	25.706	
1,300.00	1,267.08	1,269.65	1,269.62	5.38	1.09	151.90	-93.41	-24.10	152.53	146.73	5.80	26.315	
1,400.00	1,356.49	1,359.21	1,359.17	6.11	1.17	157.65	-94.61	-24.64	193.51	187.27	6.24	31.002	
1,500.00	1,445.90	1,447.98	1,447.93	6.86	1.24	161.34	-95.82	-25.47	235.78	229.08	6.69	35.232	
1,600.00	1,535.31	1,536.42	1,536.36	7.63	1.32	163.93	-96.58	-26.55	279.13	271.99	7.15	39.052	
1,700.00	1,624.72	1,625.80	1,625.73	8.42	1.40	165.91	-97.08	-27.55	322.98	315.37	7.61	42.417	
1,800.00	1,714.13	1,715.48	1,715.41	9.21	1.48	167.45	-97.51	-28.39	367.03	358.94	8.09	45.377	
1,900.00	1,803.54	1,805.18	1,805.10	10.00	1.56	168.72	-97.77	-28.90	411.16	402.60	8.57	48.000	
2,000.00	1,892.95	1,892.52	1,892.45	10.81	1.63	169.78	-97.61	-29.17	455.61	446.58	9.03	50.447	
2,100.00	1,982.36	1,980.13	1,980.05	11.61	1.71	170.67	-97.14	-29.57	500.52	491.02	9.50	52.675	
2,200.00	2,071.77	2,069.30	2,069.22	12.42	1.79	171.41	-96.63	-30.20	545.66	535.67	9.99	54.645	
2,300.00	2,161.18	2,160.82	2,160.73	13.23	1.87	172.08	-96.11	-30.54	590.68	580.19	10.49	56.334	
2,400.00	2,250.59	2,252.38	2,252.29	14.05	1.95	172.65	-95.98	-30.65	635.31	624.33	10.99	57.821	
2,500.00	2,340.00	2,343.49	2,343.40	14.86	2.03	173.11	-96.21	-30.87	679.76	668.27	11.49	59.162	
2,600.00	2,429.41	2,435.07	2,434.98	15.68	2.11	173.55	-96.40	-30.58	723.99	712.00	12.00	60.358	
2,700.00	2,518.82	2,526.42	2,526.34	16.50	2.19	173.95	-96.77	-30.10	768.00	755.50	12.50	61.440	
2,800.00	2,608.23	2,615.18	2,615.09	17.32	2.26	174.30	-97.17	-29.53	811.94	798.95	12.99	62.502	
2,900.00	2,697.64	2,699.99	2,699.90	18.14	2.34	174.56	-97.41	-29.73	856.45	842.99	13.46	63.631	
3,000.00	2,787.05	2,784.86	2,784.76	18.96	2.41	174.76	-97.57	-30.64	901.46	887.53	13.93	64.709	
3,100.00	2,876.46	2,871.86	2,871.75	19.78	2.49	174.93	-97.71	-31.78	946.62	932.21	14.42	65.663	
3,200.00	2,965.87	2,960.23	2,960.11	20.60	2.57	175.08	-97.78	-33.15	991.97	977.06	14.91	66.525	
3,300.00	3,055.28	3,048.16	3,048.03	21.42	2.64	175.20	-97.93	-34.68	1,037.35	1,021.94	15.40	67.342	
3,400.00	3,144.69	3,138.19	3,138.05	22.25	2.72	175.31	-98.03	-36.40	1,082.85	1,066.94	15.91	68.057	
3,500.00	3,234.10	3,233.04	3,232.88	23.07	2.81	175.41	-98.60	-38.22	1,127.99	1,111.54	16.45	68.580	
3,600.00	3,323.51	3,325.26	3,325.07	23.90	2.89	175.48	-99.60	-39.94	1,172.75	1,155.78	16.97	69.110	
3,700.00	3,412.92	3,412.91	3,412.70	24.72	2.96	175.54	-100.53	-41.64	1,217.55	1,200.09	17.46	69.719	
3,800.00	3,502.33	3,507.03	3,506.80	25.55	3.05	175.61	-101.60	-43.29	1,262.23	1,244.23	18.00	70.135	
3,900.00	3,591.74	3,600.32	3,600.06	26.37	3.13	175.65	-103.09	-45.04	1,306.60	1,288.08	18.53	70.527	
4,000.00	3,681.15	3,692.52	3,692.22	27.20	3.21	175.67	-105.02	-47.08	1,350.77	1,331.72	19.05	70.904	
4,100.00	3,770.56	3,782.24	3,781.89	28.02	3.29	175.67	-107.10	-49.22	1,394.85	1,375.28	19.56	71.308	
4,200.00	3,859.97	3,868.30	3,867.91	28.85	3.37	175.68	-109.06	-51.39	1,439.02	1,418.97	20.05	71.772	
4,300.00	3,949.38	3,960.74	3,960.31	29.68	3.45	175.71	-110.60	-53.10	1,483.34	1,462.76	20.57	72.098	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - CP12D-03 H04 (EXISTING) - Existing Gyro - GYRO													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	1.00	1.00	0.00	0.00	-164.34	-115.54	-32.38	119.99					
100.00	100.00	100.91	100.90	0.12	0.07	-164.71	-115.78	-31.65	120.03	119.84	0.19	631.819		
200.00	200.00	200.00	199.98	0.48	0.16	-165.43	-116.56	-30.29	120.43	119.79	0.64	187.550		
300.00	300.00	299.74	299.70	0.84	0.25	-166.32	-117.88	-28.70	121.33	120.24	1.09	111.420		
400.00	400.00	397.75	397.66	1.20	0.34	-167.43	-120.22	-26.82	123.22	121.66	1.55	79.254		
500.00	499.95	497.02	496.86	1.54	0.43	40.79	-123.66	-25.11	124.26	122.27	1.99	62.465		
600.00	599.63	596.46	596.21	1.89	0.52	42.16	-127.54	-23.62	121.84	119.42	2.42	50.343		
700.00	698.77	696.16	695.82	2.24	0.62	45.43	-131.58	-22.12	115.90	113.04	2.86	40.478		
800.00	797.08	795.32	794.89	2.63	0.71	51.12	-135.55	-20.45	106.87	103.54	3.33	32.077		
900.00	894.31	893.67	893.13	3.06	0.81	59.98	-139.63	-18.16	96.09	92.24	3.84	25.000		
1,000.00	990.18	991.85	991.18	3.54	0.90	73.64	-143.40	-15.12	85.64	81.22	4.42	19.360		
1,100.00	1,084.43	1,089.15	1,088.36	4.08	0.99	93.41	-145.96	-11.07	79.64	74.56	5.08	15.674		
1,113.33	1,096.86	1,101.90	1,101.09	4.16	1.00	96.40	-146.18	-10.42	79.53	74.35	5.17	15.376 CC, ES		
1,200.00	1,176.81	1,181.83	1,180.91	4.69	1.08	114.99	-148.54	-6.85	85.91	80.25	5.66	15.167 SF		
1,286.90	1,255.36	1,261.71	1,260.66	5.28	1.16	130.30	-152.37	-4.21	104.10	98.03	6.07	17.139		
1,300.00	1,267.08	1,273.68	1,272.60	5.38	1.18	132.29	-152.99	-3.86	107.66	101.53	6.13	17.551		
1,400.00	1,356.49	1,365.76	1,364.51	6.11	1.27	144.03	-158.03	-1.36	138.22	131.66	6.56	21.076		
1,500.00	1,445.90	1,458.72	1,457.27	6.86	1.37	151.52	-163.48	1.34	172.00	165.00	7.00	24.584		
1,600.00	1,535.31	1,553.15	1,551.45	7.63	1.47	156.54	-169.66	4.47	206.86	199.40	7.46	27.716		
1,700.00	1,624.72	1,647.72	1,645.68	8.42	1.57	160.13	-176.53	8.43	241.65	233.71	7.94	30.428		
1,800.00	1,714.13	1,740.97	1,738.60	9.21	1.67	163.00	-182.78	13.27	276.76	268.35	8.41	32.909		
1,900.00	1,803.54	1,833.57	1,830.86	10.00	1.78	165.39	-188.39	18.79	312.32	303.44	8.88	35.185		
2,000.00	1,892.95	1,926.38	1,923.34	10.81	1.88	167.27	-194.03	24.09	348.39	339.04	9.35	37.243		
2,100.00	1,982.36	2,021.58	2,018.18	11.61	1.99	168.73	-200.59	29.28	384.30	374.44	9.86	38.974		
2,200.00	2,071.77	2,116.48	2,112.67	12.42	2.10	169.87	-207.71	34.40	419.96	409.59	10.37	40.499		
2,300.00	2,161.18	2,215.46	2,211.15	13.23	2.22	170.87	-215.73	40.26	455.01	444.10	10.91	41.703		
2,400.00	2,250.59	2,321.64	2,316.54	14.05	2.36	171.71	-226.50	47.37	488.15	476.65	11.50	42.435		
2,500.00	2,340.00	2,426.18	2,420.02	14.86	2.52	172.33	-239.27	54.95	519.46	507.37	12.09	42.982		
2,600.00	2,429.41	2,539.15	2,531.37	15.68	2.70	172.88	-255.58	64.69	548.29	535.57	12.72	43.113		
2,700.00	2,518.82	2,658.79	2,648.48	16.50	2.92	173.30	-276.93	76.66	573.66	560.28	13.38	42.868		
2,800.00	2,608.23	2,792.50	2,777.84	17.32	3.21	173.87	-305.26	95.02	594.24	580.14	14.10	42.154		
2,900.00	2,697.64	2,921.76	2,900.87	18.14	3.55	174.55	-337.38	118.18	609.31	594.55	14.76	41.283		
3,000.00	2,787.05	3,054.42	3,024.35	18.96	3.95	175.45	-375.12	148.53	618.06	602.66	15.40	40.125		
3,100.00	2,876.46	3,157.80	3,119.58	19.78	4.27	176.24	-405.97	174.36	624.65	608.70	15.95	39.168		
3,200.00	2,965.87	3,253.89	3,208.11	20.60	4.57	176.94	-434.67	198.25	631.39	614.91	16.48	38.319		
3,300.00	3,055.28	3,345.13	3,292.46	21.42	4.86	177.63	-461.03	220.91	639.14	622.15	17.00	37.604		
3,400.00	3,144.69	3,433.79	3,374.97	22.25	5.13	178.25	-485.76	241.93	648.54	631.03	17.51	37.032		
3,500.00	3,234.10	3,526.39	3,461.66	23.07	5.40	178.89	-510.35	263.27	659.59	641.54	18.05	36.548		
3,600.00	3,323.51	3,628.05	3,556.72	23.90	5.71	179.63	-537.07	287.43	670.59	651.97	18.62	36.012		
3,700.00	3,412.92	3,726.86	3,649.26	24.72	6.01	-179.70	-562.98	310.40	682.04	662.84	19.19	35.539		
3,800.00	3,502.33	3,843.23	3,757.60	25.55	6.39	-178.97	-595.23	338.04	691.92	672.09	19.83	34.895		
3,900.00	3,591.74	3,947.94	3,854.41	26.37	6.74	-178.35	-625.91	363.58	700.07	679.63	20.43	34.263		
4,000.00	3,681.15	4,042.82	3,942.16	27.20	7.05	-177.79	-653.55	386.72	708.47	687.45	21.01	33.716		
4,100.00	3,770.56	4,139.26	4,031.66	28.02	7.36	-177.26	-681.20	409.68	717.66	696.05	21.60	33.219		
4,200.00	3,859.97	4,241.11	4,126.13	28.85	7.70	-176.71	-710.49	433.99	726.80	704.58	22.22	32.711		
4,300.00	3,949.38	4,338.46	4,216.39	29.68	8.01	-176.24	-738.92	456.82	735.78	712.96	22.82	32.239		
4,400.00	4,038.79	4,432.16	4,303.50	30.50	8.32	-175.75	-765.32	479.09	745.65	722.23	23.43	31.830		
4,500.00	4,128.20	4,531.53	4,395.97	31.33	8.64	-175.27	-793.25	502.37	755.79	731.74	24.05	31.423		
4,600.00	4,217.61	4,627.21	4,485.08	32.16	8.94	-174.82	-820.10	524.61	766.12	741.45	24.67	31.056		
4,700.00	4,307.02	4,717.67	4,569.70	32.98	9.23	-174.47	-845.09	544.55	777.44	752.18	25.26	30.778		
4,800.00	4,396.43	4,812.71	4,658.94	33.81	9.52	-174.16	-870.86	564.67	789.65	763.79	25.86	30.531		
4,900.00	4,485.83	4,916.90	4,756.76	34.64	9.84	-173.90	-899.74	585.94	801.64	775.14	26.50	30.256		

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 Well:	UWF13C-03 H04 596	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

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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	4,575.24	5,013.96	4,848.00	35.47	10.13	-173.72	-926.82	605.00	813.78	786.69	27.09	30.036	
5,100.00	4,664.65	5,131.81	4,958.12	36.29	10.52	-173.48	-961.18	629.08	824.33	796.56	27.77	29.680	
5,200.00	4,754.06	5,231.89	5,051.32	37.12	10.84	-173.22	-990.58	650.63	834.27	805.86	28.40	29.371	
5,300.00	4,843.47	5,339.71	5,151.46	37.95	11.21	-172.93	-1,022.72	674.41	843.59	814.52	29.07	29.018	
5,400.00	4,932.88	5,438.80	5,243.05	38.78	11.54	-172.56	-1,052.41	697.82	852.13	822.39	29.73	28.659	
5,500.00	5,022.29	5,528.40	5,326.15	39.61	11.84	-172.21	-1,078.24	719.14	861.73	831.36	30.37	28.373	
5,600.00	5,111.70	5,627.11	5,417.90	40.43	12.16	-171.82	-1,106.17	742.51	871.95	840.90	31.05	28.082	
5,700.00	5,201.11	5,734.62	5,517.70	41.26	12.52	-171.44	-1,137.20	767.68	881.76	850.00	31.76	27.764	
5,800.00	5,290.52	5,840.57	5,615.75	42.09	12.88	-171.13	-1,169.14	792.02	890.49	858.04	32.45	27.442	
5,900.00	5,379.93	5,936.44	5,704.50	42.92	13.20	-170.87	-1,198.14	813.83	899.26	866.15	33.11	27.162	
6,000.00	5,469.34	6,024.92	5,786.60	43.75	13.49	-170.64	-1,224.44	833.71	908.68	874.94	33.74	26.935	
6,100.00	5,558.75	6,099.99	5,856.81	44.57	13.72	-170.46	-1,245.44	849.96	920.16	885.86	34.30	26.828	
6,200.00	5,648.16	6,184.29	5,936.28	45.40	13.97	-170.29	-1,267.57	867.31	933.74	898.85	34.88	26.768	
6,300.00	5,737.57	6,266.67	6,014.44	46.23	14.20	-170.15	-1,288.02	883.43	949.07	913.62	35.44	26.777	
6,400.00	5,826.98	6,359.51	6,102.89	47.06	14.46	-169.99	-1,309.85	901.27	965.78	929.72	36.06	26.781	
6,500.00	5,916.39	6,458.86	6,197.47	47.89	14.74	-169.78	-1,332.94	921.11	982.52	945.79	36.73	26.747	
6,600.00	6,005.80	6,558.33	6,292.16	48.72	15.02	-169.59	-1,356.19	940.78	999.22	961.82	37.40	26.718	
6,700.00	6,095.21	6,654.38	6,383.70	49.55	15.28	-169.47	-1,378.97	958.90	1,015.90	977.88	38.03	26.715	
6,800.00	6,184.62	6,746.85	6,471.96	50.37	15.53	-169.36	-1,400.54	976.06	1,033.07	994.44	38.63	26.741	
6,900.00	6,274.03	6,836.26	6,557.49	51.20	15.77	-169.27	-1,420.93	992.25	1,050.91	1,011.70	39.21	26.802	
7,000.00	6,363.44	6,923.08	6,640.85	52.03	15.99	-169.22	-1,440.05	1,007.20	1,069.79	1,030.03	39.76	26.908	
7,063.95	6,420.62	6,979.92	6,695.57	52.56	16.13	-169.21	-1,452.28	1,016.52	1,082.35	1,042.24	40.11	26.987	
7,100.00	6,453.00	7,012.74	6,727.22	52.86	16.21	-169.24	-1,459.26	1,021.74	1,089.25	1,048.94	40.30	27.025	
7,200.00	6,544.33	7,099.99	6,811.41	53.61	16.42	-169.31	-1,477.72	1,035.22	1,105.22	1,064.41	40.81	27.079	
7,300.00	6,637.66	7,187.57	6,896.26	54.29	16.61	-169.39	-1,495.89	1,047.09	1,117.14	1,075.87	41.27	27.067	
7,400.00	6,732.74	7,255.10	6,962.08	54.88	16.74	-169.47	-1,508.86	1,054.78	1,126.12	1,084.55	41.56	27.095	
7,500.00	6,829.31	7,322.28	7,027.96	55.39	16.86	-169.49	-1,519.74	1,062.08	1,132.98	1,091.17	41.81	27.096	
7,600.00	6,927.11	7,399.99	7,104.55	55.83	16.98	-169.46	-1,530.44	1,069.69	1,137.33	1,095.22	42.11	27.007	
7,700.00	7,025.86	7,470.94	7,174.70	56.19	17.09	-169.37	-1,538.56	1,076.59	1,138.77	1,096.42	42.34	26.895	
7,800.00	7,125.29	7,544.85	7,247.91	56.49	17.18	-169.17	-1,545.35	1,084.18	1,137.18	1,094.60	42.58	26.708	
7,900.00	7,225.14	7,625.69	7,328.24	56.72	17.28	-168.94	-1,551.21	1,091.03	1,132.79	1,089.95	42.84	26.440	
7,950.85	7,275.99	7,681.31	7,383.55	56.81	17.34	-17.35	-1,555.29	1,095.15	1,128.76	1,085.65	43.11	26.183	
7,979.74	7,304.88	7,711.17	7,413.25	56.85	17.38	106.44	-1,557.63	1,097.21	1,126.03	1,082.79	43.24	26.042	
8,000.00	7,325.14	7,730.37	7,432.35	56.88	17.40	106.48	-1,559.14	1,098.47	1,124.13	1,080.82	43.31	25.955	
8,100.00	7,425.13	7,823.31	7,524.86	57.03	17.50	106.65	-1,566.48	1,103.72	1,115.06	1,071.43	43.63	25.557	
8,200.00	7,525.13	7,911.17	7,612.39	57.19	17.58	106.77	-1,572.89	1,107.75	1,106.89	1,063.01	43.88	25.223	
8,300.00	7,625.13	7,999.98	7,700.94	57.35	17.66	106.89	-1,578.58	1,111.36	1,099.73	1,055.59	44.14	24.915	
8,400.00	7,725.13	8,090.43	7,791.18	57.51	17.74	107.01	-1,583.57	1,114.84	1,093.48	1,049.07	44.41	24.621	
8,500.00	7,825.13	8,190.64	7,891.19	57.67	17.83	107.16	-1,588.60	1,118.71	1,087.72	1,042.92	44.80	24.280	
8,600.00	7,925.13	8,270.65	7,971.07	57.83	17.88	107.27	-1,592.09	1,121.49	1,082.71	1,037.76	44.95	24.086	
8,700.00	8,025.13	8,352.66	8,053.04	57.99	17.92	107.33	-1,594.39	1,123.09	1,079.61	1,034.51	45.10	23.941	
8,800.00	8,125.13	8,436.88	8,137.24	58.16	17.96	107.34	-1,595.92	1,123.18	1,077.99	1,032.76	45.23	23.835	
8,858.75	8,183.88	8,486.14	8,186.50	58.26	17.97	107.33	-1,596.33	1,122.81	1,077.73	1,032.43	45.29	23.794	
8,900.00	8,225.12	8,524.75	8,225.10	58.33	17.98	107.31	-1,596.43	1,122.38	1,077.81	1,032.42	45.39	23.747	
9,000.00	8,325.12	8,625.01	8,325.35	58.50	18.02	107.26	-1,596.77	1,120.91	1,078.05	1,032.36	45.69	23.597	
9,100.00	8,425.12	8,725.72	8,426.05	58.67	18.05	107.19	-1,597.23	1,119.23	1,078.23	1,032.25	45.99	23.445	
9,200.00	8,525.12	8,826.35	8,526.67	58.84	18.08	107.14	-1,597.64	1,117.94	1,078.36	1,032.06	46.30	23.289	
9,300.00	8,625.12	8,927.37	8,627.68	59.02	18.12	107.10	-1,598.11	1,116.63	1,078.43	1,031.81	46.62	23.131	
9,400.00	8,725.12	9,028.38	8,728.67	59.19	18.15	107.01	-1,598.93	1,114.75	1,078.34	1,031.41	46.93	22.978	
9,434.25	8,759.37	9,061.67	8,761.95	59.25	18.16	106.99	-1,599.19	1,114.11	1,078.32	1,031.30	47.02	22.934	
9,500.00	8,825.12	9,125.87	8,826.14	59.37	18.18	106.94	-1,599.57	1,112.97	1,078.37	1,031.17	47.20	22.848	
9,600.00	8,925.12	9,224.26	8,924.51	59.55	18.21	106.88	-1,599.96	1,111.43	1,078.60	1,031.11	47.49	22.713	

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Reference Design:	PLAN #4	Offset TVD Reference:	Offset Datum

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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		
9,700.00	9,025.11	9,321.87	9,022.12	59.73	18.25	106.84	-1,600.10	1,110.24	1,078.96	1,031.18	47.78	22.582		
9,800.00	9,125.11	9,417.77	9,118.00	59.91	18.27	106.78	-1,599.95	1,108.58	1,079.75	1,031.71	48.04	22.475		
9,900.00	9,225.11	9,523.07	9,223.28	60.10	18.31	106.69	-1,600.15	1,106.28	1,080.35	1,031.94	48.41	22.317		
10,000.00	9,325.11	9,626.63	9,326.80	60.28	18.34	106.58	-1,600.70	1,103.76	1,080.71	1,031.96	48.75	22.169		
10,100.00	9,425.11	9,736.43	9,436.54	60.47	18.38	106.42	-1,602.39	1,100.60	1,080.21	1,031.07	49.15	21.980		
10,200.00	9,525.11	9,837.95	9,537.99	60.66	18.42	106.24	-1,604.59	1,097.17	1,079.30	1,029.86	49.44	21.832		
10,300.00	9,625.11	9,936.46	9,636.37	60.85	18.45	106.01	-1,607.03	1,092.96	1,078.36	1,028.69	49.67	21.708		
10,400.00	9,725.11	10,031.64	9,731.40	61.04	18.48	105.75	-1,609.34	1,088.08	1,077.76	1,027.90	49.87	21.613		
10,461.92	9,787.03	10,089.84	9,789.48	61.16	18.49	105.57	-1,610.65	1,084.65	1,077.65	1,027.68	49.97	21.566		
10,500.00	9,825.10	10,127.21	9,826.77	61.24	18.50	105.45	-1,611.46	1,082.27	1,077.67	1,027.63	50.05	21.533		
10,600.00	9,925.10	10,227.92	9,927.20	61.43	18.53	105.08	-1,613.88	1,075.14	1,077.76	1,027.48	50.27	21.439		
10,700.00	10,025.10	10,332.43	10,031.31	61.63	18.55	104.62	-1,617.09	1,066.59	1,077.63	1,027.11	50.52	21.330		
10,800.00	10,125.10	10,437.60	10,136.02	61.82	18.58	104.13	-1,621.07	1,057.64	1,076.99	1,026.22	50.78	21.210		
10,900.00	10,225.10	10,539.70	10,237.58	62.02	18.61	103.60	-1,625.55	1,048.16	1,076.13	1,025.14	51.00	21.102		
11,000.00	10,325.10	10,638.98	10,336.29	62.23	18.64	103.06	-1,630.24	1,038.64	1,075.14	1,023.95	51.19	21.002		
11,021.90	10,346.99	10,651.98	10,349.21	62.27	18.65	102.99	-1,630.85	1,037.37	1,075.00	1,023.86	51.14	21.020		
11,100.00	10,425.10	10,651.98	10,349.21	62.43	18.65	102.99	-1,630.85	1,037.37	1,077.84	1,027.48	50.36	21.404		
11,200.00	10,525.10	10,651.98	10,349.21	62.63	18.65	102.99	-1,630.85	1,037.37	1,089.66	1,040.57	49.09	22.199		
11,300.00	10,625.09	10,651.98	10,349.21	62.84	18.65	102.99	-1,630.85	1,037.37	1,110.39	1,062.83	47.56	23.345		
11,400.00	10,725.09	10,651.98	10,349.21	63.04	18.65	102.99	-1,630.85	1,037.37	1,139.56	1,093.70	45.86	24.849		
11,500.00	10,825.09	10,651.98	10,349.21	63.25	18.65	102.99	-1,630.85	1,037.37	1,176.53	1,132.48	44.04	26.713		
11,540.89	10,865.98	10,651.98	10,349.21	63.34	18.65	102.99	-1,630.85	1,037.37	1,193.73	1,150.44	43.28	27.578		
11,600.00	10,925.09	10,651.98	10,349.21	63.46	18.65	102.99	-1,630.85	1,037.37	1,220.59	1,178.41	42.18	28.936		
11,700.00	11,025.09	10,651.98	10,349.21	63.67	18.65	102.99	-1,630.85	1,037.37	1,271.01	1,230.67	40.33	31.513		
11,800.00	11,125.09	10,651.98	10,349.21	63.88	18.65	102.99	-1,630.85	1,037.37	1,327.06	1,288.52	38.54	34.433		
11,900.00	11,225.09	10,651.98	10,349.21	64.09	18.65	102.99	-1,630.85	1,037.37	1,388.06	1,351.22	36.84	37.682		
12,000.00	11,325.09	10,651.98	10,349.21	64.31	18.65	102.99	-1,630.85	1,037.37	1,453.38	1,418.14	35.24	41.239		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF02A-09 H04 596 - DD - Plan #2													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	-145.81	-26.49	-17.99	32.02					
100.00	100.00	100.00	100.00	0.12	0.12	-145.81	-26.49	-17.99	32.02	31.78	0.24	135.087		
104.10	104.10	104.10	104.10	0.13	0.12	-145.81	-26.49	-17.99	32.02	31.76	0.26	123.685	CC	
200.00	200.00	199.52	199.52	0.48	0.29	-144.87	-26.49	-18.63	32.39	31.60	0.79	41.015	ES	
300.00	300.00	298.30	298.15	0.84	0.49	-138.12	-26.49	-23.75	35.62	34.18	1.44	24.714		
400.00	400.00	396.29	395.61	1.20	0.74	-128.04	-26.49	-33.85	43.20	41.02	2.18	19.780		
500.00	499.95	492.74	490.90	1.54	1.06	92.21	-26.49	-48.66	56.20	53.24	2.96	19.001	SF	
600.00	599.63	586.52	582.73	1.89	1.45	103.77	-26.49	-67.66	76.58	72.89	3.69	20.757		
700.00	698.77	676.72	670.07	2.24	1.89	112.65	-26.49	-90.16	105.55	101.19	4.36	24.227		
800.00	797.08	762.57	752.12	2.63	2.39	118.80	-26.49	-115.39	142.98	137.99	4.99	28.671		
900.00	894.31	843.48	828.34	3.06	2.93	122.88	-26.49	-142.52	188.25	182.64	5.61	33.578		
1,000.00	990.18	919.03	898.42	3.54	3.48	125.51	-26.49	-170.74	240.67	234.44	6.23	38.658		
1,100.00	1,084.43	988.99	962.27	4.08	4.05	127.08	-26.49	-199.33	299.54	292.69	6.85	43.757		
1,200.00	1,176.81	1,053.25	1,019.95	4.69	4.62	127.85	-26.49	-227.63	364.19	356.73	7.47	48.784		
1,286.90	1,255.36	1,100.00	1,061.30	5.28	5.05	127.79	-26.49	-249.43	424.62	416.62	8.01	53.032		
1,300.00	1,267.08	1,111.84	1,071.69	5.38	5.17	128.28	-26.49	-255.11	434.00	425.92	8.08	53.703		
1,400.00	1,356.49	1,166.45	1,119.14	6.11	5.72	130.13	-26.49	-282.15	507.01	498.35	8.67	58.512		
1,500.00	1,445.90	1,218.20	1,163.37	6.86	6.27	131.45	-26.49	-309.01	582.01	572.78	9.23	63.078		
1,600.00	1,535.31	1,267.26	1,204.61	7.63	6.82	132.40	-26.49	-335.57	658.72	648.94	9.77	67.416		
1,700.00	1,624.72	1,313.75	1,243.06	8.42	7.35	133.10	-26.49	-361.71	736.94	726.66	10.29	71.627		
1,800.00	1,714.13	1,364.08	1,283.98	9.21	7.94	133.67	-26.51	-391.02	816.51	805.69	10.82	75.429		
1,900.00	1,803.54	1,466.02	1,367.45	10.00	9.08	134.39	-29.23	-449.46	894.90	883.13	11.77	76.033		
2,000.00	1,892.95	1,581.21	1,463.65	10.81	10.30	134.73	-37.64	-512.21	970.12	957.19	12.93	75.022		
2,100.00	1,982.36	1,711.37	1,574.36	11.61	11.59	134.71	-53.92	-578.65	1,041.51	1,027.19	14.32	72.729		
2,200.00	2,071.77	1,858.17	1,701.13	12.42	12.92	134.35	-80.81	-647.53	1,108.32	1,092.37	15.95	69.470		
2,300.00	2,161.18	2,022.92	1,844.94	13.23	14.30	133.64	-121.56	-716.70	1,169.68	1,151.85	17.83	65.595		
2,400.00	2,250.59	2,206.20	2,005.56	14.05	15.69	132.56	-179.69	-782.93	1,224.64	1,204.70	19.94	61.427		
2,500.00	2,340.00	2,407.38	2,180.95	14.86	17.06	131.08	-258.37	-841.96	1,272.23	1,250.01	22.23	57.235		
2,600.00	2,429.41	2,624.14	2,366.67	15.68	18.41	129.17	-359.59	-888.82	1,311.58	1,286.94	24.64	53.220		
2,700.00	2,518.82	2,852.23	2,555.91	16.50	19.75	126.80	-483.12	-918.74	1,342.05	1,314.94	27.11	49.505		
2,800.00	2,608.23	2,991.95	2,667.93	17.32	20.59	125.19	-566.11	-927.82	1,365.52	1,336.58	28.94	47.190		
2,900.00	2,697.64	3,085.68	2,742.71	18.14	21.18	124.12	-622.37	-933.14	1,388.95	1,358.48	30.47	45.581		
3,000.00	2,787.05	3,179.41	2,817.49	18.96	21.80	123.09	-678.63	-938.46	1,412.85	1,380.83	32.02	44.121		
3,100.00	2,876.46	3,273.15	2,892.27	19.78	22.45	122.09	-734.89	-943.77	1,437.21	1,403.62	33.58	42.796		
3,200.00	2,965.87	3,366.88	2,967.05	20.60	23.13	121.13	-791.15	-949.09	1,461.98	1,426.83	35.15	41.588		
3,300.00	3,055.28	3,460.61	3,041.83	21.42	23.82	120.19	-847.41	-954.40	1,487.16	1,450.43	36.73	40.486		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF02B-09 H04 596 - DD - Plan #2													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				
0.00	0.00	0.00	0.00	0.00	0.00	-150.25	-35.58	-20.34	40.99							
100.00	100.00	100.00	100.00	0.12	0.12	-150.25	-35.58	-20.34	40.99	40.75	0.24	172.919				
200.00	200.00	200.00	200.00	0.48	0.29	-150.25	-35.58	-20.34	40.99	40.22	0.77	53.227				
300.00	300.00	300.00	300.00	0.84	0.47	-150.25	-35.58	-20.34	40.99	39.68	1.30	31.455				
400.00	400.00	400.00	400.00	1.20	0.64	-150.25	-35.58	-20.34	40.99	39.15	1.84	22.323				
500.00	499.95	499.95	499.95	1.54	0.81	61.56	-35.58	-20.34	39.67	37.32	2.35	16.852				
600.00	599.63	599.63	599.63	1.89	0.99	72.48	-35.58	-20.34	36.59	33.72	2.87	12.751				
700.00	698.77	700.34	700.29	2.24	1.17	91.67	-35.58	-17.70	32.60	29.16	3.44	9.475				
796.68	793.84	797.27	796.92	2.62	1.36	120.00	-35.58	-10.16	29.94	25.87	4.08	7.344 CC				
800.00	797.08	800.59	800.22	2.63	1.37	121.15	-35.58	-9.81	29.95	25.85	4.10	7.307 ES, SF				
900.00	894.31	899.96	898.73	3.06	1.61	156.26	-35.58	3.17	35.58	30.87	4.70	7.564				
1,000.00	990.18	998.13	995.54	3.54	1.88	179.51	-36.53	19.38	52.40	47.11	5.29	9.907				
1,100.00	1,084.43	1,096.97	1,093.21	4.08	2.14	-172.47	-41.63	33.56	75.38	69.43	5.95	12.671				
1,200.00	1,176.81	1,196.51	1,191.60	4.69	2.41	-170.99	-51.20	45.20	100.80	94.19	6.61	15.247				
1,286.90	1,255.36	1,283.29	1,277.17	5.28	2.64	-172.06	-63.15	53.16	124.42	117.26	7.16	17.374				
1,300.00	1,267.08	1,296.39	1,290.06	5.38	2.68	-172.34	-65.25	54.18	128.06	120.82	7.25	17.672				
1,400.00	1,356.49	1,397.11	1,388.83	6.11	2.97	-175.01	-83.90	60.47	154.30	146.48	7.82	19.728				
1,500.00	1,445.90	1,498.73	1,487.66	6.86	3.30	-178.36	-107.22	63.99	177.97	169.60	8.37	21.261				
1,600.00	1,535.31	1,600.69	1,585.72	7.63	3.69	177.71	-135.10	64.65	199.55	190.61	8.94	22.328				
1,700.00	1,624.72	1,702.40	1,682.16	8.42	4.15	173.30	-167.31	62.44	219.61	210.01	9.59	22.888				
1,800.00	1,714.13	1,803.30	1,776.20	9.21	4.67	168.48	-203.50	57.44	238.87	228.43	10.44	22.886				
1,900.00	1,803.54	1,902.83	1,867.11	10.00	5.28	163.34	-243.24	49.76	258.12	246.58	11.54	22.371				
2,000.00	1,892.95	2,000.50	1,954.31	10.81	5.95	158.00	-286.04	39.61	278.19	265.27	12.92	21.535				
2,100.00	1,982.36	2,095.88	2,037.29	11.61	6.70	152.57	-331.36	27.21	299.90	285.35	14.55	20.610				
2,200.00	2,071.77	2,188.57	2,115.71	12.42	7.49	147.20	-378.64	12.83	324.02	307.65	16.37	19.793				
2,300.00	2,161.18	2,278.28	2,189.32	13.23	8.34	141.98	-427.31	-3.22	351.17	332.87	18.29	19.195				
2,400.00	2,250.59	2,364.77	2,258.02	14.05	9.21	137.03	-476.86	-20.66	381.80	361.62	20.18	18.922				
2,500.00	2,340.00	2,451.46	2,325.08	14.86	10.12	132.34	-528.43	-39.60	415.96	393.83	22.12	18.801				
2,600.00	2,429.41	2,539.26	2,392.89	15.68	11.05	128.22	-580.78	-58.86	452.64	428.63	24.01	18.854				
2,700.00	2,518.82	2,627.07	2,460.70	16.50	12.00	124.68	-633.12	-78.13	491.25	465.43	25.82	19.025				
2,800.00	2,608.23	2,714.87	2,528.52	17.32	12.96	121.61	-685.47	-97.40	531.36	503.79	27.57	19.271				
2,900.00	2,697.64	2,802.68	2,596.33	18.14	13.92	118.96	-737.82	-116.67	572.67	543.39	29.28	19.561				
3,000.00	2,787.05	2,890.48	2,664.14	18.96	14.89	116.64	-790.16	-135.93	614.92	583.99	30.94	19.877				
3,100.00	2,876.46	2,978.29	2,731.95	19.78	15.86	114.60	-842.51	-155.20	657.95	625.38	32.56	20.205				
3,200.00	2,965.87	3,066.09	2,799.76	20.60	16.84	112.81	-894.86	-174.47	701.60	667.43	34.16	20.537				
3,300.00	3,055.28	3,153.90	2,867.57	21.42	17.82	111.22	-947.20	-193.73	745.76	710.02	35.74	20.867				
3,400.00	3,144.69	3,241.70	2,935.38	22.25	18.81	109.80	-999.55	-213.00	790.36	753.06	37.30	21.192				
3,500.00	3,234.10	3,329.51	3,003.19	23.07	19.79	108.52	-1,051.90	-232.27	835.32	796.48	38.84	21.508				
3,600.00	3,323.51	3,417.31	3,071.00	23.90	20.78	107.38	-1,104.24	-251.54	880.58	840.21	40.37	21.814				
3,700.00	3,412.92	3,505.12	3,138.81	24.72	21.77	106.34	-1,156.59	-270.80	926.10	884.22	41.89	22.110				
3,800.00	3,502.33	3,592.92	3,206.62	25.55	22.77	105.40	-1,208.94	-290.07	971.85	928.46	43.40	22.395				
3,900.00	3,591.74	3,680.73	3,274.43	26.37	23.76	104.54	-1,261.28	-309.34	1,017.79	972.90	44.90	22.669				
4,000.00	3,681.15	3,768.53	3,342.25	27.20	24.75	103.75	-1,313.63	-328.60	1,063.90	1,017.51	46.39	22.932				
4,100.00	3,770.56	3,856.34	3,410.06	28.02	25.75	103.03	-1,365.98	-347.87	1,110.16	1,062.28	47.88	23.185				
4,200.00	3,859.97	3,944.14	3,477.87	28.85	26.75	102.36	-1,418.32	-367.14	1,156.55	1,107.18	49.37	23.427				
4,300.00	3,949.38	4,031.94	3,545.68	29.68	27.74	101.75	-1,470.67	-386.41	1,203.06	1,152.21	50.85	23.659				
4,400.00	4,038.79	4,119.75	3,613.49	30.50	28.74	101.18	-1,523.02	-405.67	1,249.66	1,197.33	52.33	23.882				
4,500.00	4,128.20	4,207.55	3,681.30	31.33	29.74	100.65	-1,575.36	-424.94	1,296.36	1,242.56	53.80	24.095				
4,600.00	4,217.61	4,295.36	3,749.11	32.16	30.74	100.16	-1,627.71	-444.21	1,343.14	1,287.86	55.27	24.300				
4,700.00	4,307.02	4,383.16	3,816.92	32.98	31.74	99.70	-1,680.06	-463.47	1,389.99	1,333.25	56.74	24.496				
4,800.00	4,396.43	4,470.97	3,884.73	33.81	32.74	99.27	-1,732.40	-482.74	1,436.91	1,378.70	58.21	24.684				
4,900.00	4,485.83	4,558.77	3,952.54	34.64	33.74	98.86	-1,784.75	-502.01	1,483.89	1,424.21	59.68	24.865				

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF02C-04 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	15.53	182.97	50.84	189.90					
100.00	100.00	100.00	100.00	0.12	0.12	15.53	182.97	50.84	189.90	189.67	0.24	801.191		
200.00	200.00	200.00	200.00	0.48	0.29	15.53	182.97	50.84	189.90	189.13	0.77	246.617		
216.67	216.67	216.67	216.67	0.54	0.32	15.53	182.97	50.84	189.90	189.04	0.86	221.109 CC		
300.00	300.00	300.00	300.00	0.84	0.47	15.53	182.97	50.84	189.90	188.60	1.30	145.739 ES		
400.00	400.00	395.18	395.14	1.20	0.64	14.91	184.66	49.18	191.16	189.31	1.85	103.105		
500.00	499.95	489.60	489.29	1.54	0.84	-138.67	189.69	44.26	197.03	194.59	2.44	80.705		
600.00	599.63	581.93	580.90	1.89	1.08	-142.36	197.81	36.31	210.19	207.10	3.09	68.123		
700.00	698.77	670.88	668.55	2.24	1.38	-146.86	208.61	25.73	231.70	227.92	3.78	61.280		
800.00	797.08	755.37	751.07	2.63	1.72	-151.43	221.57	13.04	262.39	257.90	4.49	58.462 SF		
900.00	894.31	836.97	829.96	3.06	2.09	-155.72	236.46	-1.55	302.36	297.23	5.13	58.934		
1,000.00	990.18	922.09	912.00	3.54	2.49	-159.61	252.67	-17.43	349.35	343.70	5.65	61.802		
1,100.00	1,084.43	1,004.37	991.30	4.08	2.89	-162.72	268.34	-32.78	402.02	395.88	6.14	65.486		
1,200.00	1,176.81	1,083.59	1,067.65	4.69	3.28	-165.20	283.43	-47.56	459.89	453.28	6.60	69.672		
1,286.90	1,255.36	1,149.78	1,131.44	5.28	3.60	-166.95	296.04	-59.91	514.06	507.07	6.99	73.558		
1,300.00	1,267.08	1,159.56	1,140.87	5.38	3.65	-167.26	297.90	-61.73	522.49	515.44	7.05	74.065		
1,400.00	1,356.49	1,234.25	1,212.86	6.11	4.02	-169.33	312.13	-75.67	587.12	579.66	7.47	78.642		
1,500.00	1,445.90	1,308.94	1,284.84	6.86	4.39	-171.01	326.35	-89.60	652.13	644.24	7.88	82.711		
1,600.00	1,535.31	1,383.62	1,356.82	7.63	4.76	-172.39	340.58	-103.53	717.41	709.09	8.31	86.318		
1,700.00	1,624.72	1,458.31	1,428.81	8.42	5.13	-173.55	354.80	-117.47	782.89	774.14	8.75	89.519		
1,800.00	1,714.13	1,533.00	1,500.79	9.21	5.50	-174.53	369.03	-131.40	848.53	839.34	9.19	92.364		
1,900.00	1,803.54	1,607.68	1,572.77	10.00	5.88	-175.37	383.26	-145.34	914.30	904.66	9.63	94.899		
2,000.00	1,892.95	1,682.37	1,644.76	10.81	6.25	-176.10	397.48	-159.27	980.16	970.07	10.09	97.160		
2,100.00	1,982.36	1,757.06	1,716.74	11.61	6.63	-176.74	411.71	-173.20	1,046.10	1,035.56	10.55	99.185		
2,200.00	2,071.77	1,831.74	1,788.72	12.42	7.00	-177.31	425.93	-187.14	1,112.11	1,101.10	11.01	101.005		
2,300.00	2,161.18	1,906.43	1,860.70	13.23	7.37	-177.81	440.16	-201.07	1,178.18	1,166.70	11.48	102.644		
2,400.00	2,250.59	1,981.12	1,932.69	14.05	7.75	-178.26	454.38	-215.00	1,244.29	1,232.34	11.95	104.126		
2,500.00	2,340.00	2,055.80	2,004.67	14.86	8.12	-178.66	468.61	-228.94	1,310.44	1,298.02	12.42	105.471		
2,600.00	2,429.41	2,130.49	2,076.65	15.68	8.50	-179.03	482.83	-242.87	1,376.62	1,363.72	12.90	106.694		
2,700.00	2,518.82	2,205.18	2,148.64	16.50	8.87	-179.36	497.06	-256.81	1,442.84	1,429.45	13.38	107.810		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF02D-04 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	12.63	184.99	41.46	189.58					
100.00	100.00	100.00	100.00	0.12	0.12	12.63	184.99	41.46	189.58	189.34	0.24	799.837		
116.67	116.67	116.67	116.67	0.18	0.15	12.63	184.99	41.46	189.58	189.26	0.33	581.791	CC	
200.00	200.00	200.00	200.00	0.48	0.29	12.63	184.99	41.46	189.58	188.81	0.77	246.201	ES	
300.00	300.00	295.68	295.64	0.84	0.47	11.99	186.51	39.60	190.71	189.38	1.33	143.585		
400.00	400.00	390.88	390.56	1.20	0.68	10.11	191.01	34.06	194.25	192.31	1.94	100.217		
500.00	499.95	484.75	483.70	1.54	0.94	-144.51	198.37	25.02	202.72	200.12	2.60	78.005		
600.00	599.63	575.91	573.48	1.89	1.26	-148.86	208.26	12.85	219.16	215.84	3.32	66.022		
700.00	698.77	664.03	659.48	2.24	1.62	-153.67	220.38	-2.03	244.57	240.53	4.04	60.466		
800.00	797.08	755.62	748.51	2.63	2.01	-158.37	233.97	-18.74	277.66	273.02	4.64	59.838	SF	
900.00	894.31	845.04	835.43	3.06	2.40	-162.28	247.24	-35.05	317.02	311.83	5.19	61.070		
1,000.00	990.18	932.05	919.99	3.54	2.78	-165.49	260.15	-50.91	362.22	356.51	5.71	63.443		
1,100.00	1,084.43	1,016.40	1,001.98	4.08	3.16	-168.10	272.66	-66.30	412.83	406.63	6.20	66.538		
1,200.00	1,176.81	1,097.87	1,081.16	4.69	3.52	-170.21	284.75	-81.16	468.49	461.81	6.68	70.099		
1,286.90	1,255.36	1,166.14	1,147.52	5.28	3.83	-171.73	294.88	-93.61	520.70	513.61	7.09	73.427		
1,300.00	1,267.08	1,176.25	1,157.35	5.38	3.87	-171.98	296.38	-95.45	528.83	521.67	7.16	73.850		
1,400.00	1,356.49	1,253.41	1,232.35	6.11	4.22	-173.67	307.83	-109.52	591.08	583.48	7.60	77.780		
1,500.00	1,445.90	1,330.57	1,307.34	6.86	4.56	-175.04	319.28	-123.60	653.59	645.54	8.05	81.213		
1,600.00	1,535.31	1,407.74	1,382.34	7.63	4.91	-176.18	330.73	-137.67	716.30	707.79	8.51	84.214		
1,700.00	1,624.72	1,484.90	1,457.34	8.42	5.26	-177.13	342.18	-151.74	779.15	770.18	8.97	86.843		
1,800.00	1,714.13	1,562.06	1,532.34	9.21	5.60	-177.95	353.63	-165.81	842.12	832.67	9.45	89.154		
1,900.00	1,803.54	1,639.22	1,607.34	10.00	5.95	-178.65	365.08	-179.89	905.17	895.25	9.93	91.191		
2,000.00	1,892.95	1,716.38	1,682.34	10.81	6.30	-179.27	376.53	-193.96	968.30	957.89	10.41	92.995		
2,100.00	1,982.36	1,793.55	1,757.34	11.61	6.65	-179.80	387.98	-208.03	1,031.49	1,020.58	10.90	94.598		
2,200.00	2,071.77	1,870.71	1,832.34	12.42	6.99	-179.72	399.42	-222.11	1,094.72	1,083.32	11.40	96.029		
2,300.00	2,161.18	1,947.87	1,907.34	13.23	7.34	-179.29	410.87	-236.18	1,158.00	1,146.10	11.90	97.310		
2,400.00	2,250.59	2,025.03	1,982.33	14.05	7.69	-178.91	422.32	-250.25	1,221.31	1,208.91	12.40	98.462		
2,500.00	2,340.00	2,102.19	2,057.33	14.86	8.04	-178.57	433.77	-264.32	1,284.65	1,271.74	12.91	99.503		
2,600.00	2,429.41	2,179.36	2,132.33	15.68	8.39	-178.26	445.22	-278.40	1,348.02	1,334.60	13.42	100.445		
2,700.00	2,518.82	2,256.52	2,207.33	16.50	8.73	-177.97	456.67	-292.47	1,411.40	1,397.47	13.93	101.301		
2,800.00	2,608.23	2,333.68	2,282.33	17.32	9.08	-177.71	468.12	-306.54	1,474.81	1,460.36	14.45	102.083		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF02E-04 H04 596 - DD - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	12.25	165.77	35.98	169.63					
100.00	100.00	100.00	100.00	0.12	0.12	12.25	165.77	35.98	169.63	169.40	0.24	715.674		
200.00	200.00	200.00	200.00	0.48	0.29	12.25	165.77	35.98	169.63	168.86	0.77	220.294		
300.00	300.00	300.00	300.00	0.84	0.47	12.25	165.77	35.98	169.63	168.33	1.30	130.183		
400.00	400.00	400.00	400.00	1.20	0.64	12.25	165.77	35.98	169.63	167.80	1.84	92.391 CC, ES		
500.00	499.95	500.13	500.08	1.54	0.82	-140.61	166.23	33.40	171.57	169.21	2.36	72.682		
600.00	599.63	598.93	598.57	1.89	1.02	-144.57	167.57	25.79	177.98	175.07	2.91	61.131		
700.00	698.77	690.59	689.51	2.24	1.26	-149.85	170.70	14.80	191.61	188.07	3.54	54.142		
800.00	797.08	778.46	776.12	2.63	1.54	-155.49	176.50	1.28	215.00	210.76	4.24	50.723		
900.00	894.31	865.55	861.36	3.06	1.84	-160.90	184.65	-14.65	248.29	243.39	4.91	50.603 SF		
1,000.00	990.18	954.27	948.08	3.54	2.17	-165.52	193.32	-31.26	288.79	283.28	5.50	52.479		
1,100.00	1,084.43	1,040.55	1,032.41	4.08	2.51	-169.17	201.75	-47.42	335.35	329.29	6.07	55.284		
1,200.00	1,176.81	1,124.13	1,114.10	4.69	2.83	-172.04	209.92	-63.07	387.41	380.81	6.61	58.647		
1,286.90	1,255.36	1,194.40	1,182.78	5.28	3.11	-174.04	216.79	-76.23	436.75	429.69	7.06	61.835		
1,300.00	1,267.08	1,204.82	1,192.97	5.38	3.15	-174.34	217.81	-78.19	444.47	437.33	7.14	62.251		
1,400.00	1,356.49	1,284.35	1,270.71	6.11	3.47	-176.31	225.59	-93.08	503.59	495.96	7.63	65.977		
1,500.00	1,445.90	1,363.89	1,348.45	6.86	3.79	-177.88	233.36	-107.98	563.03	554.90	8.13	69.222		
1,600.00	1,535.31	1,443.43	1,426.19	7.63	4.11	-179.16	241.14	-122.88	622.70	614.06	8.64	72.050		
1,700.00	1,624.72	1,522.96	1,503.93	8.42	4.43	179.79	248.91	-137.77	682.53	673.38	9.16	74.520		
1,800.00	1,714.13	1,602.50	1,581.67	9.21	4.76	178.90	256.69	-152.67	742.49	732.81	9.68	76.686		
1,900.00	1,803.54	1,682.04	1,659.42	10.00	5.08	178.15	264.46	-167.56	802.55	792.34	10.21	78.590		
2,000.00	1,892.95	1,761.57	1,737.16	10.81	5.41	177.49	272.24	-182.46	862.69	851.94	10.75	80.273		
2,100.00	1,982.36	1,841.11	1,814.90	11.61	5.73	176.93	280.01	-197.36	922.89	911.60	11.29	81.767		
2,200.00	2,071.77	1,920.65	1,892.64	12.42	6.06	176.43	287.79	-212.25	983.14	971.30	11.83	83.099		
2,300.00	2,161.18	2,000.18	1,970.38	13.23	6.38	175.99	295.56	-227.15	1,043.43	1,031.05	12.38	84.292		
2,400.00	2,250.59	2,079.72	2,048.12	14.05	6.71	175.60	303.34	-242.05	1,103.75	1,090.82	12.93	85.365		
2,500.00	2,340.00	2,159.26	2,125.86	14.86	7.04	175.24	311.11	-256.94	1,164.11	1,150.62	13.48	86.333		
2,600.00	2,429.41	2,238.79	2,203.61	15.68	7.36	174.92	318.89	-271.84	1,224.49	1,210.45	14.04	87.210		
2,700.00	2,518.82	2,318.33	2,281.35	16.50	7.69	174.64	326.66	-286.74	1,284.89	1,270.29	14.60	88.008		
2,800.00	2,608.23	2,397.87	2,359.09	17.32	8.02	174.37	334.44	-301.63	1,345.32	1,330.16	15.16	88.737		
2,900.00	2,697.64	2,477.40	2,436.83	18.14	8.34	174.13	342.21	-316.53	1,405.75	1,390.03	15.72	89.404		
3,000.00	2,787.05	2,556.94	2,514.57	18.96	8.67	173.91	349.99	-331.42	1,466.21	1,449.92	16.29	90.016		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04A-10 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	-163.20	-28.51	-8.60	29.78					
100.00	100.00	100.00	100.00	0.12	0.12	-163.20	-28.51	-8.60	29.78	29.54	0.24	125.625		
200.00	200.00	200.00	200.00	0.48	0.29	-163.20	-28.51	-8.60	29.78	29.01	0.77	38.669		
203.69	203.69	203.69	203.69	0.49	0.30	-163.20	-28.51	-8.60	29.78	28.99	0.79	37.705 CC		
300.00	300.00	299.40	299.39	0.84	0.47	-163.98	-29.09	-8.35	30.28	28.95	1.32	22.895 ES		
400.00	400.00	397.93	397.78	1.20	0.66	-169.32	-33.78	-6.37	34.44	32.47	1.97	17.458		
500.00	499.95	495.96	495.28	1.54	0.89	33.56	-43.07	-2.43	41.20	38.54	2.66	15.473		
600.00	599.63	593.61	591.76	1.89	1.20	30.08	-56.88	3.44	48.37	45.00	3.36	14.382		
700.00	698.77	690.89	686.98	2.24	1.58	28.00	-75.15	11.18	55.75	51.68	4.08	13.676		
800.00	797.08	787.80	780.72	2.63	2.04	26.84	-97.75	20.77	63.25	58.45	4.80	13.177		
900.00	894.31	884.35	872.75	3.06	2.58	26.33	-124.60	32.16	70.81	65.27	5.54	12.787		
1,000.00	990.18	980.56	962.87	3.54	3.21	26.26	-155.57	45.30	78.38	72.09	6.30	12.450		
1,100.00	1,084.43	1,076.42	1,050.87	4.08	3.91	26.51	-190.56	60.15	85.96	78.87	7.09	12.132		
1,200.00	1,176.81	1,171.96	1,136.57	4.69	4.69	27.01	-229.42	76.63	93.52	85.60	7.92	11.811		
1,286.90	1,255.36	1,254.72	1,209.02	5.28	5.43	27.60	-266.24	92.25	100.08	91.39	8.69	11.518		
1,300.00	1,267.08	1,267.18	1,219.77	5.38	5.54	27.70	-272.03	94.71	101.10	92.30	8.81	11.480		
1,400.00	1,356.49	1,364.44	1,302.64	6.11	6.45	28.00	-318.88	114.59	110.90	101.25	9.65	11.497		
1,500.00	1,445.90	1,463.90	1,387.11	6.86	7.39	28.15	-367.24	135.10	121.21	110.76	10.45	11.595		
1,600.00	1,535.31	1,563.37	1,471.58	7.63	8.33	28.28	-415.59	155.62	131.53	120.24	11.29	11.649		
1,700.00	1,624.72	1,662.84	1,556.04	8.42	9.27	28.39	-463.94	176.13	141.84	129.69	12.15	11.672		
1,800.00	1,714.13	1,762.30	1,640.51	9.21	10.21	28.48	-512.29	196.64	152.16	139.13	13.03	11.675		
1,900.00	1,803.54	1,861.77	1,724.98	10.00	11.16	28.56	-560.65	217.16	162.48	148.55	13.93	11.665		
2,000.00	1,892.95	1,961.24	1,809.45	10.81	12.11	28.63	-609.00	237.67	172.79	157.95	14.84	11.645		
2,100.00	1,982.36	2,060.70	1,893.91	11.61	13.05	28.70	-657.35	258.18	183.11	167.35	15.76	11.619		
2,200.00	2,071.77	2,160.17	1,978.38	12.42	14.00	28.75	-705.70	278.70	193.43	176.74	16.69	11.589		
2,300.00	2,161.18	2,259.63	2,062.85	13.23	14.95	28.80	-754.06	299.21	203.74	186.11	17.63	11.557		
2,400.00	2,250.59	2,359.10	2,147.32	14.05	15.90	28.85	-802.41	319.73	214.06	195.49	18.58	11.523		
2,500.00	2,340.00	2,458.57	2,231.78	14.86	16.85	28.89	-850.76	340.24	224.38	204.85	19.53	11.490		
2,600.00	2,429.41	2,558.03	2,316.25	15.68	17.80	28.93	-899.11	360.75	234.70	214.21	20.49	11.456		
2,700.00	2,518.82	2,657.50	2,400.72	16.50	18.75	28.97	-947.47	381.27	245.02	223.57	21.45	11.424		
2,800.00	2,608.23	2,756.96	2,485.19	17.32	19.70	29.00	-995.82	401.78	255.33	232.92	22.41	11.391		
2,900.00	2,697.64	2,856.43	2,569.65	18.14	20.65	29.03	-1,044.17	422.29	265.65	242.27	23.38	11.360		
3,000.00	2,787.05	2,955.90	2,654.12	18.96	21.60	29.06	-1,092.52	442.81	275.97	251.61	24.36	11.330		
3,100.00	2,876.46	3,055.36	2,738.59	19.78	22.55	29.08	-1,140.88	463.32	286.29	260.96	25.33	11.301		
3,200.00	2,965.87	3,154.83	2,823.06	20.60	23.50	29.11	-1,189.23	483.83	296.61	270.30	26.31	11.273		
3,300.00	3,055.28	3,254.30	2,907.52	21.42	24.45	29.13	-1,237.58	504.35	306.93	279.63	27.29	11.246		
3,400.00	3,144.69	3,353.76	2,991.99	22.25	25.40	29.15	-1,285.93	524.86	317.24	288.97	28.27	11.220		
3,500.00	3,234.10	3,453.23	3,076.46	23.07	26.35	29.17	-1,334.28	545.38	327.56	298.30	29.26	11.195		
3,600.00	3,323.51	3,552.69	3,160.93	23.90	27.30	29.19	-1,382.64	565.89	337.88	307.64	30.25	11.171		
3,700.00	3,412.92	3,652.16	3,245.39	24.72	28.25	29.20	-1,430.99	586.40	348.20	316.97	31.23	11.148		
3,800.00	3,502.33	3,751.63	3,329.86	25.55	29.20	29.22	-1,479.34	606.92	358.52	326.30	32.22	11.126		
3,900.00	3,591.74	3,851.09	3,414.33	26.37	30.16	29.24	-1,527.69	627.43	368.84	335.62	33.21	11.105		
4,000.00	3,681.15	3,950.56	3,498.80	27.20	31.11	29.25	-1,576.05	647.94	379.16	344.95	34.20	11.085		
4,100.00	3,770.56	4,050.02	3,583.26	28.02	32.06	29.26	-1,624.40	668.46	389.47	354.28	35.20	11.066		
4,200.00	3,859.97	4,149.49	3,667.73	28.85	33.01	29.28	-1,672.75	688.97	399.79	363.60	36.19	11.047		
4,300.00	3,949.38	4,248.96	3,752.20	29.68	33.96	29.29	-1,721.10	709.48	410.11	372.93	37.18	11.029		
4,400.00	4,038.79	4,348.42	3,836.67	30.50	34.91	29.30	-1,769.46	730.00	420.43	382.25	38.18	11.012		
4,500.00	4,128.20	4,447.89	3,921.13	31.33	35.86	29.31	-1,817.81	750.51	430.75	391.57	39.17	10.996		
4,600.00	4,217.61	4,547.36	4,005.60	32.16	36.81	29.32	-1,866.16	771.02	441.07	400.90	40.17	10.980		
4,700.00	4,307.02	4,646.82	4,090.07	32.98	37.77	29.33	-1,914.51	791.54	451.39	410.22	41.17	10.964		
4,800.00	4,396.43	4,746.29	4,174.53	33.81	38.72	29.34	-1,962.87	812.05	461.71	419.54	42.17	10.950		
4,900.00	4,485.83	4,845.75	4,259.00	34.64	39.67	29.35	-2,011.22	832.57	472.02	428.86	43.17	10.935		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04A-10 H04 596 - DD - Plan #2												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	4,575.24	4,945.22	4,343.47	35.47	40.62	29.36	-2,059.57	853.08	482.34	438.18	44.16	10.922	
5,100.00	4,664.65	5,044.69	4,427.94	36.29	41.57	29.37	-2,107.92	873.59	492.66	447.50	45.16	10.908	
5,200.00	4,754.06	5,144.15	4,512.40	37.12	42.52	29.38	-2,156.28	894.11	502.98	456.82	46.16	10.896	
5,300.00	4,843.47	5,243.62	4,596.87	37.95	43.48	29.38	-2,204.63	914.62	513.30	466.14	47.16	10.883	
5,400.00	4,932.88	5,343.08	4,681.34	38.78	44.43	29.39	-2,252.98	935.13	523.62	475.45	48.16	10.871	
5,500.00	5,022.29	5,442.55	4,765.81	39.61	45.38	29.40	-2,301.33	955.65	533.94	484.77	49.17	10.860	
5,600.00	5,111.70	5,542.02	4,850.27	40.43	46.33	29.41	-2,349.69	976.16	544.26	494.09	50.17	10.849	
5,700.00	5,201.11	5,641.48	4,934.74	41.26	47.28	29.41	-2,398.04	996.67	554.57	503.41	51.17	10.838	
5,800.00	5,290.52	5,740.95	5,019.21	42.09	48.23	29.42	-2,446.39	1,017.19	564.89	512.72	52.17	10.828	
5,900.00	5,379.93	5,840.42	5,103.68	42.92	49.19	29.43	-2,494.74	1,037.70	575.21	522.04	53.17	10.818	
6,000.00	5,469.34	5,939.88	5,188.14	43.75	50.14	29.43	-2,543.10	1,058.22	585.53	531.35	54.18	10.808	
6,100.00	5,558.75	6,039.35	5,272.61	44.57	51.09	29.44	-2,591.45	1,078.73	595.85	540.67	55.18	10.798	
6,200.00	5,648.16	6,138.81	5,357.08	45.40	52.04	29.44	-2,639.80	1,099.24	606.17	549.99	56.18	10.789	
6,300.00	5,737.57	6,238.28	5,441.55	46.23	52.99	29.45	-2,688.15	1,119.76	616.49	559.30	57.19	10.780	
6,400.00	5,826.98	6,337.75	5,526.01	47.06	53.94	29.45	-2,736.51	1,140.27	626.81	568.62	58.19	10.772	
6,500.00	5,916.39	6,437.21	5,610.48	47.89	54.90	29.46	-2,784.86	1,160.78	637.13	577.93	59.19	10.763	
6,600.00	6,005.80	6,536.68	5,694.95	48.72	55.85	29.46	-2,833.21	1,181.30	647.44	587.25	60.20	10.755	
6,700.00	6,095.21	6,636.14	5,779.42	49.55	56.80	29.47	-2,881.56	1,201.81	657.76	596.56	61.20	10.747	
6,800.00	6,184.62	6,735.61	5,863.88	50.37	57.75	29.47	-2,929.92	1,222.32	668.08	605.87	62.21	10.740	
6,900.00	6,274.03	6,835.08	5,948.35	51.20	58.70	29.48	-2,978.27	1,242.84	678.40	615.19	63.21	10.732	
7,000.00	6,363.44	6,934.54	6,032.82	52.03	59.65	29.48	-3,026.62	1,263.35	688.72	624.50	64.22	10.725	
7,063.95	6,420.62	6,998.15	6,086.84	52.56	60.26	29.48	-3,057.54	1,276.47	695.32	630.46	64.86	10.720	
7,100.00	6,453.00	7,033.98	6,117.26	52.86	60.61	29.53	-3,074.96	1,283.86	699.33	634.13	65.20	10.725	
7,200.00	6,544.33	7,132.93	6,201.29	53.61	61.55	29.57	-3,123.06	1,304.27	713.54	647.59	65.95	10.819	
7,300.00	6,637.66	7,249.51	6,300.67	54.29	62.63	29.41	-3,179.16	1,328.07	731.83	665.21	66.62	10.986	
7,400.00	6,732.74	7,401.97	6,435.25	54.88	63.87	29.14	-3,245.04	1,356.02	749.02	681.59	67.43	11.108	
7,500.00	6,829.31	7,557.19	6,577.67	55.39	64.91	28.93	-3,301.75	1,380.08	763.46	695.44	68.03	11.223	
7,600.00	6,927.11	7,714.76	6,726.88	55.83	65.77	28.76	-3,348.23	1,399.80	775.02	706.62	68.40	11.331	
7,700.00	7,025.86	7,874.18	6,881.56	56.19	66.41	28.65	-3,383.58	1,414.80	783.57	715.04	68.53	11.434	
7,800.00	7,125.29	8,034.93	7,040.22	56.49	66.83	28.59	-3,407.08	1,424.76	789.02	720.61	68.41	11.533	
7,900.00	7,225.14	8,196.41	7,201.20	56.72	67.03	28.57	-3,418.24	1,429.50	791.30	723.24	68.06	11.627	
7,950.85	7,275.99	8,271.19	7,275.97	56.81	67.06	-179.98	-3,419.19	1,429.90	791.29	723.39	67.90	11.654	
7,976.44	7,301.58	8,296.74	7,301.52	56.84	67.07	-56.29	-3,419.19	1,429.90	791.26	723.29	67.97	11.641	
7,979.74	7,304.88	8,299.98	7,304.76	56.85	67.07	-56.29	-3,419.19	1,429.90	791.25	723.27	67.98	11.640	
8,000.00	7,325.14	8,320.26	7,325.04	56.88	67.08	-56.30	-3,419.20	1,429.89	791.20	723.17	68.03	11.630	
8,100.00	7,425.13	8,420.09	7,424.87	57.03	67.12	-56.33	-3,419.22	1,429.86	790.94	722.65	68.29	11.582	
8,200.00	7,525.13	8,519.93	7,524.71	57.19	67.15	-56.35	-3,419.26	1,429.78	790.71	722.15	68.55	11.534	
8,300.00	7,625.13	8,619.77	7,624.54	57.35	67.19	-56.38	-3,419.33	1,429.67	790.49	721.67	68.82	11.486	
8,400.00	7,725.13	8,719.60	7,724.38	57.51	67.23	-56.40	-3,419.41	1,429.53	790.30	721.19	69.10	11.437	
8,500.00	7,825.13	8,819.44	7,824.22	57.67	67.27	-56.41	-3,419.52	1,429.35	790.12	720.74	69.38	11.388	
8,600.00	7,925.13	8,919.28	7,924.06	57.83	67.31	-56.43	-3,419.64	1,429.14	789.97	720.30	69.67	11.338	
8,700.00	8,025.13	9,019.12	8,023.89	57.99	67.35	-56.44	-3,419.79	1,428.89	789.84	719.87	69.97	11.289	
8,800.00	8,125.13	9,118.95	8,123.73	58.16	67.40	-56.45	-3,419.96	1,428.60	789.72	719.46	70.27	11.239	
8,900.00	8,225.12	9,218.79	8,223.57	58.33	67.44	-56.46	-3,420.14	1,428.28	789.63	719.06	70.57	11.189	
9,000.00	8,325.12	9,318.63	8,323.40	58.50	67.48	-56.46	-3,420.35	1,427.93	789.56	718.68	70.88	11.139	
9,100.00	8,425.12	9,418.47	8,423.24	58.67	67.52	-56.46	-3,420.58	1,427.54	789.51	718.31	71.20	11.089	
9,200.00	8,525.12	9,518.30	8,523.08	58.84	67.57	-56.46	-3,420.83	1,427.12	789.48	717.96	71.52	11.038	
9,296.83	8,621.95	9,614.97	8,619.75	59.01	67.61	-56.46	-3,421.09	1,426.67	789.47	717.63	71.84	10.990	
9,300.00	8,625.12	9,618.14	8,622.91	59.02	67.61	-56.46	-3,421.10	1,426.66	789.47	717.62	71.85	10.988	
9,400.00	8,725.12	9,717.98	8,722.75	59.19	67.66	-56.46	-3,421.39	1,426.16	789.48	717.30	72.18	10.938	
9,500.00	8,825.12	9,817.82	8,822.59	59.37	67.70	-56.45	-3,421.70	1,425.63	789.51	716.99	72.52	10.887	
9,600.00	8,925.12	9,917.66	8,922.42	59.55	67.75	-56.44	-3,422.03	1,425.07	789.56	716.70	72.86	10.837	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04A-10 H04 596 - DD - Plan #2													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)				
9,700.00	9,025.11	10,017.49	9,022.26	59.73	67.79	-56.42	-3,422.38	1,424.47	789.64	716.43	73.21	10.786		
9,800.00	9,125.11	10,117.41	9,122.17	59.91	67.84	-56.41	-3,422.75	1,423.84	789.73	716.17	73.56	10.736		
9,900.00	9,225.11	10,217.41	9,222.17	60.10	67.89	-56.39	-3,423.13	1,423.21	789.82	715.91	73.91	10.686		
10,000.00	9,325.11	10,317.41	9,322.17	60.28	67.93	-56.38	-3,423.50	1,422.57	789.91	715.65	74.27	10.636		
10,100.00	9,425.11	10,417.41	9,422.16	60.47	67.98	-56.36	-3,423.87	1,421.93	790.01	715.38	74.62	10.586		
10,200.00	9,525.11	10,517.41	9,522.16	60.66	68.03	-56.35	-3,424.25	1,421.30	790.10	715.12	74.98	10.537		
10,300.00	9,625.11	10,617.41	9,622.16	60.85	68.08	-56.33	-3,424.62	1,420.66	790.19	714.85	75.34	10.488		
10,400.00	9,725.11	10,717.41	9,722.16	61.04	68.13	-56.31	-3,424.99	1,420.03	790.29	714.58	75.71	10.439		
10,500.00	9,825.10	10,817.41	9,822.15	61.24	68.18	-56.30	-3,425.37	1,419.39	790.38	714.31	76.07	10.390		
10,600.00	9,925.10	10,917.41	9,922.15	61.43	68.23	-56.28	-3,425.74	1,418.76	790.48	714.03	76.44	10.341		
10,700.00	10,025.10	11,017.41	10,022.15	61.63	68.28	-56.27	-3,426.11	1,418.12	790.57	713.76	76.81	10.293		
10,800.00	10,125.10	11,117.41	10,122.14	61.82	68.33	-56.25	-3,426.49	1,417.49	790.66	713.48	77.18	10.244		
10,900.00	10,225.10	11,217.41	10,222.14	62.02	68.38	-56.24	-3,426.86	1,416.85	790.76	713.20	77.55	10.196		
11,000.00	10,325.10	11,317.41	10,322.14	62.23	68.43	-56.22	-3,427.23	1,416.22	790.85	712.92	77.93	10.148		
11,100.00	10,425.10	11,417.41	10,422.14	62.43	68.48	-56.21	-3,427.61	1,415.58	790.94	712.64	78.31	10.101		
11,200.00	10,525.10	11,517.41	10,522.13	62.63	68.54	-56.19	-3,427.98	1,414.95	791.04	712.35	78.68	10.053		
11,300.00	10,625.09	11,617.41	10,622.13	62.84	68.59	-56.17	-3,428.35	1,414.31	791.13	712.07	79.07	10.006		
11,400.00	10,725.09	11,717.41	10,722.13	63.04	68.64	-56.16	-3,428.73	1,413.68	791.23	711.78	79.45	9.959		
11,500.00	10,825.09	11,817.41	10,822.12	63.25	68.70	-56.14	-3,429.10	1,413.04	791.32	711.49	79.83	9.912		
11,540.89	10,865.98	11,858.30	10,863.01	63.34	68.72	-56.14	-3,429.25	1,412.78	791.36	711.37	79.99	9.893		
11,600.00	10,925.09	11,917.41	10,922.12	63.46	68.75	-56.13	-3,429.47	1,412.41	791.41	711.20	80.22	9.866		
11,700.00	11,025.09	12,017.41	11,022.12	63.67	68.81	-56.11	-3,429.85	1,411.77	791.51	710.90	80.60	9.820		
11,800.00	11,125.09	12,117.41	11,122.11	63.88	68.86	-56.10	-3,430.22	1,411.14	791.60	710.61	80.99	9.774		
11,900.00	11,225.09	12,217.41	11,222.11	64.09	68.92	-56.08	-3,430.59	1,410.50	791.70	710.31	81.38	9.728		
12,000.00	11,325.09	12,317.41	11,322.11	64.31	68.97	-56.07	-3,430.96	1,409.87	791.79	710.02	81.78	9.682		
12,100.00	11,425.08	12,417.41	11,422.11	64.52	69.03	-56.05	-3,431.34	1,409.23	791.89	709.72	82.17	9.637		
12,200.00	11,525.08	12,517.41	11,522.10	64.74	69.08	-56.03	-3,431.71	1,408.59	791.98	709.42	82.57	9.592		
12,300.00	11,625.08	12,617.41	11,622.10	64.96	69.14	-56.02	-3,432.08	1,407.96	792.08	709.11	82.96	9.547		
12,400.00	11,725.08	12,717.41	11,722.10	65.18	69.20	-56.00	-3,432.46	1,407.32	792.17	708.81	83.36	9.503		
12,500.00	11,825.08	12,817.41	11,822.09	65.40	69.26	-55.99	-3,432.83	1,406.69	792.26	708.50	83.76	9.459		
12,600.00	11,925.08	12,917.41	11,922.09	65.62	69.31	-55.97	-3,433.20	1,406.05	792.36	708.20	84.16	9.415		
12,601.00	11,926.07	12,918.40	11,923.09	65.62	69.31	-55.97	-3,433.21	1,406.05	792.36	708.19	84.17	9.414		
12,700.00	12,025.08	12,999.97	12,004.66	65.84	69.36	-55.96	-3,433.51	1,405.53	792.65	707.85	84.79	9.348		
12,800.00	12,125.07	12,999.97	12,004.66	66.07	69.36	-55.96	-3,433.51	1,405.53	801.20	715.40	85.80	9.338 SF		
12,900.00	12,225.07	12,999.97	12,004.66	66.29	69.36	-55.96	-3,433.51	1,405.53	821.92	736.27	85.65	9.596		
13,005.64	12,330.71	12,999.97	12,004.66	66.53	69.36	-55.96	-3,433.51	1,405.53	856.05	771.61	84.44	10.138		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04B-04 H04 596 - DD - Plan #2													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)	Centre +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	15.67	172.84	48.50	179.52							
100.00	100.00	100.00	100.00	0.12	0.12	15.67	172.84	48.50	179.52	179.28	0.24	757.377				
200.00	200.00	200.00	200.00	0.48	0.29	15.67	172.84	48.50	179.52	178.75	0.77	233.131				
300.00	300.00	300.00	300.00	0.84	0.47	15.67	172.84	48.50	179.52	178.21	1.30	137.769				
400.00	400.00	400.00	400.00	1.20	0.64	15.67	172.84	48.50	179.52	177.68	1.84	97.775	CC, ES			
500.00	499.95	496.74	496.70	1.54	0.81	-137.00	174.25	46.49	182.28	179.92	2.36	77.152				
600.00	599.63	592.05	591.72	1.89	1.01	-140.39	178.38	40.59	191.08	188.15	2.93	65.265				
700.00	698.77	684.56	683.51	2.24	1.25	-145.20	184.98	31.16	207.16	203.60	3.56	58.215				
800.00	797.08	774.52	772.13	2.63	1.52	-150.64	193.70	18.45	231.71	227.49	4.22	54.889				
900.00	894.31	861.35	856.92	3.06	1.86	-156.13	203.34	2.45	264.73	259.82	4.91	53.956	SF			
1,000.00	990.18	942.67	935.51	3.54	2.24	-161.13	213.28	-15.89	306.45	300.87	5.58	54.890				
1,100.00	1,084.43	1,017.97	1,007.45	4.08	2.65	-165.43	223.25	-35.75	356.68	350.46	6.22	57.310				
1,200.00	1,176.81	1,086.96	1,072.57	4.69	3.07	-169.05	233.02	-56.34	414.83	408.01	6.82	60.819				
1,286.90	1,255.36	1,141.68	1,123.61	5.28	3.44	-171.70	241.19	-74.29	471.18	463.88	7.31	64.502				
1,300.00	1,267.08	1,149.54	1,130.89	5.38	3.50	-172.11	242.39	-76.98	480.08	472.70	7.38	65.027				
1,400.00	1,356.49	1,200.00	1,177.37	6.11	3.86	-174.60	250.29	-94.97	549.43	541.59	7.84	70.076				
1,500.00	1,445.90	1,262.58	1,234.27	6.86	4.37	-177.31	260.52	-118.92	620.89	612.58	8.32	74.637				
1,600.00	1,535.31	1,314.53	1,280.85	7.63	4.80	-179.30	269.36	-140.16	694.41	685.66	8.75	79.368				
1,700.00	1,624.72	1,363.66	1,324.30	8.42	5.25	178.98	278.00	-161.38	769.70	760.54	9.17	83.979				
1,800.00	1,714.13	1,400.00	1,356.06	9.21	5.59	177.81	284.57	-177.77	846.69	837.20	9.49	89.193				
1,900.00	1,803.54	1,454.08	1,402.70	10.00	6.14	176.18	294.62	-203.24	924.99	915.06	9.93	93.156				
2,000.00	1,892.95	1,500.00	1,441.68	10.81	6.61	174.91	303.39	-225.87	1,004.72	994.41	10.30	97.504				
2,100.00	1,982.36	1,535.10	1,471.08	11.61	7.00	173.99	310.25	-243.78	1,085.65	1,075.03	10.62	102.271				
2,200.00	2,071.77	1,572.44	1,501.97	12.42	7.42	173.06	317.69	-263.40	1,167.72	1,156.79	10.93	106.826				
2,300.00	2,161.18	1,600.00	1,524.49	13.23	7.73	172.41	323.26	-278.26	1,250.86	1,239.70	11.16	112.091				
2,400.00	2,250.59	1,649.00	1,563.98	14.05	8.31	171.29	333.37	-305.46	1,334.92	1,323.35	11.57	115.390				
2,500.00	2,340.00	1,688.25	1,595.31	14.86	8.77	170.47	341.56	-327.64	1,419.62	1,407.73	11.90	119.339				

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04B-10 H04 596 - DD - Plan #2												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	-164.17	-38.62	-10.95	40.14				
100.00	100.00	100.00	100.00	0.12	0.12	-164.17	-38.62	-10.95	40.14	39.91	0.24	169.360	
116.67	116.67	116.67	116.67	0.18	0.15	-164.17	-38.62	-10.95	40.14	39.82	0.33	123.190 CC	
200.00	200.00	200.00	200.00	0.48	0.29	-164.17	-38.62	-10.95	40.14	39.37	0.77	52.131 ES	
300.00	300.00	298.27	298.23	0.84	0.47	-166.25	-40.97	-10.02	42.22	40.83	1.39	30.421	
400.00	400.00	396.02	395.68	1.20	0.69	-171.40	-47.97	-7.26	48.71	46.62	2.09	23.333	
500.00	499.95	493.10	491.95	1.54	0.96	32.32	-59.50	-2.70	57.89	55.09	2.80	20.687	
600.00	599.63	589.69	586.99	1.89	1.31	29.33	-75.46	3.61	67.49	63.98	3.50	19.257	
700.00	698.77	685.79	680.57	2.24	1.73	27.54	-95.77	11.64	77.29	73.07	4.22	18.330	
800.00	797.08	781.42	772.48	2.63	2.23	26.54	-120.29	21.33	87.19	82.25	4.93	17.668	
900.00	894.31	876.60	862.54	3.06	2.81	26.10	-148.92	32.64	97.12	91.45	5.66	17.147	
1,000.00	990.18	971.33	950.53	3.54	3.46	26.06	-181.52	45.53	107.03	100.62	6.41	16.695	
1,100.00	1,084.43	1,065.64	1,036.30	4.08	4.19	26.30	-217.96	59.93	116.91	109.72	7.19	16.267	
1,200.00	1,176.81	1,159.52	1,119.66	4.69	4.99	26.77	-258.11	75.80	126.74	118.73	8.00	15.835	
1,286.90	1,255.36	1,240.78	1,190.03	5.28	5.74	27.31	-295.90	90.73	135.23	126.47	8.76	15.444	
1,300.00	1,267.08	1,253.01	1,200.46	5.38	5.86	27.41	-301.82	93.07	136.54	127.67	8.87	15.391	
1,400.00	1,356.49	1,347.66	1,279.94	6.11	6.78	27.78	-349.61	111.96	148.96	139.23	9.72	15.322	
1,500.00	1,445.90	1,446.73	1,362.47	6.86	7.76	27.94	-400.59	132.11	162.53	152.01	10.51	15.458	
1,600.00	1,535.31	1,545.80	1,445.00	7.63	8.74	28.08	-451.56	152.26	176.10	164.76	11.34	15.535	
1,700.00	1,624.72	1,644.88	1,527.53	8.42	9.72	28.20	-502.54	172.40	189.67	177.49	12.18	15.571	
1,800.00	1,714.13	1,743.95	1,610.06	9.21	10.71	28.30	-553.51	192.55	203.25	190.20	13.05	15.577	
1,900.00	1,803.54	1,843.02	1,692.59	10.00	11.69	28.39	-604.49	212.70	216.82	202.89	13.93	15.564	
2,000.00	1,892.95	1,942.10	1,775.12	10.81	12.68	28.47	-655.47	232.85	230.39	215.57	14.83	15.537	
2,100.00	1,982.36	2,041.17	1,857.64	11.61	13.66	28.54	-706.44	252.99	243.97	228.23	15.74	15.502	
2,200.00	2,071.77	2,140.25	1,940.17	12.42	14.65	28.60	-757.42	273.14	257.55	240.89	16.66	15.460	
2,300.00	2,161.18	2,239.32	2,022.70	13.23	15.64	28.66	-808.39	293.29	271.12	253.53	17.59	15.416	
2,400.00	2,250.59	2,338.39	2,105.23	14.05	16.63	28.71	-859.37	313.43	284.70	266.17	18.52	15.370	
2,500.00	2,340.00	2,437.47	2,187.76	14.86	17.62	28.76	-910.35	333.58	298.27	278.81	19.47	15.323	
2,600.00	2,429.41	2,536.54	2,270.29	15.68	18.61	28.80	-961.32	353.73	311.85	291.43	20.41	15.276	
2,700.00	2,518.82	2,635.62	2,352.82	16.50	19.60	28.84	-1,012.30	373.88	325.43	304.06	21.37	15.229	
2,800.00	2,608.23	2,734.69	2,435.35	17.32	20.59	28.87	-1,063.28	394.02	339.00	316.68	22.33	15.184	
2,900.00	2,697.64	2,833.76	2,517.88	18.14	21.58	28.91	-1,114.25	414.17	352.58	329.29	23.29	15.140	
3,000.00	2,787.05	2,932.84	2,600.41	18.96	22.57	28.94	-1,165.23	434.32	366.16	341.90	24.25	15.097	
3,100.00	2,876.46	3,031.91	2,682.94	19.78	23.56	28.97	-1,216.20	454.47	379.73	354.51	25.22	15.056	
3,200.00	2,965.87	3,130.98	2,765.47	20.60	24.55	28.99	-1,267.18	474.61	393.31	367.12	26.19	15.016	
3,300.00	3,055.28	3,230.06	2,848.00	21.42	25.54	29.02	-1,318.16	494.76	406.89	379.72	27.17	14.978	
3,400.00	3,144.69	3,329.13	2,930.53	22.25	26.53	29.04	-1,369.13	514.91	420.46	392.32	28.14	14.941	
3,500.00	3,234.10	3,428.21	3,013.06	23.07	27.52	29.06	-1,420.11	535.05	434.04	404.92	29.12	14.906	
3,600.00	3,323.51	3,527.28	3,095.59	23.90	28.51	29.08	-1,471.08	555.20	447.62	417.52	30.10	14.872	
3,700.00	3,412.92	3,626.35	3,178.12	24.72	29.50	29.10	-1,522.06	575.35	461.20	430.12	31.08	14.839	
3,800.00	3,502.33	3,725.43	3,260.65	25.55	30.49	29.12	-1,573.04	595.50	474.77	442.71	32.06	14.808	
3,900.00	3,591.74	3,824.50	3,343.18	26.37	31.48	29.14	-1,624.01	615.64	488.35	455.30	33.05	14.778	
4,000.00	3,681.15	3,923.58	3,425.71	27.20	32.47	29.15	-1,674.99	635.79	501.93	467.90	34.03	14.749	
4,100.00	3,770.56	4,022.65	3,508.24	28.02	33.46	29.17	-1,725.96	655.94	515.51	480.49	35.02	14.721	
4,200.00	3,859.97	4,121.72	3,590.77	28.85	34.45	29.18	-1,776.94	676.09	529.08	493.08	36.00	14.695	
4,300.00	3,949.38	4,220.80	3,673.30	29.68	35.44	29.20	-1,827.92	696.23	542.66	505.67	36.99	14.669	
4,400.00	4,038.79	4,319.87	3,755.83	30.50	36.43	29.21	-1,878.89	716.38	556.24	518.26	37.98	14.645	
4,500.00	4,128.20	4,418.95	3,838.36	31.33	37.43	29.22	-1,929.87	736.53	569.82	530.84	38.97	14.621	
4,600.00	4,217.61	4,518.02	3,920.89	32.16	38.42	29.23	-1,980.85	756.67	583.39	543.43	39.96	14.598	
4,700.00	4,307.02	4,617.09	4,003.42	32.98	39.41	29.24	-2,031.82	776.82	596.97	556.02	40.95	14.576	
4,800.00	4,396.43	4,716.17	4,085.95	33.81	40.40	29.26	-2,082.80	796.97	610.55	568.60	41.95	14.555	
4,900.00	4,485.83	4,815.24	4,168.48	34.64	41.39	29.27	-2,133.77	817.12	624.13	581.19	42.94	14.535	

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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Site Error:	0.00usft	North Reference:	True
Reference Well:	UWF13C-03 H04 596	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 - UWF04B-10 H04 596 - DD - Plan #2												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
5,000.00	4,575.24	4,914.31	4,251.01	35.47	42.38	29.28	-2,184.75	837.26	637.70	593.77	43.93	14.515	
5,100.00	4,664.65	5,013.39	4,333.54	36.29	43.37	29.29	-2,235.73	857.41	651.28	606.35	44.93	14.496	
5,200.00	4,754.06	5,112.46	4,416.07	37.12	44.36	29.29	-2,286.70	877.56	664.86	618.94	45.92	14.478	
5,300.00	4,843.47	5,211.54	4,498.60	37.95	45.35	29.30	-2,337.68	897.71	678.44	631.52	46.92	14.460	
5,400.00	4,932.88	5,310.61	4,581.13	38.78	46.34	29.31	-2,388.65	917.85	692.01	644.10	47.91	14.443	
5,500.00	5,022.29	5,409.68	4,663.66	39.61	47.34	29.32	-2,439.63	938.00	705.59	656.68	48.91	14.427	
5,600.00	5,111.70	5,508.76	4,746.19	40.43	48.33	29.33	-2,490.61	958.15	719.17	669.27	49.90	14.411	
5,700.00	5,201.11	5,607.83	4,828.71	41.26	49.32	29.33	-2,541.58	978.30	732.75	681.85	50.90	14.396	
5,800.00	5,290.52	5,706.91	4,911.24	42.09	50.31	29.34	-2,592.56	998.44	746.33	694.43	51.90	14.381	
5,900.00	5,379.93	5,805.98	4,993.77	42.92	51.30	29.35	-2,643.53	1,018.59	759.90	707.01	52.89	14.366	
6,000.00	5,469.34	5,905.05	5,076.30	43.75	52.29	29.36	-2,694.51	1,038.74	773.48	719.59	53.89	14.352	
6,100.00	5,558.75	6,004.13	5,158.83	44.57	53.28	29.36	-2,745.49	1,058.88	787.06	732.17	54.89	14.339	
6,200.00	5,648.16	6,103.20	5,241.36	45.40	54.27	29.37	-2,796.46	1,079.03	800.64	744.75	55.89	14.326	
6,300.00	5,737.57	6,202.28	5,323.89	46.23	55.27	29.37	-2,847.44	1,099.18	814.22	757.33	56.89	14.313	
6,400.00	5,826.98	6,301.35	5,406.42	47.06	56.26	29.38	-2,898.42	1,119.33	827.79	769.91	57.89	14.301	
6,500.00	5,916.39	6,400.42	5,488.95	47.89	57.25	29.39	-2,949.39	1,139.47	841.37	782.49	58.88	14.289	
6,600.00	6,005.80	6,499.50	5,571.48	48.72	58.24	29.39	-3,000.37	1,159.62	854.95	795.07	59.88	14.277	
6,700.00	6,095.21	6,598.57	5,654.01	49.55	59.23	29.40	-3,051.34	1,179.77	868.53	807.64	60.88	14.266	
6,800.00	6,184.62	6,697.64	5,736.54	50.37	60.22	29.40	-3,102.32	1,199.92	882.10	820.22	61.88	14.255	
6,900.00	6,274.03	6,796.72	5,819.07	51.20	61.21	29.41	-3,153.30	1,220.06	895.68	832.80	62.88	14.244	
7,000.00	6,363.44	6,895.79	5,901.60	52.03	62.20	29.41	-3,204.27	1,240.21	909.26	845.38	63.88	14.233	
7,063.95	6,420.62	6,959.15	5,954.38	52.56	62.84	29.41	-3,236.87	1,253.09	917.94	853.42	64.52	14.227	
7,100.00	6,453.00	6,994.82	5,984.10	52.86	63.19	29.48	-3,255.23	1,260.35	923.13	858.27	64.87	14.231	
7,200.00	6,544.33	7,093.26	6,066.09	53.61	64.18	29.61	-3,305.87	1,280.37	940.58	874.93	65.66	14.325	
7,300.00	6,637.66	7,190.70	6,147.26	54.29	65.15	29.66	-3,356.01	1,300.18	962.51	896.30	66.21	14.537	
7,400.00	6,732.74	7,322.12	6,257.51	54.88	66.42	29.50	-3,422.52	1,326.47	988.20	921.31	66.89	14.773	
7,500.00	6,829.31	7,510.44	6,422.85	55.39	67.97	29.16	-3,506.20	1,359.54	1,011.22	943.37	67.85	14.905	
7,600.00	6,927.11	7,704.97	6,602.09	55.83	69.26	28.89	-3,576.31	1,387.25	1,029.67	961.19	68.48	15.036	
7,700.00	7,025.86	7,904.57	6,792.98	56.19	70.24	28.71	-3,630.25	1,408.57	1,043.22	974.47	68.75	15.174	
7,800.00	7,125.29	8,107.79	6,992.47	56.49	70.87	28.61	-3,665.84	1,422.63	1,051.60	982.96	68.64	15.321	
7,900.00	7,225.14	8,312.94	7,196.82	56.72	71.13	28.60	-3,681.57	1,428.85	1,054.64	986.50	68.14	15.478	
7,950.85	7,275.99	8,392.06	7,275.93	56.81	71.16	-179.94	-3,682.31	1,429.14	1,054.41	986.39	68.02	15.500	
7,971.37	7,296.51	8,412.53	7,296.41	56.84	71.17	-56.26	-3,682.31	1,429.14	1,054.39	986.31	68.08	15.487	
7,979.74	7,304.88	8,420.89	7,304.76	56.85	71.17	-56.26	-3,682.31	1,429.14	1,054.37	986.27	68.11	15.481	
8,000.00	7,325.14	8,441.10	7,324.98	56.88	71.18	-56.26	-3,682.31	1,429.14	1,054.32	986.16	68.16	15.469	
8,100.00	7,425.13	8,540.88	7,424.76	57.03	71.22	-56.28	-3,682.34	1,429.09	1,054.06	985.64	68.43	15.404	
8,200.00	7,525.13	8,640.67	7,524.54	57.19	71.25	-56.30	-3,682.39	1,429.01	1,053.83	985.13	68.70	15.340	
8,300.00	7,625.13	8,740.45	7,624.33	57.35	71.29	-56.32	-3,682.45	1,428.90	1,053.62	984.64	68.98	15.275	
8,400.00	7,725.13	8,840.23	7,724.11	57.51	71.33	-56.33	-3,682.54	1,428.75	1,053.42	984.16	69.26	15.209	
8,500.00	7,825.13	8,940.02	7,823.89	57.67	71.37	-56.35	-3,682.65	1,428.57	1,053.25	983.70	69.55	15.144	
8,600.00	7,925.13	9,039.80	7,923.68	57.83	71.41	-56.36	-3,682.77	1,428.35	1,053.10	983.26	69.84	15.078	
8,700.00	8,025.13	9,139.58	8,023.46	57.99	71.45	-56.37	-3,682.92	1,428.10	1,052.97	982.83	70.14	15.012	
8,800.00	8,125.13	9,239.37	8,123.24	58.16	71.49	-56.37	-3,683.09	1,427.81	1,052.86	982.41	70.45	14.946	
8,900.00	8,225.12	9,339.15	8,223.03	58.33	71.53	-56.38	-3,683.28	1,427.49	1,052.77	982.01	70.75	14.879	
9,000.00	8,325.12	9,438.94	8,322.81	58.50	71.57	-56.38	-3,683.49	1,427.13	1,052.70	981.63	71.07	14.813	
9,100.00	8,425.12	9,538.72	8,422.59	58.67	71.61	-56.38	-3,683.72	1,426.73	1,052.65	981.26	71.38	14.746	
9,200.00	8,525.12	9,638.51	8,522.38	58.84	71.65	-56.38	-3,683.97	1,426.30	1,052.62	980.91	71.71	14.679	
9,290.25	8,615.37	9,728.56	8,612.43	59.00	71.69	-56.38	-3,684.21	1,425.89	1,052.61	980.61	72.00	14.619	
9,300.00	8,625.12	9,738.29	8,622.16	59.02	71.69	-56.38	-3,684.24	1,425.84	1,052.61	980.58	72.03	14.613	
9,400.00	8,725.12	9,838.07	8,721.94	59.19	71.74	-56.37	-3,684.53	1,425.34	1,052.62	980.26	72.37	14.546	
9,500.00	8,825.12	9,937.86	8,821.72	59.37	71.78	-56.37	-3,684.84	1,424.81	1,052.66	979.95	72.70	14.479	
9,600.00	8,925.12	10,037.64	8,921.51	59.55	71.82	-56.36	-3,685.18	1,424.24	1,052.71	979.67	73.04	14.412	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04B-10 H04 596 - DD - Plan #2													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		
9,700.00	9,025.11	10,137.43	9,021.29	59.73	71.87	-56.35	-3,685.53	1,423.64	1,052.78	979.40	73.39	14.346		
9,800.00	9,125.11	10,237.34	9,121.20	59.91	71.91	-56.34	-3,685.90	1,423.00	1,052.87	979.14	73.73	14.279		
9,900.00	9,225.11	10,337.34	9,221.20	60.10	71.96	-56.33	-3,686.27	1,422.37	1,052.97	978.88	74.08	14.213		
10,000.00	9,325.11	10,437.34	9,321.20	60.28	72.00	-56.31	-3,686.64	1,421.73	1,053.06	978.62	74.44	14.147		
10,100.00	9,425.11	10,537.34	9,421.19	60.47	72.05	-56.30	-3,687.01	1,421.10	1,053.15	978.36	74.79	14.082		
10,200.00	9,525.11	10,637.34	9,521.19	60.66	72.10	-56.29	-3,687.38	1,420.46	1,053.24	978.10	75.14	14.016		
10,300.00	9,625.11	10,737.34	9,621.19	60.85	72.14	-56.28	-3,687.76	1,419.82	1,053.33	977.83	75.50	13.951		
10,400.00	9,725.11	10,837.34	9,721.18	61.04	72.19	-56.27	-3,688.13	1,419.19	1,053.43	977.56	75.86	13.886		
10,500.00	9,825.10	10,937.34	9,821.18	61.24	72.24	-56.26	-3,688.50	1,418.55	1,053.52	977.29	76.22	13.821		
10,600.00	9,925.10	11,037.34	9,921.18	61.43	72.29	-56.24	-3,688.87	1,417.91	1,053.61	977.02	76.59	13.757		
10,700.00	10,025.10	11,137.34	10,021.18	61.63	72.33	-56.23	-3,689.24	1,417.28	1,053.70	976.75	76.95	13.693		
10,800.00	10,125.10	11,237.34	10,121.17	61.82	72.38	-56.22	-3,689.61	1,416.64	1,053.79	976.47	77.32	13.629		
10,900.00	10,225.10	11,337.34	10,221.17	62.02	72.43	-56.21	-3,689.99	1,416.01	1,053.89	976.19	77.69	13.565		
11,000.00	10,325.10	11,437.34	10,321.17	62.23	72.48	-56.20	-3,690.36	1,415.37	1,053.98	975.91	78.06	13.501		
11,100.00	10,425.10	11,537.34	10,421.16	62.43	72.53	-56.19	-3,690.73	1,414.73	1,054.07	975.63	78.44	13.438		
11,200.00	10,525.10	11,637.34	10,521.16	62.63	72.58	-56.17	-3,691.10	1,414.10	1,054.16	975.35	78.81	13.375		
11,300.00	10,625.09	11,737.34	10,621.16	62.84	72.63	-56.16	-3,691.47	1,413.46	1,054.26	975.07	79.19	13.313		
11,400.00	10,725.09	11,837.34	10,721.15	63.04	72.68	-56.15	-3,691.85	1,412.83	1,054.35	974.78	79.57	13.251		
11,500.00	10,825.09	11,937.34	10,821.15	63.25	72.74	-56.14	-3,692.22	1,412.19	1,054.44	974.49	79.95	13.189		
11,540.89	10,865.98	11,978.23	10,862.04	63.34	72.76	-56.13	-3,692.37	1,411.93	1,054.48	974.37	80.11	13.163		
11,600.00	10,925.09	12,037.34	10,921.15	63.46	72.79	-56.13	-3,692.59	1,411.55	1,054.53	974.20	80.33	13.127		
11,700.00	11,025.09	12,137.34	11,021.15	63.67	72.84	-56.12	-3,692.96	1,410.92	1,054.63	973.91	80.72	13.066		
11,800.00	11,125.09	12,237.34	11,121.14	63.88	72.89	-56.10	-3,693.33	1,410.28	1,054.72	973.62	81.10	13.005		
11,900.00	11,225.09	12,337.34	11,221.14	64.09	72.95	-56.09	-3,693.70	1,409.65	1,054.81	973.32	81.49	12.944		
12,000.00	11,325.09	12,437.34	11,321.14	64.31	73.00	-56.08	-3,694.08	1,409.01	1,054.91	973.03	81.88	12.884		
12,100.00	11,425.08	12,537.34	11,421.13	64.52	73.05	-56.07	-3,694.45	1,408.37	1,055.00	972.73	82.27	12.823		
12,200.00	11,525.08	12,637.34	11,521.13	64.74	73.11	-56.06	-3,694.82	1,407.74	1,055.09	972.43	82.66	12.764		
12,300.00	11,625.08	12,737.34	11,621.13	64.96	73.16	-56.04	-3,695.19	1,407.10	1,055.18	972.13	83.06	12.704		
12,400.00	11,725.08	12,837.34	11,721.12	65.18	73.22	-56.03	-3,695.56	1,406.47	1,055.28	971.82	83.45	12.645		
12,500.00	11,825.08	12,937.34	11,821.12	65.40	73.27	-56.02	-3,695.93	1,405.83	1,055.37	971.52	83.85	12.586		
12,500.01	11,825.09	12,937.35	11,821.13	65.40	73.27	-56.02	-3,695.93	1,405.83	1,055.37	971.52	83.85	12.586		
12,600.00	11,925.08	12,999.97	11,883.75	65.62	73.31	-56.01	-3,696.17	1,405.43	1,056.12	971.53	84.59	12.485		
12,700.00	12,025.08	12,999.97	11,883.75	65.84	73.31	-56.01	-3,696.17	1,405.43	1,064.46	979.00	85.46	12.456 SF		
12,800.00	12,125.07	12,999.97	11,883.75	66.07	73.31	-56.01	-3,696.17	1,405.43	1,082.01	996.35	85.66	12.632		
12,900.00	12,225.07	12,999.97	11,883.75	66.29	73.31	-56.01	-3,696.17	1,405.43	1,108.34	1,023.08	85.26	13.000		
13,005.64	12,330.71	12,999.97	11,883.75	66.53	73.31	-56.01	-3,696.17	1,405.43	1,145.01	1,060.73	84.28	13.586		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04C-04 H04 596 - DD - Plan #2												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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	Axis	Factor	
0.00	0.00	0.00	0.00	0.00	0.00	12.54	175.89	39.11	180.18				
100.00	100.00	100.00	100.00	0.12	0.12	12.54	175.89	39.11	180.18	179.95	0.24	760.183	
200.00	200.00	202.66	202.65	0.48	0.30	12.34	175.64	38.43	179.81	179.02	0.80	226.099	
300.00	300.00	307.66	307.48	0.84	0.51	10.76	173.66	33.00	176.93	175.50	1.43	123.975	
400.00	400.00	411.71	410.89	1.20	0.79	7.48	169.76	22.29	171.57	169.48	2.09	82.105	
500.00	499.95	514.11	511.90	1.54	1.14	-149.68	164.05	6.60	166.87	164.10	2.77	60.319	
546.51	546.36	560.90	557.74	1.70	1.34	-153.22	160.83	-2.27	166.22	163.12	3.10	53.620 CC, ES	
600.00	599.63	613.92	609.37	1.89	1.57	-157.85	156.71	-13.58	167.22	163.73	3.49	47.974	
700.00	698.77	705.98	698.25	2.24	2.02	-166.93	149.14	-36.32	176.33	172.07	4.26	41.398	
800.00	797.08	791.64	780.20	2.63	2.49	-175.30	144.10	-60.70	198.65	193.47	5.18	38.341	
900.00	894.31	872.67	856.94	3.06	2.99	177.73	141.36	-86.54	233.77	227.66	6.11	38.233 SF	
1,000.00	990.18	948.38	927.84	3.54	3.50	172.33	140.60	-113.09	279.96	273.00	6.96	40.227	
1,100.00	1,084.43	1,018.30	992.52	4.08	4.01	168.21	141.43	-139.64	335.40	327.70	7.70	43.542	
1,200.00	1,176.81	1,082.19	1,050.87	4.69	4.51	165.02	143.49	-165.56	398.60	390.24	8.36	47.672	
1,286.90	1,255.36	1,132.73	1,096.48	5.28	4.93	162.73	145.99	-187.18	458.87	450.00	8.87	51.704	
1,300.00	1,267.08	1,139.97	1,102.98	5.38	4.99	162.53	146.41	-190.36	468.31	459.36	8.96	52.288	
1,400.00	1,356.49	1,200.00	1,156.38	6.11	5.51	161.10	150.50	-217.45	541.65	532.16	9.49	57.087	
1,500.00	1,445.90	1,243.59	1,194.68	6.86	5.93	160.23	154.15	-237.96	616.81	606.88	9.94	62.064	
1,600.00	1,535.31	1,300.00	1,243.57	7.63	6.46	159.27	159.72	-265.51	693.86	683.42	10.44	66.485	
1,700.00	1,624.72	1,335.37	1,273.85	8.42	6.83	158.75	163.69	-283.37	772.31	761.53	10.78	71.644	
1,800.00	1,714.13	1,377.31	1,309.33	9.21	7.27	158.19	168.88	-305.12	852.27	841.08	11.20	76.104	
1,900.00	1,803.54	1,416.86	1,342.37	10.00	7.70	157.72	174.25	-326.19	933.53	921.98	11.55	80.810	
2,000.00	1,892.95	1,454.19	1,373.17	10.81	8.12	157.32	179.74	-346.55	1,015.98	1,004.09	11.89	85.439	
2,100.00	1,982.36	1,500.00	1,410.43	11.61	8.65	156.88	187.03	-372.18	1,099.58	1,087.30	12.28	89.561	
2,200.00	2,071.77	1,522.80	1,428.75	12.42	8.92	156.67	190.89	-385.19	1,184.02	1,171.53	12.48	94.844	
2,300.00	2,161.18	1,554.35	1,453.85	13.23	9.31	156.41	196.47	-403.48	1,269.44	1,256.69	12.76	99.516	
2,400.00	2,250.59	1,600.00	1,489.63	14.05	9.88	156.06	205.05	-430.49	1,355.86	1,342.71	13.15	103.113	
2,500.00	2,340.00	1,612.59	1,499.39	14.86	10.03	155.97	207.53	-438.05	1,442.74	1,429.50	13.24	108.995	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04C-10 H04 596 - DD - Plan #2													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	-163.56	-47.73	-14.08	49.76							
100.00	100.00	100.00	100.00	0.12	0.12	-163.56	-47.73	-14.08	49.76	49.52	0.24	209.935				
103.51	103.51	103.51	103.51	0.13	0.12	-163.56	-47.73	-14.08	49.76	49.50	0.26	194.565	CC			
200.00	200.00	198.97	198.96	0.48	0.29	-163.99	-48.32	-13.86	50.28	49.47	0.81	62.380	ES			
300.00	300.00	296.64	296.50	0.84	0.49	-167.11	-53.00	-12.13	54.49	52.99	1.49	36.502				
400.00	400.00	393.56	392.90	1.20	0.73	-172.05	-62.27	-8.70	63.28	61.06	2.22	28.475				
500.00	499.95	489.63	487.84	1.54	1.04	32.12	-75.97	-3.63	74.82	71.88	2.94	25.420				
600.00	599.63	585.10	581.35	1.89	1.43	29.38	-94.01	3.04	86.79	83.14	3.65	23.777				
700.00	698.77	680.00	673.22	2.24	1.89	27.72	-116.26	11.26	98.96	94.60	4.36	22.705				
800.00	797.08	774.33	763.27	2.63	2.42	26.77	-142.59	21.00	111.20	106.13	5.07	21.934				
900.00	894.31	868.12	851.31	3.06	3.03	26.34	-172.87	32.20	123.44	117.65	5.79	21.319				
1,000.00	990.18	961.37	937.18	3.54	3.71	26.27	-206.96	44.80	135.64	129.11	6.53	20.779				
1,100.00	1,084.43	1,054.11	1,020.72	4.08	4.46	26.46	-244.72	58.77	147.76	140.46	7.29	20.263				
1,200.00	1,176.81	1,146.36	1,101.78	4.69	5.27	26.87	-286.01	74.04	159.78	151.69	8.09	19.740				
1,286.90	1,255.36	1,226.14	1,170.09	5.28	6.03	27.35	-324.65	88.32	170.14	161.31	8.83	19.266				
1,300.00	1,267.08	1,238.13	1,180.21	5.38	6.15	27.44	-330.68	90.56	171.74	162.79	8.94	19.200				
1,400.00	1,356.49	1,329.49	1,255.93	6.11	7.08	27.85	-378.60	108.28	186.42	176.61	9.81	19.012				
1,500.00	1,445.90	1,428.09	1,336.47	6.86	8.09	28.01	-431.96	128.01	203.08	192.50	10.58	19.186				
1,600.00	1,535.31	1,526.69	1,417.01	7.63	9.11	28.15	-485.31	147.74	219.74	208.35	11.39	19.286				
1,700.00	1,624.72	1,625.29	1,497.54	8.42	10.13	28.27	-538.66	167.47	236.41	224.18	12.23	19.333				
1,800.00	1,714.13	1,723.89	1,578.08	9.21	11.15	28.37	-592.01	187.20	253.07	239.99	13.08	19.343				
1,900.00	1,803.54	1,822.49	1,658.62	10.00	12.17	28.46	-645.37	206.93	269.74	255.79	13.96	19.328				
2,000.00	1,892.95	1,921.09	1,739.16	10.81	13.20	28.54	-698.72	226.66	286.41	271.56	14.84	19.295				
2,100.00	1,982.36	2,019.69	1,819.69	11.61	14.22	28.61	-752.07	246.39	303.08	287.33	15.74	19.250				
2,200.00	2,071.77	2,118.29	1,900.23	12.42	15.24	28.67	-805.42	266.12	319.74	303.09	16.65	19.198				
2,300.00	2,161.18	2,216.89	1,980.77	13.23	16.27	28.73	-858.78	285.85	336.41	318.84	17.58	19.141				
2,400.00	2,250.59	2,315.49	2,061.31	14.05	17.29	28.78	-912.13	305.58	353.08	334.58	18.50	19.082				
2,500.00	2,340.00	2,414.09	2,141.84	14.86	18.32	28.83	-965.48	325.31	369.75	350.31	19.44	19.021				
2,600.00	2,429.41	2,512.69	2,222.38	15.68	19.34	28.87	-1,018.83	345.04	386.42	366.04	20.38	18.961				
2,700.00	2,518.82	2,611.29	2,302.92	16.50	20.37	28.91	-1,072.19	364.76	403.09	381.76	21.33	18.901				
2,800.00	2,608.23	2,709.89	2,383.46	17.32	21.39	28.95	-1,125.54	384.49	419.76	397.48	22.28	18.842				
2,900.00	2,697.64	2,808.49	2,464.00	18.14	22.42	28.98	-1,178.89	404.22	436.43	413.19	23.23	18.784				
3,000.00	2,787.05	2,907.09	2,544.53	18.96	23.44	29.01	-1,232.24	423.95	453.10	428.90	24.19	18.729				
3,100.00	2,876.46	3,005.70	2,625.07	19.78	24.47	29.04	-1,285.60	443.68	469.77	444.61	25.15	18.675				
3,200.00	2,965.87	3,104.30	2,705.61	20.60	25.49	29.07	-1,338.95	463.41	486.44	460.32	26.12	18.623				
3,300.00	3,055.28	3,202.90	2,786.15	21.42	26.52	29.09	-1,392.30	483.14	503.10	476.02	27.09	18.573				
3,400.00	3,144.69	3,301.50	2,866.68	22.25	27.55	29.11	-1,445.65	502.87	519.78	491.72	28.06	18.525				
3,500.00	3,234.10	3,400.10	2,947.22	23.07	28.57	29.14	-1,499.01	522.60	536.45	507.42	29.03	18.479				
3,600.00	3,323.51	3,498.70	3,027.76	23.90	29.60	29.16	-1,552.36	542.33	553.12	523.11	30.00	18.435				
3,700.00	3,412.92	3,597.30	3,108.30	24.72	30.62	29.18	-1,605.71	562.06	569.79	538.81	30.98	18.392				
3,800.00	3,502.33	3,695.90	3,188.83	25.55	31.65	29.19	-1,659.06	581.79	586.46	554.50	31.96	18.351				
3,900.00	3,591.74	3,794.50	3,269.37	26.37	32.68	29.21	-1,712.42	601.52	603.13	570.19	32.94	18.312				
4,000.00	3,681.15	3,893.10	3,349.91	27.20	33.70	29.23	-1,765.77	621.25	619.80	585.88	33.92	18.274				
4,100.00	3,770.56	3,991.70	3,430.45	28.02	34.73	29.24	-1,819.12	640.98	636.47	601.57	34.90	18.238				
4,200.00	3,859.97	4,090.30	3,510.99	28.85	35.76	29.26	-1,872.47	660.71	653.14	617.26	35.88	18.203				
4,300.00	3,949.38	4,188.90	3,591.52	29.68	36.78	29.27	-1,925.83	680.44	669.81	632.94	36.87	18.169				
4,400.00	4,038.79	4,287.50	3,672.06	30.50	37.81	29.29	-1,979.18	700.17	686.48	648.63	37.85	18.137				
4,500.00	4,128.20	4,386.10	3,752.60	31.33	38.84	29.30	-2,032.53	719.90	703.15	664.31	38.84	18.106				
4,600.00	4,217.61	4,484.70	3,833.14	32.16	39.86	29.31	-2,085.88	739.63	719.82	680.00	39.82	18.076				
4,700.00	4,307.02	4,583.30	3,913.67	32.98	40.89	29.32	-2,139.24	759.36	736.49	695.68	40.81	18.047				
4,800.00	4,396.43	4,681.90	3,994.21	33.81	41.92	29.33	-2,192.59	779.09	753.16	711.36	41.80	18.020				
4,900.00	4,485.83	4,780.51	4,074.75	34.64	42.94	29.34	-2,245.94	798.82	769.83	727.05	42.79	17.993				

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04C-10 H04 596 - DD - Plan #2												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
5,000.00	4,575.24	4,879.11	4,155.29	35.47	43.97	29.35	-2,299.29	818.55	786.50	742.73	43.77	17.967	
5,100.00	4,664.65	4,977.71	4,235.82	36.29	45.00	29.36	-2,352.65	838.28	803.17	758.41	44.76	17.942	
5,200.00	4,754.06	5,076.31	4,316.36	37.12	46.02	29.37	-2,406.00	858.01	819.84	774.09	45.75	17.918	
5,300.00	4,843.47	5,174.91	4,396.90	37.95	47.05	29.38	-2,459.35	877.74	836.52	789.77	46.75	17.895	
5,400.00	4,932.88	5,273.51	4,477.44	38.78	48.08	29.39	-2,512.70	897.47	853.19	805.45	47.74	17.873	
5,500.00	5,022.29	5,372.11	4,557.98	39.61	49.10	29.40	-2,566.06	917.20	869.86	821.13	48.73	17.851	
5,600.00	5,111.70	5,470.71	4,638.51	40.43	50.13	29.41	-2,619.41	936.93	886.53	836.81	49.72	17.830	
5,700.00	5,201.11	5,569.31	4,719.05	41.26	51.16	29.41	-2,672.76	956.66	903.20	852.48	50.71	17.810	
5,800.00	5,290.52	5,667.91	4,799.59	42.09	52.18	29.42	-2,726.11	976.39	919.87	868.16	51.71	17.790	
5,900.00	5,379.93	5,766.51	4,880.13	42.92	53.21	29.43	-2,779.47	996.12	936.54	883.84	52.70	17.771	
6,000.00	5,469.34	5,865.11	4,960.66	43.75	54.24	29.44	-2,832.82	1,015.85	953.21	899.52	53.69	17.753	
6,100.00	5,558.75	5,963.71	5,041.20	44.57	55.26	29.44	-2,886.17	1,035.57	969.88	915.19	54.69	17.735	
6,200.00	5,648.16	6,062.31	5,121.74	45.40	56.29	29.45	-2,939.52	1,055.30	986.55	930.87	55.68	17.718	
6,300.00	5,737.57	6,160.91	5,202.28	46.23	57.32	29.45	-2,992.88	1,075.03	1,003.22	946.55	56.68	17.701	
6,400.00	5,826.98	6,259.51	5,282.81	47.06	58.34	29.46	-3,046.23	1,094.76	1,019.89	962.22	57.67	17.685	
6,500.00	5,916.39	6,358.11	5,363.35	47.89	59.37	29.47	-3,099.58	1,114.49	1,036.57	977.90	58.67	17.669	
6,600.00	6,005.80	6,456.71	5,443.89	48.72	60.40	29.47	-3,152.93	1,134.22	1,053.24	993.58	59.66	17.653	
6,700.00	6,095.21	6,555.32	5,524.43	49.55	61.42	29.48	-3,206.29	1,153.95	1,069.91	1,009.25	60.66	17.639	
6,800.00	6,184.62	6,653.92	5,604.96	50.37	62.45	29.48	-3,259.64	1,173.68	1,086.58	1,024.93	61.65	17.624	
6,900.00	6,274.03	6,752.52	5,685.50	51.20	63.48	29.49	-3,312.99	1,193.41	1,103.25	1,040.60	62.65	17.610	
7,000.00	6,363.44	6,851.12	5,766.04	52.03	64.50	29.49	-3,366.34	1,213.14	1,119.92	1,056.28	63.65	17.596	
7,063.95	6,420.62	6,914.17	5,817.54	52.56	65.16	29.50	-3,400.46	1,225.76	1,130.58	1,066.30	64.28	17.588	
7,100.00	6,453.00	6,949.67	5,846.54	52.86	65.53	29.58	-3,419.67	1,232.86	1,136.88	1,072.26	64.63	17.591	
7,200.00	6,544.33	7,047.50	5,926.45	53.61	66.55	29.79	-3,472.61	1,252.44	1,157.40	1,091.96	65.44	17.686	
7,300.00	6,637.66	7,144.22	6,005.45	54.29	67.56	29.94	-3,524.94	1,271.79	1,182.36	1,116.31	66.05	17.902	
7,400.00	6,732.74	7,239.55	6,083.31	54.88	68.55	30.05	-3,576.52	1,290.87	1,211.71	1,145.26	66.45	18.236	
7,500.00	6,829.31	7,359.11	6,181.25	55.39	69.77	30.00	-3,640.85	1,314.66	1,245.24	1,178.33	66.91	18.611	
7,600.00	6,927.11	7,606.18	6,394.53	55.83	71.92	29.42	-3,757.51	1,357.79	1,275.73	1,207.51	68.21	18.702	
7,700.00	7,025.86	7,869.07	6,637.04	56.19	73.63	28.99	-3,852.19	1,392.81	1,298.66	1,229.71	68.96	18.833	
7,800.00	7,125.29	8,144.18	6,903.11	56.49	74.78	28.73	-3,916.87	1,416.73	1,313.17	1,244.16	69.02	19.027	
7,900.00	7,225.14	8,426.20	7,183.25	56.72	75.26	28.66	-3,945.29	1,427.23	1,318.65	1,250.32	68.33	19.297	
7,950.85	7,275.99	8,518.87	7,275.91	56.81	75.30	-179.89	-3,946.32	1,427.61	1,318.42	1,250.25	68.17	19.340	
7,976.46	7,301.60	8,544.42	7,301.45	56.84	75.30	-56.20	-3,946.32	1,427.61	1,318.39	1,250.15	68.24	19.319	
7,979.74	7,304.88	8,547.69	7,304.72	56.85	75.31	-56.20	-3,946.32	1,427.61	1,318.38	1,250.13	68.25	19.316	
8,000.00	7,325.14	8,567.89	7,324.93	56.88	75.31	-56.21	-3,946.32	1,427.60	1,318.33	1,250.02	68.31	19.300	
8,100.00	7,425.13	8,667.62	7,424.65	57.03	75.35	-56.22	-3,946.35	1,427.56	1,318.07	1,249.49	68.58	19.219	
8,200.00	7,525.13	8,767.34	7,524.38	57.19	75.38	-56.24	-3,946.39	1,427.48	1,317.84	1,248.98	68.86	19.138	
8,300.00	7,625.13	8,867.07	7,624.10	57.35	75.42	-56.25	-3,946.46	1,427.37	1,317.63	1,248.49	69.14	19.057	
8,400.00	7,725.13	8,966.79	7,723.83	57.51	75.45	-56.26	-3,946.55	1,427.22	1,317.43	1,248.01	69.43	18.975	
8,500.00	7,825.13	9,066.52	7,823.56	57.67	75.49	-56.27	-3,946.66	1,427.03	1,317.26	1,247.54	69.72	18.893	
8,600.00	7,925.13	9,166.25	7,923.28	57.83	75.53	-56.28	-3,946.79	1,426.81	1,317.11	1,247.10	70.02	18.811	
8,700.00	8,025.13	9,265.98	8,023.01	57.99	75.57	-56.29	-3,946.94	1,426.56	1,316.98	1,246.67	70.32	18.729	
8,800.00	8,125.13	9,365.70	8,122.74	58.16	75.61	-56.29	-3,947.11	1,426.27	1,316.88	1,246.25	70.62	18.646	
8,900.00	8,225.12	9,465.43	8,222.46	58.33	75.64	-56.30	-3,947.30	1,425.94	1,316.79	1,245.85	70.93	18.563	
9,000.00	8,325.12	9,565.16	8,322.19	58.50	75.68	-56.30	-3,947.51	1,425.58	1,316.72	1,245.47	71.25	18.480	
9,100.00	8,425.12	9,664.89	8,421.92	58.67	75.72	-56.30	-3,947.74	1,425.19	1,316.67	1,245.10	71.57	18.397	
9,200.00	8,525.12	9,764.61	8,521.64	58.84	75.76	-56.30	-3,948.00	1,424.76	1,316.65	1,244.76	71.89	18.314	
9,276.24	8,601.36	9,840.64	8,597.67	58.97	75.79	-56.30	-3,948.20	1,424.41	1,316.64	1,244.50	72.14	18.251	
9,300.00	8,625.12	9,864.34	8,621.37	59.02	75.80	-56.30	-3,948.27	1,424.29	1,316.64	1,244.42	72.22	18.231	
9,400.00	8,725.12	9,964.07	8,721.10	59.19	75.85	-56.29	-3,948.56	1,423.79	1,316.66	1,244.11	72.55	18.148	
9,500.00	8,825.12	10,063.80	8,820.82	59.37	75.89	-56.29	-3,948.88	1,423.26	1,316.69	1,243.81	72.89	18.065	
9,600.00	8,925.12	10,163.53	8,920.55	59.55	75.93	-56.28	-3,949.21	1,422.69	1,316.75	1,243.52	73.22	17.982	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04C-10 H04 596 - DD - Plan #2													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		
9,700.00	9,025.11	10,263.25	9,020.27	59.73	75.97	-56.27	-3,949.57	1,422.08	1,316.83	1,243.26	73.57	17.899		
9,800.00	9,125.11	10,363.15	9,120.17	59.91	76.02	-56.27	-3,949.94	1,421.45	1,316.92	1,243.01	73.91	17.817		
9,900.00	9,225.11	10,463.15	9,220.17	60.10	76.06	-56.26	-3,950.32	1,420.81	1,317.02	1,242.75	74.26	17.735		
10,000.00	9,325.11	10,563.15	9,320.16	60.28	76.10	-56.25	-3,950.69	1,420.17	1,317.11	1,242.50	74.61	17.653		
10,100.00	9,425.11	10,663.15	9,420.16	60.47	76.15	-56.24	-3,951.07	1,419.54	1,317.21	1,242.24	74.96	17.572		
10,200.00	9,525.11	10,763.15	9,520.16	60.66	76.19	-56.23	-3,951.44	1,418.90	1,317.30	1,241.99	75.32	17.490		
10,300.00	9,625.11	10,863.15	9,620.15	60.85	76.24	-56.22	-3,951.82	1,418.26	1,317.40	1,241.73	75.67	17.409		
10,400.00	9,725.11	10,963.15	9,720.15	61.04	76.28	-56.21	-3,952.19	1,417.63	1,317.49	1,241.46	76.03	17.328		
10,500.00	9,825.10	11,063.15	9,820.15	61.24	76.33	-56.20	-3,952.57	1,416.99	1,317.59	1,241.20	76.39	17.248		
10,600.00	9,925.10	11,163.15	9,920.14	61.43	76.38	-56.19	-3,952.94	1,416.35	1,317.68	1,240.93	76.75	17.168		
10,700.00	10,025.10	11,263.15	10,020.14	61.63	76.42	-56.18	-3,953.32	1,415.71	1,317.78	1,240.66	77.12	17.088		
10,800.00	10,125.10	11,363.15	10,120.14	61.82	76.47	-56.17	-3,953.69	1,415.08	1,317.88	1,240.39	77.48	17.008		
10,900.00	10,225.10	11,463.15	10,220.14	62.02	76.52	-56.16	-3,954.07	1,414.44	1,317.97	1,240.12	77.85	16.929		
11,000.00	10,325.10	11,563.15	10,320.13	62.23	76.57	-56.15	-3,954.44	1,413.80	1,318.07	1,239.85	78.22	16.850		
11,100.00	10,425.10	11,663.15	10,420.13	62.43	76.61	-56.14	-3,954.82	1,413.16	1,318.16	1,239.57	78.59	16.772		
11,200.00	10,525.10	11,763.15	10,520.13	62.63	76.66	-56.13	-3,955.19	1,412.53	1,318.26	1,239.29	78.97	16.694		
11,300.00	10,625.09	11,863.15	10,620.12	62.84	76.71	-56.12	-3,955.57	1,411.89	1,318.36	1,239.01	79.34	16.616		
11,400.00	10,725.09	11,963.15	10,720.12	63.04	76.76	-56.11	-3,955.94	1,411.25	1,318.45	1,238.73	79.72	16.538		
11,500.00	10,825.09	12,063.15	10,820.12	63.25	76.81	-56.10	-3,956.32	1,410.62	1,318.55	1,238.45	80.10	16.461		
11,540.89	10,865.98	12,104.03	10,861.00	63.34	76.83	-56.10	-3,956.47	1,410.35	1,318.59	1,238.33	80.26	16.430		
11,600.00	10,925.09	12,163.15	10,920.11	63.46	76.86	-56.10	-3,956.69	1,409.98	1,318.64	1,238.16	80.48	16.385		
11,700.00	11,025.09	12,263.15	11,020.11	63.67	76.91	-56.09	-3,957.07	1,409.34	1,318.74	1,237.88	80.86	16.308		
11,800.00	11,125.09	12,363.15	11,120.11	63.88	76.96	-56.08	-3,957.44	1,408.70	1,318.84	1,237.59	81.25	16.232		
11,900.00	11,225.09	12,463.15	11,220.11	64.09	77.01	-56.07	-3,957.82	1,408.07	1,318.93	1,237.30	81.63	16.157		
12,000.00	11,325.09	12,563.15	11,320.10	64.31	77.07	-56.06	-3,958.19	1,407.43	1,319.03	1,237.01	82.02	16.081		
12,100.00	11,425.08	12,663.15	11,420.10	64.52	77.12	-56.05	-3,958.57	1,406.79	1,319.12	1,236.71	82.41	16.007		
12,200.00	11,525.08	12,763.14	11,520.10	64.74	77.17	-56.04	-3,958.94	1,406.15	1,319.22	1,236.42	82.80	15.932		
12,300.00	11,625.08	12,863.14	11,620.09	64.96	77.22	-56.03	-3,959.32	1,405.52	1,319.32	1,236.12	83.19	15.858		
12,400.00	11,725.08	12,963.14	11,720.09	65.18	77.28	-56.02	-3,959.69	1,404.88	1,319.41	1,235.82	83.59	15.785		
12,500.00	11,825.08	12,999.97	11,756.92	65.40	77.30	-56.02	-3,959.83	1,404.65	1,321.02	1,236.60	84.42	15.648		
12,600.00	11,925.08	12,999.97	11,756.92	65.62	77.30	-56.02	-3,959.83	1,404.65	1,329.66	1,244.49	85.16	15.613 SF		
12,700.00	12,025.08	12,999.97	11,756.92	65.84	77.30	-56.02	-3,959.83	1,404.65	1,345.69	1,260.20	85.48	15.742		
12,800.00	12,125.07	12,999.97	11,756.92	66.07	77.30	-56.02	-3,959.83	1,404.65	1,368.85	1,283.45	85.40	16.029		
12,900.00	12,225.07	12,999.97	11,756.92	66.29	77.30	-56.02	-3,959.83	1,404.65	1,398.80	1,313.84	84.96	16.464		
13,005.64	12,330.71	12,999.97	11,756.92	66.53	77.30	-56.02	-3,959.83	1,404.65	1,437.34	1,353.17	84.17	17.077		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04D-03 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	15.74	163.74	46.15	170.12					
100.00	100.00	100.00	100.00	0.12	0.12	15.74	163.74	46.15	170.12	169.88	0.24	717.730		
116.67	116.67	116.67	116.67	0.18	0.15	15.74	163.74	46.15	170.12	169.79	0.33	522.067 CC		
200.00	200.00	200.00	200.00	0.48	0.29	15.74	163.74	46.15	170.12	169.35	0.77	220.927 ES		
300.00	300.00	295.37	295.33	0.84	0.46	16.44	164.09	48.40	171.14	169.81	1.33	128.202		
400.00	400.00	388.02	387.74	1.20	0.66	17.99	166.97	54.21	175.98	173.98	1.99	88.368		
500.00	499.95	479.78	478.86	1.54	0.90	-131.62	172.68	63.33	186.85	184.18	2.68	69.839		
600.00	599.63	569.91	567.77	1.89	1.20	-130.23	181.04	75.51	205.36	201.99	3.37	60.898		
700.00	698.77	657.70	653.60	2.24	1.56	-129.26	191.80	90.43	231.19	227.11	4.07	56.736		
800.00	797.08	748.49	741.59	2.63	1.97	-128.69	205.10	108.41	263.35	258.67	4.68	56.248 SF		
900.00	894.31	841.82	831.96	3.06	2.39	-128.78	218.99	127.15	298.95	293.69	5.26	56.841		
1,000.00	990.18	933.66	920.89	3.54	2.82	-129.29	232.66	145.58	337.72	331.84	5.89	57.384		
1,100.00	1,084.43	1,023.76	1,008.13	4.08	3.24	-130.06	246.07	163.67	379.78	373.22	6.56	57.880		
1,200.00	1,176.81	1,111.88	1,093.45	4.69	3.65	-130.95	259.18	181.35	425.23	417.95	7.29	58.365		
1,286.90	1,255.36	1,186.65	1,165.85	5.28	4.01	-131.73	270.31	196.36	467.56	459.61	7.95	58.804		
1,300.00	1,267.08	1,197.79	1,176.64	5.38	4.06	-132.02	271.96	198.60	474.15	466.09	8.06	58.837		
1,400.00	1,356.49	1,282.81	1,258.96	6.11	4.46	-133.95	284.62	215.66	524.69	515.85	8.84	59.381		
1,500.00	1,445.90	1,367.82	1,341.28	6.86	4.86	-135.56	297.27	232.73	575.60	565.98	9.63	59.784		
1,600.00	1,535.31	1,452.84	1,423.60	7.63	5.27	-136.90	309.92	249.79	626.81	616.38	10.43	60.093		
1,700.00	1,624.72	1,537.86	1,505.92	8.42	5.67	-138.05	322.57	266.85	678.24	666.99	11.24	60.336		
1,800.00	1,714.13	1,622.87	1,588.24	9.21	6.08	-139.04	335.22	283.92	729.84	717.78	12.06	60.534		
1,900.00	1,803.54	1,707.89	1,670.56	10.00	6.48	-139.90	347.88	300.98	781.58	768.70	12.88	60.698		
2,000.00	1,892.95	1,792.91	1,752.88	10.81	6.88	-140.65	360.53	318.05	833.43	819.73	13.70	60.836		
2,100.00	1,982.36	1,877.92	1,835.20	11.61	7.29	-141.31	373.18	335.11	885.38	870.86	14.53	60.954		
2,200.00	2,071.77	1,962.94	1,917.52	12.42	7.69	-141.91	385.83	352.18	937.41	922.06	15.35	61.057		
2,300.00	2,161.18	2,047.96	1,999.84	13.23	8.10	-142.44	398.48	369.24	989.50	973.32	16.18	61.147		
2,400.00	2,250.59	2,132.97	2,082.16	14.05	8.50	-142.92	411.14	386.31	1,041.65	1,024.64	17.01	61.227		
2,500.00	2,340.00	2,217.99	2,164.48	14.86	8.91	-143.35	423.79	403.37	1,093.85	1,076.00	17.84	61.299		
2,600.00	2,429.41	2,303.01	2,246.80	15.68	9.31	-143.74	436.44	420.43	1,146.09	1,127.41	18.68	61.364		
2,700.00	2,518.82	2,388.02	2,329.12	16.50	9.72	-144.10	449.09	437.50	1,198.36	1,178.85	19.51	61.422		
2,800.00	2,608.23	2,473.04	2,411.44	17.32	10.13	-144.43	461.74	454.56	1,250.67	1,230.33	20.34	61.476		
2,900.00	2,697.64	2,558.06	2,493.76	18.14	10.53	-144.73	474.40	471.63	1,303.00	1,281.83	21.18	61.525		
3,000.00	2,787.05	2,643.07	2,576.08	18.96	10.94	-145.01	487.05	488.69	1,355.36	1,333.35	22.01	61.570		
3,100.00	2,876.46	2,728.09	2,658.40	19.78	11.34	-145.27	499.70	505.76	1,407.74	1,384.89	22.85	61.612		
3,200.00	2,965.87	2,813.11	2,740.72	20.60	11.75	-145.51	512.35	522.82	1,460.14	1,436.46	23.68	61.650		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04D-10 H04 596 - DD - Plan #2													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				
0.00	0.00	0.00	0.00	0.00	0.00	-152.82	-45.70	-23.47	51.38							
100.00	100.00	100.00	100.00	0.12	0.12	-152.82	-45.70	-23.47	51.38	51.14	0.24	216.750				
103.33	103.33	103.33	103.33	0.13	0.12	-152.82	-45.70	-23.47	51.38	51.12	0.25	201.649 CC, ES				
200.00	200.00	198.68	198.68	0.48	0.29	-152.79	-46.24	-23.78	52.01	51.19	0.82	63.159				
300.00	300.00	295.79	295.65	0.84	0.48	-152.55	-50.52	-26.25	57.10	55.55	1.55	36.823				
400.00	400.00	392.15	391.50	1.20	0.73	-152.17	-58.98	-31.13	67.23	64.95	2.28	29.465				
500.00	499.95	487.48	485.72	1.54	1.04	57.93	-71.46	-38.34	80.95	77.97	2.98	27.138				
600.00	599.63	581.59	577.93	1.89	1.42	61.35	-87.76	-47.75	97.09	93.43	3.66	26.533				
700.00	698.77	674.20	667.64	2.24	1.86	65.54	-107.61	-59.21	116.16	111.83	4.33	26.819				
800.00	797.08	765.04	754.47	2.63	2.38	69.81	-130.73	-72.56	138.65	133.63	5.02	27.611				
900.00	894.31	857.43	841.49	3.06	2.94	73.83	-157.80	-87.69	164.42	158.75	5.67	28.986				
1,000.00	990.18	955.03	932.81	3.54	3.55	77.00	-189.61	-100.86	189.83	183.48	6.34	29.928				
1,100.00	1,084.43	1,054.00	1,024.73	4.08	4.20	79.40	-225.01	-110.27	213.72	206.51	7.21	29.656				
1,200.00	1,176.81	1,154.32	1,116.98	4.69	4.89	81.31	-264.02	-115.72	235.86	227.57	8.28	28.482				
1,286.90	1,255.36	1,242.57	1,197.15	5.28	5.52	82.73	-300.87	-117.11	253.53	244.14	9.39	26.996				
1,300.00	1,267.08	1,255.97	1,209.23	5.38	5.62	83.00	-306.66	-117.04	256.07	246.49	9.57	26.751				
1,400.00	1,356.49	1,359.00	1,301.21	6.11	6.40	84.25	-352.95	-114.04	274.52	263.51	11.02	24.920				
1,500.00	1,445.90	1,463.02	1,392.26	6.86	7.25	84.30	-402.70	-106.61	291.16	278.62	12.54	23.218				
1,600.00	1,535.31	1,567.44	1,481.53	7.63	8.15	83.35	-455.51	-94.71	305.95	291.84	14.11	21.682				
1,700.00	1,624.72	1,671.63	1,568.23	8.42	9.12	81.51	-510.92	-78.45	319.09	303.40	15.69	20.332				
1,800.00	1,714.13	1,774.97	1,651.63	9.21	10.14	78.91	-568.41	-58.03	331.04	313.78	17.26	19.180				
1,900.00	1,803.54	1,874.69	1,729.84	10.00	11.16	75.84	-625.79	-34.93	342.58	323.88	18.71	18.311				
2,000.00	1,892.95	1,972.34	1,806.16	10.81	12.18	72.96	-682.19	-11.92	354.94	334.84	20.09	17.664				
2,100.00	1,982.36	2,069.98	1,882.48	11.61	13.21	70.28	-738.59	11.08	368.14	346.70	21.44	17.168				
2,200.00	2,071.77	2,167.63	1,958.80	12.42	14.26	67.78	-794.99	34.09	382.10	359.37	22.73	16.809				
2,300.00	2,161.18	2,265.28	2,035.12	13.23	15.31	65.46	-851.39	57.09	396.75	372.78	23.97	16.553				
2,400.00	2,250.59	2,362.93	2,111.45	14.05	16.37	63.30	-907.79	80.10	412.00	386.84	25.16	16.376				
2,500.00	2,340.00	2,460.57	2,187.77	14.86	17.44	61.29	-964.19	103.10	427.80	401.49	26.31	16.262				
2,600.00	2,429.41	2,558.22	2,264.09	15.68	18.51	59.43	-1,020.59	126.11	444.08	416.67	27.41	16.199				
2,700.00	2,518.82	2,655.87	2,340.41	16.50	19.58	57.69	-1,076.98	149.11	460.80	432.31	28.49	16.174 SF				
2,800.00	2,608.23	2,753.52	2,416.73	17.32	20.66	56.08	-1,133.38	172.12	477.90	448.37	29.53	16.182				
2,900.00	2,697.64	2,851.17	2,493.05	18.14	21.74	54.58	-1,189.78	195.13	495.35	464.80	30.55	16.214				
3,000.00	2,787.05	2,948.81	2,569.37	18.96	22.82	53.18	-1,246.18	218.13	513.12	481.57	31.54	16.267				
3,100.00	2,876.46	3,046.46	2,645.70	19.78	23.91	51.87	-1,302.58	241.14	531.16	498.65	32.52	16.336				
3,200.00	2,965.87	3,144.11	2,722.02	20.60	24.99	50.65	-1,358.98	264.14	549.46	515.99	33.47	16.417				
3,300.00	3,055.28	3,241.76	2,798.34	21.42	26.08	49.51	-1,415.38	287.15	567.99	533.58	34.41	16.508				
3,400.00	3,144.69	3,339.40	2,874.66	22.25	27.17	48.43	-1,471.78	310.15	586.73	551.40	35.33	16.607				
3,500.00	3,234.10	3,437.05	2,950.98	23.07	28.26	47.43	-1,528.18	333.16	605.65	569.41	36.24	16.712				
3,600.00	3,323.51	3,534.70	3,027.30	23.90	29.36	46.48	-1,584.58	356.16	624.75	587.61	37.14	16.822				
3,700.00	3,412.92	3,632.35	3,103.63	24.72	30.45	45.59	-1,640.98	379.17	644.00	605.97	38.03	16.934				
3,800.00	3,502.33	3,729.99	3,179.95	25.55	31.54	44.75	-1,697.38	402.17	663.39	624.48	38.91	17.050				
3,900.00	3,591.74	3,827.64	3,256.27	26.37	32.64	43.96	-1,753.77	425.18	682.91	643.13	39.78	17.166				
4,000.00	3,681.15	3,925.29	3,332.59	27.20	33.73	43.22	-1,810.17	448.18	702.55	661.91	40.65	17.284				
4,100.00	3,770.56	4,022.94	3,408.91	28.02	34.83	42.51	-1,866.57	471.19	722.31	680.80	41.51	17.401				
4,200.00	3,859.97	4,120.59	3,485.23	28.85	35.93	41.84	-1,922.97	494.19	742.16	699.80	42.36	17.519				
4,300.00	3,949.38	4,218.23	3,561.55	29.68	37.02	41.21	-1,979.37	517.20	762.10	718.89	43.21	17.636				
4,400.00	4,038.79	4,315.88	3,637.88	30.50	38.12	40.60	-2,035.77	540.20	782.14	738.08	44.06	17.752				
4,500.00	4,128.20	4,413.53	3,714.20	31.33	39.22	40.03	-2,092.17	563.21	802.25	757.34	44.90	17.866				
4,600.00	4,217.61	4,511.18	3,790.52	32.16	40.32	39.49	-2,148.57	586.21	822.43	776.69	45.74	17.980				
4,700.00	4,307.02	4,608.82	3,866.84	32.98	41.42	38.97	-2,204.97	609.22	842.68	796.11	46.58	18.092				
4,800.00	4,396.43	4,706.47	3,943.16	33.81	42.51	38.47	-2,261.37	632.23	863.00	815.59	47.41	18.203				
4,900.00	4,485.83	4,804.12	4,019.48	34.64	43.61	38.00	-2,317.77	655.23	883.37	835.13	48.24	18.311				

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04D-10 H04 596 - DD - Plan #2													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	4,575.24	4,901.77	4,095.80	35.47	44.71	37.55	-2,374.17	678.24	903.80	854.73	49.07	18.418		
5,100.00	4,664.65	4,999.41	4,172.13	36.29	45.81	37.12	-2,430.56	701.24	924.29	874.39	49.90	18.524		
5,200.00	4,754.06	5,097.06	4,248.45	37.12	46.91	36.71	-2,486.96	724.25	944.82	894.09	50.72	18.627		
5,300.00	4,843.47	5,194.71	4,324.77	37.95	48.01	36.31	-2,543.36	747.25	965.39	913.84	51.55	18.728		
5,400.00	4,932.88	5,292.36	4,401.09	38.78	49.12	35.94	-2,599.76	770.26	986.01	933.64	52.37	18.828		
5,500.00	5,022.29	5,390.01	4,477.41	39.61	50.22	35.57	-2,656.16	793.26	1,006.66	953.47	53.19	18.926		
5,600.00	5,111.70	5,487.65	4,553.73	40.43	51.32	35.22	-2,712.56	816.27	1,027.36	973.35	54.01	19.021		
5,700.00	5,201.11	5,585.30	4,630.05	41.26	52.42	34.89	-2,768.96	839.27	1,048.09	993.26	54.83	19.115		
5,800.00	5,290.52	5,682.95	4,706.38	42.09	53.52	34.57	-2,825.36	862.28	1,068.85	1,013.20	55.65	19.207		
5,900.00	5,379.93	5,780.60	4,782.70	42.92	54.62	34.26	-2,881.76	885.28	1,089.64	1,033.17	56.47	19.297		
6,000.00	5,469.34	5,878.24	4,859.02	43.75	55.72	33.96	-2,938.16	908.29	1,110.46	1,053.18	57.28	19.386		
6,100.00	5,558.75	5,975.89	4,935.34	44.57	56.83	33.67	-2,994.56	931.29	1,131.31	1,073.21	58.10	19.472		
6,200.00	5,648.16	6,073.54	5,011.66	45.40	57.93	33.40	-3,050.96	954.30	1,152.19	1,093.27	58.91	19.557		
6,300.00	5,737.57	6,171.19	5,087.98	46.23	59.03	33.13	-3,107.35	977.30	1,173.09	1,113.36	59.73	19.640		
6,400.00	5,826.98	6,268.84	5,164.31	47.06	60.13	32.87	-3,163.75	1,000.31	1,194.01	1,133.47	60.55	19.721		
6,500.00	5,916.39	6,366.48	5,240.63	47.89	61.23	32.63	-3,220.15	1,023.32	1,214.96	1,153.60	61.36	19.801		
6,600.00	6,005.80	6,464.13	5,316.95	48.72	62.34	32.39	-3,276.55	1,046.32	1,235.93	1,173.75	62.17	19.879		
6,700.00	6,095.21	6,561.78	5,393.27	49.55	63.44	32.15	-3,332.95	1,069.33	1,256.92	1,193.93	62.99	19.955		
6,800.00	6,184.62	6,659.43	5,469.59	50.37	64.54	31.93	-3,389.35	1,092.33	1,277.92	1,214.12	63.80	20.030		
6,900.00	6,274.03	6,757.07	5,545.91	51.20	65.65	31.71	-3,445.75	1,115.34	1,298.95	1,234.33	64.61	20.103		
7,000.00	6,363.44	6,854.72	5,622.23	52.03	66.75	31.50	-3,502.15	1,138.34	1,319.99	1,254.56	65.43	20.175		
7,063.95	6,420.62	6,917.17	5,671.04	52.56	67.45	31.37	-3,538.22	1,153.05	1,333.46	1,267.51	65.95	20.220		
7,100.00	6,453.00	6,952.30	5,698.50	52.86	67.85	31.42	-3,558.51	1,161.33	1,341.33	1,275.11	66.23	20.253		
7,200.00	6,544.33	7,048.92	5,774.02	53.61	68.94	31.52	-3,614.31	1,184.09	1,366.16	1,299.29	66.87	20.431		
7,300.00	6,637.66	7,144.10	5,848.41	54.29	70.02	31.60	-3,669.29	1,206.52	1,395.32	1,328.01	67.31	20.730		
7,400.00	6,732.74	7,237.60	5,921.49	54.88	71.07	31.66	-3,723.29	1,228.55	1,428.81	1,361.24	67.57	21.147		
7,500.00	6,829.31	7,329.15	5,993.05	55.39	72.11	31.72	-3,776.17	1,250.11	1,466.57	1,398.92	67.64	21.680		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04E-03 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	15.64	153.63	43.02	159.54					
100.00	100.00	100.00	100.00	0.12	0.12	15.64	153.63	43.02	159.54	159.30	0.24	673.097		
200.00	200.00	200.00	200.00	0.48	0.29	15.64	153.63	43.02	159.54	158.77	0.77	207.188		
216.67	216.67	216.67	216.67	0.54	0.32	15.64	153.63	43.02	159.54	158.68	0.86	185.759 CC		
300.00	300.00	300.00	300.00	0.84	0.47	15.64	153.63	43.02	159.54	158.24	1.30	122.438 ES		
400.00	400.00	394.37	394.33	1.20	0.64	16.23	154.76	45.06	161.29	159.42	1.87	86.215		
500.00	499.95	488.24	487.94	1.54	0.83	-133.98	158.13	51.13	168.43	165.95	2.48	67.854		
600.00	599.63	580.95	579.94	1.89	1.08	-132.84	163.65	61.05	182.76	179.63	3.13	58.410		
700.00	698.77	671.83	669.49	2.24	1.38	-131.85	171.15	74.56	204.10	200.29	3.81	53.577		
800.00	797.08	761.18	756.72	2.63	1.73	-130.99	180.52	91.44	232.18	227.69	4.49	51.672 SF		
900.00	894.31	855.66	848.59	3.06	2.13	-130.67	191.25	110.74	264.83	259.72	5.11	51.826		
1,000.00	990.18	948.82	939.17	3.54	2.52	-130.97	201.82	129.77	300.76	294.99	5.77	52.131		
1,100.00	1,084.43	1,040.40	1,028.21	4.08	2.92	-131.62	212.21	148.48	340.02	333.54	6.48	52.512		
1,200.00	1,176.81	1,130.14	1,115.46	4.69	3.32	-132.48	222.39	166.81	382.74	375.51	7.23	52.969		
1,286.90	1,255.36	1,206.45	1,189.66	5.28	3.65	-133.28	231.05	182.40	422.73	414.82	7.91	53.435		
1,300.00	1,267.08	1,217.82	1,200.72	5.38	3.70	-133.56	232.34	184.72	428.97	420.95	8.02	53.476		
1,400.00	1,356.49	1,304.67	1,285.16	6.11	4.09	-135.41	242.20	202.47	476.82	468.00	8.82	54.059		
1,500.00	1,445.90	1,391.51	1,369.60	6.86	4.48	-136.93	252.05	220.21	524.98	515.35	9.63	54.496		
1,600.00	1,535.31	1,478.35	1,454.04	7.63	4.86	-138.20	261.91	237.95	573.39	562.93	10.46	54.836		
1,700.00	1,624.72	1,565.20	1,538.47	8.42	5.25	-139.28	271.76	255.69	621.98	610.70	11.29	55.107		
1,800.00	1,714.13	1,652.04	1,622.91	9.21	5.64	-140.19	281.62	273.43	670.72	658.60	12.12	55.329		
1,900.00	1,803.54	1,738.89	1,707.35	10.00	6.03	-140.99	291.47	291.17	719.57	706.61	12.96	55.514		
2,000.00	1,892.95	1,825.73	1,791.79	10.81	6.42	-141.69	301.33	308.91	768.52	754.71	13.80	55.671		
2,100.00	1,982.36	1,912.57	1,876.23	11.61	6.81	-142.30	311.18	326.65	817.54	802.89	14.65	55.806		
2,200.00	2,071.77	1,999.42	1,960.67	12.42	7.20	-142.84	321.04	344.40	866.63	851.13	15.50	55.924		
2,300.00	2,161.18	2,086.26	2,045.11	13.23	7.59	-143.33	330.89	362.14	915.76	899.42	16.35	56.027		
2,400.00	2,250.59	2,173.11	2,129.55	14.05	7.98	-143.77	340.75	379.88	964.95	947.75	17.19	56.119		
2,500.00	2,340.00	2,259.95	2,213.99	14.86	8.37	-144.16	350.60	397.62	1,014.17	996.12	18.05	56.201		
2,600.00	2,429.41	2,346.79	2,298.43	15.68	8.76	-144.52	360.46	415.36	1,063.43	1,044.53	18.90	56.274		
2,700.00	2,518.82	2,433.64	2,382.87	16.50	9.15	-144.84	370.31	433.10	1,112.71	1,092.96	19.75	56.341		
2,800.00	2,608.23	2,520.48	2,467.31	17.32	9.54	-145.14	380.17	450.84	1,162.02	1,141.42	20.60	56.402		
2,900.00	2,697.64	2,607.33	2,551.75	18.14	9.93	-145.42	390.02	468.58	1,211.35	1,189.89	21.46	56.458		
3,000.00	2,787.05	2,694.17	2,636.18	18.96	10.32	-145.67	399.88	486.33	1,260.70	1,238.39	22.31	56.509		
3,100.00	2,876.46	2,781.01	2,720.62	19.78	10.71	-145.91	409.73	504.07	1,310.07	1,286.91	23.16	56.556		
3,200.00	2,965.87	2,867.86	2,805.06	20.60	11.10	-146.12	419.59	521.81	1,359.45	1,335.43	24.02	56.600		
3,300.00	3,055.28	2,954.70	2,889.50	21.42	11.50	-146.32	429.44	539.55	1,408.85	1,383.98	24.87	56.640		
3,400.00	3,144.69	3,041.54	2,973.94	22.25	11.89	-146.51	439.30	557.29	1,458.26	1,432.53	25.73	56.678		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF04E-04 H04 596 - DD - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	12.12	156.66	33.64	160.23					
100.00	100.00	100.00	100.00	0.12	0.12	12.12	156.66	33.64	160.23	160.00	0.24	676.013		
200.00	200.00	200.00	200.00	0.48	0.29	12.12	156.66	33.64	160.23	159.46	0.77	208.086		
300.00	300.00	300.00	300.00	0.84	0.47	12.12	156.66	33.64	160.23	158.93	1.30	122.969		
400.00	400.00	400.38	400.33	1.20	0.65	11.18	157.07	31.03	160.11	158.26	1.84	86.851		
405.18	405.18	405.57	405.51	1.21	0.66	-140.37	157.11	30.75	160.10	158.23	1.87	85.508 CC, ES		
500.00	499.95	500.00	499.63	1.54	0.86	-143.58	158.28	23.30	162.09	159.69	2.40	67.523		
600.00	599.63	597.61	596.41	1.89	1.13	-149.30	160.25	10.77	169.57	166.55	3.02	56.158		
700.00	698.77	692.05	689.31	2.24	1.46	-156.36	162.87	-5.98	184.57	180.84	3.73	49.464		
800.00	797.08	782.32	777.21	2.63	1.85	-163.61	166.05	-26.21	208.84	204.33	4.51	46.257		
900.00	894.31	867.61	859.29	3.06	2.29	-170.22	169.63	-49.08	243.09	237.77	5.32	45.712 SF		
1,000.00	990.18	947.31	934.99	3.54	2.77	-175.84	173.49	-73.71	287.04	280.94	6.09	47.114		
1,100.00	1,084.43	1,021.05	1,004.05	4.08	3.26	179.52	177.49	-99.25	339.85	333.04	6.81	49.888		
1,200.00	1,176.81	1,088.63	1,066.41	4.69	3.76	175.71	181.52	-124.95	400.49	393.02	7.48	53.571		
1,286.90	1,255.36	1,142.30	1,115.26	5.28	4.20	172.90	184.97	-146.91	458.76	450.74	8.02	57.231		
1,300.00	1,267.08	1,150.01	1,122.22	5.38	4.27	172.56	185.48	-150.17	467.92	459.81	8.10	57.754		
1,400.00	1,356.49	1,200.00	1,167.06	6.11	4.69	170.50	188.90	-172.01	539.11	530.49	8.62	62.565		
1,500.00	1,445.90	1,260.93	1,220.89	6.86	5.27	168.30	193.32	-200.19	612.19	603.02	9.17	66.776		
1,600.00	1,535.31	1,311.87	1,265.19	7.63	5.77	166.67	197.22	-225.05	687.12	677.46	9.66	71.115		
1,700.00	1,624.72	1,360.03	1,306.44	8.42	6.28	165.27	201.07	-249.61	763.69	753.54	10.14	75.299		
1,800.00	1,714.13	1,400.00	1,340.18	9.21	6.70	164.20	204.38	-270.76	841.76	831.22	10.55	79.815		
1,900.00	1,803.54	1,448.66	1,380.65	10.00	7.24	162.98	208.57	-297.46	921.15	910.13	11.02	83.626		
2,000.00	1,892.95	1,502.78	1,425.13	10.81	7.85	161.76	213.34	-327.91	1,001.51	989.99	11.53	86.897		
2,100.00	1,982.36	1,560.71	1,472.73	11.61	8.51	160.63	218.46	-360.54	1,082.07	1,069.99	12.07	89.616		
2,200.00	2,071.77	1,618.64	1,520.33	12.42	9.17	159.66	223.57	-393.16	1,162.76	1,150.13	12.63	92.057		
2,300.00	2,161.18	1,676.58	1,567.93	13.23	9.82	158.80	228.69	-425.79	1,243.56	1,230.36	13.20	94.242		
2,400.00	2,250.59	1,734.51	1,615.53	14.05	10.48	158.05	233.80	-458.41	1,324.44	1,310.68	13.77	96.204		
2,500.00	2,340.00	1,792.44	1,663.13	14.86	11.14	157.38	238.92	-491.04	1,405.40	1,391.05	14.35	97.970		
2,600.00	2,429.41	1,850.37	1,710.72	15.68	11.81	156.78	244.03	-523.66	1,486.42	1,471.49	14.93	99.559		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF05A-03 H04 596 - DD - Plan #2		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			
0.00	0.00	0.00	0.00	0.00	0.00	15.72	144.52	40.68	150.14						
100.00	100.00	100.00	100.00	0.12	0.12	15.72	144.52	40.68	150.14	149.90	0.24	633.414			
116.67	116.67	116.67	116.67	0.18	0.15	15.72	144.52	40.68	150.14	149.81	0.33	460.737	CC		
200.00	200.00	200.00	200.00	0.48	0.29	15.72	144.52	40.68	150.14	149.37	0.77	194.974	ES		
300.00	300.00	295.49	295.45	0.84	0.47	16.45	145.35	42.91	151.62	150.28	1.34	112.731			
400.00	400.00	390.50	390.19	1.20	0.68	18.54	147.83	49.57	156.23	154.25	1.98	78.920			
500.00	499.95	484.59	483.54	1.54	0.94	-130.16	151.90	60.51	166.01	163.36	2.65	62.589			
600.00	599.63	577.23	574.78	1.89	1.27	-127.72	157.48	75.48	182.65	179.29	3.36	54.340			
700.00	698.77	672.01	667.42	2.24	1.64	-125.82	164.47	94.25	205.29	201.29	4.00	51.295			
800.00	797.08	768.58	761.73	2.63	2.02	-125.09	171.71	113.71	231.21	226.60	4.61	50.103			
900.00	894.31	864.24	855.15	3.06	2.42	-125.27	178.89	132.99	260.06	254.79	5.27	49.367			
1,000.00	990.18	958.73	947.44	3.54	2.80	-126.05	185.98	152.03	291.92	285.95	5.97	48.896			
1,100.00	1,084.43	1,051.80	1,038.32	4.08	3.19	-127.21	192.96	170.78	326.96	320.24	6.72	48.631			
1,200.00	1,176.81	1,143.18	1,127.57	4.69	3.57	-128.55	199.81	189.20	365.38	357.85	7.52	48.564	SF		
1,286.90	1,255.36	1,221.03	1,203.59	5.28	3.89	-129.77	205.65	204.89	401.63	393.38	8.25	48.664			
1,300.00	1,267.08	1,232.65	1,214.94	5.38	3.94	-130.09	206.53	207.23	407.31	398.94	8.37	48.666			
1,400.00	1,356.49	1,321.33	1,301.55	6.11	4.31	-132.31	213.18	225.10	450.98	441.76	9.22	48.930			
1,500.00	1,445.90	1,410.01	1,388.15	6.86	4.68	-134.14	219.83	242.97	495.10	485.03	10.07	49.157			
1,600.00	1,535.31	1,498.69	1,474.76	7.63	5.05	-135.68	226.48	260.84	539.58	528.65	10.93	49.358			
1,700.00	1,624.72	1,587.37	1,561.37	8.42	5.43	-136.99	233.14	278.71	584.33	572.53	11.79	49.541			
1,800.00	1,714.13	1,676.05	1,647.98	9.21	5.80	-138.11	239.79	296.58	629.28	616.62	12.66	49.708			
1,900.00	1,803.54	1,764.74	1,734.58	10.00	6.17	-139.08	246.44	314.45	674.41	660.89	13.53	49.863			
2,000.00	1,892.95	1,853.42	1,821.19	10.81	6.54	-139.94	253.09	332.32	719.68	705.28	14.39	50.007			
2,100.00	1,982.36	1,942.10	1,907.80	11.61	6.91	-140.69	259.75	350.19	765.05	749.80	15.26	50.140			
2,200.00	2,071.77	2,030.78	1,994.41	12.42	7.28	-141.36	266.40	368.06	810.53	794.40	16.13	50.264			
2,300.00	2,161.18	2,119.46	2,081.01	13.23	7.66	-141.96	273.05	385.93	856.08	839.09	16.99	50.380			
2,400.00	2,250.59	2,208.14	2,167.62	14.05	8.03	-142.50	279.71	403.80	901.70	883.84	17.86	50.488			
2,500.00	2,340.00	2,296.82	2,254.23	14.86	8.40	-142.99	286.36	421.67	947.38	928.65	18.73	50.590			
2,600.00	2,429.41	2,385.51	2,340.83	15.68	8.77	-143.43	293.01	439.54	993.10	973.51	19.59	50.684			
2,700.00	2,518.82	2,474.19	2,427.44	16.50	9.15	-143.83	299.66	457.41	1,038.87	1,018.41	20.46	50.773			
2,800.00	2,608.23	2,562.87	2,514.05	17.32	9.52	-144.20	306.32	475.28	1,084.68	1,063.35	21.33	50.857			
2,900.00	2,697.64	2,651.55	2,600.66	18.14	9.89	-144.54	312.97	493.15	1,130.52	1,108.32	22.19	50.936			
3,000.00	2,787.05	2,740.23	2,687.26	18.96	10.26	-144.86	319.62	511.02	1,176.39	1,153.32	23.06	51.010			
3,100.00	2,876.46	2,828.91	2,773.87	19.78	10.64	-145.15	326.28	528.89	1,222.28	1,198.35	23.93	51.081			
3,200.00	2,965.87	2,917.60	2,860.48	20.60	11.01	-145.42	332.93	546.76	1,268.20	1,243.40	24.80	51.147			
3,300.00	3,055.28	3,006.28	2,947.09	21.42	11.38	-145.67	339.58	564.63	1,314.14	1,288.48	25.66	51.210			
3,400.00	3,144.69	3,094.96	3,033.69	22.25	11.75	-145.90	346.23	582.50	1,360.09	1,333.57	26.53	51.269			
3,500.00	3,234.10	3,183.64	3,120.30	23.07	12.13	-146.12	352.89	600.37	1,406.07	1,378.67	27.39	51.326			
3,600.00	3,323.51	3,272.32	3,206.91	23.90	12.50	-146.33	359.54	618.25	1,452.06	1,423.80	28.26	51.379			
3,700.00	3,412.92	3,361.00	3,293.51	24.72	12.87	-146.52	366.19	636.12	1,498.06	1,468.93	29.13	51.430			

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF05A-04 H04 596 - DD - Plan #2												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	11.58	137.43	28.16	140.29	140.05	0.24	591.871	
100.00	100.00	100.00	100.00	0.12	0.12	11.58	137.43	28.16	140.29	140.05	0.24	591.871	
200.00	200.00	200.00	200.00	0.48	0.29	11.58	137.43	28.16	140.29	139.52	0.77	182.186	
300.00	300.00	300.00	300.00	0.84	0.47	11.58	137.43	28.16	140.29	138.99	1.30	107.663	
400.00	400.00	400.71	400.66	1.20	0.65	10.50	137.68	25.52	140.03	138.18	1.84	75.905	
412.29	412.29	413.06	412.99	1.24	0.67	-141.24	137.75	24.83	140.00	138.08	1.91	73.166 CC, ES	
500.00	499.95	500.66	500.29	1.54	0.86	-144.75	138.42	17.67	141.67	139.27	2.40	58.976	
600.00	599.63	598.66	597.44	1.89	1.13	-151.29	139.61	4.96	148.81	145.79	3.02	49.277	
700.00	698.77	693.54	690.76	2.24	1.46	-159.25	141.20	-12.07	163.72	159.99	3.73	43.840	
800.00	797.08	784.34	779.16	2.63	1.86	-167.23	143.13	-32.66	188.18	183.66	4.52	41.604 SF	
900.00	894.31	870.25	861.81	3.06	2.31	-174.31	145.31	-55.97	222.79	217.46	5.33	41.788	
1,000.00	990.18	950.68	938.17	3.54	2.79	179.83	147.67	-81.14	267.08	260.97	6.11	43.700	
1,100.00	1,084.43	1,025.26	1,007.96	4.08	3.29	175.09	150.12	-107.31	320.09	313.25	6.84	46.792	
1,200.00	1,176.81	1,093.77	1,071.12	4.69	3.80	171.24	152.60	-133.73	380.75	373.24	7.52	50.663	
1,286.90	1,255.36	1,148.33	1,120.71	5.28	4.26	168.40	154.72	-156.36	438.90	430.83	8.07	54.364	
1,300.00	1,267.08	1,156.18	1,127.79	5.38	4.32	168.09	155.03	-159.74	448.03	439.87	8.16	54.894	
1,400.00	1,356.49	1,214.27	1,179.75	6.11	4.83	165.92	157.46	-185.59	518.91	510.18	8.73	59.464	
1,500.00	1,445.90	1,269.24	1,228.16	6.86	5.35	164.13	159.88	-211.50	591.72	582.44	9.28	63.778	
1,600.00	1,535.31	1,321.24	1,273.26	7.63	5.87	162.61	162.30	-237.27	666.28	656.48	9.80	67.965	
1,700.00	1,624.72	1,370.45	1,315.28	8.42	6.39	161.30	164.69	-262.78	742.46	732.15	10.31	72.016	
1,800.00	1,714.13	1,417.01	1,354.41	9.21	6.90	160.15	167.04	-287.90	820.10	809.31	10.79	76.035	
1,900.00	1,803.54	1,464.64	1,393.81	10.00	7.43	159.07	169.53	-314.54	899.08	887.81	11.27	79.793	
2,000.00	1,892.95	1,524.11	1,442.79	10.81	8.10	157.88	172.68	-348.12	978.56	966.71	11.85	82.582	
2,100.00	1,982.36	1,583.58	1,491.77	11.61	8.77	156.86	175.82	-381.70	1,058.19	1,045.75	12.44	85.061	
2,200.00	2,071.77	1,643.05	1,540.75	12.42	9.44	155.99	178.97	-415.28	1,137.92	1,124.88	13.04	87.265	
2,300.00	2,161.18	1,702.51	1,589.73	13.23	10.11	155.22	182.12	-448.86	1,217.74	1,204.09	13.65	89.230	
2,400.00	2,250.59	1,761.98	1,638.71	14.05	10.79	154.55	185.26	-482.44	1,297.63	1,283.37	14.26	90.982	
2,500.00	2,340.00	1,821.45	1,687.69	14.86	11.46	153.95	188.41	-516.02	1,377.58	1,362.70	14.88	92.552	
2,600.00	2,429.41	1,880.92	1,736.67	15.68	12.14	153.42	191.55	-549.61	1,457.58	1,442.07	15.51	93.960	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF05B-03 H04 596 - DD - Plan #3												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	15.61	134.40	37.55	139.55				
100.00	100.00	100.00	100.00	0.12	0.12	15.61	134.40	37.55	139.55	139.31	0.24	588.747	
200.00	200.00	200.00	200.00	0.48	0.29	15.61	134.40	37.55	139.55	138.78	0.77	181.224	
216.67	216.67	216.67	216.67	0.54	0.32	15.61	134.40	37.55	139.55	138.69	0.86	162.480 CC	
300.00	300.00	300.00	300.00	0.84	0.47	15.61	134.40	37.55	139.55	138.25	1.30	107.095 ES	
400.00	400.00	396.75	396.70	1.20	0.64	16.50	134.87	39.95	140.70	138.85	1.85	75.894	
500.00	499.95	493.03	492.70	1.54	0.85	-132.98	136.26	47.11	146.14	143.70	2.44	59.915	
600.00	599.63	588.39	587.29	1.89	1.10	-130.90	138.55	58.88	157.74	154.67	3.08	51.274	
700.00	698.77	682.33	679.78	2.24	1.42	-128.89	141.69	74.98	175.44	171.67	3.77	46.508	
800.00	797.08	779.33	774.77	2.63	1.77	-127.54	145.45	94.27	197.95	193.52	4.43	44.668	
900.00	894.31	875.97	869.40	3.06	2.13	-127.36	149.19	113.51	223.58	218.47	5.12	43.687	
1,000.00	990.18	971.58	963.03	3.54	2.50	-127.99	152.89	132.53	252.35	246.50	5.85	43.161	
1,100.00	1,084.43	1,065.92	1,055.40	4.08	2.87	-129.11	156.55	151.31	284.38	277.76	6.62	42.958 SF	
1,200.00	1,176.81	1,158.71	1,146.27	4.69	3.23	-130.51	160.14	169.78	319.87	312.44	7.43	43.027	
1,286.90	1,255.36	1,237.90	1,223.82	5.28	3.54	-131.82	163.21	185.54	353.66	345.49	8.17	43.285	
1,300.00	1,267.08	1,249.73	1,235.40	5.38	3.59	-132.14	163.67	187.89	358.97	350.69	8.29	43.315	
1,400.00	1,356.49	1,340.02	1,323.82	6.11	3.95	-134.34	167.17	205.86	399.81	390.67	9.14	43.747	
1,500.00	1,445.90	1,430.31	1,412.23	6.86	4.30	-136.14	170.67	223.83	441.06	431.06	10.00	44.116	
1,600.00	1,535.31	1,520.60	1,500.65	7.63	4.66	-137.63	174.16	241.79	482.60	471.74	10.86	44.437	
1,700.00	1,624.72	1,610.89	1,589.06	8.42	5.02	-138.89	177.66	259.76	524.39	512.66	11.73	44.721	
1,800.00	1,714.13	1,701.18	1,677.48	9.21	5.38	-139.97	181.16	277.73	566.35	553.75	12.59	44.974	
1,900.00	1,803.54	1,791.47	1,765.89	10.00	5.74	-140.89	184.66	295.70	608.45	594.99	13.46	45.202	
2,000.00	1,892.95	1,881.76	1,854.30	10.81	6.10	-141.70	188.16	313.67	650.67	636.34	14.33	45.408	
2,100.00	1,982.36	1,972.05	1,942.72	11.61	6.46	-142.41	191.65	331.64	692.98	677.79	15.20	45.595	
2,200.00	2,071.77	2,062.34	2,031.13	12.42	6.82	-143.04	195.15	349.61	735.38	719.31	16.07	45.766	
2,300.00	2,161.18	2,152.63	2,119.55	13.23	7.18	-143.60	198.65	367.57	777.83	760.89	16.94	45.923	
2,400.00	2,250.59	2,242.92	2,207.96	14.05	7.54	-144.11	202.15	385.54	820.34	802.54	17.81	46.067	
2,500.00	2,340.00	2,333.21	2,296.38	14.86	7.90	-144.56	205.65	403.51	862.90	844.23	18.68	46.200	
2,600.00	2,429.41	2,423.50	2,384.79	15.68	8.26	-144.97	209.15	421.48	905.50	885.96	19.55	46.323	
2,700.00	2,518.82	2,513.79	2,473.21	16.50	8.62	-145.35	212.64	439.45	948.14	927.72	20.42	46.437	
2,800.00	2,608.23	2,604.08	2,561.62	17.32	8.98	-145.69	216.14	457.42	990.80	969.51	21.29	46.543	
2,900.00	2,697.64	2,694.37	2,650.03	18.14	9.34	-146.00	219.64	475.39	1,033.49	1,011.34	22.16	46.642	
3,000.00	2,787.05	2,784.66	2,738.45	18.96	9.70	-146.29	223.14	493.35	1,076.21	1,053.18	23.03	46.734	
3,100.00	2,876.46	2,874.95	2,826.86	19.78	10.06	-146.56	226.64	511.32	1,118.94	1,095.05	23.90	46.821	
3,200.00	2,965.87	2,965.24	2,915.28	20.60	10.43	-146.81	230.13	529.29	1,161.70	1,136.93	24.77	46.902	
3,300.00	3,055.28	3,055.53	3,003.69	21.42	10.79	-147.04	233.63	547.26	1,204.47	1,178.83	25.64	46.978	
3,400.00	3,144.69	3,145.81	3,092.11	22.25	11.15	-147.25	237.13	565.23	1,247.25	1,220.74	26.51	47.050	
3,500.00	3,234.10	3,236.10	3,180.52	23.07	11.51	-147.45	240.63	583.20	1,290.05	1,262.67	27.38	47.118	
3,600.00	3,323.51	3,326.39	3,268.94	23.90	11.87	-147.64	244.13	601.16	1,332.86	1,304.61	28.25	47.182	
3,700.00	3,412.92	3,416.68	3,357.35	24.72	12.23	-147.81	247.62	619.13	1,375.68	1,346.57	29.12	47.243	
3,800.00	3,502.33	3,506.97	3,445.76	25.55	12.59	-147.98	251.12	637.10	1,418.52	1,388.53	29.99	47.300	
3,900.00	3,591.74	3,597.26	3,534.18	26.37	12.95	-148.13	254.62	655.07	1,461.36	1,430.50	30.86	47.355	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF05C-03 H04 596 - DD - Plan #2												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	15.56	115.18	32.07	119.56				
100.00	100.00	100.00	100.00	0.12	0.12	15.56	115.18	32.07	119.56	119.32	0.24	504.415	
200.00	200.00	200.00	200.00	0.48	0.29	15.56	115.18	32.07	119.56	118.79	0.77	155.266	
216.67	216.67	216.67	216.67	0.54	0.32	15.56	115.18	32.07	119.56	118.70	0.86	139.206 CC	
300.00	300.00	300.00	300.00	0.84	0.47	15.56	115.18	32.07	119.56	118.26	1.30	91.754 ES	
400.00	400.00	398.17	398.13	1.20	0.64	16.71	115.22	34.59	120.31	118.46	1.85	65.143	
500.00	499.95	495.91	495.57	1.54	0.85	-132.17	115.33	42.11	124.60	122.18	2.42	51.505	
600.00	599.63	592.84	591.70	1.89	1.11	-129.37	115.52	54.48	134.40	131.34	3.05	44.049	
700.00	698.77	688.59	685.92	2.24	1.44	-126.66	115.77	71.46	149.68	145.92	3.76	39.814	
800.00	797.08	786.24	781.47	2.63	1.80	-124.79	116.08	91.61	169.43	164.97	4.46	38.011	
900.00	894.31	883.61	876.74	3.06	2.18	-124.45	116.38	111.72	192.16	186.97	5.18	37.071	
1,000.00	990.18	980.14	971.18	3.54	2.56	-125.14	116.68	131.66	217.81	211.86	5.95	36.590	
1,100.00	1,084.43	1,075.57	1,064.55	4.08	2.93	-126.48	116.98	151.37	246.56	239.80	6.77	36.433 SF	
1,200.00	1,176.81	1,169.63	1,156.58	4.69	3.31	-128.19	117.27	170.80	278.66	271.04	7.62	36.550	
1,286.90	1,255.36	1,250.05	1,235.27	5.28	3.63	-129.81	117.52	187.41	309.45	301.06	8.40	36.857	
1,300.00	1,267.08	1,262.08	1,247.04	5.38	3.68	-130.17	117.56	189.90	314.31	305.80	8.52	36.901	
1,400.00	1,356.49	1,353.86	1,336.84	6.11	4.05	-132.62	117.85	208.85	351.73	342.32	9.41	37.382	
1,500.00	1,445.90	1,445.64	1,426.64	6.86	4.42	-134.59	118.13	227.81	389.60	379.30	10.30	37.810	
1,600.00	1,535.31	1,537.42	1,516.44	7.63	4.79	-136.22	118.42	246.77	427.80	416.60	11.20	38.193	
1,700.00	1,624.72	1,629.20	1,606.24	8.42	5.16	-137.59	118.70	265.72	466.25	454.15	12.10	38.537	
1,800.00	1,714.13	1,720.98	1,696.04	9.21	5.53	-138.75	118.99	284.68	504.90	491.90	13.00	38.848	
1,900.00	1,803.54	1,812.76	1,785.84	10.00	5.90	-139.74	119.28	303.64	543.70	529.80	13.89	39.129	
2,000.00	1,892.95	1,904.54	1,875.64	10.81	6.27	-140.61	119.56	322.59	582.62	567.82	14.79	39.385	
2,100.00	1,982.36	1,996.32	1,965.45	11.61	6.64	-141.36	119.85	341.55	621.64	605.95	15.69	39.619	
2,200.00	2,071.77	2,088.10	2,055.25	12.42	7.01	-142.03	120.14	360.51	660.74	644.15	16.59	39.832	
2,300.00	2,161.18	2,179.88	2,145.05	13.23	7.39	-142.62	120.42	379.47	699.90	682.42	17.49	40.028	
2,400.00	2,250.59	2,271.67	2,234.85	14.05	7.76	-143.15	120.71	398.42	739.13	720.75	18.38	40.208	
2,500.00	2,340.00	2,363.45	2,324.65	14.86	8.13	-143.63	120.99	417.38	778.40	759.12	19.28	40.374	
2,600.00	2,429.41	2,455.23	2,414.45	15.68	8.50	-144.06	121.28	436.34	817.72	797.54	20.18	40.528	
2,700.00	2,518.82	2,547.01	2,504.25	16.50	8.88	-144.45	121.57	455.29	857.07	836.00	21.07	40.671	
2,800.00	2,608.23	2,638.79	2,594.06	17.32	9.25	-144.81	121.85	474.25	896.45	874.48	21.97	40.803	
2,900.00	2,697.64	2,730.57	2,683.86	18.14	9.62	-145.14	122.14	493.21	935.86	912.99	22.87	40.927	
3,000.00	2,787.05	2,822.35	2,773.66	18.96	10.00	-145.44	122.43	512.17	975.29	951.53	23.76	41.043	
3,100.00	2,876.46	2,914.13	2,863.46	19.78	10.37	-145.72	122.71	531.12	1,014.75	990.09	24.66	41.151	
3,200.00	2,965.87	3,005.91	2,953.26	20.60	10.74	-145.98	123.00	550.08	1,054.22	1,028.66	25.56	41.252	
3,300.00	3,055.28	3,097.69	3,043.06	21.42	11.12	-146.21	123.28	569.04	1,093.71	1,067.25	26.45	41.347	
3,400.00	3,144.69	3,189.47	3,132.86	22.25	11.49	-146.44	123.57	587.99	1,133.21	1,105.86	27.35	41.437	
3,500.00	3,234.10	3,281.26	3,222.66	23.07	11.86	-146.64	123.86	606.95	1,172.73	1,144.48	28.24	41.521	
3,600.00	3,323.51	3,373.04	3,312.47	23.90	12.24	-146.84	124.14	625.91	1,212.26	1,183.12	29.14	41.601	
3,700.00	3,412.92	3,464.82	3,402.27	24.72	12.61	-147.02	124.43	644.87	1,251.80	1,221.76	30.04	41.676	
3,800.00	3,502.33	3,556.60	3,492.07	25.55	12.98	-147.19	124.71	663.82	1,291.35	1,260.42	30.93	41.748	
3,900.00	3,591.74	3,648.38	3,581.87	26.37	13.36	-147.35	125.00	682.78	1,330.91	1,299.08	31.83	41.816	
4,000.00	3,681.15	3,740.16	3,671.67	27.20	13.73	-147.50	125.29	701.74	1,370.47	1,337.75	32.72	41.880	
4,100.00	3,770.56	3,831.94	3,761.47	28.02	14.10	-147.64	125.57	720.69	1,410.05	1,376.43	33.62	41.941	
4,200.00	3,859.97	3,923.72	3,851.27	28.85	14.48	-147.78	125.86	739.65	1,449.63	1,415.12	34.52	41.999	
4,300.00	3,949.38	4,015.50	3,941.07	29.68	14.85	-147.90	126.15	758.61	1,489.22	1,453.81	35.41	42.055	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF05D-03 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	15.49	95.95	26.60	99.57					
100.00	100.00	100.00	100.00	0.12	0.12	15.49	95.95	26.60	99.57	99.33	0.24	420.083		
200.00	200.00	200.00	200.00	0.48	0.29	15.49	95.95	26.60	99.57	98.80	0.77	129.307		
300.00	300.00	300.00	300.00	0.84	0.47	15.49	95.95	26.60	99.57	98.27	1.30	76.414		
400.00	400.00	400.00	399.95	1.20	0.65	17.00	95.06	29.06	99.40	97.56	1.84	53.947		
405.42	405.42	405.67	405.62	1.21	0.66	-134.27	94.96	29.34	99.39	97.52	1.87	53.057 CC, ES		
500.00	499.95	498.93	498.57	1.54	0.86	-131.10	93.05	36.47	101.65	99.25	2.40	42.321		
600.00	599.63	596.88	595.70	1.89	1.12	-127.42	90.59	48.80	109.04	106.01	3.03	36.000		
700.00	698.77	693.84	691.10	2.24	1.46	-123.88	87.71	65.88	121.60	117.85	3.75	32.402		
800.00	797.08	791.98	787.05	2.63	1.83	-121.45	84.51	86.22	138.47	133.98	4.48	30.879		
900.00	894.31	890.02	882.90	3.06	2.21	-121.03	81.31	106.58	158.11	152.87	5.24	30.152		
1,000.00	990.18	987.38	978.09	3.54	2.60	-121.96	78.13	126.80	180.45	174.41	6.05	29.841		
1,100.00	1,084.43	1,083.80	1,072.35	4.08	2.99	-123.74	74.98	146.82	205.72	198.82	6.90	29.829 SF		
1,200.00	1,176.81	1,179.01	1,165.43	4.69	3.37	-125.97	71.88	166.59	234.23	226.44	7.79	30.085		
1,286.90	1,255.36	1,260.56	1,245.16	5.28	3.70	-128.07	69.22	183.52	261.89	253.31	8.58	30.514		
1,300.00	1,267.08	1,272.76	1,257.09	5.38	3.75	-128.50	68.82	186.06	266.28	257.58	8.71	30.582		
1,400.00	1,356.49	1,365.91	1,348.15	6.11	4.13	-131.32	65.78	205.40	300.18	290.56	9.62	31.194		
1,500.00	1,445.90	1,459.05	1,439.21	6.86	4.51	-133.58	62.74	224.74	334.60	324.06	10.54	31.750		
1,600.00	1,535.31	1,552.19	1,530.27	7.63	4.89	-135.42	59.70	244.08	369.40	357.95	11.45	32.254		
1,700.00	1,624.72	1,645.33	1,621.33	8.42	5.27	-136.95	56.66	263.43	404.48	392.11	12.37	32.709		
1,800.00	1,714.13	1,738.47	1,712.39	9.21	5.66	-138.23	53.62	282.77	439.78	426.50	13.28	33.120		
1,900.00	1,803.54	1,831.61	1,803.45	10.00	6.04	-139.32	50.58	302.11	475.24	461.05	14.19	33.493		
2,000.00	1,892.95	1,924.76	1,894.52	10.81	6.42	-140.27	47.54	321.45	510.83	495.73	15.10	33.831		
2,100.00	1,982.36	2,017.90	1,985.58	11.61	6.80	-141.09	44.50	340.79	546.52	530.52	16.01	34.139		
2,200.00	2,071.77	2,111.04	2,076.64	12.42	7.19	-141.81	41.46	360.14	582.31	565.39	16.92	34.420		
2,300.00	2,161.18	2,204.18	2,167.70	13.23	7.57	-142.45	38.42	379.48	618.16	600.34	17.83	34.677		
2,400.00	2,250.59	2,297.32	2,258.76	14.05	7.95	-143.01	35.38	398.82	654.08	635.34	18.73	34.913		
2,500.00	2,340.00	2,390.47	2,349.82	14.86	8.34	-143.52	32.34	418.16	690.04	670.40	19.64	35.131		
2,600.00	2,429.41	2,483.61	2,440.88	15.68	8.72	-143.98	29.30	437.50	726.05	705.50	20.55	35.332		
2,700.00	2,518.82	2,576.75	2,531.94	16.50	9.11	-144.40	26.26	456.85	762.10	740.64	21.46	35.517		
2,800.00	2,608.23	2,669.89	2,623.00	17.32	9.49	-144.77	23.22	476.19	798.17	775.81	22.36	35.690		
2,900.00	2,697.64	2,763.03	2,714.06	18.14	9.87	-145.12	20.18	495.53	834.28	811.01	23.27	35.850		
3,000.00	2,787.05	2,856.18	2,805.12	18.96	10.26	-145.44	17.14	514.87	870.40	846.23	24.18	36.000		
3,100.00	2,876.46	2,949.32	2,896.18	19.78	10.64	-145.73	14.10	534.21	906.55	881.47	25.08	36.140		
3,200.00	2,965.87	3,042.46	2,987.24	20.60	11.03	-146.00	11.06	553.56	942.72	916.73	25.99	36.271		
3,300.00	3,055.28	3,135.60	3,078.31	21.42	11.41	-146.25	8.02	572.90	978.91	952.01	26.90	36.393		
3,400.00	3,144.69	3,228.74	3,169.37	22.25	11.80	-146.48	4.98	592.24	1,015.11	987.30	27.80	36.509		
3,500.00	3,234.10	3,321.89	3,260.43	23.07	12.18	-146.69	1.94	611.58	1,051.32	1,022.61	28.71	36.618		
3,600.00	3,323.51	3,415.03	3,351.49	23.90	12.56	-146.89	-1.10	630.92	1,087.55	1,057.93	29.62	36.720		
3,700.00	3,412.92	3,508.17	3,442.55	24.72	12.95	-147.08	-4.14	650.27	1,123.78	1,093.26	30.52	36.817		
3,800.00	3,502.33	3,601.31	3,533.61	25.55	13.33	-147.26	-7.18	669.61	1,160.03	1,128.60	31.43	36.908		
3,900.00	3,591.74	3,694.45	3,624.67	26.37	13.72	-147.42	-10.22	688.95	1,196.29	1,163.95	32.34	36.995		
4,000.00	3,681.15	3,787.60	3,715.73	27.20	14.10	-147.58	-13.26	708.29	1,232.55	1,199.31	33.24	37.078		
4,100.00	3,770.56	3,880.74	3,806.79	28.02	14.49	-147.73	-16.30	727.63	1,268.82	1,234.67	34.15	37.156		
4,200.00	3,859.97	3,973.88	3,897.85	28.85	14.87	-147.87	-19.34	746.98	1,305.10	1,270.04	35.05	37.230		
4,300.00	3,949.38	4,067.02	3,988.91	29.68	15.26	-148.00	-22.38	766.32	1,341.38	1,305.42	35.96	37.301		
4,400.00	4,038.79	4,160.16	4,079.97	30.50	15.64	-148.12	-25.42	785.66	1,377.67	1,340.81	36.87	37.368		
4,500.00	4,128.20	4,253.31	4,171.03	31.33	16.03	-148.24	-28.46	805.00	1,413.97	1,376.20	37.77	37.433		
4,600.00	4,217.61	4,346.45	4,262.10	32.16	16.41	-148.35	-31.50	824.34	1,450.27	1,411.59	38.68	37.494		
4,700.00	4,307.02	4,439.59	4,353.16	32.98	16.80	-148.46	-34.54	843.69	1,486.58	1,446.99	39.59	37.553		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF05E-03 H04 596 - DD - Plan #2												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	15.60	86.82	24.25	90.15				
100.00	100.00	100.00	100.00	0.12	0.12	15.60	86.82	24.25	90.15	89.91	0.24	380.327	
200.00	200.00	200.00	200.00	0.48	0.29	15.60	86.82	24.25	90.15	89.38	0.77	117.070	
300.00	300.00	300.47	300.45	0.84	0.47	16.67	86.15	25.80	89.93	88.62	1.31	68.712	
400.00	400.00	400.62	400.35	1.20	0.68	21.03	83.43	32.08	89.39	87.51	1.88	47.650	
409.41	409.41	410.00	409.69	1.23	0.70	-129.84	83.07	32.91	89.37	87.44	1.93	46.234 CC, ES	
500.00	499.95	500.00	499.00	1.54	0.95	-124.08	78.68	43.05	91.14	88.65	2.49	36.628	
600.00	599.63	598.71	596.23	1.89	1.29	-117.68	71.95	58.59	97.30	94.11	3.19	30.526	
700.00	698.77	697.16	692.33	2.24	1.68	-112.18	63.47	78.18	107.70	103.74	3.95	27.248	
800.00	797.08	796.19	788.85	2.63	2.09	-109.54	54.65	98.53	120.75	116.03	4.73	25.549	
900.00	894.31	895.06	885.21	3.06	2.51	-109.42	45.85	118.86	135.63	130.09	5.54	24.499	
1,000.00	990.18	993.51	981.15	3.54	2.93	-111.05	37.09	139.10	152.32	145.92	6.40	23.800	
1,100.00	1,084.43	1,091.25	1,076.41	4.08	3.35	-113.84	28.38	159.19	171.24	163.92	7.32	23.391	
1,200.00	1,176.81	1,188.04	1,170.74	4.69	3.76	-117.29	19.77	179.09	192.94	184.66	8.29	23.286 SF	
1,286.90	1,255.36	1,271.15	1,251.74	5.28	4.12	-120.52	12.37	196.18	214.52	205.37	9.15	23.456	
1,300.00	1,267.08	1,283.60	1,263.87	5.38	4.17	-121.10	11.26	198.74	217.99	208.72	9.28	23.496	
1,400.00	1,356.49	1,378.64	1,356.50	6.11	4.58	-124.97	2.80	218.27	245.11	234.86	10.26	23.899	
1,500.00	1,445.90	1,473.68	1,449.12	6.86	5.00	-128.08	-5.66	237.81	273.08	261.86	11.22	24.338	
1,600.00	1,535.31	1,568.72	1,541.75	7.63	5.41	-130.61	-14.13	257.35	301.67	289.49	12.17	24.781	
1,700.00	1,624.72	1,663.76	1,634.37	8.42	5.82	-132.71	-22.59	276.89	330.70	317.59	13.12	25.212	
1,800.00	1,714.13	1,758.80	1,727.00	9.21	6.23	-134.47	-31.05	296.43	360.09	346.03	14.05	25.623	
1,900.00	1,803.54	1,853.84	1,819.62	10.00	6.64	-135.96	-39.51	315.97	389.74	374.75	14.98	26.010	
2,000.00	1,892.95	1,948.89	1,912.25	10.81	7.06	-137.25	-47.97	335.50	419.59	403.68	15.91	26.372	
2,100.00	1,982.36	2,043.93	2,004.87	11.61	7.47	-138.36	-56.43	355.04	449.62	432.79	16.83	26.709	
2,200.00	2,071.77	2,138.97	2,097.50	12.42	7.88	-139.34	-64.89	374.58	479.79	462.03	17.75	27.023	
2,300.00	2,161.18	2,234.01	2,190.12	13.23	8.29	-140.20	-73.36	394.12	510.06	491.39	18.67	27.315	
2,400.00	2,250.59	2,329.05	2,282.75	14.05	8.71	-140.97	-81.82	413.66	540.43	520.84	19.59	27.586	
2,500.00	2,340.00	2,424.09	2,375.37	14.86	9.12	-141.65	-90.28	433.20	570.88	550.38	20.51	27.839	
2,600.00	2,429.41	2,519.13	2,468.00	15.68	9.53	-142.27	-98.74	452.73	601.40	579.98	21.42	28.075	
2,700.00	2,518.82	2,614.17	2,560.62	16.50	9.95	-142.82	-107.20	472.27	631.97	609.63	22.34	28.295	
2,800.00	2,608.23	2,709.21	2,653.25	17.32	10.36	-143.33	-115.66	491.81	662.59	639.34	23.25	28.501	
2,900.00	2,697.64	2,804.25	2,745.87	18.14	10.77	-143.79	-124.12	511.35	693.26	669.10	24.16	28.693	
3,000.00	2,787.05	2,899.29	2,838.50	18.96	11.19	-144.21	-132.59	530.89	723.96	698.88	25.07	28.874	
3,100.00	2,876.46	2,994.34	2,931.13	19.78	11.60	-144.60	-141.05	550.43	754.69	728.71	25.98	29.044	
3,200.00	2,965.87	3,089.38	3,023.75	20.60	12.01	-144.95	-149.51	569.96	785.45	758.56	26.90	29.203	
3,300.00	3,055.28	3,184.42	3,116.38	21.42	12.43	-145.28	-157.97	589.50	816.24	788.44	27.81	29.354	
3,400.00	3,144.69	3,279.46	3,209.00	22.25	12.84	-145.59	-166.43	609.04	847.05	818.34	28.72	29.496	
3,500.00	3,234.10	3,374.50	3,301.63	23.07	13.26	-145.87	-174.89	628.58	877.89	848.26	29.63	29.630	
3,600.00	3,323.51	3,469.54	3,394.25	23.90	13.67	-146.14	-183.36	648.12	908.74	878.20	30.54	29.757	
3,700.00	3,412.92	3,564.58	3,486.88	24.72	14.08	-146.39	-191.82	667.66	939.60	908.15	31.45	29.877	
3,800.00	3,502.33	3,659.62	3,579.50	25.55	14.50	-146.62	-200.28	687.19	970.48	938.12	32.36	29.991	
3,900.00	3,591.74	3,754.66	3,672.13	26.37	14.91	-146.84	-208.74	706.73	1,001.38	968.11	33.27	30.099	
4,000.00	3,681.15	3,849.70	3,764.75	27.20	15.32	-147.04	-217.20	726.27	1,032.29	998.11	34.18	30.202	
4,100.00	3,770.56	3,944.75	3,857.38	28.02	15.74	-147.23	-225.66	745.81	1,063.20	1,028.11	35.09	30.300	
4,200.00	3,859.97	4,039.79	3,950.00	28.85	16.15	-147.42	-234.12	765.35	1,094.13	1,058.13	36.00	30.394	
4,300.00	3,949.38	4,134.83	4,042.63	29.68	16.57	-147.59	-242.59	784.89	1,125.07	1,088.16	36.91	30.483	
4,400.00	4,038.79	4,229.87	4,135.25	30.50	16.98	-147.75	-251.05	804.42	1,156.02	1,118.20	37.82	30.568	
4,500.00	4,128.20	4,324.91	4,227.88	31.33	17.39	-147.91	-259.51	823.96	1,186.97	1,148.24	38.73	30.649	
4,600.00	4,217.61	4,419.95	4,320.50	32.16	17.81	-148.05	-267.97	843.50	1,217.93	1,178.30	39.64	30.727	
4,700.00	4,307.02	4,514.99	4,413.13	32.98	18.22	-148.19	-276.43	863.04	1,248.90	1,208.36	40.55	30.802	
4,800.00	4,396.43	4,610.03	4,505.75	33.81	18.64	-148.32	-284.89	882.58	1,279.88	1,238.42	41.46	30.873	
4,900.00	4,485.83	4,705.07	4,598.38	34.64	19.05	-148.45	-293.36	902.12	1,310.86	1,268.50	42.37	30.942	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF05E-03 H04 596 - DD - Plan #2													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	4,575.24	4,800.11	4,691.00	35.47	19.46	-148.57	-301.82	921.65	1,341.85	1,298.57	43.28	31.007	
5,100.00	4,664.65	4,895.15	4,783.63	36.29	19.88	-148.69	-310.28	941.19	1,372.84	1,328.66	44.18	31.071	
5,200.00	4,754.06	4,990.20	4,876.25	37.12	20.29	-148.80	-318.74	960.73	1,403.84	1,358.74	45.09	31.131	
5,300.00	4,843.47	5,085.24	4,968.88	37.95	20.70	-148.90	-327.20	980.27	1,434.84	1,388.83	46.00	31.190	
5,400.00	4,932.88	5,180.28	5,061.51	38.78	21.12	-149.00	-335.66	999.81	1,465.84	1,418.93	46.91	31.246	
5,500.00	5,022.29	5,275.32	5,154.13	39.61	21.53	-149.10	-344.12	1,019.35	1,496.85	1,449.03	47.82	31.300	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF06B-04 H04 596 - DD - Plan #2												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	10.86	118.22	22.68	120.37				
100.00	100.00	100.00	100.00	0.12	0.12	10.86	118.22	22.68	120.37	120.14	0.24	507.852	
200.00	200.00	200.00	200.00	0.48	0.29	10.86	118.22	22.68	120.37	119.60	0.77	156.324	
300.00	300.00	300.88	300.83	0.84	0.48	9.61	118.31	20.02	120.00	118.68	1.32	91.175	
400.00	400.00	401.20	400.82	1.20	0.70	5.83	118.60	12.10	119.22	117.32	1.90	62.836	
413.67	413.67	414.84	414.38	1.24	0.74	-146.34	118.65	10.62	119.17	117.19	1.98	60.092 CC, ES	
500.00	499.95	500.00	498.77	1.54	0.98	-152.37	119.07	-0.81	121.39	118.87	2.53	48.043	
600.00	599.63	596.58	593.74	1.89	1.34	-161.52	119.70	-18.32	131.12	127.86	3.26	40.257	
700.00	698.77	689.44	684.10	2.24	1.76	-171.03	120.48	-39.65	150.74	146.65	4.09	36.861	
800.00	797.08	777.88	769.10	2.63	2.24	-179.40	121.36	-64.02	181.12	176.17	4.95	36.595 SF	
900.00	894.31	861.23	848.09	3.06	2.76	173.88	122.33	-90.57	221.71	215.94	5.77	38.401	
1,000.00	990.18	939.02	920.72	3.54	3.31	168.64	123.34	-118.43	271.36	264.82	6.54	41.498	
1,100.00	1,084.43	1,010.98	986.83	4.08	3.86	164.52	124.37	-146.82	328.88	321.63	7.25	45.392	
1,200.00	1,176.81	1,076.98	1,046.48	4.69	4.43	161.16	125.39	-175.02	393.20	385.29	7.91	49.707	
1,286.90	1,255.36	1,129.48	1,093.22	5.28	4.91	158.64	126.26	-198.92	453.91	445.45	8.45	53.685	
1,300.00	1,267.08	1,137.04	1,099.89	5.38	4.98	158.43	126.39	-202.46	463.38	454.84	8.54	54.241	
1,400.00	1,356.49	1,192.92	1,148.79	6.11	5.52	156.99	127.37	-229.50	536.72	527.61	9.11	58.936	
1,500.00	1,445.90	1,255.71	1,203.09	6.86	6.13	155.60	128.51	-261.02	611.33	601.65	9.68	63.145	
1,600.00	1,535.31	1,321.51	1,259.95	7.63	6.78	154.44	129.71	-294.09	686.12	675.84	10.28	66.742	
1,700.00	1,624.72	1,387.30	1,316.82	8.42	7.42	153.51	130.91	-327.17	761.02	750.12	10.89	69.853	
1,800.00	1,714.13	1,453.10	1,373.68	9.21	8.07	152.74	132.11	-360.24	835.99	824.46	11.52	72.547	
1,900.00	1,803.54	1,518.90	1,430.55	10.00	8.72	152.10	133.31	-393.31	911.01	898.85	12.16	74.888	
2,000.00	1,892.95	1,584.69	1,487.42	10.81	9.37	151.55	134.51	-426.39	986.08	973.26	12.82	76.928	
2,100.00	1,982.36	1,650.49	1,544.28	11.61	10.02	151.09	135.71	-459.46	1,061.18	1,047.70	13.48	78.710	
2,200.00	2,071.77	1,716.28	1,601.15	12.42	10.67	150.68	136.91	-492.54	1,136.31	1,122.16	14.16	80.276	
2,300.00	2,161.18	1,782.08	1,658.01	13.23	11.32	150.32	138.11	-525.61	1,211.46	1,196.62	14.84	81.654	
2,400.00	2,250.59	1,847.87	1,714.88	14.05	11.98	150.01	139.31	-558.69	1,286.63	1,271.10	15.53	82.874	
2,500.00	2,340.00	1,913.67	1,771.75	14.86	12.63	149.73	140.51	-591.76	1,361.81	1,345.59	16.22	83.958	
2,600.00	2,429.41	1,979.47	1,828.61	15.68	13.28	149.48	141.71	-624.83	1,437.01	1,420.09	16.92	84.924	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF06E-04 H04 596 (was 07E-04) - DD - Plan #3												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	9.86	98.98	17.21	100.46				
100.00	100.00	100.00	100.00	0.12	0.12	9.86	98.98	17.21	100.46	100.22	0.24	423.837	
200.00	200.00	200.00	200.00	0.48	0.29	9.86	98.98	17.21	100.46	99.69	0.77	130.463	
300.00	300.00	302.92	302.87	0.84	0.48	8.53	97.85	14.68	98.98	97.63	1.36	72.948	
400.00	400.00	405.24	404.85	1.20	0.71	4.32	94.50	7.14	94.89	92.91	1.98	47.921	
500.00	499.95	506.32	505.01	1.54	1.01	-155.52	89.01	-5.19	91.68	89.08	2.60	35.262	
511.63	511.57	517.96	516.49	1.58	1.05	-156.80	88.24	-6.92	91.63	88.96	2.68	34.236 CC, ES	
600.00	599.63	605.24	602.21	1.89	1.37	-167.92	81.58	-21.89	94.71	91.45	3.26	29.060	
700.00	698.77	702.06	696.98	2.24	1.74	-179.99	73.53	-39.99	107.23	103.25	3.98	26.925 SF	
800.00	797.08	798.00	790.89	2.63	2.11	170.97	65.56	-57.93	128.65	123.93	4.72	27.279	
900.00	894.31	892.78	883.67	3.06	2.48	164.89	57.67	-75.65	157.15	151.73	5.43	28.958	
1,000.00	990.18	986.16	975.08	3.54	2.85	161.00	49.91	-93.11	191.42	185.29	6.13	31.238	
1,100.00	1,084.43	1,077.88	1,064.85	4.08	3.22	158.58	42.28	-110.25	230.68	223.84	6.83	33.759	
1,200.00	1,176.81	1,167.67	1,152.75	4.69	3.57	157.07	34.82	-127.04	274.49	266.94	7.55	36.359	
1,286.90	1,255.36	1,243.96	1,227.42	5.28	3.88	156.25	28.47	-141.30	316.08	307.89	8.18	38.621	
1,300.00	1,267.08	1,255.33	1,238.55	5.38	3.92	156.24	27.53	-143.43	322.58	314.30	8.29	38.924	
1,400.00	1,356.49	1,342.12	1,323.50	6.11	4.27	156.17	20.31	-159.65	372.26	363.25	9.01	41.330	
1,500.00	1,445.90	1,428.91	1,408.45	6.86	4.62	156.12	13.10	-175.87	421.94	412.20	9.74	43.315	
1,600.00	1,535.31	1,515.69	1,493.41	7.63	4.97	156.09	5.88	-192.10	471.62	461.13	10.49	44.972	
1,700.00	1,624.72	1,602.48	1,578.36	8.42	5.31	156.05	-1.34	-208.32	521.30	510.06	11.24	46.372	
1,800.00	1,714.13	1,689.27	1,663.31	9.21	5.66	156.03	-8.55	-224.55	570.98	558.97	12.00	47.566	
1,900.00	1,803.54	1,776.05	1,748.26	10.00	6.01	156.01	-15.77	-240.77	620.65	607.88	12.77	48.595	
2,000.00	1,892.95	1,862.84	1,833.21	10.81	6.36	155.99	-22.99	-257.00	670.33	656.79	13.55	49.489	
2,100.00	1,982.36	1,949.63	1,918.16	11.61	6.71	155.97	-30.20	-273.22	720.01	705.69	14.32	50.272	
2,200.00	2,071.77	2,036.41	2,003.11	12.42	7.06	155.96	-37.42	-289.45	769.69	754.59	15.10	50.963	
2,300.00	2,161.18	2,123.20	2,088.06	13.23	7.41	155.95	-44.64	-305.67	819.37	803.48	15.89	51.577	
2,400.00	2,250.59	2,209.99	2,173.01	14.05	7.76	155.94	-51.85	-321.89	869.05	852.38	16.67	52.125	
2,500.00	2,340.00	2,296.78	2,257.97	14.86	8.10	155.93	-59.07	-338.12	918.73	901.27	17.46	52.617	
2,600.00	2,429.41	2,383.56	2,342.92	15.68	8.45	155.92	-66.28	-354.34	968.41	950.16	18.25	53.062	
2,700.00	2,518.82	2,470.35	2,427.87	16.50	8.80	155.91	-73.50	-370.57	1,018.08	999.04	19.04	53.465	
2,800.00	2,608.23	2,557.14	2,512.82	17.32	9.15	155.90	-80.72	-386.79	1,067.76	1,047.93	19.83	53.833	
2,900.00	2,697.64	2,643.92	2,597.77	18.14	9.50	155.90	-87.93	-403.02	1,117.44	1,096.81	20.63	54.169	
3,000.00	2,787.05	2,730.71	2,682.72	18.96	9.85	155.89	-95.15	-419.24	1,167.12	1,145.70	21.42	54.477	
3,100.00	2,876.46	2,817.50	2,767.67	19.78	10.20	155.89	-102.37	-435.47	1,216.80	1,194.58	22.22	54.761	
3,200.00	2,965.87	2,904.29	2,852.62	20.60	10.55	155.88	-109.58	-451.69	1,266.48	1,243.46	23.02	55.024	
3,300.00	3,055.28	2,991.07	2,937.57	21.42	10.90	155.88	-116.80	-467.91	1,316.16	1,292.34	23.81	55.267	
3,400.00	3,144.69	3,077.86	3,022.52	22.25	11.25	155.87	-124.01	-484.14	1,365.84	1,341.22	24.61	55.493	
3,500.00	3,234.10	3,164.65	3,107.48	23.07	11.60	155.87	-131.23	-500.36	1,415.52	1,390.10	25.41	55.703	
3,600.00	3,323.51	3,251.43	3,192.43	23.90	11.95	155.87	-138.45	-516.59	1,465.19	1,438.98	26.21	55.899	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF07A-04 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	11.76	146.54	30.51	149.69					
100.00	100.00	100.00	100.00	0.12	0.12	11.76	146.54	30.51	149.69	149.45	0.24	631.517		
200.00	200.00	200.00	200.00	0.48	0.29	11.76	146.54	30.51	149.69	148.92	0.77	194.389		
300.00	300.00	300.00	300.00	0.84	0.47	11.76	146.54	30.51	149.69	148.38	1.30	114.875		
400.00	400.00	400.00	400.00	1.20	0.64	11.76	146.54	30.51	149.69	147.85	1.84	81.527 CC, ES		
500.00	499.95	495.64	495.60	1.54	0.81	-140.98	148.24	28.81	153.10	150.73	2.37	64.523		
600.00	599.63	594.37	594.06	1.89	1.01	-144.86	152.21	22.86	162.48	159.56	2.92	55.676		
700.00	698.77	690.82	689.79	2.24	1.25	-150.61	156.78	12.18	177.66	174.13	3.52	50.421		
800.00	797.08	783.65	781.30	2.63	1.55	-157.11	161.79	-2.60	200.35	196.16	4.19	47.797		
900.00	894.31	875.02	870.81	3.06	1.86	-163.33	167.13	-20.12	231.26	226.42	4.84	47.761 SF		
1,000.00	990.18	964.85	958.80	3.54	2.19	-168.35	172.40	-37.42	269.25	263.79	5.46	49.336		
1,100.00	1,084.43	1,052.38	1,044.54	4.08	2.52	-172.27	177.52	-54.29	313.51	307.46	6.05	51.857		
1,200.00	1,176.81	1,137.37	1,127.79	4.69	2.84	-175.33	182.50	-70.66	363.40	356.79	6.61	54.940		
1,286.90	1,255.36	1,208.99	1,197.94	5.28	3.11	-177.45	186.70	-84.46	410.93	403.83	7.10	57.881		
1,300.00	1,267.08	1,219.62	1,208.35	5.38	3.15	-177.74	187.32	-86.51	418.38	411.19	7.18	58.263		
1,400.00	1,356.49	1,300.77	1,287.84	6.11	3.46	-179.69	192.08	-102.14	475.44	467.73	7.71	61.679		
1,500.00	1,445.90	1,381.92	1,367.32	6.86	3.78	178.77	196.83	-117.78	532.79	524.55	8.25	64.613		
1,600.00	1,535.31	1,463.06	1,446.81	7.63	4.09	177.53	201.59	-133.41	590.37	581.57	8.79	67.141		
1,700.00	1,624.72	1,544.21	1,526.29	8.42	4.41	176.50	206.34	-149.05	648.09	638.74	9.35	69.328		
1,800.00	1,714.13	1,625.36	1,605.78	9.21	4.73	175.64	211.10	-164.68	705.93	696.02	9.91	71.227		
1,900.00	1,803.54	1,706.51	1,685.27	10.00	5.05	174.91	215.85	-180.32	763.87	753.39	10.48	72.884		
2,000.00	1,892.95	1,787.66	1,764.75	10.81	5.37	174.28	220.61	-195.95	821.87	810.82	11.06	74.338		
2,100.00	1,982.36	1,868.80	1,844.24	11.61	5.69	173.74	225.36	-211.59	879.93	868.30	11.64	75.619		
2,200.00	2,071.77	1,949.95	1,923.72	12.42	6.01	173.26	230.12	-227.22	938.04	925.82	12.22	76.755		
2,300.00	2,161.18	2,031.10	2,003.21	13.23	6.33	172.84	234.87	-242.86	996.19	983.38	12.81	77.766		
2,400.00	2,250.59	2,112.25	2,082.69	14.05	6.65	172.46	239.63	-258.49	1,054.37	1,040.97	13.40	78.671		
2,500.00	2,340.00	2,193.40	2,162.18	14.86	6.97	172.12	244.38	-274.13	1,112.58	1,098.58	14.00	79.484		
2,600.00	2,429.41	2,274.55	2,241.66	15.68	7.29	171.82	249.14	-289.76	1,170.81	1,156.21	14.60	80.218		
2,700.00	2,518.82	2,355.69	2,321.15	16.50	7.61	171.54	253.89	-305.40	1,229.06	1,213.86	15.20	80.883		
2,800.00	2,608.23	2,436.84	2,400.64	17.32	7.93	171.29	258.64	-321.03	1,287.32	1,271.52	15.80	81.487		
2,900.00	2,697.64	2,517.99	2,480.12	18.14	8.25	171.07	263.40	-336.67	1,345.60	1,329.20	16.40	82.039		
3,000.00	2,787.05	2,599.14	2,559.61	18.96	8.57	170.86	268.15	-352.30	1,403.90	1,386.89	17.01	82.544		
3,100.00	2,876.46	2,680.29	2,639.09	19.78	8.90	170.66	272.91	-367.94	1,462.20	1,444.59	17.62	83.008		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF07B-03 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	15.69	125.30	35.20	130.15					
100.00	100.00	100.00	100.00	0.12	0.12	15.69	125.30	35.20	130.15	129.91	0.24	549.081		
116.67	116.67	116.67	116.67	0.18	0.15	15.69	125.30	35.20	130.15	129.82	0.33	399.394 CC		
200.00	200.00	200.00	200.00	0.48	0.29	15.69	125.30	35.20	130.15	129.38	0.77	169.015 ES		
300.00	300.00	297.89	297.85	0.84	0.47	16.74	125.38	37.71	130.95	129.63	1.32	99.147		
400.00	400.00	395.27	394.93	1.20	0.69	19.77	125.64	45.17	133.60	131.68	1.92	69.472		
500.00	499.95	491.77	490.64	1.54	0.96	-127.61	126.05	57.43	140.42	137.84	2.58	54.358		
600.00	599.63	587.10	584.46	1.89	1.30	-123.78	126.63	74.27	153.22	149.91	3.31	46.301		
700.00	698.77	680.90	675.83	2.24	1.72	-120.46	127.35	95.39	171.79	167.69	4.10	41.911		
800.00	797.08	772.84	764.29	2.63	2.21	-117.74	128.20	120.42	195.82	190.88	4.94	39.612		
900.00	894.31	862.65	849.43	3.06	2.77	-115.55	129.17	148.94	224.99	219.14	5.84	38.517		
1,000.00	990.18	950.08	930.94	3.54	3.39	-113.79	130.25	180.52	258.95	252.16	6.79	38.110		
1,100.00	1,084.43	1,034.95	1,008.60	4.08	4.07	-112.32	131.41	214.72	297.42	289.61	7.81	38.088		
1,200.00	1,176.81	1,117.11	1,082.27	4.69	4.79	-111.03	132.65	251.07	340.12	331.23	8.89	38.272		
1,286.90	1,255.36	1,186.25	1,142.99	5.28	5.45	-110.01	133.78	284.09	380.45	370.56	9.88	38.493		
1,300.00	1,267.08	1,200.00	1,154.93	5.38	5.58	-110.07	134.01	290.92	386.78	376.73	10.05	38.478		
1,400.00	1,356.49	1,273.53	1,217.89	6.11	6.37	-110.15	135.31	328.89	436.16	424.93	11.24	38.816		
1,500.00	1,445.90	1,354.82	1,286.07	6.86	7.25	-109.93	136.81	373.13	487.30	474.83	12.47	39.075		
1,600.00	1,535.31	1,440.62	1,357.86	7.63	8.18	-109.71	138.41	420.08	538.64	524.88	13.77	39.127		
1,700.00	1,624.72	1,526.42	1,429.65	8.42	9.11	-109.53	140.01	467.03	589.99	574.91	15.08	39.112		
1,800.00	1,714.13	1,612.22	1,501.45	9.21	10.04	-109.38	141.62	513.98	641.34	624.92	16.42	39.057		
1,900.00	1,803.54	1,698.02	1,573.24	10.00	10.98	-109.25	143.22	560.94	692.69	674.92	17.77	38.979		
2,000.00	1,892.95	1,783.81	1,645.03	10.81	11.92	-109.13	144.82	607.89	744.05	724.91	19.13	38.889		
2,100.00	1,982.36	1,869.61	1,716.83	11.61	12.86	-109.04	146.42	654.84	795.40	774.90	20.50	38.793		
2,200.00	2,071.77	1,955.41	1,788.62	12.42	13.80	-108.95	148.02	701.79	846.76	824.88	21.88	38.696		
2,300.00	2,161.18	2,041.21	1,860.41	13.23	14.74	-108.88	149.62	748.74	898.12	874.85	23.27	38.600		
2,400.00	2,250.59	2,127.01	1,932.21	14.05	15.68	-108.81	151.22	795.69	949.48	924.82	24.66	38.506		
2,500.00	2,340.00	2,212.80	2,004.00	14.86	16.63	-108.75	152.82	842.64	1,000.84	974.79	26.05	38.415		
2,600.00	2,429.41	2,298.60	2,075.79	15.68	17.57	-108.69	154.42	889.59	1,052.20	1,024.75	27.45	38.329		
2,700.00	2,518.82	2,384.40	2,147.59	16.50	18.51	-108.64	156.02	936.55	1,103.56	1,074.71	28.85	38.246		
2,800.00	2,608.23	2,470.20	2,219.38	17.32	19.46	-108.60	157.62	983.50	1,154.92	1,124.67	30.26	38.167		
2,900.00	2,697.64	2,556.00	2,291.17	18.14	20.40	-108.56	159.22	1,030.45	1,206.29	1,174.62	31.67	38.092		
3,000.00	2,787.05	2,641.79	2,362.97	18.96	21.35	-108.52	160.82	1,077.40	1,257.65	1,224.57	33.08	38.022		
3,100.00	2,876.46	2,727.59	2,434.76	19.78	22.29	-108.48	162.42	1,124.35	1,309.02	1,274.53	34.49	37.954		
3,200.00	2,965.87	2,813.39	2,506.55	20.60	23.24	-108.45	164.02	1,171.30	1,360.38	1,324.48	35.90	37.891		
3,300.00	3,055.28	2,899.19	2,578.35	21.42	24.18	-108.42	165.62	1,218.25	1,411.74	1,374.43	37.32	37.830		
3,400.00	3,144.69	2,984.99	2,650.14	22.25	25.13	-108.39	167.22	1,265.20	1,463.11	1,424.38	38.73	37.773 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF07B-04 H04 596 - DD - Plan #3													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		
0.00	0.00	0.00	0.00	0.00	0.00	11.12	127.32	25.03	129.76					
100.00	100.00	100.00	100.00	0.12	0.12	11.12	127.32	25.03	129.76	129.52	0.24	547.437		
200.00	200.00	200.00	200.00	0.48	0.29	11.12	127.32	25.03	129.76	128.99	0.77	168.508		
300.00	300.00	300.00	300.00	0.84	0.47	11.12	127.32	25.03	129.76	128.45	1.30	99.580		
303.79	303.79	303.79	303.79	0.85	0.47	11.12	127.32	25.03	129.76	128.43	1.32	98.060 CC		
400.00	400.00	398.95	398.95	1.20	0.64	11.39	127.40	25.65	129.96	128.12	1.84	70.752 ES		
500.00	499.95	498.24	498.15	1.54	0.82	-139.13	127.99	29.53	133.33	130.97	2.36	56.453		
600.00	599.63	598.78	598.68	1.89	0.99	-141.18	128.97	29.58	140.33	137.45	2.87	48.812		
700.00	698.77	697.80	697.55	2.24	1.17	-146.07	130.27	24.47	151.51	148.10	3.41	44.419		
800.00	797.08	794.11	793.32	2.63	1.37	-152.63	131.86	14.60	168.64	164.65	3.99	42.300		
900.00	894.31	886.66	884.78	3.06	1.61	-159.64	133.67	0.59	193.49	188.88	4.61	41.936 SF		
1,000.00	990.18	976.86	973.34	3.54	1.89	-166.15	135.65	-16.43	226.79	221.54	5.25	43.200		
1,100.00	1,084.43	1,065.64	1,060.46	4.08	2.18	-171.28	137.62	-33.42	267.29	261.42	5.87	45.534		
1,200.00	1,176.81	1,152.04	1,145.24	4.69	2.48	-175.20	139.53	-49.97	313.99	307.51	6.47	48.502		
1,286.90	1,255.36	1,225.00	1,216.83	5.28	2.73	-177.85	141.15	-63.93	359.05	352.06	6.99	51.368		
1,300.00	1,267.08	1,235.84	1,227.47	5.38	2.77	-178.21	141.39	-66.01	366.14	359.07	7.08	51.747		
1,400.00	1,356.49	1,318.61	1,308.68	6.11	3.07	179.44	143.22	-81.85	420.58	412.94	7.64	55.050		
1,500.00	1,445.90	1,401.37	1,389.89	6.86	3.37	177.62	145.06	-97.70	475.41	467.19	8.21	57.874		
1,600.00	1,535.31	1,484.13	1,471.10	7.63	3.67	176.17	146.89	-113.54	530.51	521.71	8.80	60.289		
1,700.00	1,624.72	1,566.90	1,552.31	8.42	3.98	175.00	148.73	-129.39	585.81	576.41	9.39	62.366		
1,800.00	1,714.13	1,649.66	1,633.52	9.21	4.28	174.02	150.56	-145.23	641.25	631.25	9.99	64.161		
1,900.00	1,803.54	1,732.42	1,714.74	10.00	4.59	173.19	152.39	-161.08	696.80	686.19	10.60	65.719		
2,000.00	1,892.95	1,815.19	1,795.95	10.81	4.90	172.49	154.23	-176.92	752.43	741.22	11.22	67.079		
2,100.00	1,982.36	1,897.95	1,877.16	11.61	5.21	171.88	156.06	-192.77	808.14	796.30	11.84	68.274		
2,200.00	2,071.77	1,980.71	1,958.37	12.42	5.53	171.36	157.90	-208.62	863.90	851.44	12.46	69.328		
2,300.00	2,161.18	2,063.47	2,039.58	13.23	5.84	170.89	159.73	-224.46	919.70	906.61	13.09	70.263		
2,400.00	2,250.59	2,146.24	2,120.79	14.05	6.15	170.48	161.56	-240.31	975.54	961.82	13.72	71.097		
2,500.00	2,340.00	2,229.00	2,202.01	14.86	6.47	170.11	163.40	-256.15	1,031.41	1,017.06	14.36	71.845		
2,600.00	2,429.41	2,311.76	2,283.22	15.68	6.78	169.78	165.23	-272.00	1,087.31	1,072.32	14.99	72.518		
2,700.00	2,518.82	2,394.53	2,364.43	16.50	7.09	169.48	167.07	-287.84	1,143.23	1,127.60	15.63	73.127		
2,800.00	2,608.23	2,477.29	2,445.64	17.32	7.41	169.21	168.90	-303.69	1,199.17	1,182.90	16.28	73.679		
2,900.00	2,697.64	2,560.05	2,526.85	18.14	7.72	168.97	170.73	-319.53	1,255.13	1,238.21	16.92	74.182		
3,000.00	2,787.05	2,642.82	2,608.06	18.96	8.04	168.74	172.57	-335.38	1,311.10	1,293.53	17.57	74.642		
3,100.00	2,876.46	2,725.58	2,689.27	19.78	8.36	168.54	174.40	-351.22	1,367.08	1,348.87	18.21	75.063		
3,200.00	2,965.87	2,808.34	2,770.49	20.60	8.67	168.35	176.23	-367.07	1,423.08	1,404.22	18.86	75.452		
3,300.00	3,055.28	2,891.11	2,851.70	21.42	8.99	168.17	178.07	-382.91	1,479.08	1,459.57	19.51	75.810		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF07C-03 H04 596 - DD - Plan #2												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	15.65	106.07	29.72	110.16				
100.00	100.00	100.00	100.00	0.12	0.12	15.65	106.07	29.72	110.16	109.92	0.24	464.748	
116.67	116.67	116.67	116.67	0.18	0.15	15.65	106.07	29.72	110.16	109.83	0.33	338.052 CC	
200.00	200.00	200.00	200.00	0.48	0.29	15.65	106.07	29.72	110.16	109.39	0.77	143.056 ES	
300.00	300.00	298.53	298.48	0.84	0.47	16.93	106.00	32.26	110.81	109.50	1.32	84.075	
400.00	400.00	396.53	396.18	1.20	0.69	20.63	105.80	39.82	113.11	111.19	1.92	58.989	
500.00	499.95	493.66	492.50	1.54	0.97	-125.93	105.46	52.25	119.45	116.87	2.58	46.312	
600.00	599.63	589.67	586.97	1.89	1.31	-121.42	105.00	69.32	131.67	128.36	3.31	39.761	
700.00	698.77	684.22	679.05	2.24	1.74	-117.64	104.43	90.76	149.52	145.41	4.11	36.374	
800.00	797.08	777.01	768.28	2.63	2.24	-114.66	103.74	116.20	172.64	167.67	4.97	34.763	
900.00	894.31	867.80	854.28	3.06	2.81	-112.38	102.96	145.25	200.67	194.79	5.88	34.141	
1,000.00	990.18	956.36	936.74	3.54	3.44	-110.61	102.09	177.49	233.28	226.43	6.85	34.058 SF	
1,100.00	1,084.43	1,042.52	1,015.46	4.08	4.13	-109.20	101.14	212.50	270.19	262.30	7.89	34.254	
1,200.00	1,176.81	1,126.15	1,090.27	4.69	4.87	-108.01	100.14	249.84	311.13	302.14	9.00	34.579	
1,286.90	1,255.36	1,200.00	1,154.93	5.28	5.58	-107.10	99.17	285.50	349.82	339.78	10.03	34.865	
1,300.00	1,267.08	1,207.16	1,161.12	5.38	5.66	-107.13	99.08	289.09	355.86	345.67	10.19	34.938	
1,400.00	1,356.49	1,285.94	1,228.36	6.11	6.51	-107.25	97.97	330.12	403.31	391.89	11.43	35.299	
1,500.00	1,445.90	1,370.28	1,298.97	6.86	7.42	-107.05	96.73	376.22	452.35	439.64	12.71	35.588	
1,600.00	1,535.31	1,457.37	1,371.81	7.63	8.36	-106.87	95.44	423.95	501.47	487.43	14.04	35.705	
1,700.00	1,624.72	1,544.46	1,444.65	8.42	9.31	-106.72	94.16	471.67	550.60	535.20	15.40	35.750	
1,800.00	1,714.13	1,631.55	1,517.49	9.21	10.26	-106.59	92.87	519.40	599.73	582.95	16.78	35.749	
1,900.00	1,803.54	1,718.65	1,590.34	10.00	11.21	-106.49	91.58	567.12	648.86	630.70	18.16	35.721	
2,000.00	1,892.95	1,805.74	1,663.18	10.81	12.17	-106.40	90.30	614.84	697.99	678.43	19.56	35.676	
2,100.00	1,982.36	1,892.83	1,736.02	11.61	13.12	-106.32	89.01	662.57	747.13	726.15	20.97	35.622	
2,200.00	2,071.77	1,979.92	1,808.86	12.42	14.08	-106.25	87.72	710.29	796.26	773.87	22.39	35.562	
2,300.00	2,161.18	2,067.02	1,881.70	13.23	15.04	-106.19	86.44	758.01	845.40	821.58	23.81	35.500	
2,400.00	2,250.59	2,154.11	1,954.54	14.05	16.00	-106.13	85.15	805.74	894.53	869.29	25.24	35.438	
2,500.00	2,340.00	2,241.20	2,027.39	14.86	16.96	-106.08	83.86	853.46	943.67	917.00	26.68	35.376	
2,600.00	2,429.41	2,328.29	2,100.23	15.68	17.91	-106.04	82.58	901.18	992.81	964.70	28.11	35.316	
2,700.00	2,518.82	2,415.39	2,173.07	16.50	18.87	-106.00	81.29	948.91	1,041.95	1,012.39	29.55	35.258	
2,800.00	2,608.23	2,502.48	2,245.91	17.32	19.83	-105.96	80.00	996.63	1,091.08	1,060.09	30.99	35.202	
2,900.00	2,697.64	2,589.57	2,318.75	18.14	20.79	-105.93	78.72	1,044.36	1,140.22	1,107.78	32.44	35.149	
3,000.00	2,787.05	2,676.66	2,391.59	18.96	21.75	-105.90	77.43	1,092.08	1,189.36	1,155.47	33.89	35.097	
3,100.00	2,876.46	2,763.76	2,464.44	19.78	22.71	-105.87	76.14	1,139.80	1,238.50	1,203.16	35.34	35.049	
3,200.00	2,965.87	2,850.85	2,537.28	20.60	23.67	-105.85	74.86	1,187.53	1,287.64	1,250.85	36.79	35.002	
3,300.00	3,055.28	2,937.94	2,610.12	21.42	24.63	-105.82	73.57	1,235.25	1,336.78	1,298.54	38.24	34.958	
3,400.00	3,144.69	3,025.03	2,682.96	22.25	25.59	-105.80	72.28	1,282.97	1,385.92	1,346.22	39.69	34.915	
3,500.00	3,234.10	3,112.13	2,755.80	23.07	26.55	-105.78	71.00	1,330.70	1,435.06	1,393.91	41.15	34.875	
3,600.00	3,323.51	3,199.22	2,828.64	23.90	27.52	-105.76	69.71	1,378.42	1,484.20	1,441.59	42.60	34.837	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF07C-04 H04 596 - DD - Plan #2												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	10.25	108.09	19.56	109.85				
100.00	100.00	100.00	100.00	0.12	0.12	10.25	108.09	19.56	109.85	109.61	0.24	463.431	
200.00	200.00	200.00	200.00	0.48	0.29	10.25	108.09	19.56	109.85	109.08	0.77	142.650	
300.00	300.00	300.00	300.00	0.84	0.47	10.25	108.09	19.56	109.85	108.54	1.30	84.299	
400.00	400.00	401.40	401.36	1.20	0.65	8.89	107.87	16.87	109.19	107.34	1.85	59.010	
436.30	436.30	438.09	437.97	1.32	0.73	-143.84	107.69	14.58	108.96	106.91	2.06	53.021 CC, ES	
500.00	499.95	502.08	501.70	1.54	0.87	-147.43	107.23	8.91	109.81	107.40	2.41	45.551	
600.00	599.63	600.93	599.68	1.89	1.14	-155.80	106.18	-4.03	115.72	112.70	3.02	38.294	
700.00	698.77	697.42	694.66	2.24	1.45	-165.61	104.81	-21.00	129.60	125.89	3.71	34.975	
800.00	797.08	792.71	788.33	2.63	1.77	-173.87	103.39	-38.43	151.99	147.59	4.39	34.604 SF	
900.00	894.31	886.54	880.57	3.06	2.10	179.98	102.00	-55.60	181.77	176.72	5.05	35.976	
1,000.00	990.18	978.67	971.13	3.54	2.43	175.56	100.64	-72.45	217.90	212.21	5.69	38.283	
1,100.00	1,084.43	1,068.84	1,059.77	4.08	2.75	172.43	99.30	-88.95	259.60	253.27	6.32	41.069	
1,200.00	1,176.81	1,156.80	1,146.23	4.69	3.07	170.20	98.00	-105.05	306.34	299.39	6.95	44.094	
1,286.90	1,255.36	1,231.25	1,219.42	5.28	3.34	168.77	96.90	-118.67	350.78	343.28	7.49	46.804	
1,300.00	1,267.08	1,242.33	1,230.31	5.38	3.38	168.63	96.73	-120.70	357.73	350.15	7.59	47.162	
1,400.00	1,356.49	1,326.89	1,313.43	6.11	3.69	167.73	95.48	-136.17	410.88	402.68	8.19	50.138	
1,500.00	1,445.90	1,411.44	1,396.55	6.86	4.00	167.03	94.23	-151.64	464.07	455.26	8.82	52.625	
1,600.00	1,535.31	1,496.00	1,479.67	7.63	4.31	166.48	92.97	-167.11	517.31	507.86	9.45	54.721	
1,700.00	1,624.72	1,580.56	1,562.79	8.42	4.62	166.04	91.72	-182.58	570.58	560.48	10.10	56.502	
1,800.00	1,714.13	1,665.11	1,645.91	9.21	4.93	165.66	90.47	-198.05	623.86	613.11	10.75	58.029	
1,900.00	1,803.54	1,749.67	1,729.03	10.00	5.24	165.35	89.21	-213.52	677.17	665.76	11.41	59.348	
2,000.00	1,892.95	1,834.22	1,812.15	10.81	5.55	165.08	87.96	-228.99	730.48	718.41	12.07	60.497	
2,100.00	1,982.36	1,918.78	1,895.27	11.61	5.86	164.85	86.71	-244.46	783.81	771.06	12.74	61.504	
2,200.00	2,071.77	2,003.34	1,978.39	12.42	6.17	164.65	85.45	-259.93	837.14	823.72	13.42	62.393	
2,300.00	2,161.18	2,087.89	2,061.51	13.23	6.48	164.47	84.20	-275.40	890.48	876.38	14.09	63.182	
2,400.00	2,250.59	2,172.45	2,144.63	14.05	6.79	164.31	82.95	-290.88	943.82	929.05	14.77	63.887	
2,500.00	2,340.00	2,257.01	2,227.74	14.86	7.10	164.17	81.70	-306.35	997.17	981.72	15.46	64.520	
2,600.00	2,429.41	2,341.56	2,310.86	15.68	7.41	164.05	80.44	-321.82	1,050.53	1,034.39	16.14	65.090	
2,700.00	2,518.82	2,426.12	2,393.98	16.50	7.72	163.93	79.19	-337.29	1,103.88	1,087.06	16.83	65.607	
2,800.00	2,608.23	2,510.68	2,477.10	17.32	8.04	163.83	77.94	-352.76	1,157.24	1,139.73	17.51	66.078	
2,900.00	2,697.64	2,595.23	2,560.22	18.14	8.35	163.73	76.68	-368.23	1,210.60	1,192.40	18.20	66.507	
3,000.00	2,787.05	2,679.79	2,643.34	18.96	8.66	163.65	75.43	-383.70	1,263.97	1,245.07	18.89	66.901	
3,100.00	2,876.46	2,764.35	2,726.46	19.78	8.97	163.57	74.18	-399.17	1,317.33	1,297.75	19.58	67.263	
3,200.00	2,965.87	2,848.90	2,809.58	20.60	9.28	163.49	72.92	-414.64	1,370.70	1,350.42	20.28	67.597	
3,300.00	3,055.28	2,933.46	2,892.70	21.42	9.59	163.43	71.67	-430.11	1,424.07	1,403.10	20.97	67.906	
3,400.00	3,144.69	3,018.01	2,975.82	22.25	9.91	163.36	70.42	-445.58	1,477.44	1,455.77	21.67	68.192	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF07E-03 H04 596 - DD - Plan #2												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	9.49	88.86	14.86	90.10				
100.00	100.00	100.00	100.00	0.12	0.12	9.49	88.86	14.86	90.10	89.86	0.24	380.109	
200.00	200.00	200.00	200.00	0.48	0.29	9.49	88.86	14.86	90.10	89.33	0.77	117.003	
300.00	300.00	300.00	300.00	0.84	0.47	9.49	88.86	14.86	90.10	88.79	1.30	69.143	
400.00	400.00	400.00	400.00	1.20	0.64	9.49	88.86	14.86	90.10	88.26	1.84	49.071 CC, ES	
500.00	499.95	496.39	496.35	1.54	0.81	-141.86	90.42	16.72	94.07	91.68	2.39	39.361	
600.00	599.63	593.80	593.49	1.89	1.01	-141.52	94.74	22.49	105.57	102.62	2.95	35.783	
700.00	698.77	692.87	691.89	2.24	1.24	-140.36	98.59	33.14	121.44	117.92	3.51	34.557	
800.00	797.08	791.15	788.90	2.63	1.53	-138.62	101.21	48.59	141.05	136.90	4.15	33.954	
900.00	894.31	888.41	884.05	3.06	1.90	-136.59	102.62	68.64	164.45	159.56	4.89	33.646	
1,000.00	990.18	984.44	976.92	3.54	2.34	-134.46	102.84	93.03	191.62	185.90	5.73	33.465	
1,100.00	1,084.43	1,079.05	1,067.15	4.08	2.86	-132.34	101.94	121.47	222.53	215.85	6.68	33.324	
1,200.00	1,176.81	1,172.09	1,154.42	4.69	3.46	-130.28	99.95	153.62	257.09	249.34	7.75	33.186	
1,286.90	1,255.36	1,251.57	1,227.68	5.28	4.04	-128.56	97.40	184.33	290.00	281.22	8.78	33.045	
1,300.00	1,267.08	1,263.45	1,238.52	5.38	4.14	-128.43	96.95	189.17	295.16	286.22	8.94	33.013	
1,400.00	1,356.49	1,353.59	1,319.75	6.11	4.89	-127.12	92.97	228.02	334.85	324.63	10.22	32.757	
1,500.00	1,445.90	1,442.58	1,398.07	6.86	5.72	-125.41	88.07	269.97	375.20	363.61	11.59	32.371	
1,600.00	1,535.31	1,530.07	1,473.08	7.63	6.61	-123.45	82.32	314.61	416.46	403.42	13.03	31.956	
1,700.00	1,624.72	1,615.72	1,544.47	8.42	7.55	-121.33	75.80	361.48	458.87	444.36	14.51	31.627	
1,800.00	1,714.13	1,703.83	1,616.57	9.21	8.54	-119.22	68.55	411.61	502.31	486.27	16.04	31.323	
1,900.00	1,803.54	1,792.40	1,689.03	10.00	9.55	-117.42	61.25	462.02	546.25	528.67	17.57	31.085	
2,000.00	1,892.95	1,880.97	1,761.49	10.81	10.57	-115.88	53.96	512.43	590.56	571.45	19.11	30.903	
2,100.00	1,982.36	1,969.55	1,833.95	11.61	11.58	-114.55	46.66	562.84	635.18	614.54	20.65	30.763	
2,200.00	2,071.77	2,058.12	1,906.41	12.42	12.60	-113.40	39.37	613.25	680.04	657.86	22.18	30.654	
2,300.00	2,161.18	2,146.69	1,978.87	13.23	13.62	-112.39	32.07	663.66	725.10	701.38	23.72	30.567	
2,400.00	2,250.59	2,235.26	2,051.33	14.05	14.65	-111.49	24.78	714.07	770.32	745.06	25.26	30.497	
2,500.00	2,340.00	2,323.83	2,123.79	14.86	15.67	-110.69	17.48	764.48	815.67	788.88	26.80	30.441	
2,600.00	2,429.41	2,412.40	2,196.25	15.68	16.70	-109.98	10.19	814.89	861.14	832.81	28.33	30.395	
2,700.00	2,518.82	2,500.97	2,268.71	16.50	17.73	-109.33	2.89	865.30	906.71	876.84	29.87	30.357	
2,800.00	2,608.23	2,589.54	2,341.17	17.32	18.75	-108.75	-4.40	915.71	952.36	920.95	31.40	30.325	
2,900.00	2,697.64	2,678.12	2,413.63	18.14	19.78	-108.22	-11.70	966.12	998.08	965.13	32.94	30.299	
3,000.00	2,787.05	2,766.69	2,486.09	18.96	20.81	-107.74	-18.99	1,016.53	1,043.86	1,009.38	34.48	30.277	
3,100.00	2,876.46	2,855.26	2,558.55	19.78	21.84	-107.29	-26.29	1,066.94	1,089.69	1,053.68	36.01	30.258	
3,200.00	2,965.87	2,943.83	2,631.01	20.60	22.87	-106.88	-33.58	1,117.35	1,135.58	1,098.03	37.55	30.242	
3,300.00	3,055.28	3,032.40	2,703.47	21.42	23.90	-106.51	-40.88	1,167.76	1,181.50	1,142.42	39.09	30.229	
3,400.00	3,144.69	3,120.97	2,775.93	22.25	24.93	-106.16	-48.17	1,218.17	1,227.47	1,186.85	40.62	30.217	
3,500.00	3,234.10	3,209.54	2,848.39	23.07	25.96	-105.84	-55.47	1,268.58	1,273.46	1,231.31	42.16	30.207	
3,600.00	3,323.51	3,298.12	2,920.85	23.90	26.99	-105.54	-62.76	1,318.99	1,319.49	1,275.80	43.69	30.199	
3,700.00	3,412.92	3,386.69	2,993.31	24.72	28.03	-105.26	-70.05	1,369.40	1,365.54	1,320.31	45.23	30.191	
3,800.00	3,502.33	3,475.26	3,065.77	25.55	29.06	-104.99	-77.35	1,419.81	1,411.62	1,364.86	46.77	30.185	
3,900.00	3,591.74	3,563.83	3,138.23	26.37	30.09	-104.75	-84.64	1,470.22	1,457.72	1,409.42	48.30	30.179 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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF10A-03 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	15.52	67.61	18.77	70.17					
100.00	100.00	100.00	100.00	0.12	0.12	15.52	67.61	18.77	70.17	69.93	0.24	296.048		
116.67	116.67	116.67	116.67	0.18	0.15	15.52	67.61	18.77	70.17	69.85	0.33	215.341	CC	
200.00	200.00	200.00	200.00	0.48	0.29	15.52	67.61	18.77	70.17	69.40	0.77	91.128		
300.00	300.00	299.63	299.58	0.84	0.47	17.63	67.11	21.32	70.42	69.11	1.31	53.637	ES	
400.00	400.00	398.71	398.36	1.20	0.69	23.77	65.62	28.91	71.73	69.82	1.90	37.656		
500.00	499.95	496.95	495.76	1.54	0.97	-119.76	63.18	41.38	76.91	74.34	2.57	29.908		
600.00	599.63	594.21	591.41	1.89	1.33	-112.99	59.81	58.55	87.73	84.41	3.32	26.422		
700.00	698.77	690.23	684.86	2.24	1.76	-107.94	55.57	80.18	103.71	99.57	4.14	25.062		
800.00	797.08	784.80	775.71	2.63	2.28	-104.47	50.51	105.95	124.30	119.29	5.01	24.801	SF	
900.00	894.31	877.74	863.60	3.06	2.87	-102.16	44.71	135.54	149.08	143.14	5.95	25.070		
1,000.00	990.18	968.86	948.26	3.54	3.53	-100.63	38.22	168.60	177.74	170.79	6.95	25.565		
1,100.00	1,084.43	1,058.05	1,029.47	4.08	4.26	-99.58	31.13	204.76	210.03	201.99	8.04	26.121		
1,200.00	1,176.81	1,145.20	1,107.08	4.69	5.05	-98.82	23.50	243.64	245.75	236.53	9.22	26.654		
1,286.90	1,255.36	1,219.22	1,171.52	5.28	5.78	-98.27	16.49	279.37	279.46	269.13	10.32	27.072		
1,300.00	1,267.08	1,230.24	1,181.00	5.38	5.89	-98.36	15.41	284.90	284.74	274.24	10.50	27.121		
1,400.00	1,356.49	1,313.35	1,251.36	6.11	6.78	-98.61	6.89	328.30	326.38	314.56	11.82	27.603		
1,500.00	1,445.90	1,401.24	1,324.24	6.86	7.75	-98.42	-2.56	376.50	369.71	356.51	13.20	28.001		
1,600.00	1,535.31	1,491.32	1,398.87	7.63	8.75	-98.25	-12.27	426.00	413.12	398.49	14.63	28.245		
1,700.00	1,624.72	1,581.40	1,473.50	8.42	9.75	-98.11	-21.99	475.51	456.53	440.46	16.07	28.404		
1,800.00	1,714.13	1,671.48	1,548.13	9.21	10.76	-98.00	-31.70	525.01	499.95	482.41	17.54	28.509		
1,900.00	1,803.54	1,761.57	1,622.76	10.00	11.77	-97.90	-41.41	574.52	543.36	524.35	19.01	28.576		
2,000.00	1,892.95	1,851.65	1,697.39	10.81	12.78	-97.82	-51.12	624.02	586.78	566.28	20.50	28.618		
2,100.00	1,982.36	1,941.73	1,772.02	11.61	13.79	-97.75	-60.83	673.52	630.20	608.20	22.00	28.643		
2,200.00	2,071.77	2,031.81	1,846.65	12.42	14.80	-97.69	-70.54	723.03	673.62	650.11	23.51	28.655		
2,300.00	2,161.18	2,121.89	1,921.28	13.23	15.81	-97.64	-80.25	772.53	717.03	692.01	25.02	28.659		
2,400.00	2,250.59	2,211.97	1,995.91	14.05	16.82	-97.59	-89.96	822.03	760.45	733.92	26.54	28.657		
2,500.00	2,340.00	2,302.05	2,070.54	14.86	17.84	-97.55	-99.68	871.54	803.87	775.82	28.06	28.650		
2,600.00	2,429.41	2,392.13	2,145.16	15.68	18.85	-97.51	-109.39	921.04	847.29	817.71	29.58	28.641		
2,700.00	2,518.82	2,482.21	2,219.79	16.50	19.86	-97.48	-119.10	970.55	890.71	859.60	31.11	28.630		
2,800.00	2,608.23	2,572.29	2,294.42	17.32	20.88	-97.45	-128.81	1,020.05	934.13	901.49	32.64	28.617		
2,900.00	2,697.64	2,662.37	2,369.05	18.14	21.89	-97.42	-138.52	1,069.55	977.55	943.38	34.18	28.604		
3,000.00	2,787.05	2,752.45	2,443.68	18.96	22.91	-97.39	-148.23	1,119.06	1,020.98	985.26	35.71	28.590		
3,100.00	2,876.46	2,842.53	2,518.31	19.78	23.92	-97.37	-157.94	1,168.56	1,064.40	1,027.15	37.25	28.575		
3,200.00	2,965.87	2,932.61	2,592.94	20.60	24.94	-97.35	-167.66	1,218.06	1,107.82	1,069.03	38.79	28.561		
3,300.00	3,055.28	3,022.69	2,667.57	21.42	25.95	-97.33	-177.37	1,267.57	1,151.24	1,110.91	40.33	28.547		
3,400.00	3,144.69	3,112.77	2,742.20	22.25	26.97	-97.31	-187.08	1,317.07	1,194.66	1,152.79	41.87	28.533		
3,500.00	3,234.10	3,202.85	2,816.83	23.07	27.98	-97.29	-196.79	1,366.58	1,238.08	1,194.67	43.41	28.519		
3,600.00	3,323.51	3,292.93	2,891.46	23.90	29.00	-97.28	-206.50	1,416.08	1,281.50	1,236.55	44.96	28.506		
3,700.00	3,412.92	3,383.01	2,966.09	24.72	30.01	-97.26	-216.21	1,465.58	1,324.92	1,278.42	46.50	28.492		
3,800.00	3,502.33	3,473.09	3,040.72	25.55	31.03	-97.25	-225.92	1,515.09	1,368.35	1,320.30	48.05	28.480		
3,900.00	3,591.74	3,563.17	3,115.35	26.37	32.04	-97.23	-235.63	1,564.59	1,411.77	1,362.18	49.59	28.467		
4,000.00	3,681.15	3,653.25	3,189.98	27.20	33.06	-97.22	-245.35	1,614.09	1,455.19	1,404.05	51.14	28.455		
4,100.00	3,770.56	3,743.33	3,264.60	28.02	34.08	-97.21	-255.06	1,663.60	1,498.61	1,445.92	52.69	28.444		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF10A-04 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	8.37	79.76	11.73	80.62					
100.00	100.00	100.00	100.00	0.12	0.12	8.37	79.76	11.73	80.62	80.38	0.24	340.122		
200.00	200.00	200.00	200.00	0.48	0.29	8.37	79.76	11.73	80.62	79.85	0.77	104.694		
300.00	300.00	302.80	302.75	0.84	0.48	6.87	78.23	9.43	78.85	77.47	1.37	57.410		
400.00	400.00	405.01	404.62	1.20	0.71	2.00	73.69	2.57	73.88	71.86	2.01	36.693		
500.00	499.95	506.05	504.74	1.54	1.00	-159.72	66.24	-8.66	69.42	66.79	2.63	26.414		
527.75	527.65	533.79	532.09	1.64	1.11	-163.66	63.69	-12.52	69.14	66.33	2.81	24.646	CC, ES	
600.00	599.63	605.24	602.20	1.89	1.37	-175.36	56.10	-23.97	71.48	68.21	3.27	21.867		
700.00	698.77	702.34	697.01	2.24	1.76	169.43	44.51	-41.47	83.83	79.82	4.00	20.936	SF	
800.00	797.08	798.66	791.05	2.63	2.15	159.37	32.99	-58.85	105.34	100.58	4.76	22.141		
900.00	894.31	894.02	884.14	3.06	2.54	153.57	21.58	-76.06	133.38	127.89	5.49	24.294		
1,000.00	990.18	988.15	976.04	3.54	2.93	150.45	10.32	-93.05	166.48	160.25	6.22	26.750		
1,100.00	1,084.43	1,080.79	1,066.48	4.08	3.31	148.89	-0.76	-109.77	203.98	197.01	6.97	29.251		
1,200.00	1,176.81	1,171.70	1,155.23	4.69	3.69	148.22	-11.63	-126.18	245.63	237.88	7.75	31.712		
1,286.90	1,255.36	1,249.08	1,230.78	5.28	4.02	148.04	-20.88	-140.15	285.08	276.64	8.43	33.801		
1,300.00	1,267.08	1,260.63	1,242.06	5.38	4.06	148.14	-22.27	-142.23	291.25	282.71	8.55	34.084		
1,400.00	1,356.49	1,348.76	1,328.10	6.11	4.43	148.80	-32.81	-158.14	338.40	329.07	9.33	36.262		
1,500.00	1,445.90	1,436.89	1,414.14	6.86	4.80	149.29	-43.35	-174.05	385.58	375.45	10.13	38.053		
1,600.00	1,535.31	1,525.02	1,500.17	7.63	5.17	149.68	-53.89	-189.95	432.77	421.83	10.94	39.548		
1,700.00	1,624.72	1,613.15	1,586.21	8.42	5.54	149.99	-64.43	-205.86	479.98	468.22	11.76	40.809		
1,800.00	1,714.13	1,701.28	1,672.25	9.21	5.91	150.25	-74.97	-221.76	527.19	514.61	12.59	41.885		
1,900.00	1,803.54	1,789.41	1,758.29	10.00	6.28	150.46	-85.51	-237.67	574.41	561.00	13.42	42.814		
2,000.00	1,892.95	1,877.54	1,844.33	10.81	6.65	150.64	-96.05	-253.58	621.64	607.39	14.25	43.621		
2,100.00	1,982.36	1,965.67	1,930.37	11.61	7.02	150.80	-106.59	-269.48	668.87	653.78	15.09	44.329		
2,200.00	2,071.77	2,053.80	2,016.41	12.42	7.39	150.93	-117.13	-285.39	716.11	700.18	15.93	44.955		
2,300.00	2,161.18	2,141.93	2,102.45	13.23	7.77	151.05	-127.67	-301.30	763.34	746.57	16.77	45.512		
2,400.00	2,250.59	2,230.06	2,188.49	14.05	8.14	151.15	-138.21	-317.20	810.58	792.97	17.62	46.010		
2,500.00	2,340.00	2,318.19	2,274.53	14.86	8.51	151.25	-148.75	-333.11	857.82	839.36	18.46	46.459		
2,600.00	2,429.41	2,406.32	2,360.57	15.68	8.88	151.33	-159.29	-349.02	905.07	885.75	19.31	46.864		
2,700.00	2,518.82	2,494.45	2,446.61	16.50	9.25	151.41	-169.83	-364.92	952.31	932.15	20.16	47.233		
2,800.00	2,608.23	2,582.58	2,532.64	17.32	9.62	151.47	-180.37	-380.83	999.56	978.54	21.01	47.569		
2,900.00	2,697.64	2,670.71	2,618.68	18.14	9.99	151.53	-190.91	-396.74	1,046.80	1,024.94	21.86	47.877		
3,000.00	2,787.05	2,758.84	2,704.72	18.96	10.36	151.59	-201.45	-412.64	1,094.05	1,071.33	22.72	48.159		
3,100.00	2,876.46	2,846.96	2,790.76	19.78	10.73	151.64	-211.99	-428.55	1,141.30	1,117.73	23.57	48.420		
3,200.00	2,965.87	2,935.09	2,876.80	20.60	11.11	151.69	-222.53	-444.45	1,188.55	1,164.12	24.42	48.662		
3,300.00	3,055.28	3,023.22	2,962.84	21.42	11.48	151.73	-233.07	-460.36	1,235.80	1,210.52	25.28	48.886		
3,400.00	3,144.69	3,111.35	3,048.88	22.25	11.85	151.78	-243.61	-476.27	1,283.04	1,256.91	26.13	49.094		
3,500.00	3,234.10	3,199.48	3,134.92	23.07	12.22	151.81	-254.15	-492.17	1,330.30	1,303.30	26.99	49.288		
3,600.00	3,323.51	3,287.61	3,220.96	23.90	12.59	151.85	-264.69	-508.08	1,377.55	1,349.70	27.85	49.470		
3,700.00	3,412.92	3,375.74	3,307.00	24.72	12.96	151.88	-275.23	-523.99	1,424.80	1,396.09	28.70	49.640		
3,800.00	3,502.33	3,463.87	3,393.04	25.55	13.33	151.91	-285.77	-539.89	1,472.05	1,442.49	29.56	49.799		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF10B-03 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	7.68	69.63	9.39	70.26					
100.00	100.00	100.00	100.00	0.12	0.12	7.68	69.63	9.39	70.26	70.03	0.24	296.433		
200.00	200.00	200.00	200.00	0.48	0.29	7.68	69.63	9.39	70.26	69.49	0.77	91.246		
300.00	300.00	300.00	300.00	0.84	0.47	7.68	69.63	9.39	70.26	68.96	1.30	53.922		
400.00	400.00	400.00	400.00	1.20	0.64	7.68	69.63	9.39	70.26	68.43	1.84	38.268 CC, ES		
500.00	499.95	499.95	499.95	1.54	0.81	-144.95	69.63	9.39	72.39	70.03	2.36	30.736		
600.00	599.63	599.63	599.63	1.89	0.99	-148.12	69.63	9.39	78.94	76.07	2.87	27.461		
700.00	698.77	699.97	699.92	2.24	1.17	-150.77	68.97	11.92	89.63	86.22	3.41	26.261		
800.00	797.08	800.25	799.88	2.63	1.37	-151.30	66.98	19.53	103.68	99.69	3.99	25.996		
900.00	894.31	900.22	898.99	3.06	1.61	-150.38	63.68	32.17	120.94	116.31	4.62	26.167		
1,000.00	990.18	999.64	996.73	3.54	1.92	-148.58	59.10	49.69	141.45	136.11	5.34	26.489		
1,100.00	1,084.43	1,098.27	1,092.64	4.08	2.31	-146.31	53.29	71.92	165.30	159.14	6.17	26.803		
1,200.00	1,176.81	1,195.89	1,186.27	4.69	2.80	-143.84	46.32	98.60	192.59	185.47	7.12	27.040		
1,286.90	1,255.36	1,279.76	1,265.50	5.28	3.29	-141.65	39.37	125.20	219.12	211.05	8.07	27.149		
1,300.00	1,267.08	1,292.33	1,277.27	5.38	3.37	-141.40	38.26	129.47	223.32	215.10	8.22	27.161		
1,400.00	1,356.49	1,388.01	1,365.84	6.11	4.04	-139.11	29.12	164.46	255.18	245.73	9.45	27.015		
1,500.00	1,445.90	1,482.91	1,451.79	6.86	4.80	-136.36	18.96	203.35	287.06	276.25	10.81	26.557		
1,600.00	1,535.31	1,576.57	1,534.57	7.63	5.64	-133.31	7.88	245.74	319.41	307.11	12.30	25.974		
1,700.00	1,624.72	1,668.58	1,613.69	8.42	6.56	-130.10	-3.99	291.15	352.67	338.78	13.89	25.395		
1,800.00	1,714.13	1,758.57	1,688.81	9.21	7.56	-126.82	-16.51	339.09	387.26	371.71	15.55	24.906		
1,900.00	1,803.54	1,846.91	1,760.25	10.00	8.58	-123.54	-29.64	389.34	423.55	406.32	17.23	24.584		
2,000.00	1,892.95	1,936.84	1,832.22	10.81	9.64	-120.53	-43.27	441.52	461.26	442.32	18.94	24.353		
2,100.00	1,982.36	2,026.78	1,904.20	11.61	10.72	-117.96	-56.91	493.70	499.94	479.31	20.64	24.227		
2,200.00	2,071.77	2,116.72	1,976.17	12.42	11.79	-115.75	-70.54	545.87	539.40	517.08	22.32	24.171		
2,300.00	2,161.18	2,206.65	2,048.15	13.23	12.87	-113.83	-84.17	598.05	579.47	555.48	23.98	24.162 SF		
2,400.00	2,250.59	2,296.59	2,120.12	14.05	13.96	-112.15	-97.80	650.23	620.03	594.39	25.64	24.185		
2,500.00	2,340.00	2,386.53	2,192.10	14.86	15.04	-110.67	-111.43	702.40	660.99	633.71	27.28	24.228		
2,600.00	2,429.41	2,476.46	2,264.07	15.68	16.13	-109.36	-125.07	754.58	702.29	673.37	28.92	24.286		
2,700.00	2,518.82	2,566.40	2,336.05	16.50	17.22	-108.19	-138.70	806.76	743.86	713.32	30.55	24.352		
2,800.00	2,608.23	2,656.34	2,408.02	17.32	18.31	-107.15	-152.33	858.93	785.67	753.50	32.17	24.424		
2,900.00	2,697.64	2,746.27	2,480.00	18.14	19.40	-106.21	-165.96	911.11	827.67	793.89	33.78	24.498		
3,000.00	2,787.05	2,836.21	2,551.97	18.96	20.49	-105.36	-179.60	963.29	869.85	834.45	35.40	24.574		
3,100.00	2,876.46	2,926.15	2,623.95	19.78	21.59	-104.58	-193.23	1,015.46	912.17	875.16	37.00	24.650		
3,200.00	2,965.87	3,016.08	2,695.92	20.60	22.68	-103.88	-206.86	1,067.64	954.61	916.00	38.61	24.725		
3,300.00	3,055.28	3,106.02	2,767.89	21.42	23.77	-103.23	-220.49	1,119.82	997.17	956.95	40.21	24.798		
3,400.00	3,144.69	3,195.96	2,839.87	22.25	24.87	-102.64	-234.13	1,171.99	1,039.82	998.01	41.81	24.870		
3,500.00	3,234.10	3,285.89	2,911.84	23.07	25.96	-102.09	-247.76	1,224.17	1,082.55	1,039.15	43.41	24.940		
3,600.00	3,323.51	3,375.83	2,983.82	23.90	27.06	-101.58	-261.39	1,276.35	1,125.37	1,080.37	45.00	25.007		
3,700.00	3,412.92	3,465.77	3,055.79	24.72	28.15	-101.11	-275.02	1,328.52	1,168.25	1,121.65	46.59	25.073		
3,800.00	3,502.33	3,555.70	3,127.77	25.55	29.25	-100.68	-288.66	1,380.70	1,211.19	1,163.00	48.19	25.136		
3,900.00	3,591.74	3,645.64	3,199.74	26.37	30.35	-100.27	-302.29	1,432.87	1,254.18	1,204.40	49.78	25.196		
4,000.00	3,681.15	3,735.58	3,271.72	27.20	31.44	-99.89	-315.92	1,485.05	1,297.22	1,245.86	51.37	25.255		
4,100.00	3,770.56	3,825.51	3,343.69	28.02	32.54	-99.53	-329.55	1,537.23	1,340.31	1,287.36	52.95	25.311		
4,200.00	3,859.97	3,915.45	3,415.67	28.85	33.64	-99.20	-343.18	1,589.40	1,383.44	1,328.90	54.54	25.365		
4,300.00	3,949.38	4,005.38	3,487.64	29.68	34.73	-98.89	-356.82	1,641.58	1,426.60	1,370.47	56.13	25.418		
4,400.00	4,038.79	4,095.32	3,559.62	30.50	35.83	-98.59	-370.45	1,693.76	1,469.79	1,412.08	57.71	25.468		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF10C-03 H04 596 - DD - Plan #2													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	15.95	57.48	16.43	59.78							
100.00	100.00	100.00	100.00	0.12	0.12	15.95	57.48	16.43	59.78	59.54	0.24	252.203				
106.32	106.32	106.32	106.32	0.14	0.13	15.95	57.48	16.43	59.78	59.51	0.27	220.824	CC			
200.00	200.00	199.83	199.82	0.48	0.29	16.57	57.36	17.07	59.85	59.08	0.77	77.584	ES			
300.00	300.00	299.21	299.06	0.84	0.49	21.43	56.47	22.16	60.67	59.33	1.34	45.299				
400.00	400.00	397.79	397.10	1.20	0.74	30.52	54.69	32.23	63.55	61.55	2.00	31.829				
500.00	499.95	495.38	493.51	1.54	1.06	-111.02	52.06	47.10	71.40	68.67	2.74	26.084				
600.00	599.63	592.44	588.50	1.89	1.46	-103.53	48.04	66.51	84.75	81.24	3.51	24.127				
700.00	698.77	688.28	681.22	2.24	1.94	-98.41	42.35	90.07	102.43	98.10	4.33	23.646	SF			
800.00	797.08	782.80	771.36	2.63	2.50	-95.08	35.08	117.52	123.81	118.61	5.20	23.817				
900.00	894.31	875.87	858.65	3.06	3.13	-92.95	26.33	148.58	148.46	142.34	6.13	24.233				
1,000.00	990.18	967.43	942.89	3.54	3.84	-91.58	16.21	182.95	176.12	168.99	7.13	24.691				
1,100.00	1,084.43	1,057.39	1,023.91	4.08	4.61	-90.69	4.81	220.34	206.58	198.35	8.23	25.095				
1,200.00	1,176.81	1,145.72	1,101.59	4.69	5.45	-90.07	-7.74	260.46	239.71	230.27	9.44	25.401				
1,286.90	1,255.36	1,221.13	1,166.31	5.28	6.23	-89.67	-19.52	297.32	270.54	259.97	10.57	25.585				
1,300.00	1,267.08	1,232.40	1,175.85	5.38	6.36	-89.76	-21.36	303.03	275.35	264.59	10.76	25.601				
1,400.00	1,356.49	1,317.44	1,246.66	6.11	7.30	-90.02	-35.93	347.79	313.39	301.27	12.13	25.843				
1,500.00	1,445.90	1,409.29	1,321.97	6.86	8.33	-89.92	-52.33	397.75	352.64	339.08	13.55	26.016				
1,600.00	1,535.31	1,501.27	1,397.39	7.63	9.38	-89.85	-68.76	447.78	391.88	376.87	15.01	26.102				
1,700.00	1,624.72	1,593.25	1,472.80	8.42	10.42	-89.79	-85.18	497.82	431.12	414.63	16.50	26.133				
1,800.00	1,714.13	1,685.22	1,548.21	9.21	11.47	-89.74	-101.61	547.85	470.37	452.37	18.00	26.133				
1,900.00	1,803.54	1,777.20	1,623.62	10.00	12.52	-89.70	-118.03	597.88	509.61	490.10	19.52	26.113				
2,000.00	1,892.95	1,869.18	1,699.03	10.81	13.57	-89.66	-134.46	647.91	548.86	527.81	21.04	26.081				
2,100.00	1,982.36	1,961.16	1,774.44	11.61	14.63	-89.63	-150.88	697.94	588.10	565.52	22.58	26.043				
2,200.00	2,071.77	2,053.13	1,849.85	12.42	15.68	-89.60	-167.31	747.97	627.35	603.22	24.13	26.002				
2,300.00	2,161.18	2,145.11	1,925.26	13.23	16.73	-89.58	-183.73	798.01	666.59	640.91	25.68	25.959				
2,400.00	2,250.59	2,237.09	2,000.67	14.05	17.79	-89.56	-200.16	848.04	705.84	678.60	27.24	25.916				
2,500.00	2,340.00	2,329.06	2,076.08	14.86	18.84	-89.54	-216.58	898.07	745.08	716.29	28.80	25.874				
2,600.00	2,429.41	2,421.04	2,151.50	15.68	19.90	-89.52	-233.00	948.10	784.33	753.97	30.36	25.832				
2,700.00	2,518.82	2,513.02	2,226.91	16.50	20.95	-89.51	-249.43	998.13	823.57	791.64	31.93	25.792				
2,800.00	2,608.23	2,604.99	2,302.32	17.32	22.01	-89.49	-265.85	1,048.16	862.82	829.32	33.50	25.754				
2,900.00	2,697.64	2,696.97	2,377.73	18.14	23.07	-89.48	-282.28	1,098.20	902.07	866.99	35.08	25.718				
3,000.00	2,787.05	2,788.95	2,453.14	18.96	24.12	-89.47	-298.70	1,148.23	941.31	904.66	36.65	25.683				
3,100.00	2,876.46	2,880.92	2,528.55	19.78	25.18	-89.46	-315.13	1,198.26	980.56	942.33	38.23	25.649				
3,200.00	2,965.87	2,972.90	2,603.96	20.60	26.24	-89.45	-331.55	1,248.29	1,019.80	979.99	39.81	25.618				
3,300.00	3,055.28	3,064.88	2,679.37	21.42	27.29	-89.44	-347.98	1,298.32	1,059.05	1,017.66	41.39	25.587				
3,400.00	3,144.69	3,156.86	2,754.78	22.25	28.35	-89.43	-364.40	1,348.35	1,098.29	1,055.32	42.97	25.559				
3,500.00	3,234.10	3,248.83	2,830.20	23.07	29.41	-89.42	-380.83	1,398.38	1,137.54	1,092.98	44.55	25.531				
3,600.00	3,323.51	3,340.81	2,905.61	23.90	30.46	-89.41	-397.25	1,448.42	1,176.78	1,130.65	46.14	25.505				
3,700.00	3,412.92	3,432.79	2,981.02	24.72	31.52	-89.41	-413.68	1,498.45	1,216.03	1,168.31	47.72	25.480				
3,800.00	3,502.33	3,524.76	3,056.43	25.55	32.58	-89.40	-430.10	1,548.48	1,255.28	1,205.97	49.31	25.457				
3,900.00	3,591.74	3,616.74	3,131.84	26.37	33.64	-89.39	-446.53	1,598.51	1,294.52	1,243.62	50.90	25.434				
4,000.00	3,681.15	3,708.72	3,207.25	27.20	34.69	-89.39	-462.95	1,648.54	1,333.77	1,281.28	52.48	25.412				
4,100.00	3,770.56	3,800.69	3,282.66	28.02	35.75	-89.38	-479.38	1,698.57	1,373.01	1,318.94	54.07	25.392				
4,200.00	3,859.97	3,892.67	3,358.07	28.85	36.81	-89.38	-495.80	1,748.61	1,412.26	1,356.60	55.66	25.372				
4,300.00	3,949.38	3,984.65	3,433.48	29.68	37.87	-89.37	-512.22	1,798.64	1,451.50	1,394.25	57.25	25.353				
4,400.00	4,038.79	4,076.62	3,508.89	30.50	38.92	-89.37	-528.65	1,848.67	1,490.75	1,431.91	58.84	25.335				

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF10C-04 H04 596 - DD - Plan #2												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	1.08	41.31	0.78	41.32				
100.00	100.00	100.00	100.00	0.12	0.12	1.08	41.31	0.78	41.32	41.08	0.24	174.316	
200.00	200.00	200.00	200.00	0.48	0.29	1.08	41.31	0.78	41.32	40.55	0.77	53.657	
300.00	300.00	300.32	300.32	0.84	0.47	0.68	41.12	0.49	41.12	39.81	1.31	31.468	
400.00	400.00	400.89	400.84	1.20	0.65	-2.72	39.58	-1.88	39.63	37.78	1.86	21.339	
452.32	452.31	453.41	453.30	1.38	0.75	-157.93	38.16	-4.06	39.06	36.91	2.14	18.241	CC, ES
500.00	499.95	501.18	500.98	1.54	0.84	-162.88	36.51	-6.60	39.61	37.22	2.40	16.533	
600.00	599.63	600.86	600.30	1.89	1.06	-175.78	31.96	-13.62	45.17	42.22	2.95	15.314	SF
700.00	698.77	699.54	698.36	2.24	1.31	172.27	25.96	-22.85	57.75	54.20	3.55	16.257	
800.00	797.08	796.85	794.73	2.63	1.59	163.72	18.61	-34.17	77.39	73.19	4.20	18.424	
900.00	894.31	892.44	889.00	3.06	1.90	158.14	10.01	-47.42	103.47	98.59	4.88	21.182	
1,000.00	990.18	985.98	980.80	3.54	2.24	154.48	0.26	-62.42	135.44	129.84	5.60	24.168	
1,100.00	1,084.43	1,077.16	1,069.82	4.08	2.62	151.99	-10.49	-78.98	172.90	166.54	6.36	27.189	
1,200.00	1,176.81	1,165.71	1,155.76	4.69	3.02	150.17	-22.11	-96.88	215.55	208.40	7.15	30.146	
1,286.90	1,255.36	1,240.34	1,227.76	5.28	3.38	148.92	-32.80	-113.34	256.62	248.75	7.87	32.620	
1,300.00	1,267.08	1,251.41	1,238.41	5.38	3.44	148.86	-34.46	-115.89	263.09	255.10	7.98	32.953	
1,400.00	1,356.49	1,335.35	1,318.81	6.11	3.89	148.26	-47.59	-136.11	312.95	304.13	8.82	35.472	
1,500.00	1,445.90	1,418.25	1,397.63	6.86	4.37	147.51	-61.56	-157.62	363.67	353.97	9.70	37.509	
1,600.00	1,535.31	1,500.03	1,474.79	7.63	4.87	146.66	-76.32	-180.34	415.26	404.66	10.60	39.187	
1,700.00	1,624.72	1,611.11	1,579.29	8.42	5.54	145.50	-99.42	-210.06	464.96	453.16	11.80	39.400	
1,800.00	1,714.13	1,724.77	1,686.19	9.21	6.22	144.34	-127.97	-235.99	509.78	496.69	13.09	38.950	
1,900.00	1,803.54	1,814.82	1,770.80	10.00	6.77	143.51	-152.15	-255.07	552.72	538.55	14.17	39.004	
2,000.00	1,892.95	1,904.86	1,855.41	10.81	7.31	142.80	-176.33	-274.15	595.74	580.48	15.26	39.028	
2,100.00	1,982.36	1,994.90	1,940.02	11.61	7.86	142.18	-200.50	-293.24	638.83	622.46	16.37	39.030	
2,200.00	2,071.77	2,084.94	2,024.63	12.42	8.42	141.65	-224.68	-312.32	681.97	664.49	17.48	39.017	
2,300.00	2,161.18	2,174.98	2,109.24	13.23	8.97	141.17	-248.86	-331.40	725.15	706.56	18.60	38.995	
2,400.00	2,250.59	2,265.02	2,193.85	14.05	9.53	140.75	-273.03	-350.48	768.37	748.65	19.72	38.967	
2,500.00	2,340.00	2,355.07	2,278.46	14.86	10.09	140.37	-297.21	-369.57	811.62	790.78	20.85	38.935	
2,600.00	2,429.41	2,445.11	2,363.07	15.68	10.65	140.04	-321.39	-388.65	854.90	832.92	21.98	38.901	
2,700.00	2,518.82	2,535.15	2,447.68	16.50	11.21	139.73	-345.56	-407.73	898.20	875.09	23.11	38.865	
2,800.00	2,608.23	2,625.19	2,532.29	17.32	11.78	139.45	-369.74	-426.81	941.51	917.26	24.25	38.829	
2,900.00	2,697.64	2,715.23	2,616.90	18.14	12.34	139.20	-393.92	-445.90	984.85	959.46	25.39	38.793	
3,000.00	2,787.05	2,805.27	2,701.51	18.96	12.90	138.97	-418.09	-464.98	1,028.19	1,001.66	26.53	38.758	
3,100.00	2,876.46	2,895.32	2,786.12	19.78	13.47	138.75	-442.27	-484.06	1,071.55	1,043.88	27.67	38.723	
3,200.00	2,965.87	2,985.36	2,870.73	20.60	14.04	138.56	-466.45	-503.14	1,114.92	1,086.11	28.82	38.689	
3,300.00	3,055.28	3,075.40	2,955.34	21.42	14.60	138.37	-490.62	-522.23	1,158.31	1,128.34	29.96	38.656	
3,400.00	3,144.69	3,165.44	3,039.95	22.25	15.17	138.21	-514.80	-541.31	1,201.70	1,170.58	31.11	38.624	
3,500.00	3,234.10	3,255.48	3,124.56	23.07	15.73	138.05	-538.97	-560.39	1,245.09	1,212.83	32.26	38.593	
3,600.00	3,323.51	3,345.52	3,209.17	23.90	16.30	137.90	-563.15	-579.47	1,288.50	1,255.09	33.41	38.563	
3,700.00	3,412.92	3,435.57	3,293.78	24.72	16.87	137.77	-587.33	-598.56	1,331.91	1,297.35	34.56	38.535	
3,800.00	3,502.33	3,525.61	3,378.39	25.55	17.44	137.64	-611.50	-617.64	1,375.33	1,339.61	35.72	38.507	
3,900.00	3,591.74	3,615.65	3,463.00	26.37	18.00	137.52	-635.68	-636.72	1,418.75	1,381.88	36.87	38.481	
4,000.00	3,681.15	3,705.69	3,547.61	27.20	18.57	137.40	-659.86	-655.80	1,462.18	1,424.15	38.02	38.455	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF10E-04 H04 596 - DD - Plan #2												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	-2.87	31.19	-1.56	31.23				
100.00	100.00	100.00	100.00	0.12	0.12	-2.87	31.19	-1.56	31.23	30.99	0.24	131.762	
200.00	200.00	200.00	200.00	0.48	0.29	-2.87	31.19	-1.56	31.23	30.46	0.77	40.558	
300.00	300.00	300.00	300.00	0.84	0.47	-2.87	31.19	-1.56	31.23	29.93	1.30	23.968	
400.00	400.00	400.93	400.89	1.20	0.65	-6.91	29.43	-3.56	29.66	27.78	1.87	15.837	
474.19	474.17	475.49	475.25	1.45	0.81	-168.46	25.86	-7.61	28.39	26.10	2.29	12.395 CC, ES	
500.00	499.95	501.33	500.95	1.54	0.86	-173.58	24.18	-9.52	28.60	26.18	2.43	11.781	
600.00	599.63	600.58	599.34	1.89	1.13	164.04	15.58	-19.27	34.68	31.66	3.02	11.478 SF	
700.00	698.77	698.12	695.24	2.24	1.47	147.10	3.85	-32.58	50.33	46.56	3.77	13.352	
800.00	797.08	793.40	787.93	2.63	1.89	137.50	-10.72	-49.11	74.33	69.74	4.59	16.191	
900.00	894.31	885.95	876.80	3.06	2.38	132.11	-27.79	-68.46	105.28	99.83	5.45	19.328	
1,000.00	990.18	975.77	961.77	3.54	2.90	128.81	-47.04	-90.30	142.33	136.01	6.32	22.533	
1,100.00	1,084.43	1,066.88	1,047.38	4.08	3.46	127.22	-67.64	-113.67	183.50	176.34	7.16	25.628	
1,200.00	1,176.81	1,156.59	1,131.68	4.69	4.02	126.88	-87.94	-136.69	227.57	219.51	8.06	28.242	
1,286.90	1,255.36	1,233.24	1,203.70	5.28	4.50	127.09	-105.27	-156.35	268.20	259.32	8.89	30.182	
1,300.00	1,267.08	1,244.69	1,214.47	5.38	4.57	127.31	-107.86	-159.29	274.50	265.48	9.02	30.436	
1,400.00	1,356.49	1,343.97	1,307.82	6.11	5.18	128.73	-131.33	-183.57	321.43	311.35	10.08	31.896	
1,500.00	1,445.90	1,452.08	1,409.53	6.86	5.83	129.44	-160.55	-205.60	364.08	352.79	11.28	32.268	
1,600.00	1,535.31	1,547.31	1,499.02	7.63	6.41	129.70	-188.53	-222.25	403.60	391.16	12.45	32.426	
1,700.00	1,624.72	1,639.18	1,585.35	8.42	6.97	129.90	-215.58	-238.24	443.06	429.46	13.60	32.580	
1,800.00	1,714.13	1,731.06	1,671.69	9.21	7.53	130.07	-242.64	-254.23	482.53	467.77	14.76	32.689	
1,900.00	1,803.54	1,822.93	1,758.02	10.00	8.10	130.21	-269.69	-270.22	521.99	506.06	15.93	32.768	
2,000.00	1,892.95	1,914.81	1,844.35	10.81	8.66	130.34	-286.74	-286.20	561.46	544.36	17.10	32.825	
2,100.00	1,982.36	2,006.68	1,930.69	11.61	9.23	130.44	-323.79	-302.19	600.93	582.65	18.28	32.867	
2,200.00	2,071.77	2,098.56	2,017.02	12.42	9.80	130.54	-350.85	-318.18	640.41	620.94	19.47	32.897	
2,300.00	2,161.18	2,190.43	2,103.36	13.23	10.37	130.62	-377.90	-334.17	679.88	659.23	20.65	32.919	
2,400.00	2,250.59	2,282.31	2,189.69	14.05	10.94	130.69	-404.95	-350.15	719.36	697.51	21.84	32.934	
2,500.00	2,340.00	2,374.18	2,276.03	14.86	11.52	130.76	-432.00	-366.14	758.83	735.80	23.03	32.945	
2,600.00	2,429.41	2,466.06	2,362.36	15.68	12.09	130.82	-459.05	-382.13	798.31	774.08	24.23	32.953	
2,700.00	2,518.82	2,557.93	2,448.69	16.50	12.66	130.87	-486.11	-398.12	837.79	812.37	25.42	32.957	
2,800.00	2,608.23	2,649.81	2,535.03	17.32	13.24	130.92	-513.16	-414.11	877.26	850.65	26.62	32.960	
2,900.00	2,697.64	2,741.68	2,621.36	18.14	13.81	130.97	-540.21	-430.09	916.74	888.93	27.81	32.961	
3,000.00	2,787.05	2,833.56	2,707.70	18.96	14.39	131.01	-567.26	-446.08	956.22	927.21	29.01	32.961	
3,100.00	2,876.46	2,925.43	2,794.03	19.78	14.96	131.04	-594.32	-462.07	995.70	965.49	30.21	32.960	
3,200.00	2,965.87	3,017.31	2,880.37	20.60	15.54	131.08	-621.37	-478.06	1,035.18	1,003.77	31.41	32.958	
3,300.00	3,055.28	3,109.18	2,966.70	21.42	16.11	131.11	-648.42	-494.05	1,074.66	1,042.05	32.61	32.955	
3,400.00	3,144.69	3,201.06	3,053.03	22.25	16.69	131.14	-675.47	-510.03	1,114.14	1,080.33	33.81	32.952	
3,500.00	3,234.10	3,292.93	3,139.37	23.07	17.27	131.17	-702.53	-526.02	1,153.62	1,118.61	35.01	32.949	
3,600.00	3,323.51	3,384.81	3,225.70	23.90	17.84	131.20	-729.58	-542.01	1,193.10	1,156.89	36.21	32.946	
3,700.00	3,412.92	3,476.68	3,312.04	24.72	18.42	131.22	-756.63	-558.00	1,232.58	1,195.16	37.42	32.942	
3,800.00	3,502.33	3,568.56	3,398.37	25.55	19.00	131.24	-783.68	-573.98	1,272.06	1,233.44	38.62	32.938	
3,900.00	3,591.74	3,660.44	3,484.71	26.37	19.57	131.27	-810.74	-589.97	1,311.54	1,271.72	39.82	32.935	
4,000.00	3,681.15	3,752.31	3,571.04	27.20	20.15	131.29	-837.79	-605.96	1,351.02	1,310.00	41.03	32.931	
4,100.00	3,770.56	3,844.19	3,657.37	28.02	20.73	131.30	-864.84	-621.95	1,390.50	1,348.28	42.23	32.927	
4,200.00	3,859.97	3,936.06	3,743.71	28.85	21.31	131.32	-891.89	-637.94	1,429.99	1,386.55	43.43	32.923	
4,300.00	3,949.38	4,027.94	3,830.04	29.68	21.88	131.34	-918.94	-653.92	1,469.47	1,424.83	44.64	32.919	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12A-03 H04 596 - DD - Plan #3													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		
0.00	0.00	0.00	0.00	0.00	0.00	15.39	76.72	21.12	79.58					
100.00	100.00	100.00	100.00	0.12	0.12	15.39	76.72	21.12	79.58	79.34	0.24	335.734		
200.00	200.00	200.00	200.00	0.48	0.29	15.39	76.72	21.12	79.58	78.81	0.77	103.343		
300.00	300.00	300.00	300.00	0.84	0.47	15.39	76.72	21.12	79.58	78.27	1.30	61.071		
400.00	400.00	400.00	400.00	1.20	0.64	15.39	76.72	21.12	79.58	77.74	1.84	43.342 CC, ES		
500.00	499.95	499.95	499.95	1.54	0.81	-137.29	76.72	21.12	81.48	79.13	2.35	34.600		
600.00	599.63	601.24	601.20	1.89	1.00	-139.08	75.29	23.39	86.48	83.59	2.89	29.973		
700.00	698.77	702.64	702.26	2.24	1.20	-139.62	71.00	30.21	93.66	90.20	3.46	27.061		
800.00	797.08	804.02	802.74	2.63	1.46	-139.12	63.86	41.56	102.97	98.87	4.10	25.099		
900.00	894.31	905.30	902.26	3.06	1.79	-137.85	53.91	57.38	114.41	109.58	4.83	23.675		
1,000.00	990.18	1,005.79	999.95	3.54	2.19	-136.16	41.36	77.32	128.08	122.42	5.65	22.658		
1,100.00	1,084.43	1,104.33	1,095.40	4.08	2.61	-135.62	28.33	98.03	145.08	138.57	6.51	22.288 SF		
1,200.00	1,176.81	1,202.10	1,190.11	4.69	3.04	-136.34	15.41	118.57	165.79	158.39	7.40	22.397		
1,286.90	1,255.36	1,286.24	1,271.61	5.28	3.42	-137.59	4.28	136.25	186.89	178.70	8.19	22.810		
1,300.00	1,267.08	1,298.85	1,283.84	5.38	3.47	-137.87	2.61	138.90	190.30	181.98	8.32	22.885		
1,400.00	1,356.49	1,395.16	1,377.13	6.11	3.91	-139.75	-10.12	159.13	216.43	207.21	9.22	23.474		
1,500.00	1,445.90	1,491.47	1,470.43	6.86	4.36	-141.23	-22.85	179.37	242.73	232.60	10.13	23.966		
1,600.00	1,535.31	1,587.78	1,563.72	7.63	4.80	-142.41	-35.59	199.61	269.15	258.11	11.04	24.381		
1,700.00	1,624.72	1,684.10	1,657.02	8.42	5.25	-143.39	-48.32	219.84	295.67	283.71	11.95	24.735		
1,800.00	1,714.13	1,780.41	1,750.31	9.21	5.70	-144.20	-61.05	240.08	322.24	309.38	12.87	25.041		
1,900.00	1,803.54	1,876.72	1,843.61	10.00	6.15	-144.89	-73.79	260.31	348.87	335.09	13.79	25.307		
2,000.00	1,892.95	1,973.03	1,936.90	10.81	6.60	-145.49	-86.52	280.55	375.54	360.84	14.70	25.540		
2,100.00	1,982.36	2,069.34	2,030.20	11.61	7.05	-146.00	-99.25	300.78	402.25	386.62	15.62	25.746		
2,200.00	2,071.77	2,165.65	2,123.50	12.42	7.51	-146.45	-111.98	321.02	428.97	412.43	16.54	25.929		
2,300.00	2,161.18	2,261.96	2,216.79	13.23	7.96	-146.85	-124.72	341.26	455.72	438.26	17.47	26.094		
2,400.00	2,250.59	2,358.27	2,310.09	14.05	8.41	-147.20	-137.45	361.49	482.49	464.11	18.39	26.241		
2,500.00	2,340.00	2,454.58	2,403.38	14.86	8.87	-147.52	-150.18	381.73	509.28	489.97	19.31	26.375		
2,600.00	2,429.41	2,550.89	2,496.68	15.68	9.32	-147.80	-162.92	401.96	536.07	515.84	20.23	26.496		
2,700.00	2,518.82	2,647.20	2,589.97	16.50	9.78	-148.06	-175.65	422.20	562.88	541.73	21.16	26.606		
2,800.00	2,608.23	2,743.51	2,683.27	17.32	10.24	-148.29	-188.38	442.44	589.70	567.62	22.08	26.708		
2,900.00	2,697.64	2,839.82	2,776.56	18.14	10.69	-148.51	-201.12	462.67	616.52	593.52	23.00	26.801		
3,000.00	2,787.05	2,936.13	2,869.86	18.96	11.15	-148.70	-213.85	482.91	643.36	619.43	23.93	26.886		
3,100.00	2,876.46	3,032.44	2,963.16	19.78	11.60	-148.88	-226.58	503.14	670.20	645.34	24.85	26.966		
3,200.00	2,965.87	3,128.75	3,056.45	20.60	12.06	-149.05	-239.31	523.38	697.04	671.26	25.78	27.039		
3,300.00	3,055.28	3,225.06	3,149.75	21.42	12.52	-149.21	-252.05	543.61	723.89	697.19	26.70	27.108		
3,400.00	3,144.69	3,321.37	3,243.04	22.25	12.97	-149.35	-264.78	563.85	750.75	723.12	27.63	27.171		
3,500.00	3,234.10	3,417.68	3,336.34	23.07	13.43	-149.48	-277.51	584.09	777.61	749.05	28.56	27.231		
3,600.00	3,323.51	3,513.99	3,429.63	23.90	13.89	-149.61	-290.25	604.32	804.47	774.99	29.48	27.287		
3,700.00	3,412.92	3,610.30	3,522.93	24.72	14.34	-149.72	-302.98	624.56	831.33	800.93	30.41	27.339		
3,800.00	3,502.33	3,706.61	3,616.22	25.55	14.80	-149.83	-315.71	644.79	858.20	826.87	31.33	27.388		
3,900.00	3,591.74	3,802.92	3,709.52	26.37	15.26	-149.93	-328.45	665.03	885.07	852.81	32.26	27.435		
4,000.00	3,681.15	3,899.23	3,802.82	27.20	15.72	-150.03	-341.18	685.26	911.95	878.76	33.19	27.478		
4,100.00	3,770.56	3,995.54	3,896.11	28.02	16.17	-150.12	-353.91	705.50	938.82	904.71	34.11	27.520		
4,200.00	3,859.97	4,091.85	3,989.41	28.85	16.63	-150.21	-366.65	725.74	965.70	930.66	35.04	27.559		
4,300.00	3,949.38	4,188.16	4,082.70	29.68	17.09	-150.29	-379.38	745.97	992.58	956.61	35.97	27.596		
4,400.00	4,038.79	4,284.47	4,176.00	30.50	17.55	-150.36	-392.11	766.21	1,019.46	982.57	36.90	27.631		
4,500.00	4,128.20	4,380.78	4,269.29	31.33	18.00	-150.44	-404.84	786.44	1,046.35	1,008.52	37.82	27.664		
4,600.00	4,217.61	4,477.09	4,362.59	32.16	18.46	-150.51	-417.58	806.68	1,073.23	1,034.48	38.75	27.696		
4,700.00	4,307.02	4,573.40	4,455.88	32.98	18.92	-150.57	-430.31	826.91	1,100.12	1,060.44	39.68	27.726		
4,800.00	4,396.43	4,669.72	4,549.18	33.81	19.38	-150.63	-443.04	847.15	1,127.01	1,086.40	40.61	27.755		
4,900.00	4,485.83	4,766.03	4,642.48	34.64	19.83	-150.69	-455.78	867.39	1,153.90	1,112.36	41.53	27.783		
5,000.00	4,575.24	4,862.34	4,735.77	35.47	20.29	-150.75	-468.51	887.62	1,180.78	1,138.32	42.46	27.809		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12A-03 H04 596 - DD - Plan #3													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		
5,100.00	4,664.65	4,958.65	4,829.07	36.29	20.75	-150.81	-481.24	907.86	1,207.68	1,164.29	43.39	27.834		
5,200.00	4,754.06	5,054.96	4,922.36	37.12	21.21	-150.86	-493.98	928.09	1,234.57	1,190.25	44.32	27.858		
5,300.00	4,843.47	5,151.27	5,015.66	37.95	21.66	-150.91	-506.71	948.33	1,261.46	1,216.22	45.24	27.881		
5,400.00	4,932.88	5,247.58	5,108.95	38.78	22.12	-150.96	-519.44	968.56	1,288.35	1,242.18	46.17	27.904		
5,500.00	5,022.29	5,343.89	5,202.25	39.61	22.58	-151.00	-532.17	988.80	1,315.25	1,268.15	47.10	27.925		
5,600.00	5,111.70	5,440.20	5,295.55	40.43	23.04	-151.05	-544.91	1,009.04	1,342.14	1,294.12	48.03	27.945		
5,700.00	5,201.11	5,536.51	5,388.84	41.26	23.50	-151.09	-557.64	1,029.27	1,369.04	1,320.08	48.96	27.965		
5,800.00	5,290.52	5,632.82	5,482.14	42.09	23.95	-151.13	-570.37	1,049.51	1,395.94	1,346.05	49.88	27.984		
5,900.00	5,379.93	5,729.13	5,575.43	42.92	24.41	-151.17	-583.11	1,069.74	1,422.83	1,372.02	50.81	28.002		
6,000.00	5,469.34	5,825.44	5,668.73	43.75	24.87	-151.21	-595.84	1,089.98	1,449.73	1,397.99	51.74	28.020		
6,100.00	5,558.75	5,921.75	5,762.02	44.57	25.33	-151.24	-608.57	1,110.21	1,476.63	1,423.96	52.67	28.037		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12B-03 H04 596 - DD - Plan #2													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	5.90	60.53	6.26	60.86					
100.00	100.00	100.00	100.00	0.12	0.12	5.90	60.53	6.26	60.86	60.62	0.24	256.754		
200.00	200.00	200.00	200.00	0.48	0.29	5.90	60.53	6.26	60.86	60.09	0.77	79.032		
300.00	300.00	300.00	300.00	0.84	0.47	5.90	60.53	6.26	60.86	59.55	1.30	46.704		
400.00	400.00	400.00	400.00	1.20	0.64	5.90	60.53	6.26	60.86	59.02	1.84	33.146 CC, ES		
500.00	499.95	501.71	501.66	1.54	0.82	-144.80	58.87	8.39	61.61	59.23	2.38	25.881		
600.00	599.63	603.34	602.96	1.89	1.04	-142.66	53.88	14.78	63.91	60.95	2.96	21.598		
700.00	698.77	704.82	703.53	2.24	1.30	-139.44	45.60	25.40	67.92	64.32	3.59	18.898		
800.00	797.08	806.09	803.03	2.63	1.65	-135.54	34.08	40.17	73.81	69.50	4.31	17.130		
900.00	894.31	907.06	901.13	3.06	2.08	-131.37	19.37	59.02	81.75	76.62	5.13	15.934		
1,000.00	990.18	1,006.67	997.00	3.54	2.55	-128.31	2.74	80.33	92.28	86.27	6.02	15.337		
1,100.00	1,084.43	1,105.70	1,092.28	4.08	3.02	-128.00	-13.85	101.60	106.11	99.15	6.96	15.254 SF		
1,200.00	1,176.81	1,204.15	1,187.00	4.69	3.51	-129.54	-30.35	122.75	123.19	115.27	7.92	15.553		
1,286.90	1,255.36	1,289.01	1,268.65	5.28	3.93	-131.76	-44.57	140.97	140.89	132.13	8.76	16.084		
1,300.00	1,267.08	1,301.74	1,280.91	5.38	4.00	-132.19	-46.70	143.71	143.77	134.88	8.89	16.177		
1,400.00	1,356.49	1,398.96	1,374.45	6.11	4.49	-134.98	-62.99	164.59	166.01	156.18	9.84	16.880		
1,500.00	1,445.90	1,496.18	1,467.99	6.86	4.98	-137.10	-79.28	185.47	188.54	177.76	10.78	17.491		
1,600.00	1,535.31	1,593.40	1,561.54	7.63	5.47	-138.77	-95.58	206.35	211.26	199.54	11.72	18.023		
1,700.00	1,624.72	1,690.62	1,655.08	8.42	5.97	-140.12	-111.87	227.23	234.12	221.46	12.66	18.488		
1,800.00	1,714.13	1,787.84	1,748.62	9.21	6.46	-141.23	-128.16	248.11	257.08	243.47	13.60	18.897		
1,900.00	1,803.54	1,885.06	1,842.16	10.00	6.96	-142.16	-144.45	268.99	280.12	265.57	14.55	19.257		
2,000.00	1,892.95	1,982.27	1,935.70	10.81	7.46	-142.94	-160.74	289.87	303.21	287.72	15.49	19.577		
2,100.00	1,982.36	2,079.49	2,029.24	11.61	7.96	-143.62	-177.03	310.75	326.35	309.92	16.43	19.863		
2,200.00	2,071.77	2,176.71	2,122.79	12.42	8.46	-144.20	-193.32	331.63	349.53	332.16	17.37	20.120		
2,300.00	2,161.18	2,273.93	2,216.33	13.23	8.95	-144.71	-209.61	352.51	372.74	354.43	18.32	20.351		
2,400.00	2,250.59	2,371.15	2,309.87	14.05	9.45	-145.17	-225.90	373.39	395.98	376.72	19.26	20.560		
2,500.00	2,340.00	2,468.37	2,403.41	14.86	9.95	-145.57	-242.19	394.27	419.23	399.03	20.20	20.750		
2,600.00	2,429.41	2,565.59	2,496.95	15.68	10.45	-145.93	-258.48	415.15	442.50	421.36	21.15	20.924		
2,700.00	2,518.82	2,662.80	2,590.50	16.50	10.95	-146.25	-274.77	436.03	465.79	443.70	22.09	21.083		
2,800.00	2,608.23	2,760.02	2,684.04	17.32	11.45	-146.55	-291.06	456.91	489.09	466.05	23.04	21.229		
2,900.00	2,697.64	2,857.24	2,777.58	18.14	11.96	-146.81	-307.35	477.79	512.40	488.42	23.98	21.364		
3,000.00	2,787.05	2,954.46	2,871.12	18.96	12.46	-147.06	-323.64	498.67	535.72	510.79	24.93	21.488		
3,100.00	2,876.46	3,051.68	2,964.66	19.78	12.96	-147.28	-339.94	519.55	559.05	533.18	25.88	21.604		
3,200.00	2,965.87	3,148.90	3,058.21	20.60	13.46	-147.49	-356.23	540.43	582.39	555.57	26.82	21.711		
3,300.00	3,055.28	3,246.12	3,151.75	21.42	13.96	-147.67	-372.52	561.31	605.73	577.96	27.77	21.812		
3,400.00	3,144.69	3,343.33	3,245.29	22.25	14.46	-147.85	-388.81	582.19	629.08	600.36	28.72	21.905		
3,500.00	3,234.10	3,440.55	3,338.83	23.07	14.96	-148.01	-405.10	603.07	652.44	622.77	29.67	21.993		
3,600.00	3,323.51	3,537.77	3,432.37	23.90	15.46	-148.16	-421.39	623.95	675.80	645.18	30.61	22.075		
3,700.00	3,412.92	3,634.99	3,525.91	24.72	15.96	-148.31	-437.68	644.83	699.16	667.60	31.56	22.152		
3,800.00	3,502.33	3,732.21	3,619.46	25.55	16.47	-148.44	-453.97	665.71	722.53	690.02	32.51	22.225		
3,900.00	3,591.74	3,829.43	3,713.00	26.37	16.97	-148.56	-470.26	686.59	745.90	712.44	33.46	22.294		
4,000.00	3,681.15	3,926.65	3,806.54	27.20	17.47	-148.68	-486.55	707.47	769.27	734.86	34.41	22.359		
4,100.00	3,770.56	4,023.86	3,900.08	28.02	17.97	-148.79	-502.84	728.35	792.64	757.29	35.35	22.420		
4,200.00	3,859.97	4,121.08	3,993.62	28.85	18.47	-148.89	-519.13	749.23	816.02	779.72	36.30	22.478		
4,300.00	3,949.38	4,218.30	4,087.17	29.68	18.97	-148.99	-535.42	770.11	839.40	802.15	37.25	22.533		
4,400.00	4,038.79	4,315.52	4,180.71	30.50	19.47	-149.08	-551.71	790.99	862.79	824.59	38.20	22.586		
4,500.00	4,128.20	4,412.74	4,274.25	31.33	19.98	-149.17	-568.00	811.87	886.17	847.02	39.15	22.636		
4,600.00	4,217.61	4,509.96	4,367.79	32.16	20.48	-149.25	-584.30	832.75	909.56	869.46	40.10	22.683		
4,700.00	4,307.02	4,607.18	4,461.33	32.98	20.98	-149.33	-600.59	853.63	932.95	891.90	41.05	22.728		
4,800.00	4,396.43	4,704.39	4,554.88	33.81	21.48	-149.40	-616.88	874.51	956.34	914.34	42.00	22.772		
4,900.00	4,485.83	4,801.61	4,648.42	34.64	21.98	-149.48	-633.17	895.39	979.73	936.78	42.95	22.813		
5,000.00	4,575.24	4,898.83	4,741.96	35.47	22.49	-149.54	-649.46	916.27	1,003.12	959.23	43.90	22.852		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12B-03 H04 596 - DD - Plan #2													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		
5,100.00	4,664.65	4,996.05	4,835.50	36.29	22.99	-149.61	-665.75	937.15	1,026.52	981.67	44.85	22.890		
5,200.00	4,754.06	5,093.27	4,929.04	37.12	23.49	-149.67	-682.04	958.03	1,049.91	1,004.12	45.80	22.926		
5,300.00	4,843.47	5,190.49	5,022.58	37.95	23.99	-149.73	-698.33	978.91	1,073.31	1,026.57	46.74	22.961		
5,400.00	4,932.88	5,287.71	5,116.13	38.78	24.49	-149.79	-714.62	999.79	1,096.71	1,049.01	47.69	22.994		
5,500.00	5,022.29	5,384.92	5,209.67	39.61	24.99	-149.84	-730.91	1,020.67	1,120.11	1,071.46	48.64	23.027		
5,600.00	5,111.70	5,482.14	5,303.21	40.43	25.50	-149.89	-747.20	1,041.55	1,143.51	1,093.91	49.59	23.057		
5,700.00	5,201.11	5,579.36	5,396.75	41.26	26.00	-149.94	-763.49	1,062.43	1,166.91	1,116.36	50.54	23.087		
5,800.00	5,290.52	5,676.58	5,490.29	42.09	26.50	-149.99	-779.78	1,083.31	1,190.31	1,138.82	51.49	23.115		
5,900.00	5,379.93	5,773.80	5,583.84	42.92	27.00	-150.04	-796.07	1,104.19	1,213.71	1,161.27	52.44	23.143		
6,000.00	5,469.34	5,871.02	5,677.38	43.75	27.50	-150.08	-812.36	1,125.07	1,237.11	1,183.72	53.39	23.169		
6,100.00	5,558.75	5,968.24	5,770.92	44.57	28.01	-150.13	-828.66	1,145.95	1,260.52	1,206.17	54.34	23.195		
6,200.00	5,648.16	6,065.45	5,864.46	45.40	28.51	-150.17	-844.95	1,166.84	1,283.92	1,228.63	55.29	23.220		
6,300.00	5,737.57	6,162.67	5,958.00	46.23	29.01	-150.21	-861.24	1,187.72	1,307.33	1,251.08	56.24	23.244		
6,400.00	5,826.98	6,259.89	6,051.55	47.06	29.51	-150.25	-877.53	1,208.60	1,330.73	1,273.54	57.19	23.267		
6,500.00	5,916.39	6,357.11	6,145.09	47.89	30.01	-150.28	-893.82	1,229.48	1,354.14	1,295.99	58.15	23.289		
6,600.00	6,005.80	6,454.33	6,238.63	48.72	30.52	-150.32	-910.11	1,250.36	1,377.54	1,318.45	59.10	23.310		
6,700.00	6,095.21	6,551.55	6,332.17	49.55	31.02	-150.35	-926.40	1,271.24	1,400.95	1,340.91	60.05	23.331		
6,800.00	6,184.62	6,648.77	6,425.71	50.37	31.52	-150.39	-942.69	1,292.12	1,424.36	1,363.36	61.00	23.351		
6,900.00	6,274.03	6,745.98	6,519.25	51.20	32.02	-150.42	-958.98	1,313.00	1,447.77	1,385.82	61.95	23.371		
7,000.00	6,363.44	6,843.20	6,612.80	52.03	32.52	-150.45	-975.27	1,333.88	1,471.18	1,408.28	62.90	23.390		
7,063.95	6,420.62	6,905.37	6,672.62	52.56	32.85	-150.47	-985.69	1,347.23	1,486.15	1,422.64	63.51	23.402		
7,100.00	6,453.00	6,940.49	6,706.40	52.86	33.03	-150.60	-991.57	1,354.77	1,494.30	1,430.45	63.85	23.403		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12C-03 H04 596 - DD - Plan #2												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	15.97	38.27	10.95	39.81				
100.00	100.00	100.00	100.00	0.12	0.12	15.97	38.27	10.95	39.81	39.57	0.24	167.958	
200.00	200.00	200.00	200.00	0.48	0.29	15.97	38.27	10.95	39.81	39.04	0.77	51.700	
300.00	300.00	300.00	300.00	0.84	0.47	15.97	38.27	10.95	39.81	38.51	1.30	30.552	
400.00	400.00	400.00	400.00	1.20	0.64	15.97	38.27	10.95	39.81	37.97	1.84	21.683 CC, ES	
500.00	499.95	500.97	500.92	1.54	0.82	-134.74	36.43	12.88	40.45	38.08	2.37	17.037	
600.00	599.63	601.90	601.52	1.89	1.03	-132.67	30.92	18.67	42.42	39.47	2.94	14.407	
700.00	698.77	702.74	701.47	2.24	1.30	-129.61	21.76	28.28	45.79	42.21	3.57	12.813	
800.00	797.08	803.45	800.46	2.63	1.64	-126.03	8.98	41.69	50.67	46.38	4.29	11.813	
900.00	894.31	904.00	898.18	3.06	2.06	-122.33	-7.34	58.82	57.14	52.02	5.12	11.159	
1,000.00	990.18	1,004.14	994.19	3.54	2.56	-119.03	-26.94	79.38	65.29	59.23	6.07	10.762	
1,100.00	1,084.43	1,103.57	1,089.17	4.08	3.08	-118.97	-47.23	100.68	75.80	68.73	7.07	10.720 SF	
1,200.00	1,176.81	1,202.59	1,183.76	4.69	3.60	-121.76	-67.45	121.89	88.95	80.85	8.10	10.982	
1,286.90	1,255.36	1,288.09	1,265.43	5.28	4.06	-125.43	-84.90	140.20	102.95	93.96	8.98	11.461	
1,300.00	1,267.08	1,300.93	1,277.69	5.38	4.13	-126.08	-87.52	142.95	105.27	96.15	9.11	11.550	
1,400.00	1,356.49	1,398.96	1,371.33	6.11	4.66	-130.20	-107.53	163.95	123.33	113.24	10.09	12.220	
1,500.00	1,445.90	1,496.98	1,464.96	6.86	5.20	-133.26	-127.53	184.94	141.85	130.80	11.05	12.832	
1,600.00	1,535.31	1,595.00	1,558.59	7.63	5.73	-135.62	-147.54	205.94	160.68	148.67	12.01	13.382	
1,700.00	1,624.72	1,693.02	1,652.23	8.42	6.27	-137.48	-167.55	226.93	179.72	166.76	12.95	13.873	
1,800.00	1,714.13	1,791.04	1,745.86	9.21	6.81	-138.98	-187.56	247.93	198.90	185.00	13.90	14.310	
1,900.00	1,803.54	1,889.07	1,839.49	10.00	7.35	-140.22	-207.57	268.92	218.19	203.35	14.84	14.700	
2,000.00	1,892.95	1,987.09	1,933.13	10.81	7.89	-141.25	-227.57	289.92	237.56	221.78	15.79	15.050	
2,100.00	1,982.36	2,085.11	2,026.76	11.61	8.43	-142.13	-247.58	310.91	257.00	240.27	16.73	15.364	
2,200.00	2,071.77	2,183.13	2,120.39	12.42	8.97	-142.89	-267.59	331.91	276.49	258.82	17.67	15.647	
2,300.00	2,161.18	2,281.15	2,214.03	13.23	9.51	-143.55	-287.60	352.90	296.01	277.40	18.61	15.904	
2,400.00	2,250.59	2,379.18	2,307.66	14.05	10.05	-144.12	-307.61	373.90	315.57	296.02	19.56	16.137	
2,500.00	2,340.00	2,477.20	2,401.29	14.86	10.60	-144.63	-327.61	394.89	335.16	314.66	20.50	16.350	
2,600.00	2,429.41	2,575.22	2,494.93	15.68	11.14	-145.08	-347.62	415.89	354.77	333.33	21.44	16.544	
2,700.00	2,518.82	2,673.24	2,588.56	16.50	11.68	-145.49	-367.63	436.88	374.40	352.01	22.39	16.723	
2,800.00	2,608.23	2,771.26	2,682.19	17.32	12.23	-145.85	-387.64	457.88	394.04	370.71	23.33	16.888	
2,900.00	2,697.64	2,869.29	2,775.83	18.14	12.77	-146.18	-407.64	478.87	413.70	389.43	24.28	17.040	
3,000.00	2,787.05	2,967.31	2,869.46	18.96	13.31	-146.48	-427.65	499.87	433.37	408.15	25.22	17.181	
3,100.00	2,876.46	3,065.33	2,963.09	19.78	13.86	-146.76	-447.66	520.86	453.06	426.89	26.17	17.312	
3,200.00	2,965.87	3,163.35	3,056.73	20.60	14.40	-147.01	-467.67	541.86	472.75	445.63	27.12	17.434	
3,300.00	3,055.28	3,261.37	3,150.36	21.42	14.94	-147.24	-487.68	562.85	492.45	464.38	28.06	17.547	
3,400.00	3,144.69	3,359.40	3,243.99	22.25	15.49	-147.45	-507.68	583.85	512.15	483.14	29.01	17.654	
3,500.00	3,234.10	3,457.42	3,337.63	23.07	16.03	-147.65	-527.69	604.84	531.86	501.90	29.96	17.753	
3,600.00	3,323.51	3,555.44	3,431.26	23.90	16.58	-147.83	-547.70	625.84	551.58	520.67	30.91	17.847	
3,700.00	3,412.92	3,653.46	3,524.89	24.72	17.12	-148.00	-567.71	646.83	571.30	539.45	31.85	17.935	
3,800.00	3,502.33	3,751.48	3,618.53	25.55	17.67	-148.16	-587.72	667.83	591.03	558.23	32.80	18.018	
3,900.00	3,591.74	3,849.51	3,712.16	26.37	18.21	-148.31	-607.72	688.82	610.76	577.01	33.75	18.096	
4,000.00	3,681.15	3,947.53	3,805.79	27.20	18.75	-148.45	-627.73	709.82	630.50	595.80	34.70	18.170	
4,100.00	3,770.56	4,045.55	3,899.43	28.02	19.30	-148.58	-647.74	730.82	650.24	614.59	35.65	18.240	
4,200.00	3,859.97	4,143.57	3,993.06	28.85	19.84	-148.71	-667.75	751.81	669.98	633.38	36.60	18.307	
4,300.00	3,949.38	4,241.59	4,086.69	29.68	20.39	-148.82	-687.76	772.81	689.72	652.17	37.55	18.370	
4,400.00	4,038.79	4,339.62	4,180.33	30.50	20.93	-148.93	-707.76	793.80	709.47	670.97	38.50	18.429	
4,500.00	4,128.20	4,437.64	4,273.96	31.33	21.48	-149.04	-727.77	814.80	729.22	689.77	39.45	18.487	
4,600.00	4,217.61	4,535.66	4,367.59	32.16	22.02	-149.14	-747.78	835.79	748.97	708.57	40.40	18.541	
4,700.00	4,307.02	4,633.68	4,461.23	32.98	22.57	-149.23	-767.79	856.79	768.72	727.38	41.35	18.593	
4,800.00	4,396.43	4,731.71	4,554.86	33.81	23.11	-149.32	-787.79	877.78	788.48	746.18	42.30	18.642	
4,900.00	4,485.83	4,829.73	4,648.49	34.64	23.65	-149.40	-807.80	898.78	808.24	764.99	43.25	18.689	
5,000.00	4,575.24	4,927.75	4,742.13	35.47	24.20	-149.48	-827.81	919.77	827.99	783.80	44.20	18.735	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12C-03 H04 596 - DD - Plan #2												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
5,100.00	4,664.65	5,025.77	4,835.76	36.29	24.74	-149.56	-847.82	940.77	847.76	802.61	45.15	18.778	
5,200.00	4,754.06	5,123.79	4,929.40	37.12	25.29	-149.63	-867.83	961.76	867.52	821.42	46.10	18.820	
5,300.00	4,843.47	5,221.82	5,023.03	37.95	25.83	-149.70	-887.83	982.76	887.28	840.23	47.05	18.859	
5,400.00	4,932.88	5,319.84	5,116.66	38.78	26.38	-149.77	-907.84	1,003.75	907.04	859.05	48.00	18.898	
5,500.00	5,022.29	5,417.86	5,210.30	39.61	26.92	-149.83	-927.85	1,024.75	926.81	877.86	48.95	18.934	
5,600.00	5,111.70	5,515.88	5,303.93	40.43	27.47	-149.89	-947.86	1,045.74	946.58	896.68	49.90	18.970	
5,700.00	5,201.11	5,613.90	5,397.56	41.26	28.01	-149.95	-967.87	1,066.74	966.34	915.49	50.85	19.004	
5,800.00	5,290.52	5,711.93	5,491.20	42.09	28.56	-150.01	-987.87	1,087.73	986.11	934.31	51.80	19.037	
5,900.00	5,379.93	5,809.95	5,584.83	42.92	29.10	-150.06	-1,007.88	1,108.73	1,005.88	953.13	52.75	19.068	
6,000.00	5,469.34	5,907.97	5,678.46	43.75	29.65	-150.12	-1,027.89	1,129.72	1,025.65	971.95	53.70	19.099	
6,100.00	5,558.75	6,005.99	5,772.10	44.57	30.19	-150.17	-1,047.90	1,150.72	1,045.42	990.77	54.65	19.128	
6,200.00	5,648.16	6,104.01	5,865.73	45.40	30.74	-150.22	-1,067.91	1,171.71	1,065.19	1,009.59	55.61	19.156	
6,300.00	5,737.57	6,202.04	5,959.36	46.23	31.28	-150.26	-1,087.91	1,192.71	1,084.97	1,028.41	56.56	19.184	
6,400.00	5,826.98	6,300.06	6,053.00	47.06	31.83	-150.31	-1,107.92	1,213.70	1,104.74	1,047.23	57.51	19.210	
6,500.00	5,916.39	6,398.08	6,146.63	47.89	32.37	-150.35	-1,127.93	1,234.70	1,124.51	1,066.05	58.46	19.236	
6,600.00	6,005.80	6,496.10	6,240.26	48.72	32.92	-150.39	-1,147.94	1,255.69	1,144.29	1,084.88	59.41	19.260	
6,700.00	6,095.21	6,594.12	6,333.90	49.55	33.46	-150.43	-1,167.94	1,276.69	1,164.06	1,103.70	60.36	19.284	
6,800.00	6,184.62	6,692.15	6,427.53	50.37	34.01	-150.47	-1,187.95	1,297.68	1,183.84	1,122.52	61.31	19.308	
6,900.00	6,274.03	6,790.17	6,521.16	51.20	34.55	-150.51	-1,207.96	1,318.68	1,203.61	1,141.35	62.27	19.330	
7,000.00	6,363.44	6,888.19	6,614.80	52.03	35.10	-150.55	-1,227.97	1,339.67	1,223.39	1,160.17	63.22	19.352	
7,063.95	6,420.62	6,950.87	6,674.67	52.56	35.45	-150.57	-1,240.76	1,353.10	1,236.04	1,172.21	63.83	19.366	
7,100.00	6,453.00	6,986.27	6,708.48	52.86	35.64	-150.68	-1,247.99	1,360.68	1,242.87	1,178.70	64.17	19.368	
7,200.00	6,544.33	7,067.27	6,785.98	53.61	36.07	-150.88	-1,264.26	1,377.76	1,259.18	1,194.21	64.97	19.382	
7,300.00	6,637.66	7,135.09	6,851.46	54.29	36.37	-151.05	-1,276.40	1,390.49	1,273.18	1,207.62	65.56	19.420	
7,400.00	6,732.74	7,199.99	6,914.69	54.88	36.64	-151.18	-1,286.50	1,401.09	1,285.08	1,219.03	66.05	19.456	
7,500.00	6,829.31	7,270.69	6,984.09	55.39	36.86	-151.28	-1,295.81	1,410.87	1,294.86	1,228.36	66.50	19.471	
7,600.00	6,927.11	7,338.49	7,051.06	55.83	37.04	-151.36	-1,303.07	1,418.48	1,302.52	1,235.66	66.85	19.483	
7,700.00	7,025.86	7,399.99	7,112.10	56.19	37.19	-151.40	-1,308.24	1,423.90	1,308.06	1,240.99	67.07	19.502	
7,800.00	7,125.29	7,474.13	7,185.96	56.49	37.30	-151.42	-1,312.65	1,428.54	1,311.42	1,244.10	67.32	19.481	
7,900.00	7,225.14	7,541.96	7,253.71	56.72	37.36	-151.40	-1,314.96	1,430.96	1,312.66	1,245.22	67.43	19.466	
7,950.85	7,275.99	7,576.47	7,288.20	56.81	37.38	0.06	-1,315.50	1,431.52	1,312.46	1,245.00	67.46	19.455	
7,979.74	7,304.88	7,602.25	7,313.99	56.85	37.40	123.76	-1,315.62	1,431.65	1,312.35	1,244.83	67.52	19.436	
7,985.17	7,310.31	7,602.25	7,313.99	56.86	37.40	123.76	-1,315.62	1,431.65	1,312.34	1,244.85	67.49	19.444	
8,000.00	7,325.14	7,613.43	7,325.17	56.88	37.40	123.76	-1,315.62	1,431.65	1,312.38	1,244.88	67.50	19.441	
8,100.00	7,425.13	7,713.71	7,425.44	57.03	37.47	123.78	-1,315.63	1,431.63	1,312.65	1,244.84	67.81	19.358	
8,200.00	7,525.13	7,813.98	7,525.71	57.19	37.53	123.79	-1,315.66	1,431.58	1,312.89	1,244.78	68.11	19.275	
8,300.00	7,625.13	7,914.25	7,625.99	57.35	37.59	123.81	-1,315.72	1,431.50	1,313.12	1,244.70	68.42	19.192	
8,400.00	7,725.13	8,014.53	7,726.26	57.51	37.66	123.82	-1,315.79	1,431.38	1,313.33	1,244.60	68.73	19.109	
8,500.00	7,825.13	8,114.80	7,826.53	57.67	37.72	123.83	-1,315.89	1,431.24	1,313.51	1,244.47	69.04	19.026	
8,600.00	7,925.13	8,215.08	7,926.81	57.83	37.78	123.84	-1,316.01	1,431.06	1,313.67	1,244.33	69.35	18.943	
8,700.00	8,025.13	8,315.35	8,027.08	57.99	37.85	123.85	-1,316.15	1,430.86	1,313.82	1,244.16	69.66	18.861	
8,800.00	8,125.13	8,415.63	8,127.36	58.16	37.92	123.86	-1,316.31	1,430.62	1,313.94	1,243.97	69.97	18.778	
8,900.00	8,225.12	8,515.90	8,227.63	58.33	37.98	123.87	-1,316.49	1,430.35	1,314.04	1,243.75	70.29	18.696	
9,000.00	8,325.12	8,616.18	8,327.91	58.50	38.05	123.87	-1,316.69	1,430.05	1,314.12	1,243.52	70.60	18.613	
9,100.00	8,425.12	8,716.45	8,428.18	58.67	38.12	123.88	-1,316.91	1,429.71	1,314.18	1,243.26	70.92	18.531	
9,200.00	8,525.12	8,816.73	8,528.46	58.84	38.19	123.88	-1,317.15	1,429.35	1,314.21	1,242.98	71.23	18.449	
9,300.00	8,625.12	8,917.00	8,628.73	59.02	38.26	123.88	-1,317.42	1,428.96	1,314.23	1,242.68	71.55	18.367	
9,400.00	8,725.12	9,017.28	8,729.00	59.19	38.33	123.88	-1,317.70	1,428.53	1,314.23	1,242.35	71.87	18.285	
9,500.00	8,825.12	9,117.55	8,829.28	59.37	38.40	123.88	-1,318.01	1,428.07	1,314.20	1,242.01	72.19	18.204	
9,600.00	8,925.12	9,217.83	8,929.55	59.55	38.47	123.87	-1,318.33	1,427.58	1,314.15	1,241.64	72.52	18.122	
9,700.00	9,025.11	9,318.11	9,029.83	59.73	38.54	123.87	-1,318.68	1,427.06	1,314.09	1,241.25	72.84	18.041	
9,800.00	9,125.11	9,418.20	9,129.92	59.91	38.61	123.86	-1,319.04	1,426.52	1,314.00	1,240.84	73.16	17.960	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12C-03 H04 596 - DD - Plan #2													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	9,225.11	9,518.20	9,229.91	60.10	38.68	123.86	-1,319.41	1,425.97	1,313.92	1,240.43	73.49	17.880		
10,000.00	9,325.11	9,618.20	9,329.91	60.28	38.75	123.85	-1,319.77	1,425.43	1,313.84	1,240.02	73.81	17.799		
10,100.00	9,425.11	9,718.20	9,429.91	60.47	38.83	123.85	-1,320.13	1,424.88	1,313.75	1,239.61	74.14	17.719		
10,200.00	9,525.11	9,818.20	9,529.91	60.66	38.90	123.84	-1,320.50	1,424.34	1,313.67	1,239.19	74.47	17.639		
10,300.00	9,625.11	9,918.20	9,629.91	60.85	38.98	123.84	-1,320.86	1,423.79	1,313.58	1,238.77	74.81	17.559		
10,400.00	9,725.11	10,018.20	9,729.90	61.04	39.05	123.83	-1,321.23	1,423.24	1,313.50	1,238.35	75.14	17.480		
10,500.00	9,825.10	10,118.20	9,829.90	61.24	39.13	123.83	-1,321.59	1,422.70	1,313.41	1,237.93	75.48	17.400		
10,600.00	9,925.10	10,218.20	9,929.90	61.43	39.20	123.82	-1,321.95	1,422.15	1,313.33	1,237.50	75.82	17.321		
10,700.00	10,025.10	10,318.20	10,029.90	61.63	39.28	123.82	-1,322.32	1,421.61	1,313.24	1,237.08	76.17	17.242		
10,800.00	10,125.10	10,418.20	10,129.89	61.82	39.36	123.81	-1,322.68	1,421.06	1,313.16	1,236.65	76.51	17.163		
10,900.00	10,225.10	10,518.20	10,229.89	62.02	39.44	123.80	-1,323.05	1,420.52	1,313.07	1,236.22	76.86	17.084		
11,000.00	10,325.10	10,618.20	10,329.89	62.23	39.52	123.80	-1,323.41	1,419.97	1,312.99	1,235.78	77.21	17.006		
11,100.00	10,425.10	10,718.20	10,429.89	62.43	39.60	123.79	-1,323.77	1,419.43	1,312.91	1,235.35	77.56	16.928		
11,200.00	10,525.10	10,818.20	10,529.89	62.63	39.68	123.79	-1,324.14	1,418.88	1,312.82	1,234.91	77.91	16.850		
11,300.00	10,625.09	10,918.20	10,629.88	62.84	39.76	123.78	-1,324.50	1,418.34	1,312.74	1,234.47	78.27	16.772		
11,400.00	10,725.09	11,018.20	10,729.88	63.04	39.84	123.78	-1,324.87	1,417.79	1,312.65	1,234.03	78.63	16.695		
11,500.00	10,825.09	11,118.20	10,829.88	63.25	39.92	123.77	-1,325.23	1,417.25	1,312.57	1,233.58	78.98	16.618		
11,540.89	10,865.98	11,159.08	10,870.76	63.34	39.96	123.77	-1,325.38	1,417.02	1,312.53	1,233.40	79.13	16.587		
11,600.00	10,925.09	11,218.20	10,929.88	63.46	40.00	123.77	-1,325.59	1,416.70	1,312.48	1,233.14	79.35	16.541		
11,700.00	11,025.09	11,318.20	11,029.87	63.67	40.09	123.76	-1,325.96	1,416.16	1,312.40	1,232.69	79.71	16.465		
11,800.00	11,125.09	11,418.20	11,129.87	63.88	40.17	123.76	-1,326.32	1,415.61	1,312.32	1,232.24	80.07	16.389		
11,900.00	11,225.09	11,518.20	11,229.87	64.09	40.26	123.75	-1,326.68	1,415.06	1,312.23	1,231.79	80.44	16.313		
12,000.00	11,325.09	11,618.20	11,329.87	64.31	40.34	123.74	-1,327.05	1,414.52	1,312.15	1,231.34	80.81	16.238		
12,100.00	11,425.08	11,718.20	11,429.86	64.52	40.43	123.74	-1,327.41	1,413.97	1,312.06	1,230.88	81.18	16.162		
12,200.00	11,525.08	11,818.20	11,529.86	64.74	40.51	123.73	-1,327.78	1,413.43	1,311.98	1,230.43	81.55	16.088		
12,300.00	11,625.08	11,918.20	11,629.86	64.96	40.60	123.73	-1,328.14	1,412.88	1,311.89	1,229.97	81.93	16.013		
12,400.00	11,725.08	12,018.20	11,729.86	65.18	40.69	123.72	-1,328.50	1,412.34	1,311.81	1,229.51	82.30	15.939		
12,500.00	11,825.08	12,118.20	11,829.86	65.40	40.78	123.72	-1,328.87	1,411.79	1,311.73	1,229.05	82.68	15.865		
12,600.00	11,925.08	12,218.20	11,929.85	65.62	40.86	123.71	-1,329.23	1,411.25	1,311.64	1,228.58	83.06	15.792		
12,700.00	12,025.08	12,318.20	12,029.85	65.84	40.95	123.71	-1,329.60	1,410.70	1,311.56	1,228.12	83.44	15.719		
12,800.00	12,125.07	12,418.19	12,129.85	66.07	41.04	123.70	-1,329.96	1,410.16	1,311.47	1,227.65	83.82	15.646		
12,900.00	12,225.07	12,518.19	12,229.85	66.29	41.13	123.69	-1,330.32	1,409.61	1,311.39	1,227.18	84.20	15.574		
13,005.64	12,330.71	12,623.83	12,335.48	66.53	41.23	123.69	-1,330.71	1,409.04	1,311.30	1,226.69	84.61	15.498		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12E-03 H04 596 - DD - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	15.01	29.17	7.82	30.20					
100.00	100.00	100.00	100.00	0.12	0.12	15.01	29.17	7.82	30.20	29.96	0.24	127.407		
200.00	200.00	200.00	200.00	0.48	0.29	15.01	29.17	7.82	30.20	29.43	0.77	39.218		
300.00	300.00	300.00	300.00	0.84	0.47	15.01	29.17	7.82	30.20	28.90	1.30	23.176		
400.00	400.00	400.00	400.00	1.20	0.64	15.01	29.17	7.82	30.20	28.36	1.84	16.448 CC, ES		
500.00	499.95	499.95	499.95	1.54	0.81	-139.61	29.17	7.82	32.15	29.79	2.36	13.650		
600.00	599.63	600.38	600.38	1.89	0.99	-146.49	28.64	8.23	37.97	35.09	2.88	13.179		
700.00	698.77	701.77	701.61	2.24	1.18	-151.12	24.38	11.48	45.12	41.65	3.47	12.997		
800.00	797.08	803.55	802.81	2.63	1.40	-153.64	15.80	18.01	52.81	48.69	4.12	12.818		
900.00	894.31	905.73	903.68	3.06	1.69	-154.78	2.90	27.86	60.88	56.06	4.82	12.639		
1,000.00	990.18	1,008.29	1,003.91	3.54	2.06	-154.99	-14.34	41.01	69.23	63.67	5.56	12.453		
1,100.00	1,084.43	1,111.22	1,103.18	4.08	2.53	-154.57	-35.93	57.47	77.85	71.49	6.36	12.243		
1,200.00	1,176.81	1,214.51	1,201.18	4.69	3.10	-153.69	-61.83	77.22	86.71	79.49	7.23	12.000		
1,286.90	1,255.36	1,302.70	1,283.55	5.28	3.63	-152.86	-86.88	96.33	95.04	87.07	7.97	11.919		
1,300.00	1,267.08	1,315.72	1,295.68	5.38	3.72	-152.82	-90.64	99.20	96.50	88.42	8.08	11.939		
1,400.00	1,356.49	1,415.10	1,388.29	6.11	4.34	-152.55	-119.31	121.07	107.63	98.72	8.91	12.080		
1,500.00	1,445.90	1,514.47	1,480.89	6.86	4.98	-152.33	-147.98	142.93	118.77	109.00	9.77	12.157		
1,600.00	1,535.31	1,613.85	1,573.49	7.63	5.62	-152.15	-176.66	164.80	129.91	119.25	10.65	12.193		
1,700.00	1,624.72	1,713.23	1,666.10	8.42	6.27	-152.00	-205.33	186.67	141.05	129.49	11.56	12.203		
1,800.00	1,714.13	1,812.60	1,758.70	9.21	6.92	-151.87	-234.00	208.54	152.19	139.71	12.48	12.196		
1,900.00	1,803.54	1,911.98	1,851.31	10.00	7.57	-151.76	-262.67	230.40	163.33	149.92	13.41	12.179		
2,000.00	1,892.95	2,011.36	1,943.91	10.81	8.23	-151.66	-291.34	252.27	174.47	160.11	14.35	12.156		
2,100.00	1,982.36	2,110.74	2,036.52	11.61	8.89	-151.57	-320.01	274.14	185.61	170.31	15.30	12.129		
2,200.00	2,071.77	2,210.11	2,129.12	12.42	9.55	-151.49	-348.68	296.01	196.75	180.49	16.26	12.100		
2,300.00	2,161.18	2,309.49	2,221.72	13.23	10.21	-151.42	-377.35	317.87	207.89	190.67	17.22	12.071		
2,400.00	2,250.59	2,408.87	2,314.33	14.05	10.87	-151.36	-406.03	339.74	219.03	200.84	18.19	12.041		
2,500.00	2,340.00	2,508.24	2,406.93	14.86	11.53	-151.31	-434.70	361.61	230.18	211.01	19.16	12.012		
2,600.00	2,429.41	2,607.62	2,499.54	15.68	12.20	-151.26	-463.37	383.48	241.32	221.18	20.14	11.983		
2,700.00	2,518.82	2,707.00	2,592.14	16.50	12.86	-151.21	-492.04	405.34	252.46	231.34	21.12	11.955		
2,800.00	2,608.23	2,806.38	2,684.75	17.32	13.52	-151.17	-520.71	427.21	263.60	241.51	22.10	11.928		
2,900.00	2,697.64	2,905.75	2,777.35	18.14	14.19	-151.13	-549.38	449.08	274.75	251.66	23.08	11.903		
3,000.00	2,787.05	3,005.13	2,869.96	18.96	14.85	-151.09	-578.05	470.95	285.89	261.82	24.07	11.878		
3,100.00	2,876.46	3,104.51	2,962.56	19.78	15.52	-151.06	-606.73	492.81	297.03	271.98	25.06	11.855		
3,200.00	2,965.87	3,203.88	3,055.16	20.60	16.18	-151.03	-635.40	514.68	308.18	282.13	26.05	11.832		
3,300.00	3,055.28	3,303.26	3,147.77	21.42	16.84	-151.00	-664.07	536.55	319.32	292.28	27.04	11.811		
3,400.00	3,144.69	3,402.64	3,240.37	22.25	17.51	-150.98	-692.74	558.41	330.46	302.44	28.03	11.790		
3,500.00	3,234.10	3,502.01	3,332.98	23.07	18.18	-150.95	-721.41	580.28	341.61	312.59	29.02	11.771		
3,600.00	3,323.51	3,601.39	3,425.58	23.90	18.84	-150.93	-750.08	602.15	352.75	322.73	30.02	11.752		
3,700.00	3,412.92	3,700.77	3,518.19	24.72	19.51	-150.91	-778.75	624.02	363.89	332.88	31.01	11.734		
3,800.00	3,502.33	3,800.15	3,610.79	25.55	20.17	-150.89	-807.43	645.88	375.04	343.03	32.01	11.717		
3,900.00	3,591.74	3,899.52	3,703.39	26.37	20.84	-150.87	-836.10	667.75	386.18	353.18	33.00	11.701		
4,000.00	3,681.15	3,998.90	3,796.00	27.20	21.50	-150.85	-864.77	689.62	397.33	363.32	34.00	11.685		
4,100.00	3,770.56	4,098.28	3,888.60	28.02	22.17	-150.83	-893.44	711.49	408.47	373.47	35.00	11.670		
4,200.00	3,859.97	4,197.65	3,981.21	28.85	22.84	-150.81	-922.11	733.35	419.61	383.61	36.00	11.656		
4,300.00	3,949.38	4,297.03	4,073.81	29.68	23.50	-150.80	-950.78	755.22	430.76	393.76	37.00	11.642		
4,400.00	4,038.79	4,396.41	4,166.42	30.50	24.17	-150.78	-979.45	777.09	441.90	403.90	38.00	11.629		
4,500.00	4,128.20	4,495.79	4,259.02	31.33	24.83	-150.77	-1,008.13	798.96	453.05	414.05	39.00	11.616		
4,600.00	4,217.61	4,595.16	4,351.62	32.16	25.50	-150.76	-1,036.80	820.82	464.19	424.19	40.00	11.604		
4,700.00	4,307.02	4,694.54	4,444.23	32.98	26.17	-150.74	-1,065.47	842.69	475.33	434.33	41.00	11.593		
4,800.00	4,396.43	4,793.92	4,536.83	33.81	26.83	-150.73	-1,094.14	864.56	486.48	444.47	42.00	11.581		
4,900.00	4,485.83	4,893.29	4,629.44	34.64	27.50	-150.72	-1,122.81	886.43	497.62	454.61	43.01	11.571		
5,000.00	4,575.24	4,992.67	4,722.04	35.47	28.17	-150.71	-1,151.48	908.29	508.77	464.76	44.01	11.560		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12E-03 H04 596 - DD - Plan #2												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
5,100.00	4,664.65	5,092.05	4,814.65	36.29	28.83	-150.70	-1,180.15	930.16	519.91	474.90	45.01	11.550	
5,200.00	4,754.06	5,191.42	4,907.25	37.12	29.50	-150.69	-1,208.83	952.03	531.05	485.04	46.02	11.541	
5,300.00	4,843.47	5,290.80	4,999.86	37.95	30.17	-150.68	-1,237.50	973.90	542.20	495.18	47.02	11.531	
5,400.00	4,932.88	5,390.18	5,092.46	38.78	30.83	-150.67	-1,266.17	995.76	553.34	505.32	48.02	11.522	
5,500.00	5,022.29	5,489.56	5,185.06	39.61	31.50	-150.66	-1,294.84	1,017.63	564.49	515.46	49.03	11.514	
5,600.00	5,111.70	5,588.93	5,277.67	40.43	32.17	-150.65	-1,323.51	1,039.50	575.63	525.60	50.03	11.506	
5,700.00	5,201.11	5,688.31	5,370.27	41.26	32.83	-150.64	-1,352.18	1,061.37	586.77	535.74	51.04	11.497	
5,800.00	5,290.52	5,787.69	5,462.88	42.09	33.50	-150.64	-1,380.85	1,083.23	597.92	545.88	52.04	11.490	
5,900.00	5,379.93	5,887.06	5,555.48	42.92	34.17	-150.63	-1,409.53	1,105.10	609.06	556.02	53.04	11.482	
6,000.00	5,469.34	5,986.44	5,648.09	43.75	34.83	-150.62	-1,438.20	1,126.97	620.21	566.16	54.05	11.475	
6,100.00	5,558.75	6,085.82	5,740.69	44.57	35.50	-150.61	-1,466.87	1,148.83	631.35	576.30	55.05	11.468	
6,200.00	5,648.16	6,185.20	5,833.29	45.40	36.17	-150.61	-1,495.54	1,170.70	642.50	586.44	56.06	11.461	
6,300.00	5,737.57	6,284.57	5,925.90	46.23	36.83	-150.60	-1,524.21	1,192.57	653.64	596.57	57.07	11.454	
6,400.00	5,826.98	6,383.95	6,018.50	47.06	37.50	-150.59	-1,552.88	1,214.44	664.78	606.71	58.07	11.448	
6,500.00	5,916.39	6,483.33	6,111.11	47.89	38.17	-150.59	-1,581.55	1,236.30	675.93	616.85	59.08	11.442	
6,600.00	6,005.80	6,582.70	6,203.71	48.72	38.83	-150.58	-1,610.23	1,258.17	687.07	626.99	60.08	11.436	
6,700.00	6,095.21	6,682.08	6,296.32	49.55	39.50	-150.58	-1,638.90	1,280.04	698.22	637.13	61.09	11.430	
6,800.00	6,184.62	6,781.46	6,388.92	50.37	40.17	-150.57	-1,667.57	1,301.91	709.36	647.27	62.09	11.424	
6,900.00	6,274.03	6,880.84	6,481.53	51.20	40.83	-150.56	-1,696.24	1,323.77	720.51	657.40	63.10	11.418	
7,000.00	6,363.44	6,980.21	6,574.13	52.03	41.50	-150.56	-1,724.91	1,345.64	731.65	667.54	64.11	11.413	
7,063.95	6,420.62	7,035.61	6,625.82	52.56	41.85	-150.56	-1,740.76	1,357.73	738.97	674.31	64.66	11.429	
7,100.00	6,453.00	7,062.97	6,651.52	52.86	42.01	-150.64	-1,748.22	1,363.42	743.29	678.39	64.90	11.452	
7,200.00	6,544.33	7,138.75	6,723.37	53.61	42.43	-150.84	-1,767.36	1,378.02	754.32	688.79	65.54	11.510	
7,300.00	6,637.66	7,214.39	6,795.98	54.29	42.80	-151.01	-1,784.19	1,390.85	763.94	697.86	66.08	11.560	
7,400.00	6,732.74	7,299.99	6,879.09	54.88	43.15	-151.15	-1,800.46	1,403.26	772.22	705.57	66.65	11.586	
7,500.00	6,829.31	7,365.33	6,943.10	55.39	43.37	-151.26	-1,810.87	1,411.20	778.88	711.98	66.91	11.641	
7,600.00	6,927.11	7,440.67	7,017.41	55.83	43.58	-151.33	-1,820.72	1,418.71	784.18	716.99	67.19	11.671	
7,700.00	7,025.86	7,515.95	7,092.09	56.19	43.74	-151.39	-1,828.21	1,424.43	788.03	720.63	67.40	11.692	
7,800.00	7,125.29	7,599.98	7,175.83	56.49	43.87	-151.41	-1,833.81	1,428.70	790.47	722.84	67.63	11.688	
7,900.00	7,225.14	7,666.42	7,242.20	56.72	43.92	-151.41	-1,836.17	1,430.49	791.32	723.78	67.55	11.715	
7,950.85	7,275.99	7,704.68	7,280.44	56.81	43.95	0.05	-1,836.69	1,430.89	791.23	723.69	67.54	11.715	
7,964.59	7,289.73	7,715.01	7,290.78	56.83	43.95	123.74	-1,836.72	1,430.92	791.19	723.66	67.53	11.716	
7,979.74	7,304.88	7,729.13	7,304.90	56.85	43.96	123.75	-1,836.72	1,430.92	791.22	723.65	67.56	11.711	
8,000.00	7,325.14	7,749.42	7,325.19	56.88	43.97	123.75	-1,836.72	1,430.92	791.27	723.64	67.63	11.700	
8,100.00	7,425.13	7,849.58	7,425.35	57.03	44.02	123.78	-1,836.74	1,430.89	791.54	723.59	67.95	11.650	
8,200.00	7,525.13	7,949.75	7,525.52	57.19	44.08	123.81	-1,836.78	1,430.84	791.78	723.52	68.26	11.599	
8,300.00	7,625.13	8,049.92	7,625.68	57.35	44.13	123.83	-1,836.84	1,430.75	792.00	723.42	68.58	11.548	
8,400.00	7,725.13	8,150.08	7,725.85	57.51	44.19	123.85	-1,836.92	1,430.63	792.20	723.30	68.90	11.498	
8,500.00	7,825.13	8,250.25	7,826.01	57.67	44.24	123.87	-1,837.02	1,430.48	792.38	723.16	69.22	11.448	
8,600.00	7,925.13	8,350.41	7,926.18	57.83	44.30	123.89	-1,837.14	1,430.29	792.54	723.00	69.54	11.398	
8,700.00	8,025.13	8,450.58	8,026.35	57.99	44.36	123.90	-1,837.28	1,430.08	792.68	722.82	69.85	11.348	
8,800.00	8,125.13	8,550.75	8,126.51	58.16	44.42	123.92	-1,837.45	1,429.83	792.79	722.62	70.17	11.298	
8,900.00	8,225.12	8,650.91	8,226.68	58.33	44.47	123.93	-1,837.63	1,429.55	792.89	722.40	70.49	11.248	
9,000.00	8,325.12	8,751.08	8,326.85	58.50	44.53	123.93	-1,837.84	1,429.24	792.97	722.15	70.81	11.198	
9,100.00	8,425.12	8,851.25	8,427.01	58.67	44.59	123.94	-1,838.06	1,428.90	793.02	721.89	71.13	11.149	
9,200.00	8,525.12	8,951.41	8,527.18	58.84	44.65	123.94	-1,838.31	1,428.53	793.05	721.60	71.45	11.099	
9,300.00	8,625.12	9,051.58	8,627.34	59.02	44.71	123.94	-1,838.58	1,428.13	793.06	721.29	71.77	11.050	
9,400.00	8,725.12	9,151.75	8,727.51	59.19	44.78	123.94	-1,838.87	1,427.69	793.05	720.97	72.09	11.001	
9,500.00	8,825.12	9,251.92	8,827.67	59.37	44.84	123.94	-1,839.18	1,427.23	793.02	720.62	72.41	10.952	
9,600.00	8,925.12	9,352.08	8,927.84	59.55	44.90	123.93	-1,839.51	1,426.73	792.97	720.24	72.73	10.903	
9,700.00	9,025.11	9,452.25	9,028.01	59.73	44.96	123.93	-1,839.86	1,426.20	792.90	719.85	73.05	10.854	
9,800.00	9,125.11	9,552.27	9,128.03	59.91	45.03	123.92	-1,840.23	1,425.65	792.81	719.45	73.37	10.806	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF12E-03 H04 596 - DD - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total		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	Separation Factor		
9,900.00	9,225.11	9,652.27	9,228.02	60.10	45.09	123.91	-1,840.60	1,425.10	792.73	719.04	73.69	10.758		
10,000.00	9,325.11	9,752.27	9,328.02	60.28	45.15	123.90	-1,840.96	1,424.55	792.64	718.63	74.01	10.710		
10,100.00	9,425.11	9,852.27	9,428.02	60.47	45.22	123.89	-1,841.33	1,424.00	792.56	718.22	74.34	10.662		
10,200.00	9,525.11	9,952.27	9,528.02	60.66	45.29	123.88	-1,841.69	1,423.45	792.47	717.80	74.67	10.614		
10,300.00	9,625.11	10,052.27	9,628.02	60.85	45.35	123.87	-1,842.06	1,422.90	792.38	717.39	75.00	10.566		
10,400.00	9,725.11	10,152.27	9,728.01	61.04	45.42	123.86	-1,842.42	1,422.35	792.30	716.97	75.33	10.518		
10,500.00	9,825.10	10,252.27	9,828.01	61.24	45.49	123.85	-1,842.79	1,421.80	792.21	716.55	75.66	10.470		
10,600.00	9,925.10	10,352.27	9,928.01	61.43	45.55	123.84	-1,843.15	1,421.25	792.13	716.12	76.00	10.422		
10,700.00	10,025.10	10,452.27	10,028.01	61.63	45.62	123.83	-1,843.52	1,420.70	792.04	715.70	76.34	10.375		
10,800.00	10,125.10	10,552.27	10,128.00	61.82	45.69	123.82	-1,843.88	1,420.15	791.95	715.27	76.68	10.328		
10,900.00	10,225.10	10,652.27	10,228.00	62.02	45.76	123.81	-1,844.25	1,419.61	791.87	714.84	77.03	10.280		
11,000.00	10,325.10	10,752.27	10,328.00	62.23	45.83	123.81	-1,844.61	1,419.06	791.78	714.41	77.37	10.233		
11,100.00	10,425.10	10,852.27	10,428.00	62.43	45.90	123.80	-1,844.98	1,418.51	791.70	713.97	77.72	10.186		
11,200.00	10,525.10	10,952.27	10,527.99	62.63	45.98	123.79	-1,845.35	1,417.96	791.61	713.54	78.07	10.140		
11,300.00	10,625.09	11,052.27	10,627.99	62.84	46.05	123.78	-1,845.71	1,417.41	791.52	713.10	78.42	10.093		
11,400.00	10,725.09	11,152.27	10,727.99	63.04	46.12	123.77	-1,846.08	1,416.86	791.44	712.66	78.78	10.046		
11,500.00	10,825.09	11,252.27	10,827.99	63.25	46.19	123.76	-1,846.44	1,416.31	791.35	712.22	79.13	10.000		
11,540.89	10,865.98	11,293.16	10,868.87	63.34	46.22	123.75	-1,846.59	1,416.08	791.32	712.04	79.28	9.981		
11,600.00	10,925.09	11,352.27	10,927.99	63.46	46.27	123.75	-1,846.81	1,415.76	791.27	711.77	79.49	9.954		
11,700.00	11,025.09	11,452.27	11,027.98	63.67	46.34	123.74	-1,847.17	1,415.21	791.18	711.33	79.85	9.908		
11,800.00	11,125.09	11,552.27	11,127.98	63.88	46.42	123.73	-1,847.54	1,414.66	791.09	710.88	80.21	9.862		
11,900.00	11,225.09	11,652.27	11,227.98	64.09	46.49	123.72	-1,847.90	1,414.11	791.01	710.43	80.58	9.817		
12,000.00	11,325.09	11,752.27	11,327.98	64.31	46.57	123.71	-1,848.27	1,413.56	790.92	709.98	80.94	9.771		
12,100.00	11,425.08	11,852.27	11,427.97	64.52	46.64	123.70	-1,848.63	1,413.01	790.84	709.53	81.31	9.726		
12,200.00	11,525.08	11,952.27	11,527.97	64.74	46.72	123.69	-1,849.00	1,412.46	790.75	709.07	81.68	9.681		
12,300.00	11,625.08	12,052.27	11,627.97	64.96	46.80	123.68	-1,849.36	1,411.92	790.67	708.61	82.05	9.636		
12,400.00	11,725.08	12,152.27	11,727.97	65.18	46.88	123.67	-1,849.73	1,411.37	790.58	708.16	82.42	9.592		
12,500.00	11,825.08	12,252.27	11,827.96	65.40	46.95	123.66	-1,850.09	1,410.82	790.50	707.70	82.80	9.547		
12,600.00	11,925.08	12,352.27	11,927.96	65.62	47.03	123.65	-1,850.46	1,410.27	790.41	707.23	83.18	9.503		
12,700.00	12,025.08	12,452.27	12,027.96	65.84	47.11	123.65	-1,850.83	1,409.72	790.32	706.77	83.55	9.459		
12,800.00	12,125.07	12,552.27	12,127.96	66.07	47.19	123.64	-1,851.19	1,409.17	790.24	706.31	83.93	9.415		
12,900.00	12,225.07	12,652.27	12,227.96	66.29	47.27	123.63	-1,851.56	1,408.62	790.15	705.84	84.31	9.372		
13,005.64	12,330.71	12,757.91	12,333.59	66.53	47.36	123.62	-1,851.94	1,408.04	790.06	705.34	84.72	9.326 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13A-03 H04 596 - DD - Plan #2												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	16.04	19.04	5.48	19.81	19.58	0.24	83.589	
100.00	100.00	100.00	100.00	0.12	0.12	16.04	19.04	5.48	19.81	19.04	0.77	25.730	
200.00	200.00	200.00	200.00	0.48	0.29	16.04	19.04	5.48	19.81	18.51	1.30	15.205	
300.00	300.00	300.00	300.00	0.84	0.47	16.04	19.04	5.48	19.81	17.98	1.84	10.791 CC, ES	
400.00	400.00	400.00	400.00	1.20	0.64	16.04	19.04	5.48	19.81	17.98	1.84	10.791 CC, ES	
500.00	499.95	499.95	499.95	1.54	0.81	-140.21	19.04	5.48	21.75	19.40	2.36	9.237	
600.00	599.63	600.76	600.72	1.89	1.00	-147.13	16.84	6.96	26.12	23.21	2.91	8.983	
700.00	698.77	701.85	701.47	2.24	1.20	-151.19	10.20	11.42	30.97	27.44	3.53	8.769	
800.00	797.08	803.20	801.93	2.63	1.46	-153.38	-0.89	18.88	36.11	31.90	4.21	8.584	
900.00	894.31	904.82	901.80	3.06	1.79	-154.37	-16.43	29.33	41.45	36.53	4.92	8.420	
1,000.00	990.18	1,006.70	1,000.77	3.54	2.21	-154.53	-36.41	42.76	46.94	41.26	5.68	8.264	
1,100.00	1,084.43	1,108.82	1,098.56	4.08	2.72	-154.13	-60.81	59.17	52.57	46.08	6.49	8.101	
1,200.00	1,176.81	1,211.20	1,194.87	4.69	3.34	-153.32	-89.58	78.51	58.32	50.96	7.36	7.921	
1,286.90	1,255.36	1,299.40	1,276.38	5.28	3.93	-152.52	-117.57	97.33	63.66	55.53	8.13	7.832	
1,300.00	1,267.08	1,312.47	1,288.40	5.38	4.01	-152.49	-121.80	100.18	64.63	56.39	8.23	7.848	
1,400.00	1,356.49	1,412.19	1,380.20	6.11	4.70	-152.28	-154.14	121.92	72.03	62.97	9.06	7.952	
1,500.00	1,445.90	1,511.92	1,472.00	6.86	5.39	-152.11	-186.47	143.67	79.43	69.51	9.91	8.012	
1,600.00	1,535.31	1,611.65	1,563.79	7.63	6.08	-151.97	-218.81	165.41	86.83	76.04	10.79	8.044	
1,700.00	1,624.72	1,711.37	1,655.59	8.42	6.78	-151.85	-251.15	187.15	94.23	82.54	11.70	8.058	
1,800.00	1,714.13	1,811.10	1,747.39	9.21	7.49	-151.75	-283.48	208.90	101.64	89.03	12.61	8.059	
1,900.00	1,803.54	1,910.82	1,839.19	10.00	8.19	-151.66	-315.82	230.64	109.04	95.50	13.54	8.054	
2,000.00	1,892.95	2,010.55	1,930.98	10.81	8.90	-151.59	-348.16	252.38	116.44	101.97	14.48	8.043	
2,100.00	1,982.36	2,110.27	2,022.78	11.61	9.61	-151.52	-380.49	274.13	123.85	108.42	15.43	8.029	
2,200.00	2,071.77	2,210.00	2,114.58	12.42	10.32	-151.46	-412.83	295.87	131.25	114.87	16.38	8.013	
2,300.00	2,161.18	2,309.72	2,206.38	13.23	11.03	-151.41	-445.17	317.61	138.66	121.32	17.34	7.996	
2,400.00	2,250.59	2,409.45	2,298.17	14.05	11.75	-151.36	-477.50	339.36	146.06	127.76	18.31	7.979	
2,500.00	2,340.00	2,509.17	2,389.97	14.86	12.46	-151.32	-509.84	361.10	153.47	134.19	19.28	7.962	
2,600.00	2,429.41	2,608.90	2,481.77	15.68	13.17	-151.28	-542.18	382.85	160.87	140.62	20.25	7.945	
2,700.00	2,518.82	2,708.63	2,573.56	16.50	13.89	-151.24	-574.51	404.59	168.28	147.05	21.23	7.928	
2,800.00	2,608.23	2,808.35	2,665.36	17.32	14.60	-151.21	-606.85	426.33	175.68	153.47	22.20	7.912	
2,900.00	2,697.64	2,908.08	2,757.16	18.14	15.31	-151.18	-639.19	448.08	183.08	159.90	23.19	7.896	
3,000.00	2,787.05	3,007.80	2,848.96	18.96	16.03	-151.15	-671.52	469.82	190.49	166.32	24.17	7.881	
3,100.00	2,876.46	3,107.53	2,940.75	19.78	16.74	-151.13	-703.86	491.56	197.89	172.74	25.16	7.866	
3,200.00	2,965.87	3,207.25	3,032.55	20.60	17.46	-151.10	-736.19	513.31	205.30	179.15	26.14	7.852	
3,300.00	3,055.28	3,306.98	3,124.35	21.42	18.17	-151.08	-768.53	535.05	212.70	185.57	27.13	7.839	
3,400.00	3,144.69	3,406.70	3,216.15	22.25	18.89	-151.06	-800.87	556.79	220.11	191.98	28.12	7.826	
3,500.00	3,234.10	3,506.43	3,307.94	23.07	19.61	-151.04	-833.20	578.54	227.51	198.40	29.12	7.814	
3,600.00	3,323.51	3,606.15	3,399.74	23.90	20.32	-151.02	-865.54	600.28	234.92	204.81	30.11	7.802	
3,700.00	3,412.92	3,705.88	3,491.54	24.72	21.04	-151.00	-897.88	622.02	242.32	211.22	31.10	7.791	
3,800.00	3,502.33	3,805.61	3,583.33	25.55	21.75	-150.99	-930.21	643.77	249.73	217.63	32.10	7.780	
3,900.00	3,591.74	3,905.33	3,675.13	26.37	22.47	-150.97	-962.55	665.51	257.13	224.04	33.09	7.770	
4,000.00	3,681.15	4,005.06	3,766.93	27.20	23.19	-150.96	-994.89	687.25	264.54	230.45	34.09	7.760	
4,100.00	3,770.56	4,104.78	3,858.73	28.02	23.90	-150.94	-1,027.22	709.00	271.94	236.86	35.09	7.751	
4,200.00	3,859.97	4,204.51	3,950.52	28.85	24.62	-150.93	-1,059.56	730.74	279.35	243.26	36.08	7.741	
4,300.00	3,949.38	4,304.23	4,042.32	29.68	25.34	-150.92	-1,091.90	752.48	286.75	249.67	37.08	7.733	
4,400.00	4,038.79	4,403.96	4,134.12	30.50	26.05	-150.91	-1,124.23	774.23	294.16	256.08	38.08	7.724	
4,500.00	4,128.20	4,503.68	4,225.91	31.33	26.77	-150.90	-1,156.57	795.97	301.56	262.48	39.08	7.716	
4,600.00	4,217.61	4,603.41	4,317.71	32.16	27.48	-150.89	-1,188.91	817.71	308.97	268.89	40.08	7.708	
4,700.00	4,307.02	4,703.13	4,409.51	32.98	28.20	-150.88	-1,221.24	839.46	316.37	275.29	41.08	7.701	
4,800.00	4,396.43	4,802.86	4,501.31	33.81	28.92	-150.87	-1,253.58	861.20	323.78	281.70	42.08	7.694	
4,900.00	4,485.83	4,902.58	4,593.10	34.64	29.63	-150.86	-1,285.91	882.95	331.18	288.10	43.08	7.687	
5,000.00	4,575.24	5,002.31	4,684.90	35.47	30.35	-150.85	-1,318.25	904.69	338.59	294.50	44.09	7.680	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13A-03 H04 596 - DD - Plan #2												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)			
5,100.00	4,664.65	5,102.04	4,776.70	36.29	31.07	-150.84	-1,350.59	926.43	345.99	300.91	45.09	7.674	
5,200.00	4,754.06	5,201.76	4,868.50	37.12	31.79	-150.83	-1,382.92	948.18	353.40	307.31	46.09	7.668	
5,300.00	4,843.47	5,301.49	4,960.29	37.95	32.50	-150.83	-1,415.26	969.92	360.80	313.71	47.09	7.662	
5,400.00	4,932.88	5,401.21	5,052.09	38.78	33.22	-150.82	-1,447.60	991.66	368.21	320.12	48.09	7.656	
5,500.00	5,022.29	5,500.94	5,143.89	39.61	33.94	-150.81	-1,479.93	1,013.41	375.61	326.52	49.10	7.650	
5,600.00	5,111.70	5,600.66	5,235.68	40.43	34.65	-150.81	-1,512.27	1,035.15	383.02	332.92	50.10	7.645	
5,700.00	5,201.11	5,700.39	5,327.48	41.26	35.37	-150.80	-1,544.61	1,056.89	390.42	339.32	51.10	7.640	
5,800.00	5,290.52	5,800.11	5,419.28	42.09	36.09	-150.79	-1,576.94	1,078.64	397.83	345.72	52.11	7.635	
5,900.00	5,379.93	5,899.84	5,511.08	42.92	36.80	-150.79	-1,609.28	1,100.38	405.24	352.12	53.11	7.630	
6,000.00	5,469.34	5,999.56	5,602.87	43.75	37.52	-150.78	-1,641.62	1,122.12	412.64	358.53	54.12	7.625	
6,100.00	5,558.75	6,099.29	5,694.67	44.57	38.24	-150.78	-1,673.95	1,143.87	420.05	364.93	55.12	7.621	
6,200.00	5,648.16	6,199.02	5,786.47	45.40	38.95	-150.77	-1,706.29	1,165.61	427.45	371.33	56.12	7.616	
6,300.00	5,737.57	6,298.74	5,878.27	46.23	39.67	-150.76	-1,738.62	1,187.35	434.86	377.73	57.13	7.612	
6,400.00	5,826.98	6,398.47	5,970.06	47.06	40.39	-150.76	-1,770.96	1,209.10	442.26	384.13	58.13	7.608	
6,500.00	5,916.39	6,498.19	6,061.86	47.89	41.11	-150.75	-1,803.30	1,230.84	449.67	390.53	59.14	7.604	
6,600.00	6,005.80	6,597.92	6,153.66	48.72	41.82	-150.75	-1,835.63	1,252.58	457.07	396.93	60.14	7.600	
6,700.00	6,095.21	6,697.64	6,245.45	49.55	42.54	-150.75	-1,867.97	1,274.33	464.48	403.33	61.15	7.596	
6,800.00	6,184.62	6,797.37	6,337.25	50.37	43.26	-150.74	-1,900.31	1,296.07	471.88	409.73	62.15	7.592	
6,900.00	6,274.03	6,897.09	6,429.05	51.20	43.97	-150.74	-1,932.64	1,317.81	479.29	416.13	63.16	7.589	
7,000.00	6,363.44	6,996.82	6,520.85	52.03	44.69	-150.73	-1,964.98	1,339.56	486.69	422.53	64.16	7.585	
7,063.95	6,420.62	7,054.14	6,573.70	52.56	45.08	-150.75	-1,983.38	1,351.93	491.67	426.95	64.72	7.596	
7,100.00	6,453.00	7,083.73	6,601.20	52.86	45.28	-150.82	-1,992.44	1,358.02	494.75	429.76	64.98	7.614	
7,200.00	6,544.33	7,165.68	6,678.22	53.61	45.75	-151.00	-2,015.67	1,373.64	502.59	436.96	65.63	7.658	
7,300.00	6,637.66	7,247.47	6,756.21	54.29	46.18	-151.15	-2,036.10	1,387.38	509.41	443.23	66.18	7.698	
7,400.00	6,732.74	7,329.13	6,835.05	54.88	46.54	-151.27	-2,053.71	1,399.22	515.20	448.56	66.64	7.731	
7,500.00	6,829.31	7,410.67	6,914.62	55.39	46.85	-151.37	-2,068.50	1,409.16	519.94	452.94	67.01	7.759	
7,600.00	6,927.11	7,499.99	7,002.56	55.83	47.12	-151.43	-2,081.44	1,417.86	523.71	456.30	67.41	7.769	
7,700.00	7,025.86	7,573.50	7,075.42	56.19	47.27	-151.47	-2,089.52	1,423.30	526.27	458.81	67.47	7.801	
7,800.00	7,125.29	7,654.84	7,156.41	56.49	47.40	-151.48	-2,095.74	1,427.48	527.85	460.28	67.56	7.813	
7,900.00	7,225.14	7,736.17	7,237.63	56.72	47.48	-151.47	-2,099.10	1,429.74	528.35	460.78	67.57	7.819	
7,950.85	7,275.99	7,777.52	7,278.97	56.81	47.50	0.00	-2,099.70	1,430.15	528.20	460.66	67.54	7.820	
7,966.07	7,291.21	7,790.53	7,291.99	56.83	47.50	123.69	-2,099.74	1,430.17	528.17	460.63	67.55	7.820	
7,979.74	7,304.88	7,803.44	7,304.89	56.85	47.51	123.69	-2,099.74	1,430.17	528.20	460.63	67.57	7.817	
8,000.00	7,325.14	7,823.72	7,325.17	56.88	47.52	123.70	-2,099.74	1,430.17	528.25	460.61	67.64	7.810	
8,100.00	7,425.13	7,923.83	7,425.28	57.03	47.57	123.74	-2,099.76	1,430.15	528.52	460.54	67.97	7.775	
8,200.00	7,525.13	8,023.94	7,525.39	57.19	47.62	123.78	-2,099.80	1,430.09	528.76	460.45	68.31	7.741	
8,300.00	7,625.13	8,124.05	7,625.50	57.35	47.67	123.82	-2,099.86	1,430.00	528.98	460.34	68.64	7.707	
8,400.00	7,725.13	8,224.16	7,725.62	57.51	47.72	123.85	-2,099.94	1,429.88	529.18	460.21	68.97	7.673	
8,500.00	7,825.13	8,324.27	7,825.73	57.67	47.78	123.88	-2,100.04	1,429.73	529.36	460.06	69.30	7.639	
8,600.00	7,925.13	8,424.39	7,925.84	57.83	47.83	123.91	-2,100.16	1,429.54	529.52	459.89	69.63	7.605	
8,700.00	8,025.13	8,524.50	8,025.95	57.99	47.88	123.93	-2,100.31	1,429.33	529.65	459.70	69.95	7.571	
8,800.00	8,125.13	8,624.61	8,126.06	58.16	47.94	123.95	-2,100.47	1,429.08	529.77	459.49	70.28	7.538	
8,900.00	8,225.12	8,724.72	8,226.17	58.33	47.99	123.96	-2,100.66	1,428.80	529.86	459.26	70.61	7.505	
9,000.00	8,325.12	8,824.83	8,326.28	58.50	48.05	123.97	-2,100.87	1,428.49	529.94	459.01	70.93	7.471	
9,100.00	8,425.12	8,924.95	8,426.40	58.67	48.10	123.98	-2,101.09	1,428.15	529.99	458.74	71.25	7.438	
9,200.00	8,525.12	9,025.06	8,526.51	58.84	48.16	123.99	-2,101.34	1,427.78	530.02	458.45	71.57	7.405	
9,300.00	8,625.12	9,125.17	8,626.62	59.02	48.22	123.99	-2,101.61	1,427.37	530.03	458.14	71.89	7.372	
9,400.00	8,725.12	9,225.28	8,726.73	59.19	48.28	123.99	-2,101.90	1,426.93	530.02	457.81	72.21	7.340	
9,500.00	8,825.12	9,325.40	8,826.84	59.37	48.33	123.98	-2,102.22	1,426.47	529.99	457.46	72.53	7.307	
9,600.00	8,925.12	9,425.51	8,926.95	59.55	48.39	123.97	-2,102.55	1,425.97	529.93	457.08	72.85	7.275	
9,700.00	9,025.11	9,525.62	9,027.06	59.73	48.45	123.96	-2,102.90	1,425.44	529.86	456.69	73.16	7.242	
9,800.00	9,125.11	9,625.64	9,127.07	59.91	48.51	123.95	-2,103.27	1,424.89	529.77	456.29	73.48	7.210	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13A-03 H04 596 - DD - Plan #2												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	9,225.11	9,725.64	9,227.07	60.10	48.57	123.93	-2,103.64	1,424.34	529.68	455.89	73.79	7.178	
10,000.00	9,325.11	9,825.64	9,327.07	60.28	48.63	123.92	-2,104.01	1,423.79	529.59	455.48	74.11	7.146	
10,100.00	9,425.11	9,925.64	9,427.07	60.47	48.70	123.91	-2,104.38	1,423.23	529.50	455.07	74.43	7.114	
10,200.00	9,525.11	10,025.64	9,527.07	60.66	48.76	123.89	-2,104.74	1,422.68	529.41	454.66	74.76	7.082	
10,300.00	9,625.11	10,125.64	9,627.06	60.85	48.82	123.88	-2,105.11	1,422.13	529.33	454.24	75.08	7.050	
10,400.00	9,725.11	10,225.64	9,727.06	61.04	48.88	123.86	-2,105.48	1,421.58	529.24	453.82	75.41	7.018	
10,500.00	9,825.10	10,325.64	9,827.06	61.24	48.95	123.85	-2,105.85	1,421.03	529.15	453.41	75.74	6.986	
10,600.00	9,925.10	10,425.64	9,927.06	61.43	49.01	123.84	-2,106.21	1,420.48	529.06	452.98	76.08	6.954	
10,700.00	10,025.10	10,525.64	10,027.05	61.63	49.08	123.82	-2,106.58	1,419.93	528.97	452.56	76.41	6.923	
10,800.00	10,125.10	10,625.64	10,127.05	61.82	49.14	123.81	-2,106.95	1,419.38	528.88	452.13	76.75	6.891	
10,900.00	10,225.10	10,725.64	10,227.05	62.02	49.21	123.79	-2,107.32	1,418.83	528.80	451.71	77.09	6.860	
11,000.00	10,325.10	10,825.64	10,327.05	62.23	49.27	123.78	-2,107.69	1,418.28	528.71	451.28	77.43	6.828	
11,100.00	10,425.10	10,925.64	10,427.04	62.43	49.34	123.76	-2,108.05	1,417.73	528.62	450.84	77.77	6.797	
11,200.00	10,525.10	11,025.64	10,527.04	62.63	49.41	123.75	-2,108.42	1,417.18	528.53	450.41	78.12	6.766	
11,300.00	10,625.09	11,125.64	10,627.04	62.84	49.48	123.74	-2,108.79	1,416.63	528.44	449.97	78.47	6.734	
11,400.00	10,725.09	11,225.64	10,727.04	63.04	49.55	123.72	-2,109.16	1,416.08	528.35	449.54	78.82	6.703	
11,500.00	10,825.09	11,325.64	10,827.04	63.25	49.62	123.71	-2,109.52	1,415.53	528.27	449.10	79.17	6.673	
11,540.89	10,865.98	11,366.52	10,867.92	63.34	49.64	123.70	-2,109.68	1,415.30	528.23	448.92	79.31	6.660	
11,600.00	10,925.09	11,425.64	10,927.03	63.46	49.68	123.69	-2,109.89	1,414.98	528.18	448.65	79.52	6.642	
11,700.00	11,025.09	11,525.64	11,027.03	63.67	49.75	123.68	-2,110.26	1,414.42	528.09	448.21	79.88	6.611	
11,800.00	11,125.09	11,625.64	11,127.03	63.88	49.83	123.66	-2,110.63	1,413.87	528.00	447.76	80.24	6.580	
11,900.00	11,225.09	11,725.63	11,227.03	64.09	49.90	123.65	-2,111.00	1,413.32	527.91	447.32	80.60	6.550	
12,000.00	11,325.09	11,825.63	11,327.02	64.31	49.97	123.64	-2,111.36	1,412.77	527.83	446.87	80.96	6.520	
12,100.00	11,425.08	11,925.63	11,427.02	64.52	50.04	123.62	-2,111.73	1,412.22	527.74	446.42	81.32	6.489	
12,200.00	11,525.08	12,025.63	11,527.02	64.74	50.11	123.61	-2,112.10	1,411.67	527.65	445.96	81.69	6.459	
12,300.00	11,625.08	12,125.63	11,627.02	64.96	50.19	123.59	-2,112.47	1,411.12	527.56	445.51	82.06	6.429	
12,400.00	11,725.08	12,225.63	11,727.01	65.18	50.26	123.58	-2,112.83	1,410.57	527.47	445.05	82.42	6.400	
12,500.00	11,825.08	12,325.63	11,827.01	65.40	50.33	123.57	-2,113.20	1,410.02	527.39	444.59	82.79	6.370	
12,600.00	11,925.08	12,425.63	11,927.01	65.62	50.41	123.55	-2,113.57	1,409.47	527.30	444.13	83.17	6.340	
12,700.00	12,025.08	12,525.63	12,027.01	65.84	50.48	123.54	-2,113.94	1,408.92	527.21	443.67	83.54	6.311	
12,800.00	12,125.07	12,625.63	12,127.01	66.07	50.56	123.52	-2,114.31	1,408.37	527.12	443.21	83.92	6.281	
12,900.00	12,225.07	12,725.63	12,227.00	66.29	50.64	123.51	-2,114.67	1,407.82	527.04	442.74	84.29	6.252	
13,005.64	12,330.71	12,831.27	12,332.64	66.53	50.72	123.49	-2,115.06	1,407.24	526.94	442.25	84.69	6.222 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13B-03 H04 596 - DD - Plan #3													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	13.28	9.94	2.35	10.22							
100.00	100.00	100.00	100.00	0.12	0.12	13.28	9.94	2.35	10.22	9.98	0.24	43.103				
200.00	200.00	200.00	200.00	0.48	0.29	13.28	9.94	2.35	10.22	9.45	0.77	13.268				
300.00	300.00	300.00	300.00	0.84	0.47	13.28	9.94	2.35	10.22	8.91	1.30	7.841				
400.00	400.00	400.00	400.00	1.20	0.64	13.28	9.94	2.35	10.22	8.38	1.84	5,564 CC, ES				
500.00	499.95	500.20	500.20	1.54	0.82	-144.43	9.38	2.69	11.77	9.40	2.37	4.975				
600.00	599.63	600.73	600.57	1.89	1.00	-149.83	4.85	5.41	14.08	11.12	2.96	4.757				
700.00	698.77	701.38	700.66	2.24	1.23	-152.92	-4.21	10.87	16.56	12.94	3.61	4.580				
800.00	797.08	802.18	800.18	2.63	1.52	-154.54	-17.80	19.05	19.14	14.83	4.31	4.441				
900.00	894.31	903.10	898.86	3.06	1.90	-155.18	-35.89	29.94	21.79	16.75	5.04	4.326				
1,000.00	990.18	1,004.15	996.41	3.54	2.36	-155.15	-58.45	43.52	24.49	18.69	5.80	4.223				
1,100.00	1,084.43	1,105.33	1,092.54	4.08	2.92	-154.64	-85.44	59.77	27.23	20.63	6.61	4.123				
1,200.00	1,176.81	1,206.63	1,186.99	4.69	3.58	-153.79	-116.79	78.65	30.02	22.55	7.47	4.018				
1,286.90	1,255.36	1,294.49	1,267.27	5.28	4.22	-152.93	-147.36	97.05	32.55	24.30	8.25	3.944				
1,300.00	1,267.08	1,307.58	1,279.16	5.38	4.31	-152.89	-152.06	99.89	33.03	24.67	8.36	3.952				
1,400.00	1,356.49	1,407.51	1,369.87	6.11	5.05	-152.61	-187.98	121.51	36.70	27.53	9.17	4.001				
1,500.00	1,445.90	1,507.44	1,460.58	6.86	5.79	-152.39	-223.89	143.13	40.36	30.34	10.02	4.029				
1,600.00	1,535.31	1,607.38	1,551.30	7.63	6.54	-152.20	-259.81	164.76	44.03	33.14	10.89	4.042				
1,700.00	1,624.72	1,707.31	1,642.01	8.42	7.29	-152.04	-295.73	186.38	47.69	35.91	11.79	4.046				
1,800.00	1,714.13	1,807.24	1,732.72	9.21	8.05	-151.91	-331.64	208.01	51.36	38.66	12.70	4.044				
1,900.00	1,803.54	1,907.18	1,823.44	10.00	8.81	-151.79	-367.56	229.63	55.03	41.40	13.63	4.038				
2,000.00	1,892.95	2,007.11	1,914.15	10.81	9.57	-151.69	-403.47	251.25	58.70	44.13	14.56	4.030				
2,100.00	1,982.36	2,107.04	2,004.86	11.61	10.33	-151.60	-439.39	272.88	62.36	46.85	15.51	4.021				
2,200.00	2,071.77	2,206.97	2,095.58	12.42	11.09	-151.52	-475.31	294.50	66.03	49.56	16.47	4.010				
2,300.00	2,161.18	2,306.91	2,186.29	13.23	11.86	-151.45	-511.22	316.13	69.70	52.27	17.43	3.999				
2,400.00	2,250.59	2,406.84	2,277.01	14.05	12.62	-151.38	-547.14	337.75	73.36	54.97	18.39	3.989				
2,500.00	2,340.00	2,506.77	2,367.72	14.86	13.39	-151.32	-583.05	359.37	77.03	57.67	19.37	3.978				
2,600.00	2,429.41	2,606.70	2,458.43	15.68	14.15	-151.27	-618.97	381.00	80.70	60.36	20.34	3.967				
2,700.00	2,518.82	2,706.64	2,549.15	16.50	14.92	-151.22	-654.89	402.62	84.37	63.05	21.32	3.957				
2,800.00	2,608.23	2,806.57	2,639.86	17.32	15.68	-151.18	-690.80	424.25	88.04	65.73	22.30	3.947				
2,900.00	2,697.64	2,906.50	2,730.57	18.14	16.45	-151.14	-726.72	445.87	91.70	68.41	23.29	3.937				
3,000.00	2,787.05	3,006.44	2,821.29	18.96	17.22	-151.10	-762.64	467.50	95.37	71.09	24.28	3.928				
3,100.00	2,876.46	3,106.37	2,912.00	19.78	17.98	-151.06	-798.55	489.12	99.04	73.77	25.27	3.919				
3,200.00	2,965.87	3,206.30	3,002.71	20.60	18.75	-151.03	-834.47	510.74	102.71	76.45	26.26	3.911				
3,300.00	3,055.28	3,306.23	3,093.43	21.42	19.52	-151.00	-870.38	532.37	106.38	79.12	27.26	3.903				
3,400.00	3,144.69	3,406.17	3,184.14	22.25	20.28	-150.97	-906.30	553.99	110.04	81.79	28.25	3.895				
3,500.00	3,234.10	3,506.10	3,274.86	23.07	21.05	-150.94	-942.22	575.62	113.71	84.46	29.25	3.888				
3,600.00	3,323.51	3,606.03	3,365.57	23.90	21.82	-150.92	-978.13	597.24	117.38	87.13	30.25	3.881				
3,700.00	3,412.92	3,705.96	3,456.28	24.72	22.58	-150.90	-1,014.05	618.86	121.05	89.80	31.25	3.874				
3,800.00	3,502.33	3,805.90	3,547.00	25.55	23.35	-150.87	-1,049.96	640.49	124.72	92.47	32.25	3.868				
3,900.00	3,591.74	3,905.83	3,637.71	26.37	24.12	-150.85	-1,085.88	662.11	128.39	95.14	33.25	3.862				
4,000.00	3,681.15	4,005.76	3,728.42	27.20	24.89	-150.83	-1,121.80	683.74	132.05	97.80	34.25	3.856				
4,100.00	3,770.56	4,105.69	3,819.14	28.02	25.65	-150.82	-1,157.71	705.36	135.72	100.47	35.25	3.850				
4,200.00	3,859.97	4,205.63	3,909.85	28.85	26.42	-150.80	-1,193.63	726.99	139.39	103.13	36.26	3.845				
4,300.00	3,949.38	4,305.56	4,000.57	29.68	27.19	-150.78	-1,229.55	748.61	143.06	105.80	37.26	3.839				
4,400.00	4,038.79	4,405.49	4,091.28	30.50	27.96	-150.77	-1,265.46	770.23	146.73	108.46	38.27	3.834				
4,500.00	4,128.20	4,505.43	4,181.99	31.33	28.72	-150.75	-1,301.38	791.86	150.39	111.12	39.27	3.830				
4,600.00	4,217.61	4,605.36	4,272.71	32.16	29.49	-150.74	-1,337.29	813.48	154.06	113.79	40.28	3.825				
4,700.00	4,307.02	4,705.29	4,363.42	32.98	30.26	-150.72	-1,373.21	835.11	157.73	116.45	41.28	3.821				
4,800.00	4,396.43	4,805.22	4,454.13	33.81	31.03	-150.71	-1,409.13	856.73	161.40	119.11	42.29	3.816				
4,900.00	4,485.83	4,905.16	4,544.85	34.64	31.80	-150.70	-1,445.04	878.35	165.07	121.77	43.30	3.812				
5,000.00	4,575.24	5,005.09	4,635.56	35.47	32.56	-150.69	-1,480.96	899.98	168.74	124.43	44.31	3.808				

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13B-03 H04 596 - DD - Plan #3												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
5,100.00	4,664.65	5,105.02	4,726.27	36.29	33.33	-150.67	-1,516.87	921.60	172.40	127.09	45.31	3.805	
5,200.00	4,754.06	5,204.95	4,816.99	37.12	34.10	-150.66	-1,552.79	943.23	176.07	129.75	46.32	3.801	
5,300.00	4,843.47	5,304.89	4,907.70	37.95	34.87	-150.65	-1,588.71	964.85	179.74	132.41	47.33	3.797	
5,400.00	4,932.88	5,404.82	4,998.42	38.78	35.64	-150.64	-1,624.62	986.47	183.41	135.07	48.34	3.794	
5,500.00	5,022.29	5,504.75	5,089.13	39.61	36.40	-150.63	-1,660.54	1,008.10	187.08	137.73	49.35	3.791	
5,600.00	5,111.70	5,604.68	5,179.84	40.43	37.17	-150.62	-1,696.46	1,029.72	190.75	140.39	50.36	3.788	
5,700.00	5,201.11	5,704.62	5,270.56	41.26	37.94	-150.62	-1,732.37	1,051.35	194.41	143.04	51.37	3.785	
5,800.00	5,290.52	5,804.55	5,361.27	42.09	38.71	-150.61	-1,768.29	1,072.97	198.08	145.70	52.38	3.782	
5,900.00	5,379.93	5,904.48	5,451.98	42.92	39.48	-150.60	-1,804.20	1,094.60	201.75	148.36	53.39	3.779	
6,000.00	5,469.34	6,004.42	5,542.70	43.75	40.25	-150.59	-1,840.12	1,116.22	205.42	151.02	54.40	3.776	
6,100.00	5,558.75	6,104.35	5,633.41	44.57	41.01	-150.58	-1,876.04	1,137.84	209.09	153.68	55.41	3.773	
6,200.00	5,648.16	6,204.28	5,724.12	45.40	41.78	-150.58	-1,911.95	1,159.47	212.76	156.33	56.42	3.771	
6,300.00	5,737.57	6,304.21	5,814.84	46.23	42.55	-150.57	-1,947.87	1,181.09	216.42	158.99	57.44	3.768	
6,400.00	5,826.98	6,404.15	5,905.55	47.06	43.32	-150.56	-1,983.78	1,202.72	220.09	161.65	58.45	3.766	
6,500.00	5,916.39	6,504.08	5,996.27	47.89	44.09	-150.55	-2,019.70	1,224.34	223.76	164.30	59.46	3.763	
6,600.00	6,005.80	6,604.01	6,086.98	48.72	44.86	-150.55	-2,055.62	1,245.96	227.43	166.96	60.47	3.761	
6,700.00	6,095.21	6,703.94	6,177.69	49.55	45.62	-150.54	-2,091.53	1,267.59	231.10	169.62	61.48	3.759	
6,800.00	6,184.62	6,803.88	6,268.41	50.37	46.39	-150.54	-2,127.45	1,289.21	234.77	172.27	62.49	3.757	
6,900.00	6,274.03	6,903.81	6,359.12	51.20	47.16	-150.53	-2,163.37	1,310.84	238.44	174.93	63.51	3.755	
7,000.00	6,363.44	7,003.74	6,449.83	52.03	47.93	-150.52	-2,199.28	1,332.46	242.10	177.59	64.52	3.752	
7,063.95	6,420.62	7,065.37	6,505.82	52.56	48.39	-150.53	-2,221.34	1,345.74	244.56	179.43	65.13	3.755	
7,100.00	6,453.00	7,099.99	6,537.53	52.86	48.64	-150.60	-2,233.24	1,352.91	246.19	180.76	65.43	3.763	
7,200.00	6,544.33	7,187.79	6,619.03	53.61	49.20	-150.76	-2,261.20	1,369.74	250.31	184.21	66.10	3.787	
7,300.00	6,637.66	7,277.61	6,703.88	54.29	49.70	-150.88	-2,286.45	1,384.94	253.88	187.18	66.69	3.807	
7,400.00	6,732.74	7,367.33	6,789.91	54.88	50.13	-150.98	-2,308.23	1,398.05	256.88	189.70	67.18	3.824	
7,500.00	6,829.31	7,456.96	6,876.96	55.39	50.49	-151.04	-2,326.51	1,409.06	259.32	191.75	67.57	3.838	
7,600.00	6,927.11	7,546.52	6,964.84	55.83	50.78	-151.09	-2,341.26	1,417.94	261.18	193.32	67.86	3.849	
7,700.00	7,025.86	7,636.03	7,053.38	56.19	51.00	-151.10	-2,352.46	1,424.68	262.45	194.41	68.05	3.857	
7,800.00	7,125.29	7,725.52	7,142.41	56.49	51.16	-151.09	-2,360.09	1,429.28	263.15	195.01	68.14	3.862	
7,900.00	7,225.14	7,814.99	7,231.76	56.72	51.24	-151.05	-2,364.14	1,431.72	263.26	195.12	68.14	3.864	
7,950.85	7,275.99	7,860.49	7,277.25	56.81	51.26	0.42	-2,364.82	1,432.13	263.09	194.99	68.10	3.863	
7,962.55	7,287.68	7,871.23	7,287.99	56.82	51.27	124.12	-2,364.85	1,432.14	263.07	194.97	68.10	3.863	
7,979.74	7,304.88	7,888.14	7,304.89	56.85	51.28	124.13	-2,364.85	1,432.14	263.10	194.95	68.15	3.861	
8,000.00	7,325.14	7,908.40	7,325.15	56.88	51.29	124.15	-2,364.85	1,432.14	263.16	194.93	68.22	3.857	
8,100.00	7,425.13	8,008.45	7,425.21	57.03	51.33	124.23	-2,364.87	1,432.11	263.42	194.82	68.60	3.840	
8,200.00	7,525.13	8,108.50	7,525.26	57.19	51.38	124.31	-2,364.90	1,432.05	263.67	194.69	68.98	3.822	
8,300.00	7,625.13	8,208.55	7,625.31	57.35	51.43	124.38	-2,364.96	1,431.96	263.90	194.55	69.35	3.805	
8,400.00	7,725.13	8,308.60	7,725.36	57.51	51.48	124.44	-2,365.03	1,431.83	264.11	194.40	69.71	3.789	
8,500.00	7,825.13	8,408.66	7,825.41	57.67	51.53	124.50	-2,365.13	1,431.67	264.30	194.23	70.07	3.772	
8,600.00	7,925.13	8,508.71	7,925.46	57.83	51.58	124.55	-2,365.24	1,431.48	264.47	194.05	70.42	3.755	
8,700.00	8,025.13	8,608.76	8,025.51	57.99	51.63	124.59	-2,365.37	1,431.26	264.62	193.85	70.77	3.739	
8,800.00	8,125.13	8,708.81	8,125.56	58.16	51.68	124.62	-2,365.52	1,431.00	264.75	193.64	71.11	3.723	
8,900.00	8,225.12	8,808.86	8,225.62	58.33	51.73	124.65	-2,365.69	1,430.71	264.86	193.41	71.45	3.707	
9,000.00	8,325.12	8,908.92	8,325.67	58.50	51.78	124.67	-2,365.88	1,430.39	264.95	193.17	71.78	3.691	
9,100.00	8,425.12	9,008.97	8,425.72	58.67	51.83	124.68	-2,366.09	1,430.04	265.02	192.92	72.10	3.676	
9,200.00	8,525.12	9,109.02	8,525.77	58.84	51.89	124.69	-2,366.32	1,429.65	265.07	192.65	72.42	3.660	
9,300.00	8,625.12	9,209.07	8,625.82	59.02	51.94	124.69	-2,366.57	1,429.23	265.11	192.37	72.74	3.645	
9,400.00	8,725.12	9,309.13	8,725.87	59.19	52.00	124.68	-2,366.84	1,428.78	265.12	192.07	73.05	3.629	
9,500.00	8,825.12	9,409.18	8,825.92	59.37	52.05	124.67	-2,367.12	1,428.29	265.11	191.75	73.36	3.614	
9,600.00	8,925.12	9,509.23	8,925.97	59.55	52.10	124.65	-2,367.43	1,427.77	265.08	191.43	73.66	3.599	
9,700.00	9,025.11	9,609.28	9,026.02	59.73	52.16	124.62	-2,367.75	1,427.22	265.04	191.08	73.95	3.584	
9,800.00	9,125.11	9,709.34	9,126.07	59.91	52.22	124.59	-2,368.10	1,426.64	264.97	190.72	74.25	3.569	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13B-03 H04 596 - DD - Plan #3												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
9,900.00	9,225.11	9,809.39	9,226.12	60.10	52.27	124.54	-2,368.46	1,426.03	264.88	190.35	74.53	3.554	
10,000.00	9,325.11	9,909.42	9,326.16	60.28	52.33	124.50	-2,368.84	1,425.38	264.78	189.96	74.81	3.539	
10,100.00	9,425.11	10,009.42	9,426.15	60.47	52.39	124.45	-2,369.23	1,424.72	264.67	189.57	75.10	3.524	
10,200.00	9,525.11	10,109.42	9,526.15	60.66	52.45	124.39	-2,369.61	1,424.07	264.56	189.18	75.38	3.510	
10,300.00	9,625.11	10,209.42	9,626.15	60.85	52.50	124.34	-2,370.00	1,423.42	264.45	188.78	75.67	3.495	
10,400.00	9,725.11	10,309.42	9,726.14	61.04	52.56	124.29	-2,370.39	1,422.76	264.34	188.38	75.95	3.480	
10,500.00	9,825.10	10,409.42	9,826.14	61.24	52.62	124.24	-2,370.77	1,422.11	264.23	187.98	76.25	3.465	
10,600.00	9,925.10	10,509.42	9,926.14	61.43	52.68	124.19	-2,371.16	1,421.45	264.12	187.58	76.54	3.451	
10,700.00	10,025.10	10,609.42	10,026.14	61.63	52.75	124.14	-2,371.55	1,420.80	264.01	187.18	76.84	3.436	
10,800.00	10,125.10	10,709.42	10,126.13	61.82	52.81	124.09	-2,371.93	1,420.14	263.91	186.77	77.14	3.421	
10,900.00	10,225.10	10,809.42	10,226.13	62.02	52.87	124.04	-2,372.32	1,419.49	263.80	186.36	77.44	3.407	
11,000.00	10,325.10	10,909.42	10,326.13	62.23	52.93	123.99	-2,372.71	1,418.84	263.69	185.95	77.74	3.392	
11,100.00	10,425.10	11,009.42	10,426.12	62.43	52.99	123.94	-2,373.09	1,418.18	263.58	185.53	78.05	3.377	
11,200.00	10,525.10	11,109.42	10,526.12	62.63	53.06	123.89	-2,373.48	1,417.53	263.47	185.12	78.36	3.362	
11,300.00	10,625.09	11,209.42	10,626.12	62.84	53.12	123.84	-2,373.86	1,416.87	263.37	184.70	78.67	3.348	
11,400.00	10,725.09	11,309.42	10,726.11	63.04	53.18	123.79	-2,374.25	1,416.22	263.26	184.28	78.98	3.333	
11,500.00	10,825.09	11,409.42	10,826.11	63.25	53.25	123.73	-2,374.64	1,415.56	263.15	183.85	79.30	3.319	
11,540.89	10,865.98	11,450.31	10,867.00	63.34	53.28	123.71	-2,374.80	1,415.30	263.11	183.68	79.43	3.313	
11,600.00	10,925.09	11,509.42	10,926.11	63.46	53.31	123.68	-2,375.02	1,414.91	263.05	183.43	79.62	3.304	
11,700.00	11,025.09	11,609.42	11,026.10	63.67	53.38	123.63	-2,375.41	1,414.26	262.94	183.00	79.94	3.289	
11,800.00	11,125.09	11,709.42	11,126.10	63.88	53.45	123.58	-2,375.80	1,413.60	262.83	182.57	80.26	3.275	
11,900.00	11,225.09	11,809.42	11,226.10	64.09	53.51	123.53	-2,376.18	1,412.95	262.73	182.14	80.58	3.260	
12,000.00	11,325.09	11,909.42	11,326.09	64.31	53.58	123.48	-2,376.57	1,412.29	262.62	181.71	80.91	3.246	
12,100.00	11,425.08	12,009.42	11,426.09	64.52	53.65	123.43	-2,376.96	1,411.64	262.52	181.28	81.24	3.231	
12,200.00	11,525.08	12,109.42	11,526.09	64.74	53.72	123.38	-2,377.34	1,410.98	262.41	180.84	81.57	3.217	
12,300.00	11,625.08	12,209.42	11,626.08	64.96	53.79	123.32	-2,377.73	1,410.33	262.30	180.40	81.90	3.203	
12,400.00	11,725.08	12,309.42	11,726.08	65.18	53.85	123.27	-2,378.11	1,409.67	262.20	179.96	82.24	3.188	
12,500.00	11,825.08	12,409.42	11,826.08	65.40	53.92	123.22	-2,378.50	1,409.02	262.09	179.52	82.58	3.174	
12,600.00	11,925.08	12,509.42	11,926.07	65.62	53.99	123.17	-2,378.89	1,408.37	261.99	179.08	82.91	3.160	
12,700.00	12,025.08	12,609.42	12,026.07	65.84	54.07	123.12	-2,379.27	1,407.71	261.89	178.63	83.26	3.146	
12,800.00	12,125.07	12,709.42	12,126.07	66.07	54.14	123.07	-2,379.66	1,407.06	261.78	178.18	83.60	3.131	
12,900.00	12,225.07	12,809.41	12,226.06	66.29	54.21	123.01	-2,380.05	1,406.40	261.68	177.73	83.94	3.117	
13,005.64	12,330.71	12,915.05	12,331.70	66.53	54.28	122.96	-2,380.45	1,405.71	261.57	177.26	84.31	3.102 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13D-03 H04 596 - DD - Plan #2													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		
0.00	0.00	0.00	0.00	0.00	0.00	-161.38	-9.29	-3.13	9.80					
100.00	100.00	100.00	100.00	0.12	0.12	-161.38	-9.29	-3.13	9.80	9.56	0.24	41.340		
200.00	200.00	200.00	200.00	0.48	0.29	-161.38	-9.29	-3.13	9.80	9.03	0.77	12.725		
300.00	300.00	300.00	300.00	0.84	0.47	-161.38	-9.29	-3.13	9.80	8.50	1.30	7.520		
304.67	304.67	304.67	304.67	0.85	0.47	-161.38	-9.29	-3.13	9.80	8.47	1.33	7.379 CC		
400.00	400.00	399.81	399.80	1.20	0.64	-163.94	-9.87	-2.84	10.27	8.42	1.85	5.556 ES		
500.00	499.95	499.31	499.16	1.54	0.83	36.79	-14.51	-0.53	12.37	9.91	2.46	5.031		
600.00	599.63	598.68	597.98	1.89	1.06	32.01	-23.76	4.07	14.70	11.58	3.12	4.712		
700.00	698.77	697.92	696.00	2.24	1.36	29.17	-37.59	10.94	17.16	13.34	3.82	4.496		
800.00	797.08	797.03	792.96	2.63	1.73	27.60	-55.92	20.05	19.70	15.16	4.54	4.341		
900.00	894.31	896.01	888.60	3.06	2.19	26.87	-78.71	31.37	22.29	17.01	5.28	4.219		
1,000.00	990.18	994.87	982.68	3.54	2.75	26.72	-105.86	44.86	24.91	18.85	6.06	4.114		
1,100.00	1,084.43	1,093.60	1,074.95	4.08	3.39	27.00	-137.29	60.48	27.55	20.69	6.87	4.013		
1,200.00	1,176.81	1,192.22	1,165.18	4.69	4.12	27.58	-172.91	78.18	30.21	22.49	7.73	3.909		
1,286.90	1,255.36	1,277.82	1,241.75	5.28	4.82	28.27	-207.17	95.21	32.54	24.01	8.53	3.813		
1,300.00	1,267.08	1,290.72	1,253.14	5.38	4.93	28.35	-212.60	97.91	32.93	24.28	8.66	3.805		
1,400.00	1,356.49	1,390.56	1,340.97	6.11	5.77	28.49	-255.12	119.04	36.49	27.02	9.47	3.854		
1,500.00	1,445.90	1,490.50	1,428.88	6.86	6.61	28.60	-297.69	140.19	40.06	29.75	10.31	3.887		
1,600.00	1,535.31	1,590.43	1,516.78	7.63	7.47	28.69	-340.25	161.34	43.63	32.46	11.17	3.905		
1,700.00	1,624.72	1,690.37	1,604.69	8.42	8.32	28.77	-382.82	182.50	47.20	35.14	12.06	3.914		
1,800.00	1,714.13	1,790.31	1,692.60	9.21	9.18	28.83	-425.39	203.65	50.77	37.81	12.96	3.917		
1,900.00	1,803.54	1,890.24	1,780.51	10.00	10.03	28.89	-467.95	224.81	54.34	40.46	13.88	3.915		
2,000.00	1,892.95	1,990.18	1,868.42	10.81	10.89	28.94	-510.52	245.96	57.91	43.10	14.81	3.910		
2,100.00	1,982.36	2,090.11	1,956.32	11.61	11.75	28.98	-553.09	267.11	61.48	45.73	15.75	3.904		
2,200.00	2,071.77	2,190.05	2,044.23	12.42	12.61	29.02	-595.66	288.27	65.05	48.35	16.70	3.896		
2,300.00	2,161.18	2,289.99	2,132.14	13.23	13.47	29.06	-638.22	309.42	68.62	50.97	17.65	3.888		
2,400.00	2,250.59	2,389.92	2,220.05	14.05	14.34	29.09	-680.79	330.57	72.19	53.58	18.61	3.879		
2,500.00	2,340.00	2,489.86	2,307.96	14.86	15.20	29.12	-723.36	351.73	75.76	56.18	19.58	3.870		
2,600.00	2,429.41	2,589.80	2,395.86	15.68	16.06	29.15	-765.92	372.88	79.33	58.78	20.55	3.861		
2,700.00	2,518.82	2,689.73	2,483.77	16.50	16.93	29.17	-808.49	394.04	82.90	61.38	21.52	3.852		
2,800.00	2,608.23	2,789.67	2,571.68	17.32	17.79	29.19	-851.06	415.19	86.47	63.97	22.50	3.843		
2,900.00	2,697.64	2,889.60	2,659.59	18.14	18.65	29.21	-893.63	436.34	90.04	66.56	23.48	3.835		
3,000.00	2,787.05	2,989.54	2,747.50	18.96	19.52	29.23	-936.19	457.50	93.61	69.15	24.46	3.827		
3,100.00	2,876.46	3,089.48	2,835.40	19.78	20.38	29.25	-978.76	478.65	97.18	71.73	25.45	3.819		
3,200.00	2,965.87	3,189.41	2,923.31	20.60	21.24	29.26	-1,021.33	499.80	100.75	74.31	26.44	3.811		
3,300.00	3,055.28	3,289.35	3,011.22	21.42	22.11	29.28	-1,063.89	520.96	104.32	76.89	27.43	3.804		
3,400.00	3,144.69	3,389.29	3,099.13	22.25	22.97	29.29	-1,106.46	542.11	107.89	79.47	28.42	3.797		
3,500.00	3,234.10	3,489.22	3,187.04	23.07	23.84	29.31	-1,149.03	563.26	111.46	82.05	29.41	3.790		
3,600.00	3,323.51	3,589.16	3,274.94	23.90	24.70	29.32	-1,191.60	584.42	115.03	84.63	30.40	3.783		
3,700.00	3,412.92	3,689.09	3,362.85	24.72	25.57	29.33	-1,234.16	605.57	118.60	87.20	31.40	3.777		
3,800.00	3,502.33	3,789.03	3,450.76	25.55	26.43	29.34	-1,276.73	626.73	122.17	89.78	32.39	3.771		
3,900.00	3,591.74	3,888.97	3,538.67	26.37	27.30	29.35	-1,319.30	647.88	125.74	92.35	33.39	3.766		
4,000.00	3,681.15	3,988.90	3,626.58	27.20	28.16	29.36	-1,361.86	669.03	129.31	94.92	34.39	3.760		
4,100.00	3,770.56	4,088.84	3,714.48	28.02	29.03	29.37	-1,404.43	690.19	132.88	97.49	35.39	3.755		
4,200.00	3,859.97	4,188.78	3,802.39	28.85	29.89	29.38	-1,447.00	711.34	136.45	100.06	36.39	3.750		
4,300.00	3,949.38	4,288.71	3,890.30	29.68	30.76	29.39	-1,489.57	732.49	140.02	102.63	37.39	3.745		
4,400.00	4,038.79	4,388.65	3,978.21	30.50	31.62	29.40	-1,532.13	753.65	143.59	105.20	38.39	3.740		
4,500.00	4,128.20	4,488.58	4,066.12	31.33	32.49	29.40	-1,574.70	774.80	147.16	107.77	39.39	3.736		
4,600.00	4,217.61	4,588.52	4,154.02	32.16	33.35	29.41	-1,617.27	795.96	150.73	110.33	40.40	3.731		
4,700.00	4,307.02	4,688.46	4,241.93	32.98	34.22	29.42	-1,659.83	817.11	154.30	112.90	41.40	3.727		
4,800.00	4,396.43	4,788.39	4,329.84	33.81	35.08	29.42	-1,702.40	838.26	157.87	115.47	42.40	3.723		
4,900.00	4,485.83	4,888.33	4,417.75	34.64	35.95	29.43	-1,744.97	859.42	161.44	118.03	43.41	3.719		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13D-03 H04 596 - DD - Plan #2												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
5,000.00	4,575.24	4,988.27	4,505.66	35.47	36.81	29.44	-1,787.54	880.57	165.01	120.60	44.41	3.715	
5,100.00	4,664.65	5,088.20	4,593.56	36.29	37.68	29.44	-1,830.10	901.72	168.58	123.16	45.42	3.712	
5,200.00	4,754.06	5,188.14	4,681.47	37.12	38.54	29.45	-1,872.67	922.88	172.15	125.73	46.42	3.708	
5,300.00	4,843.47	5,288.07	4,769.38	37.95	39.41	29.45	-1,915.24	944.03	175.72	128.29	47.43	3.705	
5,400.00	4,932.88	5,388.01	4,857.29	38.78	40.27	29.46	-1,957.80	965.18	179.29	130.86	48.44	3.702	
5,500.00	5,022.29	5,487.95	4,945.20	39.61	41.14	29.46	-2,000.37	986.34	182.86	133.42	49.44	3.699	
5,600.00	5,111.70	5,587.88	5,033.10	40.43	42.00	29.47	-2,042.94	1,007.49	186.43	135.98	50.45	3.695	
5,700.00	5,201.11	5,687.82	5,121.01	41.26	42.87	29.47	-2,085.51	1,028.65	190.00	138.55	51.46	3.693	
5,800.00	5,290.52	5,787.76	5,208.92	42.09	43.73	29.47	-2,128.07	1,049.80	193.57	141.11	52.46	3.690	
5,900.00	5,379.93	5,887.69	5,296.83	42.92	44.60	29.48	-2,170.64	1,070.95	197.14	143.67	53.47	3.687	
6,000.00	5,469.34	5,987.63	5,384.74	43.75	45.46	29.48	-2,213.21	1,092.11	200.71	146.23	54.48	3.684	
6,100.00	5,558.75	6,087.56	5,472.64	44.57	46.33	29.49	-2,255.77	1,113.26	204.28	148.80	55.49	3.682	
6,200.00	5,648.16	6,187.50	5,560.55	45.40	47.19	29.49	-2,298.34	1,134.41	207.85	151.36	56.49	3.679	
6,300.00	5,737.57	6,287.44	5,648.46	46.23	48.06	29.49	-2,340.91	1,155.57	211.42	153.92	57.50	3.677	
6,400.00	5,826.98	6,387.37	5,736.37	47.06	48.93	29.50	-2,383.47	1,176.72	214.99	156.48	58.51	3.674	
6,500.00	5,916.39	6,487.31	5,824.28	47.89	49.79	29.50	-2,426.04	1,197.88	218.56	159.04	59.52	3.672	
6,600.00	6,005.80	6,587.25	5,912.18	48.72	50.66	29.50	-2,468.61	1,219.03	222.13	161.60	60.53	3.670	
6,700.00	6,095.21	6,687.18	6,000.09	49.55	51.52	29.51	-2,511.18	1,240.18	225.70	164.16	61.54	3.668	
6,800.00	6,184.62	6,787.12	6,088.00	50.37	52.39	29.51	-2,553.74	1,261.34	229.27	166.73	62.55	3.666	
6,900.00	6,274.03	6,887.05	6,175.91	51.20	53.25	29.51	-2,596.31	1,282.49	232.84	169.29	63.56	3.664	
7,000.00	6,363.44	6,986.99	6,263.82	52.03	54.12	29.52	-2,638.88	1,303.64	236.41	171.85	64.57	3.662	
7,063.95	6,420.62	7,050.90	6,320.03	52.56	54.67	29.52	-2,666.10	1,317.17	238.70	173.48	65.21	3.660	
7,100.00	6,453.00	7,086.91	6,351.71	52.86	54.98	29.50	-2,681.44	1,324.79	240.28	174.75	65.53	3.667	
7,200.00	6,544.33	7,198.06	6,450.68	53.61	55.86	29.29	-2,726.70	1,347.29	245.71	179.42	66.29	3.706	
7,300.00	6,637.66	7,310.99	6,554.07	54.29	56.64	29.11	-2,767.36	1,367.49	250.51	183.57	66.94	3.742	
7,400.00	6,732.74	7,424.25	6,660.27	54.88	57.31	28.96	-2,802.57	1,384.99	254.61	187.16	67.45	3.775	
7,500.00	6,829.31	7,537.79	6,768.88	55.39	57.86	28.85	-2,832.15	1,399.69	258.01	190.18	67.83	3.804	
7,600.00	6,927.11	7,651.55	6,879.48	55.83	58.31	28.77	-2,855.94	1,411.51	260.67	192.60	68.07	3.829	
7,700.00	7,025.86	7,765.49	6,991.64	56.19	58.64	28.72	-2,873.81	1,420.39	262.60	194.43	68.17	3.852	
7,800.00	7,125.29	7,879.54	7,104.90	56.49	58.86	28.69	-2,885.67	1,426.29	263.79	195.65	68.14	3.871	
7,900.00	7,225.14	7,993.65	7,218.81	56.72	58.97	28.70	-2,891.46	1,429.16	264.23	196.24	67.98	3.887	
7,950.85	7,275.99	8,050.83	7,275.98	56.81	59.00	-179.84	-2,892.07	1,429.47	264.17	196.28	67.89	3.891	
7,971.36	7,296.50	8,071.33	7,296.48	56.84	59.01	-56.16	-2,892.07	1,429.47	264.15	196.21	67.94	3.888	
7,979.74	7,304.88	8,079.71	7,304.86	56.85	59.01	-56.17	-2,892.07	1,429.47	264.13	196.17	67.96	3.887	
8,000.00	7,325.14	8,099.95	7,325.11	56.88	59.02	-56.19	-2,892.07	1,429.46	264.08	196.08	68.00	3.884	
8,100.00	7,425.13	8,199.90	7,425.05	57.03	59.06	-56.27	-2,892.10	1,429.43	263.82	195.63	68.19	3.869	
8,200.00	7,525.13	8,299.84	7,524.99	57.19	59.10	-56.35	-2,892.14	1,429.36	263.58	195.19	68.40	3.854	
8,300.00	7,625.13	8,399.78	7,624.94	57.35	59.15	-56.42	-2,892.20	1,429.27	263.37	194.76	68.61	3.838	
8,400.00	7,725.13	8,499.73	7,724.88	57.51	59.19	-56.48	-2,892.29	1,429.14	263.17	194.33	68.84	3.823	
8,500.00	7,825.13	8,599.67	7,824.82	57.67	59.24	-56.54	-2,892.39	1,428.98	263.00	193.92	69.08	3.807	
8,600.00	7,925.13	8,699.62	7,924.77	57.83	59.28	-56.59	-2,892.52	1,428.79	262.85	193.52	69.33	3.792	
8,700.00	8,025.13	8,799.56	8,024.71	57.99	59.33	-56.63	-2,892.67	1,428.56	262.72	193.13	69.59	3.775	
8,800.00	8,125.13	8,899.51	8,124.66	58.16	59.37	-56.66	-2,892.84	1,428.31	262.61	192.75	69.86	3.759	
8,900.00	8,225.12	8,999.45	8,224.60	58.33	59.42	-56.69	-2,893.03	1,428.02	262.52	192.38	70.14	3.743	
9,000.00	8,325.12	9,099.40	8,324.55	58.50	59.47	-56.72	-2,893.24	1,427.70	262.45	192.02	70.43	3.727	
9,100.00	8,425.12	9,199.34	8,424.49	58.67	59.51	-56.73	-2,893.47	1,427.35	262.40	191.67	70.73	3.710	
9,200.00	8,525.12	9,299.29	8,524.44	58.84	59.56	-56.74	-2,893.72	1,426.97	262.38	191.34	71.04	3.693	
9,277.57	8,602.69	9,376.81	8,601.96	58.98	59.60	-56.74	-2,893.93	1,426.65	262.37	191.08	71.29	3.680	
9,300.00	8,625.12	9,399.24	8,624.38	59.02	59.61	-56.74	-2,894.00	1,426.56	262.37	191.01	71.36	3.677	
9,400.00	8,725.12	9,499.18	8,724.33	59.19	59.66	-56.73	-2,894.29	1,426.11	262.39	190.69	71.70	3.660	
9,500.00	8,825.12	9,599.13	8,824.27	59.37	59.71	-56.72	-2,894.61	1,425.63	262.42	190.38	72.04	3.643	
9,600.00	8,925.12	9,699.07	8,924.21	59.55	59.76	-56.70	-2,894.95	1,425.12	262.48	190.09	72.39	3.626	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13D-03 H04 596 - DD - Plan #2													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	9,025.11	9,799.02	9,024.16	59.73	59.81	-56.68	-2,895.30	1,424.58	262.56	189.81	72.75	3.609		
9,800.00	9,125.11	9,899.02	9,124.16	59.91	59.86	-56.65	-2,895.67	1,424.03	262.64	189.53	73.12	3.592		
9,900.00	9,225.11	9,999.02	9,224.15	60.10	59.91	-56.62	-2,896.04	1,423.47	262.73	189.25	73.48	3.575		
10,000.00	9,325.11	10,099.02	9,324.15	60.28	59.96	-56.59	-2,896.40	1,422.92	262.82	188.96	73.85	3.559		
10,100.00	9,425.11	10,199.02	9,424.15	60.47	60.02	-56.56	-2,896.77	1,422.36	262.90	188.68	74.22	3.542		
10,200.00	9,525.11	10,299.02	9,524.15	60.66	60.07	-56.53	-2,897.14	1,421.81	262.99	188.39	74.60	3.526		
10,300.00	9,625.11	10,399.02	9,624.15	60.85	60.12	-56.50	-2,897.51	1,421.25	263.08	188.11	74.97	3.509		
10,400.00	9,725.11	10,499.02	9,724.14	61.04	60.18	-56.47	-2,897.87	1,420.70	263.16	187.82	75.35	3.493		
10,500.00	9,825.10	10,599.02	9,824.14	61.24	60.23	-56.44	-2,898.24	1,420.14	263.25	187.53	75.73	3.476		
10,600.00	9,925.10	10,699.02	9,924.14	61.43	60.29	-56.41	-2,898.61	1,419.59	263.34	187.23	76.11	3.460		
10,700.00	10,025.10	10,799.02	10,024.14	61.63	60.34	-56.38	-2,898.97	1,419.03	263.43	186.94	76.49	3.444		
10,800.00	10,125.10	10,899.02	10,124.13	61.82	60.40	-56.35	-2,899.34	1,418.48	263.51	186.64	76.87	3.428		
10,900.00	10,225.10	10,999.02	10,224.13	62.02	60.46	-56.32	-2,899.71	1,417.92	263.60	186.34	77.26	3.412		
11,000.00	10,325.10	11,099.02	10,324.13	62.23	60.51	-56.29	-2,900.08	1,417.37	263.69	186.04	77.65	3.396		
11,100.00	10,425.10	11,199.02	10,424.13	62.43	60.57	-56.26	-2,900.44	1,416.82	263.78	185.74	78.04	3.380		
11,200.00	10,525.10	11,299.02	10,524.12	62.63	60.63	-56.23	-2,900.81	1,416.26	263.86	185.43	78.43	3.364		
11,300.00	10,625.09	11,399.02	10,624.12	62.84	60.69	-56.20	-2,901.18	1,415.71	263.95	185.13	78.82	3.349		
11,400.00	10,725.09	11,499.02	10,724.12	63.04	60.74	-56.17	-2,901.54	1,415.15	264.04	184.82	79.22	3.333		
11,500.00	10,825.09	11,599.02	10,824.12	63.25	60.80	-56.15	-2,901.91	1,414.60	264.13	184.51	79.61	3.318		
11,540.89	10,865.98	11,639.91	10,865.00	63.34	60.83	-56.13	-2,902.06	1,414.37	264.16	184.39	79.78	3.311		
11,600.00	10,925.09	11,699.02	10,924.12	63.46	60.86	-56.12	-2,902.28	1,414.04	264.21	184.20	80.01	3.302		
11,700.00	11,025.09	11,799.02	11,024.11	63.67	60.92	-56.09	-2,902.65	1,413.49	264.30	183.89	80.41	3.287		
11,800.00	11,125.09	11,899.02	11,124.11	63.88	60.98	-56.06	-2,903.01	1,412.93	264.39	183.58	80.81	3.272		
11,900.00	11,225.09	11,999.02	11,224.11	64.09	61.04	-56.03	-2,903.38	1,412.38	264.48	183.26	81.21	3.257		
12,000.00	11,325.09	12,099.02	11,324.11	64.31	61.11	-56.00	-2,903.75	1,411.82	264.57	182.95	81.62	3.242		
12,100.00	11,425.08	12,199.02	11,424.10	64.52	61.17	-55.97	-2,904.11	1,411.27	264.65	182.63	82.02	3.227		
12,200.00	11,525.08	12,299.02	11,524.10	64.74	61.23	-55.94	-2,904.48	1,410.71	264.74	182.31	82.43	3.212		
12,300.00	11,625.08	12,399.02	11,624.10	64.96	61.29	-55.91	-2,904.85	1,410.16	264.83	181.99	82.84	3.197		
12,400.00	11,725.08	12,499.02	11,724.10	65.18	61.36	-55.88	-2,905.22	1,409.60	264.92	181.67	83.25	3.182		
12,500.00	11,825.08	12,599.02	11,824.09	65.40	61.42	-55.85	-2,905.58	1,409.05	265.01	181.35	83.66	3.168		
12,600.00	11,925.08	12,699.02	11,924.09	65.62	61.48	-55.82	-2,905.95	1,408.49	265.10	181.02	84.07	3.153		
12,700.00	12,025.08	12,799.02	12,024.09	65.84	61.55	-55.80	-2,906.32	1,407.94	265.18	180.70	84.49	3.139		
12,800.00	12,125.07	12,899.02	12,124.09	66.07	61.61	-55.77	-2,906.68	1,407.38	265.27	180.37	84.90	3.125		
12,900.00	12,225.07	12,999.02	12,224.08	66.29	61.68	-55.74	-2,907.05	1,406.83	265.36	180.04	85.32	3.110 SF		
13,005.64	12,330.71	12,999.97	12,225.04	66.53	61.68	-55.74	-2,907.05	1,406.82	285.35	200.68	84.67	3.370		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13E-03 H04 596 - DD - Plan #2													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				
0.00	0.00	0.00	0.00	0.00	0.00	-164.23	-19.40	-5.48	20.15							
100.00	100.00	100.00	100.00	0.12	0.12	-164.23	-19.40	-5.48	20.15	19.92	0.24	85.026				
200.00	200.00	200.00	200.00	0.48	0.29	-164.23	-19.40	-5.48	20.15	19.38	0.77	26.172				
216.67	216.67	216.67	216.67	0.54	0.32	-164.23	-19.40	-5.48	20.15	19.29	0.86	23.465 CC				
300.00	300.00	300.00	300.00	0.84	0.47	-164.23	-19.40	-5.48	20.15	18.85	1.30	15.466 ES				
400.00	400.00	399.11	399.07	1.20	0.65	-168.54	-21.73	-4.41	22.20	20.30	1.90	11.710				
500.00	499.95	497.92	497.56	1.54	0.86	33.78	-28.71	-1.22	26.64	24.08	2.55	10.436				
600.00	599.63	596.46	595.27	1.89	1.12	29.98	-40.28	4.07	31.41	28.17	3.24	9.701				
700.00	698.77	694.75	691.94	2.24	1.46	27.75	-56.36	11.43	36.36	32.41	3.95	9.215				
800.00	797.08	792.78	787.33	2.63	1.88	26.54	-76.89	20.81	41.41	36.74	4.67	8.869				
900.00	894.31	890.57	881.20	3.06	2.39	26.02	-101.78	32.19	46.51	41.10	5.41	8.599				
1,000.00	990.18	988.11	973.32	3.54	2.98	25.99	-130.92	45.51	51.65	45.48	6.17	8.367				
1,100.00	1,084.43	1,085.43	1,063.47	4.08	3.65	26.32	-164.22	60.74	56.80	49.83	6.97	8.148				
1,200.00	1,176.81	1,182.51	1,151.44	4.69	4.41	26.91	-201.55	77.81	61.97	54.15	7.82	7.928				
1,286.90	1,255.36	1,266.70	1,225.95	5.28	5.13	27.58	-237.19	94.10	66.46	57.86	8.60	7.726				
1,300.00	1,267.08	1,279.37	1,237.01	5.38	5.25	27.69	-242.81	96.67	67.18	58.45	8.72	7.702				
1,400.00	1,356.49	1,378.33	1,322.67	6.11	6.13	27.96	-287.86	117.27	73.99	64.45	9.55	7.751				
1,500.00	1,445.90	1,478.08	1,408.95	6.86	7.02	28.13	-333.40	138.09	80.97	70.60	10.37	7.809				
1,600.00	1,535.31	1,577.84	1,495.22	7.63	7.92	28.28	-378.95	158.91	87.94	76.72	11.22	7.839				
1,700.00	1,624.72	1,677.59	1,581.50	8.42	8.81	28.41	-424.49	179.74	94.92	82.83	12.09	7.849				
1,800.00	1,714.13	1,777.35	1,667.77	9.21	9.72	28.52	-470.04	200.56	101.90	88.91	12.99	7.846				
1,900.00	1,803.54	1,877.11	1,754.05	10.00	10.62	28.61	-515.58	221.38	108.87	94.98	13.90	7.835				
2,000.00	1,892.95	1,976.86	1,840.32	10.81	11.52	28.70	-561.13	242.21	115.85	101.03	14.82	7.818				
2,100.00	1,982.36	2,076.62	1,926.60	11.61	12.43	28.77	-606.67	263.03	122.82	107.07	15.75	7.798				
2,200.00	2,071.77	2,176.38	2,012.87	12.42	13.33	28.84	-652.22	283.85	129.80	113.11	16.69	7.776				
2,300.00	2,161.18	2,276.13	2,099.14	13.23	14.24	28.90	-697.77	304.68	136.78	119.14	17.64	7.753				
2,400.00	2,250.59	2,375.89	2,185.42	14.05	15.14	28.95	-743.31	325.50	143.76	125.16	18.60	7.729				
2,500.00	2,340.00	2,475.64	2,271.69	14.86	16.05	29.00	-788.86	346.32	150.73	131.17	19.56	7.706				
2,600.00	2,429.41	2,575.40	2,357.97	15.68	16.96	29.05	-834.40	367.15	157.71	137.18	20.53	7.682				
2,700.00	2,518.82	2,675.16	2,444.24	16.50	17.87	29.09	-879.95	387.97	164.69	143.19	21.50	7.659				
2,800.00	2,608.23	2,774.91	2,530.52	17.32	18.77	29.12	-925.49	408.79	171.67	149.19	22.48	7.637				
2,900.00	2,697.64	2,874.67	2,616.79	18.14	19.68	29.16	-971.04	429.62	178.64	155.19	23.46	7.616				
3,000.00	2,787.05	2,974.43	2,703.07	18.96	20.59	29.19	-1,016.58	450.44	185.62	161.18	24.44	7.595				
3,100.00	2,876.46	3,074.18	2,789.34	19.78	21.50	29.22	-1,062.13	471.26	192.60	167.18	25.42	7.576				
3,200.00	2,965.87	3,173.94	2,875.62	20.60	22.41	29.25	-1,107.67	492.09	199.58	173.17	26.41	7.557				
3,300.00	3,055.28	3,273.69	2,961.89	21.42	23.31	29.27	-1,153.22	512.91	206.55	179.15	27.40	7.538				
3,400.00	3,144.69	3,373.45	3,048.17	22.25	24.22	29.30	-1,198.76	533.73	213.53	185.14	28.39	7.521				
3,500.00	3,234.10	3,473.21	3,134.44	23.07	25.13	29.32	-1,244.31	554.55	220.51	191.13	29.38	7.504				
3,600.00	3,323.51	3,572.96	3,220.72	23.90	26.04	29.34	-1,289.85	575.38	227.49	197.11	30.38	7.488				
3,700.00	3,412.92	3,672.72	3,306.99	24.72	26.95	29.36	-1,335.40	596.20	234.47	203.09	31.38	7.473				
3,800.00	3,502.33	3,772.48	3,393.26	25.55	27.86	29.38	-1,380.94	617.02	241.44	209.07	32.37	7.458				
3,900.00	3,591.74	3,872.23	3,479.54	26.37	28.77	29.40	-1,426.49	637.85	248.42	215.05	33.37	7.444				
4,000.00	3,681.15	3,971.99	3,565.81	27.20	29.67	29.41	-1,472.04	658.67	255.40	221.03	34.37	7.431				
4,100.00	3,770.56	4,071.74	3,652.09	28.02	30.58	29.43	-1,517.58	679.49	262.38	227.01	35.37	7.418				
4,200.00	3,859.97	4,171.50	3,738.36	28.85	31.49	29.45	-1,563.13	700.32	269.36	232.98	36.37	7.406				
4,300.00	3,949.38	4,271.26	3,824.64	29.68	32.40	29.46	-1,608.67	721.14	276.33	238.96	37.37	7.394				
4,400.00	4,038.79	4,371.01	3,910.91	30.50	33.31	29.47	-1,654.22	741.96	283.31	244.94	38.38	7.382				
4,500.00	4,128.20	4,470.77	3,997.19	31.33	34.22	29.49	-1,699.76	762.79	290.29	250.91	39.38	7.371				
4,600.00	4,217.61	4,570.52	4,083.46	32.16	35.13	29.50	-1,745.31	783.61	297.27	256.88	40.39	7.361				
4,700.00	4,307.02	4,670.28	4,169.74	32.98	36.04	29.51	-1,790.85	804.43	304.25	262.86	41.39	7.351				
4,800.00	4,396.43	4,770.04	4,256.01	33.81	36.95	29.52	-1,836.40	825.26	311.23	268.83	42.40	7.341				
4,900.00	4,485.83	4,869.79	4,342.29	34.64	37.86	29.53	-1,881.94	846.08	318.20	274.80	43.40	7.331				

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13E-03 H04 596 - DD - Plan #2												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
5,000.00	4,575.24	4,969.55	4,428.56	35.47	38.76	29.54	-1,927.49	866.90	325.18	280.77	44.41	7.322	
5,100.00	4,664.65	5,069.31	4,514.83	36.29	39.67	29.55	-1,973.03	887.73	332.16	286.74	45.42	7.314	
5,200.00	4,754.06	5,169.06	4,601.11	37.12	40.58	29.56	-2,018.58	908.55	339.14	292.71	46.42	7.305	
5,300.00	4,843.47	5,268.82	4,687.38	37.95	41.49	29.57	-2,064.12	929.37	346.12	298.68	47.43	7.297	
5,400.00	4,932.88	5,368.57	4,773.66	38.78	42.40	29.58	-2,109.67	950.20	353.09	304.65	48.44	7.289	
5,500.00	5,022.29	5,468.33	4,859.93	39.61	43.31	29.59	-2,155.22	971.02	360.07	310.62	49.45	7.282	
5,600.00	5,111.70	5,568.09	4,946.21	40.43	44.22	29.60	-2,200.76	991.84	367.05	316.59	50.46	7.274	
5,700.00	5,201.11	5,667.84	5,032.48	41.26	45.13	29.60	-2,246.31	1,012.67	374.03	322.56	51.47	7.267	
5,800.00	5,290.52	5,767.60	5,118.76	42.09	46.04	29.61	-2,291.85	1,033.49	381.01	328.53	52.48	7.260	
5,900.00	5,379.93	5,867.36	5,205.03	42.92	46.95	29.62	-2,337.40	1,054.31	387.99	334.50	53.49	7.254	
6,000.00	5,469.34	5,967.11	5,291.31	43.75	47.86	29.62	-2,382.94	1,075.14	394.96	340.47	54.50	7.247	
6,100.00	5,558.75	6,066.87	5,377.58	44.57	48.77	29.63	-2,428.49	1,095.96	401.94	346.43	55.51	7.241	
6,200.00	5,648.16	6,166.62	5,463.86	45.40	49.68	29.64	-2,474.03	1,116.78	408.92	352.40	56.52	7.235	
6,300.00	5,737.57	6,266.38	5,550.13	46.23	50.59	29.64	-2,519.58	1,137.61	415.90	358.37	57.53	7.229	
6,400.00	5,826.98	6,366.14	5,636.41	47.06	51.50	29.65	-2,565.12	1,158.43	422.88	364.34	58.54	7.224	
6,500.00	5,916.39	6,465.89	5,722.68	47.89	52.41	29.66	-2,610.67	1,179.25	429.86	370.30	59.55	7.218	
6,600.00	6,005.80	6,565.65	5,808.95	48.72	53.31	29.66	-2,656.21	1,200.08	436.83	376.27	60.56	7.213	
6,700.00	6,095.21	6,665.41	5,895.23	49.55	54.22	29.67	-2,701.76	1,220.90	443.81	382.24	61.58	7.208	
6,800.00	6,184.62	6,765.16	5,981.50	50.37	55.13	29.67	-2,747.30	1,241.72	450.79	388.20	62.59	7.203	
6,900.00	6,274.03	6,864.92	6,067.78	51.20	56.04	29.68	-2,792.85	1,262.55	457.77	394.17	63.60	7.198	
7,000.00	6,363.44	6,964.67	6,154.05	52.03	56.95	29.68	-2,838.39	1,283.37	464.75	400.14	64.61	7.193	
7,063.95	6,420.62	7,028.47	6,209.23	52.56	57.53	29.69	-2,867.52	1,296.69	469.21	403.95	65.26	7.190	
7,100.00	6,453.00	7,064.41	6,240.31	52.86	57.86	29.71	-2,883.93	1,304.19	472.02	406.42	65.60	7.196	
7,200.00	6,544.33	7,168.90	6,330.75	53.61	58.80	29.60	-2,931.53	1,325.95	482.81	416.48	66.33	7.279	
7,300.00	6,637.66	7,297.96	6,445.18	54.29	59.84	29.35	-2,985.76	1,350.75	494.16	427.07	67.09	7.366	
7,400.00	6,732.74	7,428.19	6,564.46	54.88	60.73	29.15	-3,033.23	1,372.45	503.97	436.28	67.69	7.445	
7,500.00	6,829.31	7,559.42	6,687.98	55.39	61.48	28.99	-3,073.48	1,390.85	512.18	444.06	68.12	7.518	
7,600.00	6,927.11	7,691.51	6,815.08	55.83	62.09	28.87	-3,106.10	1,405.76	518.75	450.36	68.39	7.585	
7,700.00	7,025.86	7,824.25	6,944.99	56.19	62.54	28.78	-3,130.76	1,417.04	523.61	455.14	68.47	7.647	
7,800.00	7,125.29	7,957.46	7,076.95	56.49	62.83	28.74	-3,147.19	1,424.55	526.75	458.37	68.39	7.703	
7,900.00	7,225.14	8,090.94	7,210.10	56.72	62.98	28.72	-3,155.24	1,428.23	528.15	460.01	68.13	7.752	
7,950.85	7,275.99	8,156.83	7,275.98	56.81	63.01	-179.83	-3,156.09	1,428.62	528.19	460.20	67.99	7.769	
7,979.74	7,304.88	8,185.69	7,304.84	56.85	63.02	-56.15	-3,156.09	1,428.62	528.15	460.09	68.06	7.760	
8,000.00	7,325.14	8,205.92	7,325.07	56.88	63.03	-56.16	-3,156.09	1,428.62	528.10	459.98	68.11	7.753	
8,100.00	7,425.13	8,305.81	7,424.96	57.03	63.07	-56.20	-3,156.11	1,428.58	527.84	459.49	68.35	7.722	
8,200.00	7,525.13	8,405.70	7,524.85	57.19	63.11	-56.24	-3,156.16	1,428.52	527.60	459.00	68.60	7.691	
8,300.00	7,625.13	8,505.58	7,624.74	57.35	63.15	-56.27	-3,156.22	1,428.42	527.39	458.53	68.86	7.659	
8,400.00	7,725.13	8,605.47	7,724.62	57.51	63.19	-56.30	-3,156.31	1,428.29	527.19	458.07	69.12	7.627	
8,500.00	7,825.13	8,705.36	7,824.51	57.67	63.23	-56.33	-3,156.41	1,428.13	527.02	457.63	69.39	7.595	
8,600.00	7,925.13	8,805.25	7,924.40	57.83	63.28	-56.36	-3,156.54	1,427.94	526.87	457.20	69.67	7.563	
8,700.00	8,025.13	8,905.14	8,024.29	57.99	63.32	-56.38	-3,156.69	1,427.72	526.74	456.79	69.95	7.530	
8,800.00	8,125.13	9,005.02	8,124.18	58.16	63.36	-56.40	-3,156.86	1,427.47	526.63	456.39	70.24	7.498	
8,900.00	8,225.12	9,104.91	8,224.06	58.33	63.41	-56.41	-3,157.05	1,427.18	526.54	456.00	70.53	7.465	
9,000.00	8,325.12	9,204.80	8,323.95	58.50	63.45	-56.42	-3,157.26	1,426.87	526.47	455.63	70.84	7.432	
9,100.00	8,425.12	9,304.69	8,423.84	58.67	63.50	-56.43	-3,157.50	1,426.52	526.43	455.28	71.15	7.399	
9,200.00	8,525.12	9,404.58	8,523.73	58.84	63.54	-56.43	-3,157.75	1,426.14	526.40	454.94	71.46	7.366	
9,268.09	8,593.21	9,472.59	8,591.74	58.96	63.58	-56.43	-3,157.94	1,425.86	526.40	454.71	71.68	7.343	
9,300.00	8,625.12	9,504.47	8,623.62	59.02	63.59	-56.43	-3,158.03	1,425.73	526.40	454.61	71.79	7.333	
9,400.00	8,725.12	9,604.36	8,723.50	59.19	63.64	-56.43	-3,158.32	1,425.28	526.42	454.30	72.11	7.300	
9,500.00	8,825.12	9,704.25	8,823.39	59.37	63.69	-56.43	-3,158.64	1,424.81	526.45	454.01	72.45	7.267	
9,600.00	8,925.12	9,804.14	8,923.28	59.55	63.73	-56.42	-3,158.98	1,424.30	526.51	453.72	72.79	7.233	
9,700.00	9,025.11	9,904.03	9,023.17	59.73	63.78	-56.40	-3,159.34	1,423.76	526.59	453.46	73.14	7.200	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF13E-03 H04 596 - DD - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance				Total		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	Separation Factor		
9,800.00	9,125.11	10,004.03	9,123.17	59.91	63.83	-56.39	-3,159.71	1,423.21	526.68	453.20	73.48	7.167		
9,900.00	9,225.11	10,104.03	9,223.17	60.10	63.88	-56.37	-3,160.08	1,422.66	526.77	452.94	73.83	7.135		
10,000.00	9,325.11	10,204.03	9,323.17	60.28	63.93	-56.36	-3,160.45	1,422.11	526.86	452.68	74.19	7.102		
10,100.00	9,425.11	10,304.03	9,423.16	60.47	63.98	-56.35	-3,160.82	1,421.56	526.95	452.41	74.54	7.069		
10,200.00	9,525.11	10,404.03	9,523.16	60.66	64.03	-56.33	-3,161.19	1,421.00	527.04	452.14	74.90	7.037		
10,300.00	9,625.11	10,504.03	9,623.16	60.85	64.08	-56.32	-3,161.56	1,420.45	527.13	451.87	75.26	7.004		
10,400.00	9,725.11	10,604.03	9,723.16	61.04	64.14	-56.30	-3,161.93	1,419.90	527.22	451.60	75.62	6.972		
10,500.00	9,825.10	10,704.03	9,823.15	61.24	64.19	-56.29	-3,162.30	1,419.35	527.31	451.33	75.98	6.940		
10,600.00	9,925.10	10,804.03	9,923.15	61.43	64.24	-56.27	-3,162.67	1,418.80	527.40	451.05	76.35	6.908		
10,700.00	10,025.10	10,904.03	10,023.15	61.63	64.29	-56.26	-3,163.04	1,418.24	527.49	450.78	76.71	6.876		
10,800.00	10,125.10	11,004.03	10,123.15	61.82	64.35	-56.25	-3,163.41	1,417.69	527.58	450.50	77.08	6.844		
10,900.00	10,225.10	11,104.03	10,223.14	62.02	64.40	-56.23	-3,163.78	1,417.14	527.67	450.22	77.46	6.813		
11,000.00	10,325.10	11,204.03	10,323.14	62.23	64.46	-56.22	-3,164.15	1,416.59	527.76	449.93	77.83	6.781		
11,100.00	10,425.10	11,304.03	10,423.14	62.43	64.51	-56.20	-3,164.52	1,416.04	527.85	449.65	78.20	6.750		
11,200.00	10,525.10	11,404.03	10,523.14	62.63	64.57	-56.19	-3,164.89	1,415.48	527.94	449.36	78.58	6.719		
11,300.00	10,625.09	11,504.03	10,623.13	62.84	64.62	-56.17	-3,165.26	1,414.93	528.03	449.08	78.96	6.688		
11,400.00	10,725.09	11,604.03	10,723.13	63.04	64.68	-56.16	-3,165.63	1,414.38	528.12	448.79	79.34	6.657		
11,500.00	10,825.09	11,704.03	10,823.13	63.25	64.73	-56.14	-3,166.00	1,413.83	528.21	448.49	79.72	6.626		
11,540.89	10,865.98	11,744.92	10,864.02	63.34	64.76	-56.14	-3,166.15	1,413.60	528.25	448.37	79.88	6.613		
11,600.00	10,925.09	11,804.03	10,923.13	63.46	64.79	-56.13	-3,166.37	1,413.27	528.30	448.20	80.10	6.595		
11,700.00	11,025.09	11,904.03	11,023.13	63.67	64.85	-56.12	-3,166.74	1,412.72	528.39	447.91	80.49	6.565		
11,800.00	11,125.09	12,004.03	11,123.12	63.88	64.91	-56.10	-3,167.10	1,412.17	528.49	447.61	80.88	6.534		
11,900.00	11,225.09	12,104.03	11,223.12	64.09	64.96	-56.09	-3,167.47	1,411.62	528.58	447.31	81.27	6.504		
12,000.00	11,325.09	12,204.03	11,323.12	64.31	65.02	-56.07	-3,167.84	1,411.07	528.67	447.01	81.66	6.474		
12,100.00	11,425.08	12,304.03	11,423.12	64.52	65.08	-56.06	-3,168.21	1,410.51	528.76	446.71	82.05	6.444		
12,200.00	11,525.08	12,404.03	11,523.11	64.74	65.14	-56.04	-3,168.58	1,409.96	528.85	446.41	82.44	6.415		
12,300.00	11,625.08	12,504.03	11,623.11	64.96	65.20	-56.03	-3,168.95	1,409.41	528.94	446.10	82.84	6.385		
12,400.00	11,725.08	12,604.03	11,723.11	65.18	65.26	-56.02	-3,169.32	1,408.86	529.03	445.80	83.23	6.356		
12,500.00	11,825.08	12,704.03	11,823.11	65.40	65.32	-56.00	-3,169.69	1,408.31	529.12	445.49	83.63	6.327		
12,600.00	11,925.08	12,804.03	11,923.10	65.62	65.38	-55.99	-3,170.06	1,407.75	529.21	445.18	84.03	6.298		
12,700.00	12,025.08	12,904.03	12,023.10	65.84	65.44	-55.97	-3,170.43	1,407.20	529.30	444.87	84.43	6.269		
12,702.63	12,027.70	12,906.65	12,025.73	65.85	65.45	-55.97	-3,170.44	1,407.19	529.30	444.86	84.44	6.268		
12,800.00	12,125.07	12,999.97	12,119.05	66.07	65.50	-55.96	-3,170.79	1,406.67	529.41	444.49	84.92	6.234 SF		
12,900.00	12,225.07	12,999.97	12,119.05	66.29	65.50	-55.96	-3,170.79	1,406.67	539.61	453.59	86.02	6.273		
13,005.64	12,330.71	12,999.97	12,119.05	66.53	65.50	-55.96	-3,170.79	1,406.67	569.58	485.04	84.54	6.737		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF14C-04 H04 596 (was 15C-04) - DD - Plan #3												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	-73.08	2.86	-9.39	9.81				
100.00	100.00	100.00	100.00	0.12	0.12	-73.08	2.86	-9.39	9.81	9.57	0.24	41.395	
200.00	200.00	200.00	200.00	0.48	0.29	-73.08	2.86	-9.39	9.81	9.04	0.77	12.742	
300.00	300.00	300.00	300.00	0.84	0.47	-73.08	2.86	-9.39	9.81	8.51	1.30	7.530	
400.00	400.00	400.00	400.00	1.20	0.64	-73.08	2.86	-9.39	9.81	7.98	1.84	5.344 CC, ES	
500.00	499.95	499.98	499.98	1.54	0.82	143.60	2.70	-9.43	11.79	9.44	2.35	5.008 SF	
600.00	599.63	599.93	599.84	1.89	0.99	146.11	-1.08	-10.47	17.47	14.59	2.88	6.068	
700.00	698.77	699.44	698.93	2.24	1.20	142.31	-9.59	-13.53	27.13	23.68	3.44	7.877	
800.00	797.08	798.27	796.74	2.63	1.46	137.76	-22.62	-18.81	41.22	37.14	4.08	10.099	
900.00	894.31	896.10	892.72	3.06	1.79	133.96	-39.98	-26.22	59.87	55.05	4.82	12.427	
1,000.00	990.18	992.64	986.37	3.54	2.20	130.94	-61.41	-35.66	83.05	77.39	5.66	14.669	
1,100.00	1,084.43	1,087.62	1,077.24	4.08	2.69	128.52	-86.61	-46.97	110.66	104.05	6.62	16.728	
1,200.00	1,176.81	1,180.82	1,164.95	4.69	3.25	126.50	-115.24	-59.99	142.57	134.89	7.68	18.572	
1,286.90	1,255.36	1,260.20	1,238.39	5.28	3.79	124.96	-142.64	-72.57	173.67	164.98	8.69	19.991	
1,300.00	1,267.08	1,272.04	1,249.23	5.38	3.87	124.86	-146.95	-74.56	178.59	169.75	8.85	20.187	
1,400.00	1,356.49	1,361.70	1,330.34	6.11	4.55	123.59	-181.60	-90.60	216.93	206.85	10.08	21.525	
1,500.00	1,445.90	1,453.20	1,411.99	6.86	5.26	122.09	-219.04	-108.00	256.13	244.76	11.37	22.526	
1,600.00	1,535.31	1,545.01	1,493.92	7.63	5.99	120.97	-256.63	-125.47	295.45	282.77	12.69	23.289	
1,700.00	1,624.72	1,636.82	1,575.84	8.42	6.72	120.12	-294.22	-142.94	334.85	320.83	14.02	23.886	
1,800.00	1,714.13	1,728.63	1,657.76	9.21	7.46	119.44	-331.81	-160.41	374.30	358.93	15.36	24.363	
1,900.00	1,803.54	1,820.44	1,739.68	10.00	8.20	118.89	-369.39	-177.88	413.78	397.06	16.72	24.751	
2,000.00	1,892.95	1,912.25	1,821.61	10.81	8.95	118.44	-406.98	-195.35	453.28	435.20	18.08	25.071	
2,100.00	1,982.36	2,004.06	1,903.53	11.61	9.69	118.06	-444.57	-212.82	492.81	473.36	19.45	25.339	
2,200.00	2,071.77	2,095.88	1,985.45	12.42	10.44	117.74	-482.16	-230.28	532.36	511.53	20.82	25.566	
2,300.00	2,161.18	2,187.69	2,067.37	13.23	11.18	117.46	-519.75	-247.75	571.91	549.71	22.20	25.760	
2,400.00	2,250.59	2,279.50	2,149.29	14.05	11.93	117.22	-557.34	-265.22	611.48	587.89	23.58	25.928	
2,500.00	2,340.00	2,371.31	2,231.22	14.86	12.68	117.01	-594.92	-282.69	651.05	626.08	24.97	26.075	
2,600.00	2,429.41	2,463.12	2,313.14	15.68	13.43	116.82	-632.51	-300.16	690.63	664.27	26.36	26.203	
2,700.00	2,518.82	2,554.93	2,395.06	16.50	14.18	116.65	-670.10	-317.63	730.21	702.47	27.75	26.317	
2,800.00	2,608.23	2,646.74	2,476.98	17.32	14.93	116.50	-707.69	-335.10	769.81	740.67	29.14	26.419	
2,900.00	2,697.64	2,738.55	2,558.91	18.14	15.68	116.36	-745.28	-352.57	809.40	778.87	30.53	26.510	
3,000.00	2,787.05	2,830.37	2,640.83	18.96	16.43	116.24	-782.87	-370.04	849.00	817.07	31.93	26.592	
3,100.00	2,876.46	2,922.18	2,722.75	19.78	17.18	116.13	-820.45	-387.51	888.60	855.28	33.32	26.666	
3,200.00	2,965.87	3,013.99	2,804.67	20.60	17.93	116.03	-858.04	-404.98	928.20	893.48	34.72	26.733	
3,300.00	3,055.28	3,105.80	2,886.59	21.42	18.68	115.93	-895.63	-422.45	967.81	931.69	36.12	26.795	
3,400.00	3,144.69	3,197.61	2,968.52	22.25	19.43	115.84	-933.22	-439.92	1,007.42	969.90	37.52	26.851	
3,500.00	3,234.10	3,289.42	3,050.44	23.07	20.18	115.76	-970.81	-457.39	1,047.03	1,008.11	38.92	26.903	
3,600.00	3,323.51	3,381.23	3,132.36	23.90	20.93	115.69	-1,008.40	-474.86	1,086.64	1,046.32	40.32	26.951	
3,700.00	3,412.92	3,473.04	3,214.28	24.72	21.69	115.62	-1,045.98	-492.33	1,126.25	1,084.53	41.72	26.995	
3,800.00	3,502.33	3,564.86	3,296.21	25.55	22.44	115.56	-1,083.57	-509.80	1,165.86	1,122.74	43.12	27.036	
3,900.00	3,591.74	3,656.67	3,378.13	26.37	23.19	115.50	-1,121.16	-527.27	1,205.48	1,160.95	44.53	27.074	
4,000.00	3,681.15	3,748.48	3,460.05	27.20	23.94	115.44	-1,158.75	-544.73	1,245.10	1,199.17	45.93	27.109	
4,100.00	3,770.56	3,840.29	3,541.97	28.02	24.70	115.39	-1,196.34	-562.20	1,284.71	1,237.38	47.33	27.142	
4,200.00	3,859.97	3,932.10	3,623.90	28.85	25.45	115.34	-1,233.92	-579.67	1,324.33	1,275.59	48.74	27.173	
4,300.00	3,949.38	4,023.91	3,705.82	29.68	26.20	115.29	-1,271.51	-597.14	1,363.95	1,313.81	50.14	27.202	
4,400.00	4,038.79	4,115.72	3,787.74	30.50	26.95	115.25	-1,309.10	-614.61	1,403.57	1,352.02	51.55	27.230	
4,500.00	4,128.20	4,207.54	3,869.66	31.33	27.71	115.20	-1,346.69	-632.08	1,443.19	1,390.24	52.95	27.255	
4,600.00	4,217.61	4,299.35	3,951.58	32.16	28.46	115.16	-1,384.28	-649.55	1,482.81	1,428.45	54.36	27.280	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 #3													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)	Centre +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	15.37	48.39	13.30	50.18							
100.00	100.00	100.00	100.00	0.12	0.12	15.37	48.39	13.30	50.18	49.95	0.24	211.717				
200.00	200.00	200.00	200.00	0.48	0.29	15.37	48.39	13.30	50.18	49.41	0.77	65.169				
216.67	216.67	216.67	216.67	0.54	0.32	15.37	48.39	13.30	50.18	49.32	0.86	58.429 CC				
300.00	300.00	300.00	300.00	0.84	0.47	15.37	48.39	13.30	50.18	48.88	1.30	38.512				
400.00	400.00	399.66	399.62	1.20	0.65	18.30	47.94	15.86	50.49	48.65	1.84	27.386 ES				
500.00	499.95	498.91	498.55	1.54	0.86	-126.88	46.59	23.49	53.73	51.32	2.41	22.266				
600.00	599.63	598.61	597.41	1.89	1.13	-120.70	43.48	35.92	61.11	58.09	3.03	20.196				
700.00	698.77	697.74	694.94	2.24	1.47	-115.39	37.75	52.65	71.70	67.97	3.73	19.228				
800.00	797.08	796.18	790.78	2.63	1.89	-111.17	29.49	73.53	85.36	80.83	4.53	18.834				
900.00	894.31	893.87	884.62	3.06	2.40	-107.91	18.76	98.40	101.92	96.47	5.44	18.720 SF				
1,000.00	990.18	990.71	976.18	3.54	3.00	-105.43	5.68	127.08	121.20	114.73	6.47	18.724				
1,100.00	1,084.43	1,086.65	1,065.21	4.08	3.69	-103.50	-9.66	159.35	143.07	135.44	7.63	18.758				
1,200.00	1,176.81	1,181.64	1,151.49	4.69	4.45	-101.98	-27.13	195.02	167.39	158.47	8.91	18.778				
1,286.90	1,255.36	1,263.39	1,224.08	5.28	5.19	-100.89	-43.96	228.61	190.41	180.26	10.15	18.764				
1,300.00	1,267.08	1,275.65	1,234.82	5.38	5.30	-100.84	-46.63	233.87	194.02	183.68	10.34	18.763				
1,400.00	1,356.49	1,368.67	1,315.10	6.11	6.23	-99.83	-68.02	275.71	222.33	210.47	11.86	18.741				
1,500.00	1,445.90	1,460.41	1,391.93	6.86	7.22	-98.05	-91.13	320.16	252.12	238.69	13.43	18.771				
1,600.00	1,535.31	1,553.59	1,468.03	7.63	8.27	-95.91	-116.14	367.77	283.32	268.30	15.01	18.870				
1,700.00	1,624.72	1,648.05	1,545.03	8.42	9.33	-94.12	-141.61	416.20	314.91	298.30	16.61	18.962				
1,800.00	1,714.13	1,742.52	1,622.03	9.21	10.40	-92.66	-167.07	464.64	346.73	328.53	18.20	19.052				
1,900.00	1,803.54	1,836.98	1,699.03	10.00	11.47	-91.45	-192.53	513.07	378.72	358.93	19.79	19.136				
2,000.00	1,892.95	1,931.44	1,776.03	10.81	12.55	-90.42	-218.00	561.50	410.84	389.46	21.38	19.214				
2,100.00	1,982.36	2,025.90	1,853.03	11.61	13.63	-89.54	-243.46	609.94	443.06	420.09	22.97	19.285				
2,200.00	2,071.77	2,120.37	1,930.03	12.42	14.70	-88.78	-268.93	658.37	475.36	450.80	24.57	19.350				
2,300.00	2,161.18	2,214.83	2,007.03	13.23	15.78	-88.12	-294.39	706.80	507.73	481.57	26.16	19.409				
2,400.00	2,250.59	2,309.29	2,084.03	14.05	16.86	-87.53	-319.86	755.23	540.16	512.40	27.75	19.463				
2,500.00	2,340.00	2,403.75	2,161.03	14.86	17.94	-87.01	-345.32	803.67	572.62	543.27	29.35	19.512				
2,600.00	2,429.41	2,498.22	2,238.03	15.68	19.02	-86.55	-370.78	852.10	605.13	574.18	30.94	19.557				
2,700.00	2,518.82	2,592.68	2,315.03	16.50	20.10	-86.13	-396.25	900.53	637.66	605.12	32.54	19.598				
2,800.00	2,608.23	2,687.14	2,392.03	17.32	21.19	-85.76	-421.71	948.97	670.23	636.09	34.13	19.635				
2,900.00	2,697.64	2,781.61	2,469.03	18.14	22.27	-85.42	-447.18	997.40	702.81	667.08	35.73	19.670				
3,000.00	2,787.05	2,876.07	2,546.03	18.96	23.35	-85.11	-472.64	1,045.83	735.42	698.09	37.33	19.702				
3,100.00	2,876.46	2,970.53	2,623.03	19.78	24.44	-84.82	-498.11	1,094.27	768.04	729.12	38.93	19.731				
3,200.00	2,965.87	3,064.99	2,700.03	20.60	25.52	-84.56	-523.57	1,142.70	800.68	760.16	40.52	19.759				
3,300.00	3,055.28	3,159.46	2,777.03	21.42	26.60	-84.32	-549.03	1,191.13	833.34	791.22	42.12	19.784				
3,400.00	3,144.69	3,253.92	2,854.03	22.25	27.69	-84.10	-574.50	1,239.57	866.00	822.28	43.72	19.808				
3,500.00	3,234.10	3,348.38	2,931.03	23.07	28.77	-83.89	-599.96	1,288.00	898.68	853.36	45.32	19.830				
3,600.00	3,323.51	3,442.84	3,008.03	23.90	29.85	-83.70	-625.43	1,336.43	931.37	884.45	46.92	19.851				
3,700.00	3,412.92	3,537.31	3,085.03	24.72	30.94	-83.52	-650.89	1,384.87	964.06	915.54	48.52	19.870				
3,800.00	3,502.33	3,631.77	3,162.03	25.55	32.02	-83.36	-676.36	1,433.30	996.77	946.65	50.12	19.888				
3,900.00	3,591.74	3,726.23	3,239.03	26.37	33.11	-83.20	-701.82	1,481.73	1,029.48	977.76	51.72	19.905				
4,000.00	3,681.15	3,820.70	3,316.03	27.20	34.19	-83.05	-727.28	1,530.17	1,062.19	1,008.87	53.32	19.921				
4,100.00	3,770.56	3,915.16	3,393.03	28.02	35.27	-82.91	-752.75	1,578.60	1,094.91	1,039.99	54.92	19.937				
4,200.00	3,859.97	4,009.62	3,470.03	28.85	36.36	-82.78	-778.21	1,627.03	1,127.64	1,071.12	56.52	19.951				
4,300.00	3,949.38	4,104.08	3,547.03	29.68	37.44	-82.66	-803.68	1,675.47	1,160.37	1,102.25	58.12	19.965				
4,400.00	4,038.79	4,198.55	3,624.03	30.50	38.53	-82.55	-829.14	1,723.90	1,193.11	1,133.39	59.72	19.977				
4,500.00	4,128.20	4,293.01	3,701.03	31.33	39.61	-82.44	-854.61	1,772.33	1,225.85	1,164.53	61.32	19.990				
4,600.00	4,217.61	4,387.47	3,778.03	32.16	40.70	-82.33	-880.07	1,820.77	1,258.60	1,195.67	62.93	20.001				
4,700.00	4,307.02	4,481.93	3,855.03	32.98	41.78	-82.23	-905.53	1,869.20	1,291.35	1,226.82	64.53	20.012				
4,800.00	4,396.43	4,576.40	3,932.03	33.81	42.87	-82.14	-931.00	1,917.63	1,324.10	1,257.97	66.13	20.023				
4,900.00	4,485.83	4,670.86	4,009.03	34.64	43.95	-82.05	-956.46	1,966.07	1,356.85	1,289.12	67.73	20.033				

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 #3													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	4,575.24	4,765.32	4,086.03	35.47	45.04	-81.96	-981.93	2,014.50	1,389.61	1,320.28	69.33	20.042	
5,100.00	4,664.65	4,859.79	4,163.03	36.29	46.12	-81.88	-1,007.39	2,062.93	1,422.37	1,351.44	70.94	20.051	
5,200.00	4,754.06	4,954.25	4,240.03	37.12	47.21	-81.81	-1,032.86	2,111.37	1,455.13	1,382.60	72.54	20.060	
5,300.00	4,843.47	5,048.71	4,317.03	37.95	48.29	-81.73	-1,058.32	2,159.80	1,487.90	1,413.76	74.14	20.069	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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-04 H04 596 - DD - Plan #3												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	-12.00	22.09	-4.69	22.58				
100.00	100.00	100.00	100.00	0.12	0.12	-12.00	22.09	-4.69	22.58	22.34	0.24	95.257	
200.00	200.00	200.00	200.00	0.48	0.29	-12.00	22.09	-4.69	22.58	21.81	0.77	29.321	
300.00	300.00	300.00	300.00	0.84	0.47	-12.00	22.09	-4.69	22.58	21.28	1.30	17.328	
400.00	400.00	400.00	400.00	1.20	0.64	-12.00	22.09	-4.69	22.58	20.74	1.84	12.297 CC, ES	
500.00	499.95	499.95	499.95	1.54	0.81	-165.12	22.09	-4.69	25.10	22.74	2.36	10.655	
600.00	599.63	600.86	600.82	1.89	1.00	-171.86	19.63	-5.73	30.78	27.88	2.90	10.598 SF	
700.00	698.77	701.52	701.15	2.24	1.20	177.19	12.31	-8.84	38.67	35.19	3.48	11.099	
800.00	797.08	801.25	800.00	2.63	1.45	165.70	0.45	-14.32	50.59	46.51	4.08	12.394	
900.00	894.31	899.83	896.93	3.06	1.77	155.92	-15.58	-22.38	67.80	63.04	4.76	14.235	
1,000.00	990.18	996.91	991.35	3.54	2.16	148.41	-35.49	-32.89	90.51	84.95	5.56	16.271	
1,100.00	1,084.43	1,092.17	1,082.77	4.08	2.63	142.76	-58.98	-45.65	118.53	112.05	6.48	18.287	
1,200.00	1,176.81	1,185.32	1,170.78	4.69	3.17	138.44	-85.65	-60.43	151.60	144.09	7.51	20.183	
1,286.90	1,255.36	1,264.56	1,244.41	5.28	3.67	135.42	-111.17	-74.77	184.21	175.74	8.47	21.747	
1,300.00	1,267.08	1,276.57	1,255.50	5.38	3.75	135.15	-115.19	-77.03	189.38	180.76	8.62	21.958	
1,400.00	1,356.49	1,368.25	1,340.15	6.11	4.36	133.46	-145.85	-94.33	228.93	219.16	9.77	23.428	
1,500.00	1,445.90	1,459.92	1,424.80	6.86	4.98	132.27	-176.50	-111.62	268.60	257.65	10.95	24.537	
1,600.00	1,535.31	1,551.59	1,509.44	7.63	5.60	131.39	-207.16	-128.91	308.34	296.20	12.14	25.392	
1,700.00	1,624.72	1,643.27	1,594.09	8.42	6.23	130.70	-237.82	-146.21	348.13	334.77	13.36	26.066	
1,800.00	1,714.13	1,734.94	1,678.74	9.21	6.86	130.16	-268.48	-163.50	387.95	373.37	14.58	26.606	
1,900.00	1,803.54	1,826.62	1,763.39	10.00	7.49	129.72	-299.13	-180.79	427.79	411.98	15.82	27.048	
2,000.00	1,892.95	1,918.29	1,848.03	10.81	8.13	129.35	-329.79	-198.09	467.66	450.60	17.06	27.414	
2,100.00	1,982.36	2,009.96	1,932.68	11.61	8.76	129.04	-360.45	-215.38	507.53	489.22	18.31	27.722	
2,200.00	2,071.77	2,101.64	2,017.33	12.42	9.40	128.78	-391.10	-232.67	547.42	527.86	19.56	27.983	
2,300.00	2,161.18	2,193.31	2,101.97	13.23	10.04	128.55	-421.76	-249.97	587.32	566.49	20.82	28.208	
2,400.00	2,250.59	2,284.98	2,186.62	14.05	10.68	128.35	-452.42	-267.26	627.22	605.13	22.08	28.402	
2,500.00	2,340.00	2,376.66	2,271.27	14.86	11.32	128.18	-483.08	-284.55	667.13	643.78	23.35	28.573	
2,600.00	2,429.41	2,468.33	2,355.92	15.68	11.96	128.02	-513.73	-301.85	707.04	682.42	24.62	28.723	
2,700.00	2,518.82	2,560.00	2,440.56	16.50	12.60	127.88	-544.39	-319.14	746.95	721.07	25.89	28.856	
2,800.00	2,608.23	2,651.68	2,525.21	17.32	13.25	127.76	-575.05	-336.43	786.87	759.72	27.16	28.974	
2,900.00	2,697.64	2,743.35	2,609.86	18.14	13.89	127.64	-605.70	-353.73	826.80	798.37	28.43	29.081	
3,000.00	2,787.05	2,835.03	2,694.50	18.96	14.53	127.54	-636.36	-371.02	866.72	837.02	29.71	29.177	
3,100.00	2,876.46	2,926.70	2,779.15	19.78	15.17	127.45	-667.02	-388.31	906.65	875.67	30.98	29.264	
3,200.00	2,965.87	3,018.37	2,863.80	20.60	15.82	127.36	-697.68	-405.61	946.58	914.32	32.26	29.343	
3,300.00	3,055.28	3,110.05	2,948.45	21.42	16.46	127.28	-728.33	-422.90	986.51	952.97	33.54	29.416	
3,400.00	3,144.69	3,201.72	3,033.09	22.25	17.10	127.21	-758.99	-440.19	1,026.44	991.63	34.82	29.482	
3,500.00	3,234.10	3,293.39	3,117.74	23.07	17.75	127.14	-789.65	-457.49	1,066.38	1,030.28	36.10	29.543	
3,600.00	3,323.51	3,385.07	3,202.39	23.90	18.39	127.08	-820.31	-474.78	1,106.31	1,068.93	37.38	29.600	
3,700.00	3,412.92	3,476.74	3,287.03	24.72	19.03	127.02	-850.96	-492.08	1,146.25	1,107.59	38.66	29.652	
3,800.00	3,502.33	3,568.41	3,371.68	25.55	19.68	126.97	-881.62	-509.37	1,186.18	1,146.24	39.94	29.700	
3,900.00	3,591.74	3,660.09	3,456.33	26.37	20.32	126.92	-912.28	-526.66	1,226.12	1,184.90	41.22	29.745	
4,000.00	3,681.15	3,751.76	3,540.97	27.20	20.96	126.87	-942.93	-543.96	1,266.06	1,223.55	42.50	29.787	
4,100.00	3,770.56	3,843.44	3,625.62	28.02	21.61	126.83	-973.59	-561.25	1,306.00	1,262.21	43.79	29.827	
4,200.00	3,859.97	3,935.11	3,710.27	28.85	22.25	126.79	-1,004.25	-578.54	1,345.94	1,300.87	45.07	29.863	
4,300.00	3,949.38	4,026.78	3,794.92	29.68	22.90	126.75	-1,034.91	-595.84	1,385.88	1,339.52	46.35	29.898	
4,400.00	4,038.79	4,118.46	3,879.56	30.50	23.54	126.71	-1,065.56	-613.13	1,425.82	1,378.18	47.64	29.930	
4,500.00	4,128.20	4,210.13	3,964.21	31.33	24.18	126.67	-1,096.22	-630.42	1,465.76	1,416.84	48.92	29.961	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF15B-03 H04 596 (was 10E-03) - DD - Plan #3												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	4.44	50.41	3.91	50.56				
100.00	100.00	100.00	100.00	0.12	0.12	4.44	50.41	3.91	50.56	50.32	0.24	213.307	
200.00	200.00	200.00	200.00	0.48	0.29	4.44	50.41	3.91	50.56	49.79	0.77	65.659	
300.00	300.00	300.00	300.00	0.84	0.47	4.44	50.41	3.91	50.56	49.26	1.30	38.801	
400.00	400.00	400.57	400.57	1.20	0.64	5.12	50.07	4.49	50.27	48.43	1.84	27.296	
449.14	449.13	450.23	450.18	1.36	0.74	-144.70	49.08	6.18	49.99	47.88	2.11	23.668 CC, ES	
500.00	499.95	501.57	501.41	1.54	0.83	-142.48	47.37	9.10	50.31	47.92	2.39	21.032	
600.00	599.63	602.28	601.55	1.89	1.07	-136.90	42.01	18.27	52.92	49.95	2.97	17.811	
700.00	698.77	702.59	700.59	2.24	1.37	-130.58	34.02	31.93	58.49	54.86	3.63	16.134	
800.00	797.08	802.38	798.16	2.63	1.76	-124.51	23.49	49.94	67.22	62.83	4.39	15.321	
900.00	894.31	901.55	893.92	3.06	2.24	-119.26	10.48	72.18	79.14	73.86	5.28	14.990	
1,000.00	990.18	1,000.00	987.52	3.54	2.80	-114.99	-4.89	98.47	94.14	87.83	6.31	14.922 SF	
1,100.00	1,084.43	1,097.68	1,078.72	4.08	3.46	-111.61	-22.53	128.64	112.06	104.58	7.48	14.983	
1,200.00	1,176.81	1,194.47	1,167.22	4.69	4.21	-108.95	-42.31	162.46	132.74	123.95	8.79	15.099	
1,286.90	1,255.36	1,277.83	1,241.76	5.28	4.94	-107.07	-61.15	194.66	152.84	142.78	10.05	15.203	
1,300.00	1,267.08	1,290.33	1,252.80	5.38	5.05	-106.89	-64.11	199.74	156.02	145.77	10.25	15.223	
1,400.00	1,356.49	1,385.24	1,335.29	6.11	5.96	-104.91	-87.80	240.24	180.94	169.13	11.81	15.317	
1,500.00	1,445.90	1,478.87	1,414.28	6.86	6.96	-102.13	-113.17	283.62	207.28	193.84	13.44	15.418	
1,600.00	1,535.31	1,570.81	1,489.35	7.63	8.02	-98.93	-139.95	329.41	235.47	220.38	15.10	15.598	
1,700.00	1,624.72	1,660.68	1,560.20	8.42	9.11	-95.54	-167.86	377.14	265.93	249.23	16.71	15.917	
1,800.00	1,714.13	1,754.02	1,632.35	9.21	10.28	-92.31	-197.75	428.26	298.13	279.80	18.33	16.264	
1,900.00	1,803.54	1,847.46	1,704.58	10.00	11.45	-89.69	-227.67	479.42	331.03	311.10	19.92	16.615	
2,000.00	1,892.95	1,940.90	1,776.81	10.81	12.62	-87.55	-257.60	530.59	364.44	342.94	21.49	16.956	
2,100.00	1,982.36	2,034.34	1,849.04	11.61	13.80	-85.76	-287.52	581.76	398.23	375.19	23.05	17.278	
2,200.00	2,071.77	2,127.77	1,921.27	12.42	14.98	-84.24	-317.44	632.93	432.33	407.73	24.59	17.580	
2,300.00	2,161.18	2,221.21	1,993.49	13.23	16.16	-82.95	-347.37	684.10	466.65	440.52	26.13	17.860	
2,400.00	2,250.59	2,314.65	2,065.72	14.05	17.34	-81.84	-377.29	735.26	501.15	473.49	27.66	18.120	
2,500.00	2,340.00	2,408.09	2,137.95	14.86	18.53	-80.86	-407.21	786.43	535.80	506.62	29.18	18.360	
2,600.00	2,429.41	2,501.52	2,210.18	15.68	19.71	-80.01	-437.14	837.60	570.57	539.87	30.71	18.582	
2,700.00	2,518.82	2,594.96	2,282.41	16.50	20.89	-79.25	-467.06	888.77	605.44	573.22	32.23	18.787	
2,800.00	2,608.23	2,688.40	2,354.64	17.32	22.08	-78.57	-496.98	939.94	640.40	606.65	33.75	18.977	
2,900.00	2,697.64	2,781.84	2,426.87	18.14	23.27	-77.97	-526.91	991.11	675.42	640.16	35.26	19.153	
3,000.00	2,787.05	2,875.27	2,499.09	18.96	24.45	-77.42	-556.83	1,042.27	710.51	673.73	36.78	19.317	
3,100.00	2,876.46	2,968.71	2,571.32	19.78	25.64	-76.92	-586.75	1,093.44	745.65	707.35	38.30	19.469	
3,200.00	2,965.87	3,062.15	2,643.55	20.60	26.83	-76.47	-616.68	1,144.61	780.83	741.01	39.81	19.611	
3,300.00	3,055.28	3,155.59	2,715.78	21.42	28.01	-76.06	-646.60	1,195.78	816.05	774.72	41.33	19.744	
3,400.00	3,144.69	3,249.02	2,788.01	22.25	29.20	-75.68	-676.52	1,246.95	851.30	808.45	42.85	19.868	
3,500.00	3,234.10	3,342.46	2,860.24	23.07	30.39	-75.34	-706.45	1,298.11	886.59	842.22	44.36	19.985	
3,600.00	3,323.51	3,435.90	2,932.47	23.90	31.58	-75.01	-736.37	1,349.28	921.90	876.02	45.88	20.094	
3,700.00	3,412.92	3,529.34	3,004.70	24.72	32.77	-74.72	-766.29	1,400.45	957.23	909.83	47.40	20.197	
3,800.00	3,502.33	3,622.77	3,076.92	25.55	33.96	-74.44	-796.22	1,451.62	992.59	943.67	48.91	20.293	
3,900.00	3,591.74	3,716.21	3,149.15	26.37	35.14	-74.18	-826.14	1,502.79	1,027.96	977.53	50.43	20.385	
4,000.00	3,681.15	3,809.65	3,221.38	27.20	36.33	-73.94	-856.06	1,553.96	1,063.35	1,011.41	51.94	20.471	
4,100.00	3,770.56	3,903.09	3,293.61	28.02	37.52	-73.72	-885.99	1,605.12	1,098.76	1,045.30	53.46	20.553	
4,200.00	3,859.97	3,996.52	3,365.84	28.85	38.71	-73.51	-915.91	1,656.29	1,134.18	1,079.20	54.98	20.630	
4,300.00	3,949.38	4,089.96	3,438.07	29.68	39.90	-73.31	-945.83	1,707.46	1,169.61	1,113.12	56.49	20.703	
4,400.00	4,038.79	4,183.40	3,510.30	30.50	41.09	-73.12	-975.76	1,758.63	1,205.06	1,147.04	58.01	20.773	
4,500.00	4,128.20	4,276.84	3,582.53	31.33	42.28	-72.94	-1,005.68	1,809.80	1,240.51	1,180.98	59.53	20.839	
4,600.00	4,217.61	4,370.27	3,654.75	32.16	43.47	-72.78	-1,035.60	1,860.96	1,275.98	1,214.93	61.05	20.902	
4,700.00	4,307.02	4,463.71	3,726.98	32.98	44.66	-72.62	-1,065.53	1,912.13	1,311.45	1,248.89	62.56	20.962	
4,800.00	4,396.43	4,557.15	3,799.21	33.81	45.85	-72.47	-1,095.45	1,963.30	1,346.93	1,282.85	64.08	21.019	
4,900.00	4,485.83	4,650.59	3,871.44	34.64	47.04	-72.33	-1,125.37	2,014.47	1,382.42	1,316.82	65.60	21.074	

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF15B-03 H04 596 (was 10E-03) - DD - Plan #3													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	4,575.24	4,744.02	3,943.67	35.47	48.23	-72.20	-1,155.30	2,065.64	1,417.92	1,350.80	67.12	21.126	
5,100.00	4,664.65	4,837.46	4,015.90	36.29	49.42	-72.07	-1,185.22	2,116.80	1,453.42	1,384.79	68.63	21.176	
5,200.00	4,754.06	4,930.90	4,088.13	37.12	50.61	-71.95	-1,215.14	2,167.97	1,488.93	1,418.78	70.15	21.224	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF15B-04 H04 596 - DD - Plan #2													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	-30.46	11.97	-7.04	13.89					
100.00	100.00	100.00	100.00	0.12	0.12	-30.46	11.97	-7.04	13.89	13.65	0.24	58.592		
200.00	200.00	200.00	200.00	0.48	0.29	-30.46	11.97	-7.04	13.89	13.12	0.77	18.036		
203.28	203.28	203.28	203.28	0.49	0.30	-30.46	11.97	-7.04	13.89	13.10	0.79	17.635 CC		
300.00	300.00	299.99	299.98	0.84	0.47	-33.15	11.64	-7.61	13.91	12.60	1.30	10.669 ES		
400.00	400.00	399.68	399.53	1.20	0.66	-53.28	9.04	-12.12	15.13	13.24	1.88	8.026 SF		
500.00	499.95	498.54	497.83	1.54	0.90	133.86	3.90	-21.03	23.22	20.62	2.60	8.928		
600.00	599.63	595.83	593.95	1.89	1.21	125.78	-3.64	-34.08	39.88	36.55	3.33	11.963		
700.00	698.77	690.88	686.97	2.24	1.58	123.50	-13.36	-50.91	63.68	59.62	4.06	15.669		
800.00	797.08	783.06	776.17	2.63	2.03	122.97	-24.98	-71.05	94.10	89.29	4.81	19.563		
900.00	894.31	871.87	860.94	3.06	2.54	122.90	-38.21	-93.95	130.81	125.23	5.58	23.436		
1,000.00	990.18	956.90	940.87	3.54	3.09	122.84	-52.70	-119.05	173.51	167.12	6.38	27.179		
1,100.00	1,084.43	1,042.05	1,019.62	4.08	3.68	122.73	-69.03	-147.00	221.61	214.44	7.17	30.909		
1,200.00	1,176.81	1,139.08	1,109.18	4.69	4.35	122.72	-90.76	-177.32	270.52	262.54	7.99	33.873		
1,286.90	1,255.36	1,225.85	1,189.39	5.28	4.94	122.72	-113.25	-201.59	312.20	303.34	8.85	35.267		
1,300.00	1,267.08	1,239.16	1,201.69	5.38	5.03	122.88	-116.94	-205.07	318.38	309.38	9.00	35.375		
1,400.00	1,356.49	1,343.54	1,298.05	6.11	5.73	123.67	-148.26	-230.11	363.43	353.26	10.17	35.742		
1,500.00	1,445.90	1,452.73	1,398.40	6.86	6.45	123.75	-185.29	-251.97	404.37	392.90	11.48	35.230		
1,600.00	1,535.31	1,553.31	1,490.28	7.63	7.13	123.43	-222.61	-268.72	441.75	428.96	12.79	34.531		
1,700.00	1,624.72	1,646.17	1,575.05	8.42	7.76	123.15	-257.39	-283.84	478.80	464.72	14.07	34.021		
1,800.00	1,714.13	1,739.04	1,659.81	9.21	8.41	122.91	-292.18	-298.96	515.84	500.48	15.37	33.567		
1,900.00	1,803.54	1,831.90	1,744.58	10.00	9.06	122.70	-326.96	-314.07	552.90	536.23	16.67	33.162		
2,000.00	1,892.95	1,924.76	1,829.34	10.81	9.71	122.51	-361.74	-329.19	589.96	571.98	17.99	32.801		
2,100.00	1,982.36	2,017.63	1,914.11	11.61	10.37	122.35	-396.53	-344.31	627.03	607.72	19.31	32.477		
2,200.00	2,071.77	2,110.49	1,998.87	12.42	11.04	122.21	-431.31	-359.42	664.10	643.47	20.63	32.185		
2,300.00	2,161.18	2,203.35	2,083.64	13.23	11.70	122.08	-466.09	-374.54	701.17	679.21	21.96	31.923		
2,400.00	2,250.59	2,296.21	2,168.40	14.05	12.37	121.96	-500.88	-389.66	738.25	714.95	23.30	31.684		
2,500.00	2,340.00	2,389.08	2,253.17	14.86	13.05	121.86	-535.66	-404.77	775.33	750.69	24.64	31.468		
2,600.00	2,429.41	2,481.94	2,337.93	15.68	13.72	121.76	-570.44	-419.89	812.41	786.43	25.98	31.271		
2,700.00	2,518.82	2,574.80	2,422.70	16.50	14.39	121.68	-605.23	-435.01	849.49	822.17	27.32	31.090		
2,800.00	2,608.23	2,667.67	2,507.46	17.32	15.07	121.60	-640.01	-450.12	886.57	857.90	28.67	30.924		
2,900.00	2,697.64	2,760.53	2,592.23	18.14	15.75	121.52	-674.79	-465.24	923.66	893.64	30.02	30.771		
3,000.00	2,787.05	2,853.39	2,676.99	18.96	16.43	121.46	-709.58	-480.36	960.75	929.38	31.37	30.629		
3,100.00	2,876.46	2,946.26	2,761.76	19.78	17.11	121.39	-744.36	-495.47	997.83	965.12	32.72	30.498		
3,200.00	2,965.87	3,039.12	2,846.52	20.60	17.79	121.33	-779.14	-510.59	1,034.92	1,000.85	34.07	30.377		
3,300.00	3,055.28	3,131.98	2,931.29	21.42	18.47	121.28	-813.93	-525.71	1,072.01	1,036.59	35.42	30.263		
3,400.00	3,144.69	3,224.84	3,016.05	22.25	19.15	121.23	-848.71	-540.82	1,109.10	1,072.32	36.78	30.157		
3,500.00	3,234.10	3,317.71	3,100.82	23.07	19.83	121.18	-883.49	-555.94	1,146.19	1,108.06	38.13	30.059		
3,600.00	3,323.51	3,410.57	3,185.59	23.90	20.51	121.14	-918.28	-571.06	1,183.28	1,143.79	39.49	29.966		
3,700.00	3,412.92	3,503.43	3,270.35	24.72	21.20	121.10	-953.06	-586.17	1,220.37	1,179.53	40.84	29.879		
3,800.00	3,502.33	3,596.30	3,355.12	25.55	21.88	121.06	-987.85	-601.29	1,257.47	1,215.27	42.20	29.797		
3,900.00	3,591.74	3,689.16	3,439.88	26.37	22.57	121.02	-1,022.63	-616.41	1,294.56	1,251.00	43.56	29.719		
4,000.00	3,681.15	3,782.02	3,524.65	27.20	23.25	120.99	-1,057.41	-631.52	1,331.65	1,286.74	44.92	29.647		
4,100.00	3,770.56	3,874.89	3,609.41	28.02	23.93	120.95	-1,092.20	-646.64	1,368.75	1,322.47	46.28	29.578		
4,200.00	3,859.97	3,967.75	3,694.18	28.85	24.62	120.92	-1,126.98	-661.76	1,405.84	1,358.21	47.64	29.512		
4,300.00	3,949.38	4,060.61	3,778.94	29.68	25.30	120.89	-1,161.76	-676.87	1,442.94	1,393.94	49.00	29.450		
4,400.00	4,038.79	4,153.47	3,863.71	30.50	25.99	120.86	-1,196.55	-691.99	1,480.03	1,429.67	50.36	29.392		

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF15D-04 H04 596 - DD - Plan #3													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	-120.17	-7.28	-12.52	14.48							
100.00	100.00	100.00	100.00	0.12	0.12	-120.17	-7.28	-12.52	14.48	14.24	0.24	61.076				
200.00	200.00	200.00	200.00	0.48	0.29	-120.17	-7.28	-12.52	14.48	13.71	0.77	18.800				
216.67	216.67	216.67	216.67	0.54	0.32	-120.17	-7.28	-12.52	14.48	13.62	0.86	16.856 CC				
300.00	300.00	300.00	300.00	0.84	0.47	-120.17	-7.28	-12.52	14.48	13.17	1.30	11.110 ES				
400.00	400.00	399.23	399.18	1.20	0.65	-123.85	-9.39	-13.99	16.87	14.96	1.91	8.818 SF				
500.00	499.95	498.00	497.64	1.54	0.86	84.03	-15.68	-18.40	23.88	21.30	2.58	9.260				
600.00	599.63	595.92	594.74	1.89	1.12	88.94	-26.02	-25.64	35.30	32.05	3.24	10.883				
700.00	698.77	692.59	689.83	2.24	1.45	94.24	-40.21	-35.58	51.52	47.59	3.93	13.120				
800.00	797.08	787.62	782.34	2.63	1.86	98.46	-57.99	-48.03	72.76	68.10	4.66	15.629				
900.00	894.31	880.70	871.79	3.06	2.34	101.53	-79.04	-62.76	98.98	93.53	5.45	18.163				
1,000.00	990.18	971.72	957.95	3.54	2.87	103.70	-103.05	-79.57	130.06	123.76	6.30	20.628				
1,100.00	1,084.43	1,064.85	1,044.77	4.08	3.48	105.03	-131.54	-97.55	164.32	157.10	7.22	22.761				
1,200.00	1,176.81	1,157.50	1,129.74	4.69	4.16	105.62	-164.13	-114.87	200.34	192.07	8.28	24.204				
1,286.90	1,255.36	1,237.64	1,201.96	5.28	4.79	105.78	-195.68	-129.37	232.98	223.66	9.32	25.011				
1,300.00	1,267.08	1,249.70	1,212.72	5.38	4.89	105.93	-200.69	-131.51	237.99	228.50	9.48	25.097				
1,400.00	1,356.49	1,341.95	1,294.26	6.11	5.64	106.46	-240.70	-147.64	276.28	265.51	10.76	25.666				
1,500.00	1,445.90	1,434.31	1,375.71	6.86	6.41	106.78	-281.17	-163.72	314.59	302.50	12.08	26.036				
1,600.00	1,535.31	1,526.67	1,457.16	7.63	7.18	107.03	-321.63	-179.80	352.90	339.47	13.43	26.280				
1,700.00	1,624.72	1,619.02	1,538.61	8.42	7.96	107.23	-362.09	-195.87	391.22	376.43	14.79	26.444				
1,800.00	1,714.13	1,711.38	1,620.07	9.21	8.73	107.40	-402.55	-211.95	429.55	413.37	16.18	26.556				
1,900.00	1,803.54	1,803.74	1,701.52	10.00	9.51	107.54	-443.01	-228.03	467.87	450.31	17.57	26.632				
2,000.00	1,892.95	1,896.10	1,782.97	10.81	10.29	107.65	-483.47	-244.11	506.20	487.23	18.97	26.685				
2,100.00	1,982.36	1,988.46	1,864.42	11.61	11.07	107.75	-523.93	-260.19	544.53	524.15	20.38	26.721				
2,200.00	2,071.77	2,080.82	1,945.87	12.42	11.86	107.84	-564.39	-276.27	582.86	561.07	21.79	26.745				
2,300.00	2,161.18	2,173.17	2,027.33	13.23	12.64	107.92	-604.85	-292.35	621.20	597.98	23.21	26.761				
2,400.00	2,250.59	2,265.53	2,108.78	14.05	13.42	107.99	-645.31	-308.43	659.53	634.89	24.64	26.771				
2,500.00	2,340.00	2,357.89	2,190.23	14.86	14.21	108.05	-685.78	-324.50	697.86	671.80	26.06	26.776				
2,600.00	2,429.41	2,450.25	2,271.68	15.68	14.99	108.10	-726.24	-340.58	736.20	708.71	27.49	26.779				
2,700.00	2,518.82	2,542.61	2,353.14	16.50	15.78	108.15	-766.70	-356.66	774.53	745.61	28.92	26.779				
2,800.00	2,608.23	2,634.97	2,434.59	17.32	16.56	108.19	-807.16	-372.74	812.87	782.51	30.36	26.777				
2,900.00	2,697.64	2,727.32	2,516.04	18.14	17.35	108.23	-847.62	-388.82	851.21	819.41	31.79	26.774				
3,000.00	2,787.05	2,819.68	2,597.49	18.96	18.13	108.27	-888.08	-404.90	889.54	856.31	33.23	26.769				
3,100.00	2,876.46	2,912.04	2,678.94	19.78	18.92	108.30	-928.54	-420.98	927.88	893.21	34.67	26.765				
3,200.00	2,965.87	3,004.40	2,760.40	20.60	19.70	108.33	-969.00	-437.06	966.22	930.11	36.11	26.759				
3,300.00	3,055.28	3,096.76	2,841.85	21.42	20.49	108.36	-1,009.46	-453.13	1,004.55	967.00	37.55	26.754				
3,400.00	3,144.69	3,189.12	2,923.30	22.25	21.28	108.39	-1,049.92	-469.21	1,042.89	1,003.90	38.99	26.748				
3,500.00	3,234.10	3,281.47	3,004.75	23.07	22.06	108.41	-1,090.39	-485.29	1,081.23	1,040.80	40.43	26.742				
3,600.00	3,323.51	3,373.83	3,086.20	23.90	22.85	108.44	-1,130.85	-501.37	1,119.57	1,077.69	41.87	26.736				
3,700.00	3,412.92	3,466.19	3,167.66	24.72	23.64	108.46	-1,171.31	-517.45	1,157.90	1,114.58	43.32	26.730				
3,800.00	3,502.33	3,558.55	3,249.11	25.55	24.42	108.48	-1,211.77	-533.53	1,196.24	1,151.48	44.76	26.724				
3,900.00	3,591.74	3,650.91	3,330.56	26.37	25.21	108.50	-1,252.23	-549.61	1,234.58	1,188.37	46.21	26.718				
4,000.00	3,681.15	3,743.27	3,412.01	27.20	26.00	108.51	-1,292.69	-565.69	1,272.92	1,225.26	47.65	26.713				
4,100.00	3,770.56	3,835.62	3,493.46	28.02	26.78	108.53	-1,333.15	-581.76	1,311.26	1,262.16	49.10	26.707				
4,200.00	3,859.97	3,927.98	3,574.92	28.85	27.57	108.55	-1,373.61	-597.84	1,349.59	1,299.05	50.54	26.701				
4,300.00	3,949.38	4,020.34	3,656.37	29.68	28.36	108.56	-1,414.07	-613.92	1,387.93	1,335.94	51.99	26.696				
4,400.00	4,038.79	4,112.70	3,737.82	30.50	29.14	108.58	-1,454.53	-630.00	1,426.27	1,372.83	53.44	26.691				
4,500.00	4,128.20	4,205.06	3,819.27	31.33	29.93	108.59	-1,494.99	-646.08	1,464.61	1,409.72	54.88	26.685				

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 UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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 - UWF15E-04 H04 596 - DD - Plan #3													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	-137.75	-16.36	-14.86	22.11							
100.00	100.00	100.00	100.00	0.12	0.12	-137.75	-16.36	-14.86	22.11	21.87	0.24	93.264				
104.44	104.44	104.44	104.44	0.14	0.12	-137.75	-16.36	-14.86	22.11	21.85	0.26	84.792	CC			
200.00	200.00	199.54	199.53	0.48	0.29	-137.79	-16.68	-15.13	22.52	21.71	0.81	27.915	ES			
300.00	300.00	298.16	298.04	0.84	0.48	-138.17	-20.19	-18.07	27.17	25.64	1.53	17.738				
400.00	400.00	396.05	395.45	1.20	0.73	-138.65	-27.52	-24.23	36.95	34.68	2.27	16.286	SF			
500.00	499.95	492.82	491.14	1.54	1.03	71.85	-38.52	-33.46	50.94	47.96	2.98	17.110				
600.00	599.63	588.15	584.57	1.89	1.41	76.43	-52.97	-45.58	68.57	64.91	3.66	18.736				
700.00	698.77	681.62	675.16	2.24	1.86	81.34	-70.59	-60.37	90.44	86.09	4.35	20.811				
800.00	797.08	772.87	762.41	2.63	2.38	85.72	-91.05	-77.53	116.89	111.83	5.06	23.098				
900.00	894.31	861.60	845.93	3.06	2.95	89.31	-113.98	-96.77	148.06	142.23	5.83	25.400				
1,000.00	990.18	947.56	925.43	3.54	3.57	92.13	-139.00	-117.77	183.90	177.24	6.66	27.600				
1,100.00	1,084.43	1,035.58	1,005.37	4.08	4.25	94.40	-167.50	-141.09	223.81	216.29	7.52	29.752				
1,200.00	1,176.81	1,129.83	1,090.15	4.69	5.00	96.06	-201.57	-164.17	264.20	255.72	8.48	31.156				
1,286.90	1,255.36	1,212.93	1,164.19	5.28	5.68	97.04	-234.66	-182.26	298.95	289.48	9.47	31.566				
1,300.00	1,267.08	1,225.57	1,175.39	5.38	5.78	97.32	-239.93	-184.83	304.15	294.51	9.64	31.561				
1,400.00	1,356.49	1,323.31	1,261.26	6.11	6.61	98.71	-282.92	-202.97	343.00	332.07	10.94	31.366				
1,500.00	1,445.90	1,417.42	1,343.04	6.86	7.41	99.26	-326.87	-218.38	380.72	368.44	12.28	30.999				
1,600.00	1,535.31	1,510.01	1,423.45	7.63	8.22	99.68	-370.22	-233.45	418.41	404.76	13.65	30.649				
1,700.00	1,624.72	1,602.59	1,503.86	8.42	9.02	100.03	-413.57	-248.52	456.12	441.07	15.04	30.318				
1,800.00	1,714.13	1,695.18	1,584.27	9.21	9.83	100.33	-456.92	-263.59	493.84	477.38	16.45	30.014				
1,900.00	1,803.54	1,787.76	1,664.68	10.00	10.65	100.58	-500.26	-278.66	531.57	513.69	17.88	29.736				
2,000.00	1,892.95	1,880.35	1,745.09	10.81	11.46	100.80	-543.61	-293.74	569.30	550.00	19.31	29.485				
2,100.00	1,982.36	1,972.93	1,825.50	11.61	12.28	100.99	-586.96	-308.81	607.05	586.30	20.75	29.258				
2,200.00	2,071.77	2,065.52	1,905.91	12.42	13.09	101.17	-630.31	-323.88	644.80	622.60	22.19	29.053				
2,300.00	2,161.18	2,158.10	1,986.32	13.23	13.91	101.32	-673.66	-338.95	682.55	658.90	23.65	28.866				
2,400.00	2,250.59	2,250.69	2,066.73	14.05	14.73	101.45	-717.01	-354.02	720.31	695.21	25.10	28.696				
2,500.00	2,340.00	2,343.28	2,147.14	14.86	15.55	101.58	-760.36	-369.10	758.07	731.51	26.56	28.542				
2,600.00	2,429.41	2,435.86	2,227.55	15.68	16.38	101.69	-803.70	-384.17	795.83	767.81	28.02	28.400				
2,700.00	2,518.82	2,528.45	2,307.96	16.50	17.20	101.79	-847.05	-399.24	833.59	804.11	29.49	28.271				
2,800.00	2,608.23	2,621.03	2,388.37	17.32	18.02	101.88	-890.40	-414.31	871.36	840.41	30.95	28.151				
2,900.00	2,697.64	2,713.62	2,468.78	18.14	18.84	101.96	-933.75	-429.38	909.13	876.71	32.42	28.041				
3,000.00	2,787.05	2,806.20	2,549.19	18.96	19.67	102.04	-977.10	-444.46	946.90	913.01	33.89	27.940				
3,100.00	2,876.46	2,898.79	2,629.60	19.78	20.49	102.11	-1,020.45	-459.53	984.67	949.31	35.36	27.845				
3,200.00	2,965.87	2,991.37	2,710.01	20.60	21.31	102.18	-1,063.79	-474.60	1,022.44	985.61	36.83	27.758				
3,300.00	3,055.28	3,083.96	2,790.42	21.42	22.14	102.24	-1,107.14	-489.67	1,060.22	1,021.91	38.31	27.676				
3,400.00	3,144.69	3,176.54	2,870.83	22.25	22.96	102.30	-1,150.49	-504.74	1,097.99	1,058.21	39.78	27.600				
3,500.00	3,234.10	3,269.13	2,951.25	23.07	23.79	102.35	-1,193.84	-519.81	1,135.77	1,094.51	41.26	27.528				
3,600.00	3,323.51	3,361.71	3,031.66	23.90	24.61	102.40	-1,237.19	-534.89	1,173.55	1,130.81	42.73	27.462				
3,700.00	3,412.92	3,454.30	3,112.07	24.72	25.44	102.45	-1,280.54	-549.96	1,211.32	1,167.11	44.21	27.399				
3,800.00	3,502.33	3,546.89	3,192.48	25.55	26.26	102.49	-1,323.88	-565.03	1,249.10	1,203.41	45.69	27.340				
3,900.00	3,591.74	3,639.47	3,272.89	26.37	27.09	102.54	-1,367.23	-580.10	1,286.88	1,239.71	47.17	27.284				
4,000.00	3,681.15	3,732.06	3,353.30	27.20	27.91	102.58	-1,410.58	-595.17	1,324.66	1,276.01	48.64	27.231				
4,100.00	3,770.56	3,824.64	3,433.71	28.02	28.74	102.61	-1,453.93	-610.25	1,362.44	1,312.31	50.12	27.182				
4,200.00	3,859.97	3,917.23	3,514.12	28.85	29.56	102.65	-1,497.28	-625.32	1,400.22	1,348.62	51.60	27.135				
4,300.00	3,949.38	4,009.81	3,594.53	29.68	30.39	102.68	-1,540.63	-640.39	1,438.00	1,384.92	53.08	27.090				
4,400.00	4,038.79	4,102.40	3,674.94	30.50	31.22	102.71	-1,583.98	-655.46	1,475.78	1,421.22	54.56	27.048				

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

Cathedral Energy Services

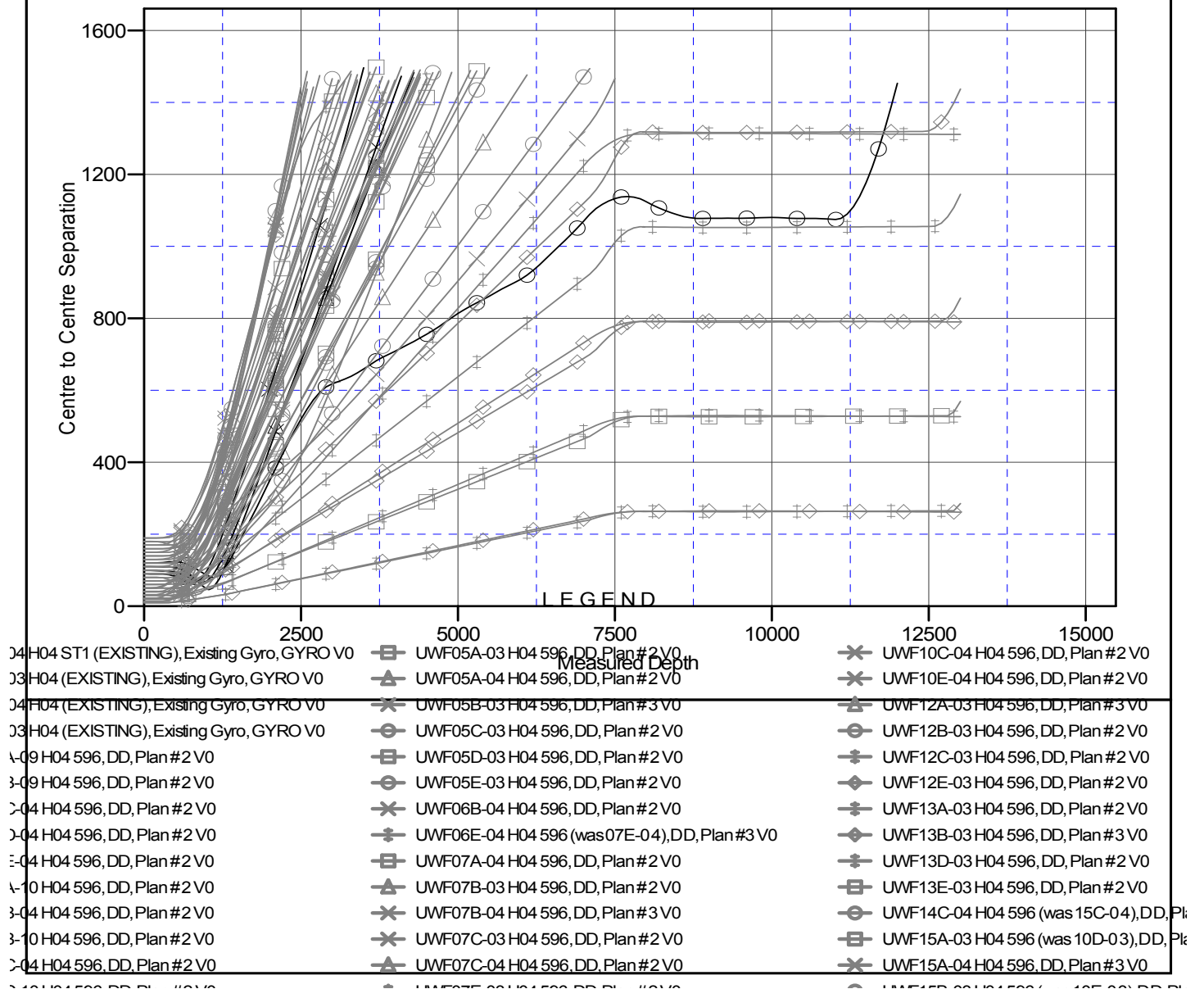
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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: UWF13C-03 H04 596
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.68°

Ladder Plot



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