

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site:	S35-T3N-R67W (Kiyota)	North Reference:	True
Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Project	DJ Wattenberg		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		S35-T3N-R67W (Kiyota)			
Site Position:		Northing:	1,309,242.22 ft	Latitude:	40.180460
From:	Lat/Long	Easting:	3,180,197.74 ft	Longitude:	-104.855100
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.42 °

Well	Kiyota 4G-35H-O367					
Well Position	+N/-S	0.0 ft	Northing:	1,307,458.70 ft	Latitude:	40.175556
	+E/-W	0.0 ft	Easting:	3,180,605.56 ft	Longitude:	-104.853687
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,835.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/15/2014	8.50	66.75	52,697

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,113.1	4.13	141.98	1,112.7	-11.7	9.2	1.00	1.00	0.00	141.98	
6,458.2	4.13	141.98	6,443.9	-315.0	246.4	0.00	0.00	0.00	0.00	
7,623.8	90.00	0.00	7,200.0	400.0	280.0	8.00	7.37	-12.18	-141.90	
10,723.8	90.00	0.00	7,200.0	3,500.0	280.0	0.00	0.00	0.00	0.00	Kiyota 4G-35H-O367
11,051.1	90.00	355.23	7,200.0	3,826.9	266.4	1.46	0.00	-1.46	-90.00	
11,640.3	90.00	355.23	7,200.0	4,414.0	217.4	0.00	0.00	0.00	0.00	Kiyota 4G-35H-O367

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site:	S35-T3N-R67W (Kiyota)	North Reference:	True
Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
248.0	0.00	0.00	248.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	KOP @ 700'
800.0	1.00	141.98	800.0	-0.7	0.5	-0.7	1.00	1.00	
900.0	2.00	141.98	900.0	-2.7	2.2	-2.7	1.00	1.00	
1,000.0	3.00	141.98	999.9	-6.2	4.8	-6.2	1.00	1.00	
1,100.0	4.00	141.98	1,099.7	-11.0	8.6	-11.0	1.00	1.00	
1,113.1	4.13	141.98	1,112.7	-11.7	9.2	-11.7	1.00	1.00	EOB; Inc=4.13°
1,200.0	4.13	141.98	1,199.4	-16.7	13.0	-16.7	0.00	0.00	
1,300.0	4.13	141.98	1,299.2	-22.3	17.5	-22.3	0.00	0.00	
1,400.0	4.13	141.98	1,398.9	-28.0	21.9	-28.0	0.00	0.00	
1,500.0	4.13	141.98	1,498.6	-33.7	26.3	-33.7	0.00	0.00	
1,600.0	4.13	141.98	1,598.4	-39.4	30.8	-39.4	0.00	0.00	
1,700.0	4.13	141.98	1,698.1	-45.0	35.2	-45.0	0.00	0.00	
1,800.0	4.13	141.98	1,797.9	-50.7	39.7	-50.7	0.00	0.00	
1,900.0	4.13	141.98	1,897.6	-56.4	44.1	-56.4	0.00	0.00	
2,000.0	4.13	141.98	1,997.3	-62.1	48.5	-62.1	0.00	0.00	
2,100.0	4.13	141.98	2,097.1	-67.7	53.0	-67.7	0.00	0.00	
2,200.0	4.13	141.98	2,196.8	-73.4	57.4	-73.4	0.00	0.00	
2,300.0	4.13	141.98	2,296.6	-79.1	61.8	-79.1	0.00	0.00	
2,400.0	4.13	141.98	2,396.3	-84.8	66.3	-84.8	0.00	0.00	
2,500.0	4.13	141.98	2,496.0	-90.4	70.7	-90.4	0.00	0.00	
2,600.0	4.13	141.98	2,595.8	-96.1	75.2	-96.1	0.00	0.00	
2,700.0	4.13	141.98	2,695.5	-101.8	79.6	-101.8	0.00	0.00	
2,800.0	4.13	141.98	2,795.3	-107.5	84.0	-107.5	0.00	0.00	
2,900.0	4.13	141.98	2,895.0	-113.1	88.5	-113.1	0.00	0.00	
3,000.0	4.13	141.98	2,994.7	-118.8	92.9	-118.8	0.00	0.00	
3,100.0	4.13	141.98	3,094.5	-124.5	97.3	-124.5	0.00	0.00	
3,200.0	4.13	141.98	3,194.2	-130.2	101.8	-130.2	0.00	0.00	
3,300.0	4.13	141.98	3,294.0	-135.8	106.2	-135.8	0.00	0.00	
3,400.0	4.13	141.98	3,393.7	-141.5	110.7	-141.5	0.00	0.00	
3,500.0	4.13	141.98	3,493.4	-147.2	115.1	-147.2	0.00	0.00	
3,600.0	4.13	141.98	3,593.2	-152.9	119.5	-152.9	0.00	0.00	
3,700.0	4.13	141.98	3,692.9	-158.5	124.0	-158.5	0.00	0.00	
3,800.0	4.13	141.98	3,792.7	-164.2	128.4	-164.2	0.00	0.00	
3,900.0	4.13	141.98	3,892.4	-169.9	132.8	-169.9	0.00	0.00	
4,000.0	4.13	141.98	3,992.1	-175.6	137.3	-175.6	0.00	0.00	
4,100.0	4.13	141.98	4,091.9	-181.2	141.7	-181.2	0.00	0.00	
4,132.2	4.13	141.98	4,124.0	-183.1	143.1	-183.1	0.00	0.00	Sussex
4,200.0	4.13	141.98	4,191.6	-186.9	146.2	-186.9	0.00	0.00	
4,300.0	4.13	141.98	4,291.4	-192.6	150.6	-192.6	0.00	0.00	
4,400.0	4.13	141.98	4,391.1	-198.2	155.0	-198.2	0.00	0.00	
4,423.0	4.13	141.98	4,414.0	-199.6	156.0	-199.6	0.00	0.00	Shannon
4,500.0	4.13	141.98	4,490.8	-203.9	159.5	-203.9	0.00	0.00	
4,600.0	4.13	141.98	4,590.6	-209.6	163.9	-209.6	0.00	0.00	
4,700.0	4.13	141.98	4,690.3	-215.3	168.3	-215.3	0.00	0.00	

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Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,723.7	4.13	141.98	4,714.0	-216.6	169.4	-216.6	0.00	0.00	Teepee Buttes (*if present)
4,800.0	4.13	141.98	4,790.1	-220.9	172.8	-220.9	0.00	0.00	
4,900.0	4.13	141.98	4,889.8	-226.6	177.2	-226.6	0.00	0.00	
5,000.0	4.13	141.98	4,989.5	-232.3	181.7	-232.3	0.00	0.00	
5,100.0	4.13	141.98	5,089.3	-238.0	186.1	-238.0	0.00	0.00	
5,200.0	4.13	141.98	5,189.0	-243.6	190.5	-243.6	0.00	0.00	
5,300.0	4.13	141.98	5,288.8	-249.3	195.0	-249.3	0.00	0.00	
5,400.0	4.13	141.98	5,388.5	-255.0	199.4	-255.0	0.00	0.00	
5,500.0	4.13	141.98	5,488.2	-260.7	203.8	-260.7	0.00	0.00	
5,600.0	4.13	141.98	5,588.0	-266.3	208.3	-266.3	0.00	0.00	
5,700.0	4.13	141.98	5,687.7	-272.0	212.7	-272.0	0.00	0.00	
5,800.0	4.13	141.98	5,787.5	-277.7	217.2	-277.7	0.00	0.00	
5,900.0	4.13	141.98	5,887.2	-283.4	221.6	-283.4	0.00	0.00	
6,000.0	4.13	141.98	5,986.9	-289.0	226.0	-289.0	0.00	0.00	
6,100.0	4.13	141.98	6,086.7	-294.7	230.5	-294.7	0.00	0.00	
6,200.0	4.13	141.98	6,186.4	-300.4	234.9	-300.4	0.00	0.00	
6,300.0	4.13	141.98	6,286.2	-306.1	239.3	-306.1	0.00	0.00	
6,400.0	4.13	141.98	6,385.9	-311.7	243.8	-311.7	0.00	0.00	
6,458.2	4.13	141.98	6,443.9	-315.0	246.4	-315.0	0.00	0.00	Start build/turn @ 6458' MD
6,500.0	2.55	87.90	6,485.7	-316.2	248.2	-316.2	8.00	-3.78	
6,600.0	8.48	17.36	6,585.3	-309.1	252.6	-309.1	8.00	5.93	
6,700.0	16.29	8.76	6,682.9	-288.1	257.0	-288.1	8.00	7.81	
6,800.0	24.22	5.68	6,776.6	-253.8	261.2	-253.8	8.00	7.93	
6,900.0	32.18	4.05	6,864.7	-206.8	265.1	-206.8	8.00	7.96	
7,000.0	40.16	3.02	6,945.3	-147.9	268.7	-147.9	8.00	7.98	
7,059.3	44.89	2.56	6,989.0	-107.9	270.6	-107.9	8.00	7.98	Sharon Springs
7,100.0	48.14	2.28	7,017.0	-78.4	271.9	-78.4	8.00	7.98	
7,197.6	55.94	1.72	7,077.0	-1.5	274.5	-1.5	8.00	7.99	Niobrara
7,200.0	56.13	1.71	7,078.3	0.5	274.6	0.5	8.00	7.99	
7,262.8	61.15	1.40	7,111.0	54.1	276.0	54.1	8.00	7.99	B Chalk
7,300.0	64.12	1.24	7,128.1	87.1	276.8	87.1	8.00	7.99	
7,338.6	67.20	1.07	7,144.0	122.2	277.5	122.2	8.00	7.99	B Marl
7,400.0	72.11	0.82	7,165.4	179.8	278.5	179.8	8.00	7.99	
7,430.2	74.52	0.71	7,174.0	208.7	278.8	208.7	8.00	7.99	C Chalk
7,500.0	80.10	0.44	7,189.3	276.8	279.5	276.8	8.00	7.99	
7,600.0	88.10	0.08	7,199.6	376.2	280.0	376.2	8.00	7.99	
7,623.8	90.00	0.00	7,200.0	400.0	280.0	400.0	8.00	7.99	LP @ 7200' TVD; 90°
7,700.0	90.00	0.00	7,200.0	476.2	280.0	476.2	0.00	0.00	
7,800.0	90.00	0.00	7,200.0	576.2	280.0	576.2	0.00	0.00	
7,900.0	90.00	0.00	7,200.0	676.2	280.0	676.2	0.00	0.00	
8,000.0	90.00	0.00	7,200.0	776.2	280.0	776.2	0.00	0.00	
8,100.0	90.00	0.00	7,200.0	876.2	280.0	876.2	0.00	0.00	
8,200.0	90.00	0.00	7,200.0	976.2	280.0	976.2	0.00	0.00	
8,300.0	90.00	0.00	7,200.0	1,076.2	280.0	1,076.2	0.00	0.00	
8,400.0	90.00	0.00	7,200.0	1,176.2	280.0	1,176.2	0.00	0.00	
8,500.0	90.00	0.00	7,200.0	1,276.2	280.0	1,276.2	0.00	0.00	
8,600.0	90.00	0.00	7,200.0	1,376.2	280.0	1,376.2	0.00	0.00	
8,700.0	90.00	0.00	7,200.0	1,476.2	280.0	1,476.2	0.00	0.00	
8,800.0	90.00	0.00	7,200.0	1,576.2	280.0	1,576.2	0.00	0.00	
8,900.0	90.00	0.00	7,200.0	1,676.2	280.0	1,676.2	0.00	0.00	
9,000.0	90.00	0.00	7,200.0	1,776.2	280.0	1,776.2	0.00	0.00	
9,100.0	90.00	0.00	7,200.0	1,876.2	280.0	1,876.2	0.00	0.00	

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site:	S35-T3N-R67W (Kiyota)	North Reference:	True
Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	0.00	7,200.0	1,976.2	280.0	1,976.2	0.00	0.00	
9,300.0	90.00	0.00	7,200.0	2,076.2	280.0	2,076.2	0.00	0.00	
9,400.0	90.00	0.00	7,200.0	2,176.2	280.0	2,176.2	0.00	0.00	
9,500.0	90.00	0.00	7,200.0	2,276.2	280.0	2,276.2	0.00	0.00	
9,600.0	90.00	0.00	7,200.0	2,376.2	280.0	2,376.2	0.00	0.00	
9,700.0	90.00	0.00	7,200.0	2,476.2	280.0	2,476.2	0.00	0.00	
9,800.0	90.00	0.00	7,200.0	2,576.2	280.0	2,576.2	0.00	0.00	
9,900.0	90.00	0.00	7,200.0	2,676.2	280.0	2,676.2	0.00	0.00	
10,000.0	90.00	0.00	7,200.0	2,776.2	280.0	2,776.2	0.00	0.00	
10,100.0	90.00	0.00	7,200.0	2,876.2	280.0	2,876.2	0.00	0.00	
10,200.0	90.00	0.00	7,200.0	2,976.2	280.0	2,976.2	0.00	0.00	
10,300.0	90.00	0.00	7,200.0	3,076.2	280.0	3,076.2	0.00	0.00	
10,400.0	90.00	0.00	7,200.0	3,176.2	280.0	3,176.2	0.00	0.00	
10,500.0	90.00	0.00	7,200.0	3,276.2	280.0	3,276.2	0.00	0.00	
10,600.0	90.00	0.00	7,200.0	3,376.2	280.0	3,376.2	0.00	0.00	
10,700.0	90.00	0.00	7,200.0	3,476.2	280.0	3,476.2	0.00	0.00	
10,723.8	90.00	0.00	7,200.0	3,500.0	280.0	3,500.0	0.00	0.00	Start turn @ 10,723' MD
10,800.0	90.00	358.89	7,200.0	3,576.2	279.3	3,576.2	1.46	0.00	
10,900.0	90.00	357.43	7,200.0	3,676.1	276.1	3,676.1	1.46	0.00	
11,000.0	90.00	355.97	7,200.0	3,775.9	270.3	3,775.9	1.46	0.00	
11,051.1	90.00	355.23	7,200.0	3,826.9	266.4	3,826.9	1.46	0.00	End of turn @ 11,051' MD
11,100.0	90.00	355.23	7,200.0	3,875.6	262.3	3,875.6	0.00	0.00	
11,200.0	90.00	355.23	7,200.0	3,975.3	254.0	3,975.3	0.00	0.00	
11,300.0	90.00	355.23	7,200.0	4,074.9	245.7	4,074.9	0.00	0.00	
11,400.0	90.00	355.23	7,200.0	4,174.6	237.4	4,174.6	0.00	0.00	
11,500.0	90.00	355.23	7,200.0	4,274.2	229.0	4,274.2	0.00	0.00	
11,600.0	90.00	355.23	7,200.0	4,373.9	220.7	4,373.9	0.00	0.00	
11,640.3	90.00	355.23	7,200.0	4,414.0	217.4	4,414.0	0.00	0.00	TD at 11640.3

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Kiyota 4G-35H-O367 PE - plan hits target center - Point	0.00	0.00	7,200.0	4,414.0	217.4	1,311,874.20	3,180,790.74	40.187673	-104.852909
Kiyota 4G-35H-O367 TC - plan hits target center - Point	0.00	0.00	7,200.0	3,500.0	280.0	1,310,960.64	3,180,860.04	40.185164	-104.852685

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site:	S35-T3N-R67W (Kiyota)	North Reference:	True
Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
248.0	248.0	Fox Hills - BASE				
4,132.2	4,124.0	Sussex				
4,423.0	4,414.0	Shannon				
4,723.7	4,714.0	Teepee Buttes (*if present)				
7,059.3	6,989.0	Sharon Springs				
7,197.6	7,077.0	Niobrara				
7,262.8	7,111.0	B Chalk				
7,338.6	7,144.0	B Marl				
7,430.2	7,174.0	C Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
700.0	700.0	0.0	0.0	KOP @ 700'	
1,113.1	1,112.7	-11.7	9.2	EOB; Inc=4.13°	
6,458.2	6,443.9	-315.0	246.4	Start build/turn @ 6458' MD	
7,623.8	7,200.0	400.0	280.0	LP @ 7200' TVD; 90°	
10,723.8	7,200.0	3,500.0	280.0	Start turn @ 10,723' MD	
11,051.1	7,200.0	3,826.9	266.4	End of turn @ 11,051' MD	
11,640.3	7,200.0	4,414.0	217.4	TD at 11640.3	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S35-T3N-R67W (Kiyota)

Kiyota 4G-35H-O367

Hz

Plan #2

Anticollision Report

24 June, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	6/24/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,640.3	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
S35-T3N-R67W (Kiyota)						
KAWAKAMI 1 (EXISTING) - ENCANA WELL - GYRO	10,789.5	7,172.2	83.9	6.1	1.078	Level 2, CC, ES, SF
KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURV	11,640.3	7,157.8	864.5	772.5	9.397	CC, ES, SF
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - GYRO						Out of range
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - GYRO						Out of range
KAWAKAMI 4-0-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - GYRO	11,537.0	7,192.4	562.4	472.2	6.235	CC, ES
KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - GYRO	11,600.0	7,192.2	566.0	474.7	6.199	SF
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - GYRO	9,913.7	7,166.0	548.0	485.1	8.710	CC, ES
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - GYRO	10,000.0	7,165.8	554.7	490.4	8.617	SF
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SUR	11,640.3	7,246.7	414.3	320.2	4.400	CC, ES, SF
KIYOTA 33-35 (EXISTING) - ENCANA WELL - GYRO						Out of range
KIYOTA 33-35 (EXISTING) - ENCANA WELL - GYRO						Out of range
KIYOTA 33-35 (EXISTING) - ENCANA WELL - GYRO						Out of range
KIYOTA 3-35 (EXISTING) - ENCANA WELL - GYRO	8,475.0	7,173.1	522.3	483.1	13.316	CC, ES
KIYOTA 3-35 (EXISTING) - ENCANA WELL - GYRO	8,600.0	7,173.1	537.1	495.9	13.042	SF
KIYOTA 34-35 (EXISTING) - ENCANA WELL - GYRO	100.0	83.7	545.9	545.6	1,828.608	CC, ES
KIYOTA 34-35 (EXISTING) - ENCANA WELL - GYRO	7,800.0	7,191.4	966.7	937.0	32.540	SF
KIYOTA 43-35 (EXISTING) - ENCANA WELL - GYRO	8,903.9	7,307.8	162.4	121.8	3.993	CC, ES, SF
KIYOTA 44-35 (EXISTING) - ENCANA WELL - GYRO	7,398.1	7,143.7	344.7	318.8	13.337	CC
KIYOTA 44-35 (EXISTING) - ENCANA WELL - GYRO	7,400.0	7,144.3	344.7	318.8	13.332	ES, SF
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Kiyota 4A-35H-O367 - Hz - Plan #1	200.0	200.0	45.0	44.3	68.921	CC, ES
Kiyota 4A-35H-O367 - Hz - Plan #1	700.0	695.1	65.7	63.3	26.922	SF
Kiyota 4B-35H-O367 - Hz - Plan #1	300.0	300.0	37.4	36.4	37.376	CC, ES
Kiyota 4B-35H-O367 - Hz - Plan #1	700.0	697.0	50.2	47.8	20.765	SF
Kiyota 4C-35H-O367 - Hz - Plan #2	400.0	400.0	29.9	28.5	22.133	CC, ES
Kiyota 4C-35H-O367 - Hz - Plan #2	11,640.3	11,593.2	902.5	744.0	5.694	SF
Kiyota 4D-35H-O367 - Hz - Plan #1	500.0	500.0	22.4	20.7	13.150	CC, ES
Kiyota 4D-35H-O367 - Hz - Plan #1	11,640.3	11,719.8	675.4	515.5	4.225	SF
Kiyota 4E-35H-O367 - Hz - Plan #1	600.0	600.0	14.8	12.8	7.228	CC, ES
Kiyota 4E-35H-O367 - Hz - Plan #1	11,640.3	11,886.4	474.8	322.7	3.122	SF
Kiyota 4F-35H-O367 - Hz - Plan #1	700.0	700.0	7.3	4.9	3.030	CC, ES
Kiyota 4F-35H-O367 - Hz - Plan #1	11,640.3	11,655.2	235.7	83.4	1.547	SF
Kiyota 4H-35H-O367 - Hz - Plan #1	600.0	600.0	7.6	5.5	3.686	CC, ES
Kiyota 4H-35H-O367 - Hz - Plan #1	11,640.3	11,892.7	270.6	137.4	2.031	SF
Kiyota 4I-35H-O367 - Hz - Plan #1	500.0	500.0	15.1	13.4	8.879	CC, ES
Kiyota 4I-35H-O367 - Hz - Plan #1	11,640.3	11,695.8	455.9	299.4	2.914	SF
Kiyota 4J-35H-O367 - Hz - Plan #1	400.0	400.0	22.6	21.3	16.757	CC, ES
Kiyota 4J-35H-O367 - Hz - Plan #1	11,600.0	11,695.7	664.6	508.8	4.265	SF
Kiyota 4K-35H-O367 - Hz - Plan #1	300.0	300.0	30.2	29.2	30.126	CC, ES
Kiyota 4K-35H-O367 - Hz - Plan #1	11,640.3	11,965.4	913.4	757.9	5.876	SF
Kiyota 4L-35H-O367 - Hz - Plan #1	200.0	200.0	37.7	37.1	57.794	CC, ES
Kiyota 4L-35H-O367 - Hz - Plan #1	700.0	695.7	58.5	56.1	24.332	SF
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	6,500.0	6,583.0	71.8	40.7	2.310	CC, ES, SF
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,268.9	7,168.0	312.1	260.1	5.996	CC, ES
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,300.0	7,168.0	313.7	261.1	5.966	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 1 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,800.0	7,200.0	7,176.3	7,175.8	48.7	12.6	-92.59	3,564.1	195.3	991.6	930.7	60.95	16.270		
9,900.0	7,200.0	7,175.9	7,175.4	50.4	12.6	-92.31	3,564.1	195.3	892.0	829.4	62.65	14.237		
10,000.0	7,200.0	7,175.5	7,175.0	52.1	12.5	-92.03	3,564.1	195.3	792.5	728.2	64.36	12.314		
10,100.0	7,200.0	7,175.1	7,174.6	53.8	12.5	-91.75	3,564.2	195.3	693.2	627.1	66.07	10.491		
10,200.0	7,200.0	7,174.6	7,174.2	55.5	12.5	-91.47	3,564.2	195.3	594.1	526.3	67.79	8.764		
10,300.0	7,200.0	7,174.2	7,173.8	57.2	12.5	-91.19	3,564.2	195.3	495.3	425.8	69.50	7.126		
10,400.0	7,200.0	7,173.8	7,173.4	58.9	12.5	-90.92	3,564.2	195.3	397.1	325.9	71.22	5.576		
10,500.0	7,200.0	7,173.4	7,173.0	60.6	12.5	-90.64	3,564.2	195.3	300.2	227.2	72.94	4.115		
10,600.0	7,200.0	7,173.0	7,172.5	62.3	12.5	-90.36	3,564.2	195.4	206.2	131.5	74.66	2.762		
10,700.0	7,200.0	7,172.6	7,172.1	64.0	12.5	-90.09	3,564.2	195.4	122.1	45.7	76.38	1.599		
10,789.5	7,200.0	7,172.2	7,171.8	65.6	12.5	-89.84	3,564.2	195.4	83.9	6.1	77.82	1.078	Level 2, CC, ES, SF	
10,800.0	7,200.0	7,172.2	7,171.7	65.8	12.5	-89.81	3,564.2	195.4	84.8	6.8	77.99	1.087	Level 2	
10,900.0	7,200.0	7,171.8	7,171.3	67.5	12.5	-89.55	3,564.2	195.4	138.0	58.5	79.54	1.735		
11,000.0	7,200.0	7,171.4	7,170.9	69.2	12.5	-89.32	3,564.2	195.4	224.6	143.6	81.06	2.772		
11,100.0	7,200.0	7,171.0	7,170.6	70.9	12.5	-89.11	3,564.2	195.4	318.6	235.9	82.65	3.854		
11,200.0	7,200.0	7,170.6	7,170.2	72.6	12.5	-88.88	3,564.2	195.4	415.3	330.9	84.37	4.922		
11,300.0	7,200.0	7,170.3	7,169.8	74.3	12.5	-88.64	3,564.2	195.4	513.2	427.1	86.10	5.961		
11,400.0	7,200.0	7,169.9	7,169.4	76.0	12.5	-88.41	3,564.2	195.4	611.9	524.0	87.82	6.967		
11,500.0	7,200.0	7,169.5	7,169.1	77.7	12.5	-88.17	3,564.2	195.4	710.9	621.3	89.54	7.939		
11,600.0	7,200.0	7,169.1	7,168.7	79.5	12.5	-87.94	3,564.2	195.4	810.1	718.9	91.26	8.877		
11,640.3	7,200.0	7,169.0	7,168.5	80.2	12.5	-87.85	3,564.2	195.4	850.2	758.2	91.95	9.246		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,300.0	7,200.0	7,160.8	7,159.5	74.3	12.6	-89.57	4,446.8	-646.5	966.6	880.4	86.11	11.225	
11,400.0	7,200.0	7,159.9	7,158.7	76.0	12.6	-89.51	4,446.8	-646.5	924.8	837.0	87.83	10.529	
11,500.0	7,200.0	7,159.0	7,157.8	77.7	12.6	-89.45	4,446.8	-646.5	892.4	802.8	89.56	9.964	
11,600.0	7,200.0	7,158.2	7,156.9	79.5	12.6	-89.39	4,446.8	-646.5	870.3	779.0	91.29	9.533	
11,640.3	7,200.0	7,157.8	7,156.6	80.2	12.6	-89.37	4,446.8	-646.4	864.5	772.5	91.99	9.397	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,800.0	7,200.0	7,200.0	7,198.4	65.8	12.7	93.89	4,357.7	785.4	931.8	853.9	77.93	11.957		
10,900.0	7,200.0	7,194.4	7,192.8	67.5	12.7	93.16	4,357.8	785.7	851.6	772.1	79.52	10.709		
11,000.0	7,200.0	7,194.0	7,192.4	69.2	12.7	93.03	4,357.8	785.7	777.8	696.8	81.04	9.598		
11,100.0	7,200.0	7,193.7	7,192.1	70.9	12.7	92.97	4,357.8	785.7	712.2	629.6	82.64	8.618		
11,200.0	7,200.0	7,193.4	7,191.8	72.6	12.7	92.94	4,357.8	785.7	655.6	571.3	84.37	7.771		
11,300.0	7,200.0	7,193.1	7,191.5	74.3	12.7	92.91	4,357.8	785.7	610.3	524.2	86.10	7.088		
11,400.0	7,200.0	7,192.8	7,191.2	76.0	12.7	92.88	4,357.8	785.7	578.9	491.0	87.83	6.591		
11,500.0	7,200.0	7,192.5	7,190.9	77.7	12.7	92.85	4,357.8	785.7	563.6	474.1	89.56	6.293		
11,537.0	7,200.0	7,192.4	7,190.8	78.4	12.7	92.83	4,357.8	785.8	562.4	472.2	90.20	6.235 CC, ES		
11,600.0	7,200.0	7,192.2	7,190.6	79.5	12.7	92.81	4,357.8	785.8	566.0	474.7	91.29	6.199 SF		
11,640.3	7,200.0	7,192.1	7,190.5	80.2	12.7	92.80	4,357.8	785.8	571.8	479.9	91.99	6.216		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - GYRO												Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis		
9,100.0	7,200.0	7,167.6	7,166.2	37.1	12.6	90.44	2,689.8	828.0	981.0	931.7	49.25	19.916	
9,200.0	7,200.0	7,167.4	7,166.0	38.7	12.6	90.42	2,689.8	828.0	899.8	848.9	50.91	17.674	
9,300.0	7,200.0	7,167.2	7,165.8	40.4	12.6	90.40	2,689.8	828.0	822.7	770.1	52.57	15.649	
9,400.0	7,200.0	7,167.0	7,165.6	42.0	12.6	90.38	2,689.8	828.0	751.1	696.8	54.24	13.847	
9,500.0	7,200.0	7,166.8	7,165.4	43.7	12.6	90.36	2,689.8	828.0	686.6	630.7	55.92	12.278	
9,600.0	7,200.0	7,166.6	7,165.2	45.4	12.6	90.33	2,689.8	828.0	631.4	573.8	57.60	10.961	
9,700.0	7,200.0	7,166.4	7,165.0	47.0	12.6	90.31	2,689.8	828.0	588.2	528.9	59.29	9.920	
9,800.0	7,200.0	7,166.2	7,164.8	48.7	12.6	90.29	2,689.8	828.0	559.6	498.7	60.98	9.177	
9,900.0	7,200.0	7,166.0	7,164.6	50.4	12.6	90.27	2,689.8	828.0	548.1	485.5	62.68	8.745	
9,913.7	7,200.0	7,166.0	7,164.6	50.6	12.6	90.27	2,689.8	828.0	548.0	485.1	62.91	8.710 CC, ES	
10,000.0	7,200.0	7,165.8	7,164.4	52.1	12.6	90.25	2,689.8	828.0	554.7	490.4	64.38	8.617 SF	
10,100.0	7,200.0	7,165.6	7,164.2	53.8	12.6	90.23	2,689.8	828.0	578.8	512.7	66.08	8.758	
10,200.0	7,200.0	7,165.4	7,164.0	55.5	12.6	90.21	2,689.8	828.0	618.3	550.5	67.79	9.120	
10,300.0	7,200.0	7,165.2	7,163.8	57.2	12.6	90.19	2,689.8	828.0	670.5	601.0	69.50	9.647	
10,400.0	7,200.0	7,165.0	7,163.6	58.9	12.6	90.17	2,689.8	828.0	732.7	661.4	71.21	10.288	
10,500.0	7,200.0	7,164.8	7,163.4	60.6	12.6	90.15	2,689.8	828.0	802.5	729.6	72.93	11.005	
10,600.0	7,200.0	7,164.6	7,163.2	62.3	12.6	90.13	2,689.8	828.0	878.3	803.6	74.64	11.766	
10,700.0	7,200.0	7,164.4	7,163.0	64.0	12.6	90.11	2,689.8	828.0	958.4	882.1	76.36	12.551	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 528-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
11,100.0	7,200.0	7,247.4	7,182.1	70.9	19.3	-90.92	4,821.2	140.7	953.4	868.6	84.79	11.244	
11,200.0	7,200.0	7,247.3	7,182.0	72.6	19.3	-90.74	4,821.2	140.7	853.5	767.0	86.53	9.864	
11,300.0	7,200.0	7,247.2	7,181.8	74.3	19.3	-90.56	4,821.2	140.7	753.6	665.4	88.26	8.539	
11,400.0	7,200.0	7,247.0	7,181.7	76.0	19.3	-90.38	4,821.2	140.7	653.8	563.8	89.99	7.265	
11,500.0	7,200.0	7,246.9	7,181.5	77.7	19.3	-90.19	4,821.2	140.7	554.1	462.3	91.73	6.040	
11,600.0	7,200.0	7,246.7	7,181.4	79.5	19.3	-90.00	4,821.2	140.7	454.4	361.0	93.46	4.862	
11,640.3	7,200.0	7,246.7	7,181.3	80.2	19.3	-89.92	4,821.2	140.7	414.3	320.2	94.16	4.400 CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 3-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
7,700.0	7,200.0	7,172.7	7,171.8	16.7	12.6	-89.54	1,251.1	-242.3	934.6	906.0	28.52	32.769		
7,800.0	7,200.0	7,172.8	7,171.9	17.8	12.6	-89.55	1,251.1	-242.3	853.5	823.8	29.67	28.763		
7,900.0	7,200.0	7,172.8	7,171.9	19.0	12.6	-89.55	1,251.1	-242.3	776.8	745.9	30.92	25.123		
8,000.0	7,200.0	7,172.9	7,172.0	20.3	12.6	-89.56	1,251.1	-242.3	706.0	673.7	32.24	21.895		
8,100.0	7,200.0	7,172.9	7,172.0	21.7	12.6	-89.56	1,251.1	-242.3	643.0	609.3	33.63	19.118		
8,200.0	7,200.0	7,172.9	7,172.1	23.1	12.6	-89.57	1,251.1	-242.3	590.3	555.2	35.07	16.831		
8,300.0	7,200.0	7,173.0	7,172.1	24.5	12.6	-89.57	1,251.1	-242.3	550.8	514.3	36.55	15.071		
8,400.0	7,200.0	7,173.0	7,172.2	26.0	12.6	-89.58	1,251.1	-242.3	527.7	489.6	38.07	13.862		
8,475.0	7,200.0	7,173.1	7,172.2	27.1	12.6	-89.58	1,251.1	-242.3	522.3	483.1	39.22	13.316 CC, ES		
8,500.0	7,200.0	7,173.1	7,172.2	27.5	12.6	-89.58	1,251.1	-242.3	522.9	483.3	39.61	13.201		
8,600.0	7,200.0	7,173.1	7,172.3	29.1	12.6	-89.59	1,251.1	-242.3	537.1	495.9	41.18	13.042 SF		
8,700.0	7,200.0	7,173.2	7,172.3	30.6	12.6	-89.60	1,251.1	-242.3	568.7	526.0	42.77	13.298		
8,800.0	7,200.0	7,173.2	7,172.4	32.2	12.6	-89.60	1,251.1	-242.3	615.2	570.8	44.37	13.864		
8,900.0	7,200.0	7,173.3	7,172.4	33.8	12.6	-89.61	1,251.1	-242.3	673.4	627.4	45.99	14.641		
9,000.0	7,200.0	7,173.3	7,172.5	35.4	12.6	-89.61	1,251.1	-242.3	740.6	693.0	47.63	15.549		
9,100.0	7,200.0	7,173.4	7,172.5	37.1	12.6	-89.62	1,251.1	-242.3	814.5	765.3	49.27	16.531		
9,200.0	7,200.0	7,173.4	7,172.6	38.7	12.6	-89.62	1,251.1	-242.3	893.6	842.7	50.93	17.546		
9,300.0	7,200.0	7,173.5	7,172.6	40.4	12.6	-89.63	1,251.1	-242.3	976.5	923.9	52.59	18.567		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 34-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-66.64	216.4	-501.0	545.9					
100.0	100.0	83.7	83.7	0.2	0.1	-66.67	216.2	-501.3	545.9	0.30	1,828.608 CC, ES			
200.0	200.0	182.2	182.2	0.3	0.3	-66.74	215.8	-502.1	546.5	0.65	846.377			
300.0	300.0	281.6	281.6	0.5	0.5	-66.81	215.5	-503.0	547.3	0.99	550.281			
400.0	400.0	382.8	382.8	0.7	0.7	-66.86	215.3	-503.9	548.0	1.35	407.091			
500.0	500.0	484.4	484.4	0.8	0.8	-66.91	215.1	-504.5	548.4	1.70	322.945			
600.0	600.0	584.6	584.6	1.0	1.0	-66.96	214.7	-504.9	548.7	2.05	267.932			
700.0	700.0	683.2	683.2	1.2	1.2	-67.01	214.4	-505.4	549.0	2.39	229.250			
800.0	800.0	784.3	784.3	1.4	1.4	150.99	214.1	-506.1	550.3	2.74	200.508			
900.0	900.0	882.7	882.6	1.6	1.5	151.06	213.8	-506.6	553.0	3.09	178.923			
1,000.0	999.9	982.2	982.1	1.7	1.7	151.22	213.7	-507.4	557.4	3.44	162.091			
1,100.0	1,099.7	1,080.2	1,080.2	1.9	1.9	151.43	213.6	-508.3	563.6	3.79	148.846			
1,200.0	1,199.4	1,179.8	1,179.8	2.1	2.1	151.70	213.3	-509.5	570.9	4.14	137.929			
1,300.0	1,299.2	1,279.5	1,279.5	2.3	2.2	151.95	212.9	-510.8	578.3	4.49	128.687			
1,400.0	1,398.9	1,378.7	1,378.6	2.5	2.4	152.18	212.4	-512.1	585.6	4.85	120.814			
1,500.0	1,498.6	1,479.0	1,478.9	2.7	2.6	152.41	211.9	-513.5	593.1	5.20	113.972			
1,600.0	1,598.4	1,580.0	1,579.9	2.9	2.8	152.66	211.5	-514.6	600.3	5.56	107.952			
1,700.0	1,698.1	1,660.0	1,679.9	3.1	2.9	152.91	211.3	-515.5	607.4	5.92	102.670			
1,800.0	1,797.9	1,778.7	1,778.6	3.3	3.1	153.19	211.3	-516.3	614.6	6.27	98.039			
1,900.0	1,897.6	1,877.2	1,877.1	3.5	3.3	153.48	211.7	-517.1	622.0	6.62	93.940			
2,000.0	1,997.3	1,974.0	1,973.9	3.8	3.5	153.73	211.9	-518.4	629.7	6.97	90.329			
2,100.0	2,097.1	2,072.1	2,072.0	4.0	3.6	153.94	211.9	-520.2	637.8	7.32	87.091			
2,200.0	2,196.8	2,171.1	2,171.0	4.2	3.8	154.14	211.8	-522.2	646.1	7.68	84.148			
2,300.0	2,296.6	2,269.6	2,269.5	4.4	4.0	154.30	211.5	-524.4	654.5	8.03	81.485			
2,400.0	2,396.3	2,368.5	2,368.3	4.6	4.2	154.44	211.1	-526.9	663.0	8.39	79.060			
2,500.0	2,496.0	2,469.4	2,469.2	4.8	4.3	154.58	210.7	-529.4	671.6	8.74	76.799			
2,600.0	2,595.8	2,570.1	2,569.9	5.0	4.5	154.72	210.2	-531.7	679.9	9.10	74.694			
2,700.0	2,695.5	2,668.0	2,667.7	5.2	4.7	154.87	209.9	-533.9	688.2	9.45	72.795			
2,800.0	2,795.3	2,766.4	2,766.1	5.4	4.9	155.04	210.0	-536.2	696.9	9.81	71.059			
2,900.0	2,895.0	2,863.9	2,863.5	5.7	5.0	155.21	210.3	-538.5	705.7	10.16	69.473			
3,000.0	2,994.7	2,963.4	2,963.0	5.9	5.2	155.40	210.8	-541.1	714.8	10.51	67.999			
3,100.0	3,094.5	3,063.4	3,063.0	6.1	5.4	155.59	211.5	-543.5	723.8	10.87	66.609			
3,200.0	3,194.2	3,162.6	3,162.1	6.3	5.6	155.83	212.7	-545.6	732.8	11.22	65.326			
3,300.0	3,294.0	3,264.6	3,264.2	6.5	5.8	156.09	214.1	-547.6	741.7	11.57	64.090			
3,400.0	3,393.7	3,365.5	3,365.0	6.7	5.9	156.32	215.1	-549.3	750.3	11.93	62.903			
3,500.0	3,493.4	3,463.5	3,463.0	6.9	6.1	156.52	215.8	-551.2	758.9	12.28	61.813			
3,600.0	3,593.2	3,558.0	3,557.5	7.1	6.3	156.67	216.3	-553.5	767.9	12.62	60.838			
3,700.0	3,692.9	3,654.1	3,653.5	7.4	6.5	156.76	216.5	-556.9	777.7	12.97	59.953			
3,800.0	3,792.7	3,750.5	3,749.8	7.6	6.6	156.85	216.6	-560.5	787.7	13.32	59.131			
3,900.0	3,892.4	3,846.4	3,845.7	7.8	6.8	156.96	217.4	-564.4	798.3	13.67	58.400			
4,000.0	3,992.1	3,944.7	3,943.9	8.0	7.0	157.10	218.7	-568.4	809.1	14.02	57.709			
4,100.0	4,091.9	4,043.4	4,042.4	8.2	7.2	157.24	220.1	-572.4	820.0	14.37	57.057			
4,200.0	4,191.6	4,143.9	4,142.9	8.4	7.4	157.40	221.9	-576.4	830.9	14.72	56.433			
4,300.0	4,291.4	4,244.9	4,243.8	8.6	7.5	157.64	224.4	-579.6	841.6	15.08	55.822			
4,400.0	4,391.1	4,343.7	4,342.5	8.9	7.7	157.89	227.3	-582.6	852.3	15.42	55.261			
4,500.0	4,490.8	4,442.1	4,440.9	9.1	7.9	158.17	230.6	-585.3	863.0	15.77	54.730			
4,600.0	4,590.6	4,540.6	4,539.3	9.3	8.1	158.44	233.9	-588.3	874.0	16.11	54.235			
4,700.0	4,690.3	4,640.7	4,639.2	9.5	8.3	158.66	236.7	-591.4	884.8	16.47	53.740			
4,800.0	4,790.1	4,741.8	4,740.2	9.7	8.5	158.82	238.8	-595.2	895.8	16.82	53.258			
4,900.0	4,889.8	4,845.5	4,843.9	9.9	8.6	158.93	239.9	-599.0	906.1	17.18	52.747			
5,000.0	4,989.5	4,950.3	4,948.6	10.1	8.8	159.01	240.5	-602.7	916.2	17.54	52.233			
5,100.0	5,089.3	5,057.3	5,055.6	10.4	9.0	159.10	240.7	-605.6	925.4	17.91	51.677			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 34-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,189.0	5,157.5	5,155.7	10.6	9.2	159.17	240.5	-608.1	934.1	915.9	18.26	51.151		
5,300.0	5,288.8	5,257.7	5,255.9	10.8	9.4	159.23	240.2	-610.8	943.0	924.4	18.62	50.649		
5,400.0	5,388.5	5,359.9	5,358.0	11.0	9.6	159.28	239.6	-613.3	951.6	932.6	18.98	50.144		
5,500.0	5,488.2	5,463.5	5,461.6	11.2	9.8	159.33	239.0	-615.6	959.9	940.5	19.34	49.637		
5,600.0	5,588.0	5,566.8	5,565.0	11.4	9.9	159.41	238.5	-617.2	967.7	948.0	19.70	49.129		
5,700.0	5,687.7	5,666.4	5,664.6	11.6	10.1	159.51	238.3	-618.4	975.3	955.3	20.05	48.647		
5,800.0	5,787.5	5,766.0	5,764.1	11.9	10.3	159.63	238.4	-619.5	983.0	962.6	20.40	48.188		
5,900.0	5,887.2	5,866.9	5,865.0	12.1	10.5	159.78	238.9	-620.3	990.7	970.0	20.75	47.739		
6,000.0	5,986.9	5,968.1	5,966.2	12.3	10.6	159.94	239.5	-620.8	998.2	977.1	21.10	47.299		
6,900.0	6,864.7	6,843.7	6,841.8	13.3	12.2	-70.21	243.8	-627.0	999.4	975.6	23.75	42.074		
7,000.0	6,945.3	6,925.2	6,923.3	13.3	12.3	-73.66	244.3	-627.4	978.2	954.2	24.01	40.741		
7,100.0	7,017.0	6,996.2	6,994.2	13.3	12.4	-77.74	244.9	-627.9	956.1	931.7	24.34	39.274		
7,200.0	7,078.3	7,057.5	7,055.6	13.4	12.5	-81.95	245.4	-628.3	935.6	910.8	24.76	37.788		
7,300.0	7,128.1	7,108.4	7,106.4	13.7	12.6	-85.74	246.0	-628.7	919.3	894.1	25.26	36.398		
7,400.0	7,165.4	7,149.3	7,147.4	14.2	12.7	-88.72	246.4	-628.9	909.8	883.9	25.87	35.169		
7,459.0	7,181.2	7,166.9	7,165.0	14.6	12.7	-89.86	246.6	-628.9	908.1	881.8	26.32	34.509		
7,500.0	7,189.3	7,176.2	7,174.3	14.9	12.7	-90.33	246.7	-628.9	909.0	882.3	26.62	34.147		
7,600.0	7,199.6	7,188.5	7,186.5	15.7	12.8	-90.33	246.9	-628.9	918.1	890.6	27.52	33.359		
7,700.0	7,200.0	7,190.1	7,188.2	16.7	12.8	-90.14	246.9	-628.9	937.4	908.9	28.56	32.828		
7,800.0	7,200.0	7,191.4	7,189.4	17.8	12.8	-90.22	246.9	-628.9	966.7	937.0	29.71	32.540 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 43-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,000.0	7,200.0	7,359.7	7,131.7	20.3	20.8	73.89	1,677.0	443.8	916.8	884.8	32.09	28.568		
8,100.0	7,200.0	7,354.2	7,127.2	21.7	20.7	72.14	1,677.3	440.8	818.8	785.6	33.22	24.648		
8,200.0	7,200.0	7,348.7	7,122.6	23.1	20.7	70.33	1,677.7	437.7	721.2	686.9	34.34	21.004		
8,300.0	7,200.0	7,343.2	7,118.0	24.5	20.6	68.47	1,678.0	434.6	624.3	588.9	35.43	17.623		
8,400.0	7,200.0	7,337.5	7,113.3	26.0	20.6	66.56	1,678.3	431.5	528.6	492.1	36.48	14.491		
8,500.0	7,200.0	7,331.8	7,108.6	27.5	20.5	64.60	1,678.6	428.3	434.7	397.2	37.47	11.600		
8,600.0	7,200.0	7,326.0	7,103.7	29.1	20.4	62.59	1,679.0	425.1	344.1	305.7	38.40	8.962		
8,700.0	7,200.0	7,320.1	7,098.9	30.6	20.4	60.53	1,679.3	421.8	260.4	221.2	39.25	6.636		
8,800.0	7,200.0	7,314.1	7,093.9	32.2	20.3	58.43	1,679.7	418.5	192.7	152.7	40.00	4.818		
8,900.0	7,200.0	7,308.1	7,088.9	33.8	20.3	56.30	1,680.1	415.2	162.5	121.8	40.66	3.997		
8,903.9	7,200.0	7,307.8	7,088.7	33.9	20.3	56.22	1,680.1	415.0	162.4	121.8	40.68	3.993 CC, ES, SF		
9,000.0	7,200.0	7,301.9	7,083.8	35.4	20.2	54.14	1,680.5	411.7	188.6	147.4	41.20	4.578		
9,100.0	7,200.0	7,295.5	7,078.5	37.1	20.1	51.90	1,680.9	408.2	254.3	212.7	41.61	6.112		
9,200.0	7,200.0	7,288.9	7,073.0	38.7	20.1	49.61	1,681.3	404.5	337.2	295.3	41.89	8.051		
9,300.0	7,200.0	7,282.3	7,067.5	40.4	20.0	47.31	1,681.7	400.8	427.4	385.3	42.03	10.168		
9,400.0	7,200.0	7,275.6	7,062.0	42.0	19.9	45.01	1,682.1	397.1	521.1	479.0	42.05	12.391		
9,500.0	7,200.0	7,268.8	7,056.4	43.7	19.9	42.72	1,682.5	393.3	616.7	574.7	41.94	14.703		
9,600.0	7,200.0	7,261.9	7,050.7	45.4	19.8	40.44	1,683.0	389.4	713.4	671.7	41.71	17.105		
9,700.0	7,200.0	7,254.9	7,044.9	47.0	19.7	38.18	1,683.4	385.5	810.9	769.5	41.36	19.608		
9,800.0	7,200.0	7,247.8	7,039.1	48.7	19.7	35.94	1,683.9	381.5	908.9	868.0	40.89	22.228		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 44-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	76.32	155.9	640.7	659.9					
100.0	100.0	74.3	74.3	0.2	0.1	76.31	156.1	640.7	659.5	0.28	2,340.473			
200.0	200.0	173.7	173.7	0.3	0.3	76.27	156.6	640.8	659.6	0.63	1,047.045			
300.0	300.0	274.7	274.7	0.5	0.5	76.22	157.2	640.8	659.8	0.98	672.577			
400.0	400.0	372.1	372.1	0.7	0.7	76.14	158.1	640.7	659.9	1.33	497.421			
500.0	500.0	468.1	468.1	0.8	0.8	76.01	159.7	641.0	660.7	1.67	395.445			
600.0	600.0	563.7	563.7	1.0	1.0	75.91	161.2	642.0	662.1	2.01	328.696			
700.0	700.0	659.6	659.5	1.2	1.2	75.88	162.0	643.9	664.1	2.36	281.734			
800.0	800.0	758.8	758.7	1.4	1.3	-66.07	161.7	646.5	666.2	2.70	246.767			
900.0	900.0	860.9	860.7	1.6	1.5	-66.15	160.9	649.1	667.5	3.05	218.599			
1,000.0	999.9	961.6	961.5	1.7	1.7	-66.39	160.4	651.3	667.7	3.41	195.867			
1,100.0	1,099.7	1,061.8	1,061.6	1.9	1.9	-66.78	159.7	653.5	667.3	3.77	176.980			
1,200.0	1,199.4	1,164.2	1,164.0	2.1	2.1	-67.29	159.3	655.6	666.3	4.14	160.902			
1,300.0	1,299.2	1,265.7	1,265.5	2.3	2.2	-67.80	158.9	657.1	664.9	4.51	147.315			
1,400.0	1,398.9	1,365.6	1,365.3	2.5	2.4	-68.31	158.5	658.6	663.5	4.89	135.798			
1,500.0	1,498.6	1,471.5	1,471.3	2.7	2.6	-68.86	158.2	659.8	661.9	5.27	125.560			
1,600.0	1,598.4	1,576.4	1,576.1	2.9	2.8	-69.47	158.1	659.7	659.2	5.66	116.538			
1,700.0	1,698.1	1,675.7	1,675.4	3.1	2.9	-70.09	158.3	659.1	656.2	6.03	108.768			
1,800.0	1,797.9	1,773.7	1,773.5	3.3	3.1	-70.74	159.0	658.7	653.6	6.41	101.971			
1,900.0	1,897.6	1,871.3	1,871.1	3.5	3.3	-71.42	160.0	658.4	651.3	6.79	95.973			
2,000.0	1,997.3	1,967.3	1,967.1	3.8	3.4	-72.10	161.3	658.4	649.5	7.16	90.698			
2,100.0	2,097.1	2,064.5	2,064.2	4.0	3.6	-72.80	162.9	658.9	648.4	7.54	85.997			
2,200.0	2,196.8	2,162.2	2,161.9	4.2	3.8	-73.51	164.5	659.7	647.7	7.92	81.774			
2,300.0	2,296.6	2,261.1	2,260.7	4.4	4.0	-74.24	166.4	660.7	647.3	8.30	77.956			
2,400.0	2,396.3	2,363.4	2,363.0	4.6	4.1	-74.93	167.7	661.9	646.9	8.69	74.418			
2,500.0	2,496.0	2,465.0	2,464.6	4.8	4.3	-75.61	168.6	662.7	646.2	9.08	71.146			
2,600.0	2,595.8	2,564.8	2,564.4	5.0	4.5	-76.25	169.2	663.5	645.4	9.47	68.160			
2,700.0	2,695.5	2,665.1	2,664.8	5.2	4.7	-76.87	169.6	664.3	644.7	9.86	65.406			
2,800.0	2,795.3	2,765.2	2,764.9	5.4	4.9	-77.49	169.9	665.1	643.9	10.24	62.856			
2,900.0	2,895.0	2,869.4	2,869.0	5.7	5.0	-78.11	169.8	665.9	643.0	10.64	60.435			
3,000.0	2,994.7	2,975.7	2,975.4	5.9	5.2	-78.66	168.5	666.1	641.2	11.04	58.084			
3,100.0	3,094.5	3,079.4	3,079.0	6.1	5.4	-79.13	166.0	665.9	638.6	11.43	55.849			
3,200.0	3,194.2	3,179.3	3,178.9	6.3	5.6	-79.64	164.1	665.1	635.7	11.82	53.769			
3,300.0	3,294.0	3,279.3	3,278.9	6.5	5.7	-80.20	162.6	664.2	632.9	12.21	51.826			
3,400.0	3,393.7	3,375.8	3,375.4	6.7	5.9	-80.77	161.4	663.3	630.3	12.59	50.044			
3,500.0	3,493.4	3,473.3	3,472.9	6.9	6.1	-81.43	161.3	662.5	628.3	12.98	48.407			
3,600.0	3,593.2	3,573.3	3,572.9	7.1	6.2	-82.14	161.5	661.6	626.6	13.37	46.866			
3,700.0	3,692.9	3,673.8	3,673.4	7.4	6.4	-82.88	161.9	660.4	624.9	13.76	45.406			
3,800.0	3,792.7	3,777.0	3,776.5	7.6	6.6	-83.65	162.1	658.9	622.9	14.16	44.000			
3,900.0	3,892.4	3,879.8	3,879.3	7.8	6.8	-84.41	162.0	657.0	620.5	14.55	42.636			
4,000.0	3,992.1	3,981.2	3,980.7	8.0	7.0	-85.17	161.6	654.7	617.7	14.95	41.332			
4,100.0	4,091.9	4,081.6	4,081.0	8.2	7.1	-85.95	161.4	652.1	614.9	15.34	40.094			
4,200.0	4,191.6	4,182.0	4,181.4	8.4	7.3	-86.80	161.6	649.1	612.1	15.73	38.918			
4,300.0	4,291.4	4,281.2	4,280.5	8.6	7.5	-87.70	162.3	645.8	609.3	16.12	37.809			
4,400.0	4,391.1	4,377.6	4,376.9	8.9	7.6	-88.60	163.2	642.6	607.0	16.50	36.788			
4,500.0	4,490.8	4,474.0	4,473.2	9.1	7.8	-89.54	164.7	639.7	605.4	16.88	35.856			
4,600.0	4,590.6	4,569.3	4,568.5	9.3	8.0	-90.47	166.5	637.2	604.5	17.27	35.012			
4,700.0	4,690.3	4,667.2	4,666.4	9.5	8.1	-91.37	168.3	635.4	604.4	17.65	34.240			
4,800.0	4,790.1	4,768.7	4,767.9	9.7	8.3	-92.22	169.4	634.1	604.3	18.04	33.496			
4,900.0	4,889.8	4,868.9	4,868.0	9.9	8.5	-93.03	170.0	632.9	604.1	18.43	32.779			
5,000.0	4,989.5	4,970.9	4,970.1	10.1	8.7	-93.81	170.3	631.8	603.9	18.82	32.087			
5,100.0	5,089.3	5,071.8	5,070.9	10.4	8.9	-94.56	170.0	630.6	603.4	19.21	31.411			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 44-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,189.0	5,172.7	5,171.9	10.6	9.0	-95.27	169.4	629.5	602.8	583.2	19.60	30.762		
5,300.0	5,288.8	5,272.7	5,271.8	10.8	9.2	-95.95	168.4	628.6	602.2	582.2	19.98	30.137		
5,400.0	5,388.5	5,371.4	5,370.5	11.0	9.4	-96.62	167.6	627.7	601.7	581.3	20.36	29.547		
5,496.9	5,485.1	5,466.5	5,465.6	11.2	9.5	-97.28	166.9	626.9	601.5	580.8	20.73	29.013		
5,500.0	5,488.2	5,469.6	5,468.7	11.2	9.6	-97.30	166.9	626.9	601.5	580.8	20.74	28.997		
5,600.0	5,588.0	5,567.3	5,566.4	11.4	9.7	-97.98	166.5	626.2	601.7	580.6	21.12	28.486		
5,700.0	5,687.7	5,663.4	5,662.5	11.6	9.9	-98.66	166.5	625.9	602.5	581.0	21.50	28.022		
5,800.0	5,787.5	5,758.0	5,757.1	11.9	10.1	-99.31	166.9	626.0	604.0	582.2	21.87	27.615		
5,900.0	5,887.2	5,855.4	5,854.5	12.1	10.2	-99.95	167.7	626.9	606.4	584.2	22.25	27.255		
6,000.0	5,986.9	5,957.7	5,956.8	12.3	10.4	-100.64	168.6	627.6	608.9	586.3	22.64	26.900		
6,100.0	6,086.7	6,059.6	6,058.7	12.5	10.6	-101.35	169.2	627.8	610.9	587.8	23.02	26.538		
6,200.0	6,186.4	6,159.1	6,158.2	12.7	10.8	-102.05	169.9	627.8	612.8	589.4	23.40	26.192		
6,300.0	6,286.2	6,258.4	6,257.5	12.9	10.9	-102.73	170.6	627.9	614.9	591.2	23.77	25.866		
6,400.0	6,385.9	6,359.7	6,358.8	13.1	11.1	-103.43	171.2	627.9	617.1	592.9	24.15	25.548		
6,500.0	6,485.7	6,460.7	6,459.7	13.3	11.3	-50.03	171.5	627.8	618.0	593.5	24.51	25.217		
6,600.0	6,585.3	6,559.6	6,558.6	13.4	11.5	20.77	172.0	627.5	609.9	585.2	24.64	24.752		
6,700.0	6,682.9	6,658.1	6,657.2	13.5	11.6	31.04	172.6	627.2	591.0	566.5	24.53	24.096		
6,800.0	6,776.6	6,754.6	6,753.6	13.4	11.8	37.47	172.9	626.6	561.8	537.6	24.24	23.178		
6,900.0	6,864.7	6,844.3	6,843.3	13.3	12.0	44.41	172.8	626.0	523.8	499.9	23.90	21.910		
7,000.0	6,945.3	6,925.4	6,924.5	13.3	12.1	52.92	172.7	625.2	479.5	455.8	23.73	20.203		
7,100.0	7,017.0	6,997.5	6,996.5	13.3	12.2	63.15	172.5	624.4	432.8	408.8	23.94	18.081		
7,200.0	7,078.3	7,058.4	7,057.4	13.4	12.3	74.07	172.4	623.8	389.2	364.7	24.50	15.886		
7,300.0	7,128.1	7,107.5	7,106.6	13.7	12.4	83.82	172.2	623.3	356.8	331.6	25.19	14.164		
7,398.1	7,164.8	7,143.7	7,142.7	14.2	12.5	90.52	172.0	623.0	344.7	318.8	25.84	13.337 CC		
7,400.0	7,165.4	7,144.3	7,143.3	14.2	12.5	90.61	172.0	623.0	344.7	318.8	25.85	13.332 ES, SF		
7,500.0	7,189.3	7,168.1	7,167.1	14.9	12.5	93.38	172.0	622.8	358.9	332.4	26.57	13.508		
7,600.0	7,199.6	7,178.3	7,177.4	15.7	12.5	91.59	172.0	622.7	399.0	371.5	27.48	14.517		
7,700.0	7,200.0	7,178.6	7,177.7	16.7	12.5	90.45	172.0	622.7	458.3	429.7	28.52	16.065		
7,800.0	7,200.0	7,178.6	7,177.6	17.8	12.5	90.43	172.0	622.7	529.9	500.3	29.68	17.857		
7,900.0	7,200.0	7,178.5	7,177.5	19.0	12.5	90.42	172.0	622.7	609.7	578.7	30.92	19.714		
8,000.0	7,200.0	7,178.4	7,177.4	20.3	12.5	90.41	172.0	622.7	694.6	662.4	32.25	21.540		
8,100.0	7,200.0	7,178.3	7,177.4	21.7	12.5	90.40	172.0	622.7	783.2	749.5	33.64	23.284		
8,200.0	7,200.0	7,178.3	7,177.3	23.1	12.5	90.38	172.0	622.7	874.2	839.1	35.07	24.923		
8,300.0	7,200.0	7,178.2	7,177.2	24.5	12.5	90.37	172.0	622.7	967.0	930.4	36.55	26.452		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4A-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.99	0.0	-45.0	45.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.99	0.0	-45.0	45.0	44.7	0.30	148.141		
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-45.0	45.0	44.3	0.65	68.921 CC, ES		
300.0	300.0	299.3	299.3	0.5	0.5	-90.36	-0.3	-45.8	45.8	44.8	1.00	45.749		
400.0	400.0	398.5	398.4	0.7	0.7	-91.39	-1.2	-48.2	48.3	46.9	1.35	35.681		
500.0	500.0	497.5	497.4	0.8	0.9	-92.90	-2.6	-52.2	52.4	50.7	1.71	30.654		
600.0	600.0	596.4	596.1	1.0	1.1	-94.64	-4.7	-57.9	58.2	56.1	2.07	28.094		
700.0	700.0	695.1	694.5	1.2	1.3	-96.43	-7.3	-65.1	65.7	63.3	2.44	26.922 SF		
800.0	800.0	793.4	792.4	1.4	1.5	120.39	-10.5	-73.8	75.4	72.7	2.74	27.497		
900.0	900.0	891.3	889.7	1.6	1.7	120.18	-14.3	-84.1	87.6	84.5	3.09	28.346		
1,000.0	999.9	988.7	986.2	1.7	2.0	120.62	-18.6	-95.9	102.4	99.0	3.45	29.719		
1,100.0	1,099.7	1,085.3	1,081.8	1.9	2.3	121.42	-23.4	-109.1	119.7	115.9	3.81	31.443		
1,200.0	1,199.4	1,181.3	1,176.5	2.1	2.6	122.31	-28.8	-123.7	139.2	135.0	4.18	33.336		
1,300.0	1,299.2	1,276.6	1,270.3	2.3	2.9	122.85	-34.6	-139.7	160.3	155.7	4.55	35.249		
1,400.0	1,398.9	1,374.0	1,365.9	2.5	3.3	123.20	-40.9	-156.9	182.3	177.3	4.93	37.002		
1,500.0	1,498.6	1,471.5	1,461.7	2.7	3.6	123.47	-47.2	-174.1	204.3	198.9	5.31	38.485		
1,600.0	1,598.4	1,569.1	1,557.6	2.9	4.0	123.69	-53.5	-191.3	226.3	220.6	5.69	39.754		
1,700.0	1,698.1	1,666.6	1,653.4	3.1	4.3	123.87	-59.8	-208.5	248.3	242.2	6.08	40.853		
1,800.0	1,797.9	1,764.2	1,749.2	3.3	4.7	124.02	-66.1	-225.7	270.3	263.8	6.46	41.811		
1,900.0	1,897.6	1,861.7	1,845.0	3.5	5.0	124.15	-72.3	-243.0	292.3	285.4	6.85	42.654		
2,000.0	1,997.3	1,959.3	1,940.8	3.8	5.4	124.26	-78.6	-260.2	314.3	307.0	7.24	43.401		
2,100.0	2,097.1	2,056.8	2,036.6	4.0	5.8	124.35	-84.9	-277.4	336.3	328.6	7.63	44.067		
2,200.0	2,196.8	2,154.4	2,132.4	4.2	6.1	124.43	-91.2	-294.6	358.3	350.3	8.02	44.665		
2,300.0	2,296.6	2,251.9	2,228.2	4.4	6.5	124.51	-97.5	-311.8	380.3	371.9	8.41	45.203		
2,400.0	2,396.3	2,349.5	2,324.0	4.6	6.9	124.57	-103.8	-329.0	402.3	393.5	8.80	45.691		
2,500.0	2,496.0	2,447.0	2,419.8	4.8	7.2	124.63	-110.1	-346.2	424.3	415.1	9.20	46.136		
2,600.0	2,595.8	2,544.6	2,515.7	5.0	7.6	124.69	-116.4	-363.4	446.3	436.7	9.59	46.542		
2,700.0	2,695.5	2,642.1	2,611.5	5.2	7.9	124.74	-122.7	-380.7	468.3	458.3	9.98	46.914		
2,800.0	2,795.3	2,739.6	2,707.3	5.4	8.3	124.78	-129.0	-397.9	490.3	480.0	10.38	47.257		
2,900.0	2,895.0	2,837.2	2,803.1	5.7	8.7	124.82	-135.3	-415.1	512.3	501.6	10.77	47.573		
3,000.0	2,994.7	2,934.7	2,898.9	5.9	9.0	124.86	-141.5	-432.3	534.4	523.2	11.16	47.867		
3,100.0	3,094.5	3,032.3	2,994.7	6.1	9.4	124.89	-147.8	-449.5	556.4	544.8	11.56	48.139		
3,200.0	3,194.2	3,129.8	3,090.5	6.3	9.8	124.92	-154.1	-466.7	578.4	566.4	11.95	48.392		
3,300.0	3,294.0	3,227.4	3,186.3	6.5	10.1	124.95	-160.4	-483.9	600.4	588.0	12.35	48.629		
3,400.0	3,393.7	3,324.9	3,282.1	6.7	10.5	124.98	-166.7	-501.1	622.4	609.7	12.74	48.850		
3,500.0	3,493.4	3,422.5	3,377.9	6.9	10.9	125.00	-173.0	-518.4	644.4	631.3	13.14	49.057		
3,600.0	3,593.2	3,520.0	3,473.8	7.1	11.2	125.03	-179.3	-535.6	666.4	652.9	13.53	49.252		
3,700.0	3,692.9	3,617.6	3,569.6	7.4	11.6	125.05	-185.6	-552.8	688.4	674.5	13.93	49.435		
3,800.0	3,792.7	3,715.1	3,665.4	7.6	12.0	125.07	-191.9	-570.0	710.4	696.1	14.32	49.608		
3,900.0	3,892.4	3,812.7	3,761.2	7.8	12.3	125.09	-198.2	-587.2	732.4	717.7	14.72	49.771		
4,000.0	3,992.1	3,910.2	3,857.0	8.0	12.7	125.11	-204.5	-604.4	754.5	739.3	15.11	49.926		
4,100.0	4,091.9	4,007.8	3,952.8	8.2	13.0	125.12	-210.8	-621.6	776.5	761.0	15.51	50.072		
4,200.0	4,191.6	4,105.3	4,048.6	8.4	13.4	125.14	-217.0	-638.8	798.5	782.6	15.90	50.210		
4,300.0	4,291.4	4,202.9	4,144.4	8.6	13.8	125.16	-223.3	-656.1	820.5	804.2	16.30	50.342		
4,400.0	4,391.1	4,300.4	4,240.2	8.9	14.1	125.17	-229.6	-673.3	842.5	825.8	16.69	50.467		
4,500.0	4,490.8	4,398.0	4,336.0	9.1	14.5	125.18	-235.9	-690.5	864.5	847.4	17.09	50.586		
4,600.0	4,590.6	4,495.5	4,431.9	9.3	14.9	125.20	-242.2	-707.7	886.5	869.0	17.49	50.700		
4,700.0	4,690.3	4,593.0	4,527.7	9.5	15.2	125.21	-248.5	-724.9	908.5	890.7	17.88	50.808		
4,800.0	4,790.1	4,690.6	4,623.5	9.7	15.6	125.22	-254.8	-742.1	930.6	912.3	18.28	50.912		
4,900.0	4,889.8	4,788.1	4,719.3	9.9	16.0	125.23	-261.1	-759.3	952.6	933.9	18.67	51.011		
5,000.0	4,989.5	4,885.7	4,815.1	10.1	16.3	125.24	-267.4	-776.5	974.6	955.5	19.07	51.106		
5,100.0	5,089.3	4,983.2	4,910.9	10.4	16.7	125.25	-273.7	-793.8	996.6	977.1	19.47	51.197		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4B-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-37.4	37.4					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-37.4	37.4	37.1	0.30	123.297		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-37.4	37.4	36.8	0.65	57.363		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-37.4	37.4	36.4	1.00	37.376 CC, ES		
400.0	400.0	399.4	399.4	0.7	0.7	-90.57	-0.4	-38.2	38.2	36.9	1.35	28.305		
500.0	500.0	498.7	498.7	0.8	0.9	-92.16	-1.5	-40.5	40.6	38.9	1.70	23.849		
600.0	600.0	598.0	597.8	1.0	1.0	-94.44	-3.4	-44.4	44.6	42.5	2.06	21.662		
700.0	700.0	697.0	696.7	1.2	1.2	-97.00	-6.1	-49.8	50.2	47.8	2.42	20.765 SF		
800.0	800.0	795.8	795.2	1.4	1.4	119.16	-9.5	-56.6	58.1	55.3	2.75	21.141		
900.0	900.0	894.2	893.2	1.6	1.7	118.59	-13.7	-65.0	68.4	65.3	3.10	22.075		
1,000.0	999.9	992.2	990.5	1.7	1.9	118.86	-18.6	-74.9	81.2	77.7	3.45	23.498		
1,100.0	1,099.7	1,089.6	1,087.1	1.9	2.2	119.60	-24.1	-86.1	96.4	92.6	3.82	25.246		
1,200.0	1,199.4	1,187.3	1,183.8	2.1	2.4	120.46	-30.4	-98.7	113.6	109.4	4.19	27.090		
1,300.0	1,299.2	1,285.8	1,281.3	2.3	2.7	121.10	-36.7	-111.5	130.9	126.4	4.57	28.639		
1,400.0	1,398.9	1,384.3	1,378.7	2.5	3.0	121.59	-43.1	-124.3	148.3	143.4	4.96	29.932		
1,500.0	1,498.6	1,482.8	1,476.1	2.7	3.3	121.97	-49.4	-137.1	165.7	160.3	5.34	31.026		
1,600.0	1,598.4	1,581.2	1,573.6	2.9	3.6	122.28	-55.8	-149.9	183.1	177.3	5.73	31.963		
1,700.0	1,698.1	1,679.7	1,671.0	3.1	3.9	122.54	-62.1	-162.7	200.5	194.3	6.12	32.772		
1,800.0	1,797.9	1,778.2	1,768.4	3.3	4.2	122.76	-68.5	-175.5	217.8	211.3	6.51	33.478		
1,900.0	1,897.6	1,876.7	1,865.9	3.5	4.5	122.94	-74.8	-188.3	235.2	228.3	6.90	34.099		
2,000.0	1,997.3	1,975.1	1,963.3	3.8	4.8	123.10	-81.2	-201.1	252.6	245.3	7.29	34.649		
2,100.0	2,097.1	2,073.6	2,060.7	4.0	5.1	123.24	-87.6	-213.9	270.0	262.3	7.68	35.139		
2,200.0	2,196.8	2,172.1	2,158.1	4.2	5.4	123.36	-93.9	-226.7	287.4	279.3	8.08	35.578		
2,300.0	2,296.6	2,270.6	2,255.6	4.4	5.7	123.47	-100.3	-239.5	304.8	296.3	8.47	35.974		
2,400.0	2,396.3	2,369.0	2,353.0	4.6	6.0	123.56	-106.6	-252.3	322.2	313.4	8.87	36.333		
2,500.0	2,496.0	2,467.5	2,450.4	4.8	6.3	123.65	-113.0	-265.1	339.6	330.4	9.26	36.660		
2,600.0	2,595.8	2,566.0	2,547.9	5.0	6.6	123.73	-119.3	-277.9	357.0	347.4	9.66	36.958		
2,700.0	2,695.5	2,664.4	2,645.3	5.2	6.9	123.80	-125.7	-290.7	374.4	364.4	10.06	37.232		
2,800.0	2,795.3	2,762.9	2,742.7	5.4	7.2	123.86	-132.0	-303.5	391.8	381.4	10.45	37.483		
2,900.0	2,895.0	2,861.4	2,840.2	5.7	7.5	123.92	-138.4	-316.3	409.2	398.4	10.85	37.716		
3,000.0	2,994.7	2,959.9	2,937.6	5.9	7.8	123.98	-144.7	-329.1	426.6	415.4	11.25	37.931		
3,100.0	3,094.5	3,058.3	3,035.0	6.1	8.1	124.03	-151.1	-341.9	444.0	432.4	11.64	38.131		
3,200.0	3,194.2	3,156.8	3,132.5	6.3	8.4	124.07	-157.4	-354.7	461.4	449.4	12.04	38.317		
3,300.0	3,294.0	3,255.3	3,229.9	6.5	8.7	124.12	-163.8	-367.5	478.8	466.4	12.44	38.491		
3,400.0	3,393.7	3,353.8	3,327.3	6.7	9.0	124.15	-170.1	-380.3	496.2	483.4	12.84	38.653		
3,500.0	3,493.4	3,452.2	3,424.7	6.9	9.3	124.19	-176.5	-393.1	513.6	500.4	13.24	38.805		
3,600.0	3,593.2	3,550.7	3,522.2	7.1	9.6	124.23	-182.9	-405.9	531.0	517.4	13.63	38.948		
3,700.0	3,692.9	3,649.2	3,619.6	7.4	9.9	124.26	-189.2	-418.7	548.4	534.4	14.03	39.083		
3,800.0	3,792.7	3,747.7	3,717.0	7.6	10.2	124.29	-195.6	-431.5	565.9	551.4	14.43	39.210		
3,900.0	3,892.4	3,846.1	3,814.5	7.8	10.5	124.32	-201.9	-444.3	583.3	568.4	14.83	39.329		
4,000.0	3,992.1	3,944.6	3,911.9	8.0	10.8	124.35	-208.3	-457.1	600.7	585.4	15.23	39.443		
4,100.0	4,091.9	4,043.1	4,009.3	8.2	11.1	124.37	-214.6	-469.9	618.1	602.4	15.63	39.550		
4,200.0	4,191.6	4,141.5	4,106.8	8.4	11.4	124.39	-221.0	-482.7	635.5	619.4	16.03	39.651		
4,300.0	4,291.4	4,240.0	4,204.2	8.6	11.7	124.42	-227.3	-495.5	652.9	636.4	16.43	39.748		
4,400.0	4,391.1	4,338.5	4,301.6	8.9	12.0	124.44	-233.7	-508.3	670.3	653.5	16.82	39.840		
4,500.0	4,490.8	4,437.0	4,399.1	9.1	12.3	124.46	-240.0	-521.1	687.7	670.5	17.22	39.927		
4,600.0	4,590.6	4,535.4	4,496.5	9.3	12.6	124.48	-246.4	-533.9	705.1	687.5	17.62	40.011		
4,700.0	4,690.3	4,633.9	4,593.9	9.5	12.9	124.50	-252.7	-546.7	722.5	704.5	18.02	40.090		
4,800.0	4,790.1	4,732.4	4,691.3	9.7	13.2	124.52	-259.1	-559.5	739.9	721.5	18.42	40.166		
4,900.0	4,889.8	4,830.9	4,788.8	9.9	13.6	124.53	-265.4	-572.3	757.3	738.5	18.82	40.239		
5,000.0	4,989.5	4,929.3	4,886.2	10.1	13.9	124.55	-271.8	-585.1	774.7	755.5	19.22	40.308		
5,100.0	5,089.3	5,027.8	4,983.6	10.4	14.2	124.56	-278.1	-597.9	792.1	772.5	19.62	40.375		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4B-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,189.0	5,126.3	5,081.1	10.6	14.5	124.58	-284.5	-610.7	809.5	789.5	20.02	40.439		
5,300.0	5,288.8	5,224.8	5,178.5	10.8	14.8	124.59	-290.9	-623.5	826.9	806.5	20.42	40.500		
5,400.0	5,388.5	5,323.2	5,275.9	11.0	15.1	124.61	-297.2	-636.3	844.3	823.5	20.82	40.559		
5,500.0	5,488.2	5,421.7	5,373.4	11.2	15.4	124.62	-303.6	-649.1	861.7	840.5	21.22	40.615		
5,600.0	5,588.0	5,520.2	5,470.8	11.4	15.7	124.63	-309.9	-661.9	879.1	857.5	21.62	40.670		
5,700.0	5,687.7	5,618.6	5,568.2	11.6	16.0	124.64	-316.3	-674.7	896.5	874.5	22.02	40.722		
5,800.0	5,787.5	5,717.1	5,665.7	11.9	16.3	124.66	-322.6	-687.5	914.0	891.5	22.42	40.773		
5,900.0	5,887.2	5,815.6	5,763.1	12.1	16.6	124.67	-329.0	-700.3	931.4	908.5	22.82	40.821		
6,000.0	5,986.9	5,914.1	5,860.5	12.3	16.9	124.68	-335.3	-713.1	948.8	925.5	23.22	40.868		
6,100.0	6,086.7	6,012.5	5,958.0	12.5	17.2	124.69	-341.7	-725.9	966.2	942.6	23.61	40.914		
6,200.0	6,186.4	6,111.0	6,055.4	12.7	17.5	124.70	-348.0	-738.7	983.6	959.6	24.01	40.957		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4C-35H-O367 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.02	0.0	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-90.02	0.0	-29.9	29.9	29.6	0.30	98.454		
200.0	200.0	200.0	200.0	0.3	0.3	-90.02	0.0	-29.9	29.9	29.2	0.65	45.805		
300.0	300.0	300.0	300.0	0.5	0.5	-90.02	0.0	-29.9	29.9	28.9	1.00	29.845		
400.0	400.0	400.0	400.0	0.7	0.7	-90.02	0.0	-29.9	29.9	28.5	1.35	22.133 CC, ES		
500.0	500.0	499.6	499.6	0.8	0.8	-91.06	-0.6	-30.6	30.6	28.9	1.70	17.983		
600.0	600.0	599.1	599.1	1.0	1.0	-93.95	-2.2	-32.5	32.6	30.6	2.05	15.907		
700.0	700.0	698.5	698.4	1.2	1.2	-98.00	-5.0	-35.8	36.2	33.8	2.41	15.043		
800.0	800.0	797.8	797.5	1.4	1.4	116.59	-8.9	-40.4	41.9	39.1	2.75	15.217		
900.0	900.0	896.7	896.1	1.6	1.6	114.89	-13.9	-46.3	49.9	46.8	3.11	16.061		
1,000.0	999.9	995.4	994.3	1.7	1.8	114.42	-20.0	-53.5	60.2	56.7	3.47	17.356		
1,100.0	1,099.7	1,094.5	1,092.9	1.9	2.1	114.92	-26.8	-61.5	72.2	68.3	3.84	18.803		
1,200.0	1,199.4	1,193.7	1,191.5	2.1	2.3	116.01	-33.6	-69.5	84.7	80.5	4.22	20.070		
1,300.0	1,299.2	1,292.9	1,290.1	2.3	2.5	116.83	-40.4	-77.6	97.2	92.6	4.60	21.112		
1,400.0	1,398.9	1,392.1	1,388.8	2.5	2.8	117.47	-47.3	-85.6	109.7	104.7	4.99	21.981		
1,500.0	1,498.6	1,491.3	1,487.4	2.7	3.0	117.98	-54.1	-93.7	122.3	116.9	5.38	22.716		
1,600.0	1,598.4	1,590.5	1,586.1	2.9	3.3	118.39	-60.9	-101.7	134.8	129.0	5.78	23.344		
1,700.0	1,698.1	1,689.7	1,684.7	3.1	3.5	118.73	-67.7	-109.8	147.4	141.2	6.17	23.886		
1,800.0	1,797.9	1,788.9	1,783.4	3.3	3.7	119.02	-74.6	-117.8	159.9	153.4	6.57	24.358		
1,900.0	1,897.6	1,888.1	1,882.0	3.5	4.0	119.26	-81.4	-125.9	172.5	165.6	6.96	24.773		
2,000.0	1,997.3	1,987.3	1,980.6	3.8	4.2	119.48	-88.2	-133.9	185.1	177.7	7.36	25.140		
2,100.0	2,097.1	2,086.5	2,079.3	4.0	4.5	119.66	-95.0	-142.0	197.7	189.9	7.76	25.467		
2,200.0	2,196.8	2,185.7	2,177.9	4.2	4.7	119.83	-101.9	-150.0	210.2	202.1	8.16	25.760		
2,300.0	2,296.6	2,285.0	2,276.6	4.4	5.0	119.97	-108.7	-158.1	222.8	214.2	8.56	26.024		
2,400.0	2,396.3	2,384.2	2,375.2	4.6	5.2	120.10	-115.5	-166.1	235.4	226.4	8.96	26.263		
2,500.0	2,496.0	2,483.4	2,473.8	4.8	5.5	120.22	-122.3	-174.2	248.0	238.6	9.36	26.481		
2,600.0	2,595.8	2,582.6	2,572.5	5.0	5.7	120.32	-129.2	-182.2	260.5	250.8	9.77	26.680		
2,700.0	2,695.5	2,681.8	2,671.1	5.2	6.0	120.42	-136.0	-190.3	273.1	262.9	10.17	26.862		
2,800.0	2,795.3	2,781.0	2,769.8	5.4	6.2	120.50	-142.8	-198.3	285.7	275.1	10.57	27.029		
2,900.0	2,895.0	2,880.2	2,868.4	5.7	6.5	120.58	-149.6	-206.4	298.3	287.3	10.97	27.184		
3,000.0	2,994.7	2,979.4	2,967.1	5.9	6.7	120.66	-156.4	-214.4	310.9	299.5	11.38	27.327		
3,100.0	3,094.5	3,078.6	3,065.7	6.1	7.0	120.73	-163.3	-222.5	323.4	311.7	11.78	27.460		
3,200.0	3,194.2	3,177.8	3,164.3	6.3	7.3	120.79	-170.1	-230.5	336.0	323.8	12.18	27.583		
3,300.0	3,294.0	3,277.0	3,263.0	6.5	7.5	120.85	-176.9	-238.6	348.6	336.0	12.59	27.699		
3,400.0	3,393.7	3,376.2	3,361.6	6.7	7.8	120.90	-183.7	-246.6	361.2	348.2	12.99	27.806		
3,500.0	3,493.4	3,475.4	3,460.3	6.9	8.0	120.95	-190.6	-254.7	373.8	360.4	13.39	27.907		
3,600.0	3,593.2	3,574.6	3,558.9	7.1	8.3	121.00	-197.4	-262.7	386.4	372.6	13.80	28.002		
3,700.0	3,692.9	3,673.8	3,657.6	7.4	8.5	121.04	-204.2	-270.8	398.9	384.7	14.20	28.092		
3,800.0	3,792.7	3,773.0	3,756.2	7.6	8.8	121.08	-211.0	-278.8	411.5	396.9	14.61	28.176		
3,900.0	3,892.4	3,872.2	3,854.8	7.8	9.0	121.12	-217.9	-286.9	424.1	409.1	15.01	28.255		
4,000.0	3,992.1	3,971.4	3,953.5	8.0	9.3	121.16	-224.7	-294.9	436.7	421.3	15.41	28.330		
4,100.0	4,091.9	4,070.6	4,052.1	8.2	9.5	121.19	-231.5	-303.0	449.3	433.5	15.82	28.401		
4,200.0	4,191.6	4,169.8	4,150.8	8.4	9.8	121.23	-238.3	-311.0	461.9	445.6	16.22	28.469		
4,300.0	4,291.4	4,269.0	4,249.4	8.6	10.0	121.26	-245.2	-319.1	474.4	457.8	16.63	28.533		
4,400.0	4,391.1	4,368.2	4,348.0	8.9	10.3	121.29	-252.0	-327.1	487.0	470.0	17.03	28.594		
4,500.0	4,490.8	4,467.5	4,446.7	9.1	10.5	121.31	-258.8	-335.2	499.6	482.2	17.44	28.651		
4,600.0	4,590.6	4,566.7	4,545.3	9.3	10.8	121.34	-265.6	-343.2	512.2	494.4	17.84	28.707		
4,700.0	4,690.3	4,665.9	4,644.0	9.5	11.0	121.37	-272.5	-351.3	524.8	506.5	18.25	28.759		
4,800.0	4,790.1	4,765.1	4,742.6	9.7	11.3	121.39	-279.3	-359.3	537.4	518.7	18.65	28.810		
4,900.0	4,889.8	4,864.3	4,841.3	9.9	11.5	121.41	-286.1	-367.3	550.0	530.9	19.06	28.858		
5,000.0	4,989.5	4,963.5	4,939.9	10.1	11.8	121.43	-292.9	-375.4	562.5	543.1	19.46	28.904		
5,100.0	5,089.3	5,062.7	5,038.5	10.4	12.0	121.46	-299.7	-383.4	575.1	555.3	19.87	28.948		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4C-35H-O367 - Hz - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,189.0	5,161.9	5,137.2	10.6	12.3	121.48	-306.6	-391.5	587.7	567.4	20.27	28.990	
5,300.0	5,288.8	5,261.1	5,235.8	10.8	12.5	121.50	-313.4	-399.5	600.3	579.6	20.68	29.031	
5,400.0	5,388.5	5,360.3	5,334.5	11.0	12.8	121.51	-320.2	-407.6	612.9	591.8	21.08	29.070	
5,500.0	5,488.2	5,459.5	5,433.1	11.2	13.1	121.53	-327.0	-415.6	625.5	604.0	21.49	29.107	
5,600.0	5,588.0	5,558.7	5,531.7	11.4	13.3	121.55	-333.9	-423.7	638.0	616.2	21.89	29.143	
5,700.0	5,687.7	5,657.9	5,630.4	11.6	13.6	121.56	-340.7	-431.7	650.6	628.3	22.30	29.178	
5,800.0	5,787.5	5,757.1	5,729.0	11.9	13.8	121.58	-347.5	-439.8	663.2	640.5	22.70	29.211	
5,900.0	5,887.2	5,856.3	5,827.7	12.1	14.1	121.60	-354.3	-447.8	675.8	652.7	23.11	29.244	
6,000.0	5,986.9	5,955.5	5,926.3	12.3	14.3	121.61	-361.2	-455.9	688.4	664.9	23.51	29.275	
6,100.0	6,086.7	6,054.7	6,025.0	12.5	14.6	121.62	-368.0	-463.9	701.0	677.1	23.92	29.305	
6,200.0	6,186.4	6,153.9	6,123.6	12.7	14.8	121.64	-374.8	-472.0	713.6	689.2	24.33	29.334	
6,300.0	6,286.2	6,253.1	6,222.2	12.9	15.1	121.65	-381.6	-480.0	726.1	701.4	24.73	29.362	
6,400.0	6,385.9	6,352.3	6,320.9	13.1	15.3	121.66	-388.5	-488.1	738.7	713.6	25.14	29.389	
6,500.0	6,485.7	6,456.0	6,424.1	13.3	15.6	176.17	-393.4	-496.6	751.3	725.8	25.51	29.451	
6,600.0	6,585.3	6,563.8	6,530.9	13.4	15.7	-112.25	-384.4	-505.7	764.0	738.3	25.68	29.754	
6,700.0	6,682.9	6,671.2	6,634.9	13.5	15.7	-102.53	-359.5	-515.0	776.8	751.2	25.64	30.291	
6,800.0	6,776.6	6,778.1	6,733.5	13.4	15.7	-98.28	-319.6	-524.3	789.4	763.9	25.46	31.003	
6,900.0	6,864.7	6,884.4	6,824.6	13.3	15.6	-95.49	-265.6	-533.3	801.6	776.3	25.21	31.797	
7,000.0	6,945.3	6,990.0	6,906.2	13.3	15.5	-93.31	-199.2	-541.9	813.1	788.1	24.99	32.541	
7,100.0	7,017.0	7,094.9	6,976.7	13.3	15.5	-91.47	-122.1	-549.8	823.8	798.9	24.91	33.071	
7,200.0	7,078.3	7,199.0	7,034.8	13.4	15.6	-89.87	-36.1	-556.8	833.4	808.3	25.09	33.214	
7,300.0	7,128.1	7,302.3	7,079.5	13.7	15.9	-88.46	56.6	-563.0	841.8	816.1	25.63	32.841	
7,400.0	7,165.4	7,404.5	7,110.3	14.2	16.3	-87.25	153.9	-568.1	848.8	822.2	26.58	31.927	
7,500.0	7,189.3	7,505.8	7,126.9	14.9	16.9	-86.21	253.7	-572.1	854.2	826.3	27.95	30.560	
7,600.0	7,199.6	7,606.1	7,130.0	15.7	17.6	-85.40	353.8	-575.0	858.1	828.4	29.70	28.896	
7,700.0	7,200.0	7,706.0	7,130.0	16.7	18.5	-85.33	453.7	-577.6	860.8	829.0	31.73	27.127	
7,800.0	7,200.0	7,806.0	7,130.0	17.8	19.5	-85.35	553.6	-580.2	863.4	829.4	34.00	25.393	
7,900.0	7,200.0	7,906.0	7,130.0	19.0	20.6	-85.36	653.6	-582.9	866.0	829.5	36.46	23.749	
8,000.0	7,200.0	8,005.9	7,130.0	20.3	21.8	-85.38	753.5	-585.5	868.6	829.5	39.08	22.223	
8,100.0	7,200.0	8,105.9	7,130.0	21.7	23.0	-85.39	853.4	-588.1	871.2	829.4	41.83	20.825	
8,200.0	7,200.0	8,205.9	7,130.0	23.1	24.3	-85.40	953.4	-590.7	873.8	829.1	44.69	19.553	
8,300.0	7,200.0	8,305.8	7,130.0	24.5	25.7	-85.42	1,053.3	-593.3	876.4	828.8	47.63	18.401	
8,400.0	7,200.0	8,405.8	7,130.0	26.0	27.1	-85.43	1,153.2	-595.9	879.0	828.4	50.64	17.358	
8,500.0	7,200.0	8,505.8	7,130.0	27.5	28.6	-85.44	1,253.2	-598.6	881.6	827.9	53.71	16.415	
8,600.0	7,200.0	8,605.7	7,130.0	29.1	30.1	-85.46	1,353.1	-601.2	884.2	827.4	56.83	15.559	
8,700.0	7,200.0	8,705.7	7,130.0	30.6	31.6	-85.47	1,453.0	-603.8	886.9	826.9	59.99	14.783	
8,800.0	7,200.0	8,805.7	7,130.0	32.2	33.1	-85.48	1,553.0	-606.4	889.5	826.3	63.19	14.076	
8,900.0	7,200.0	8,905.6	7,130.0	33.8	34.7	-85.50	1,652.9	-609.0	892.1	825.7	66.42	13.432	
9,000.0	7,200.0	9,005.6	7,130.0	35.4	36.2	-85.51	1,752.8	-611.6	894.7	825.0	69.67	12.842	
9,100.0	7,200.0	9,105.6	7,130.0	37.1	37.8	-85.52	1,852.8	-614.3	897.3	824.3	72.95	12.301	
9,200.0	7,200.0	9,205.5	7,130.0	38.7	39.4	-85.54	1,952.7	-616.9	899.9	823.7	76.24	11.803	
9,300.0	7,200.0	9,305.5	7,130.0	40.4	41.0	-85.55	2,052.6	-619.5	902.5	823.0	79.56	11.344	
9,400.0	7,200.0	9,405.5	7,130.0	42.0	42.7	-85.56	2,152.5	-622.1	905.1	822.2	82.88	10.920	
9,500.0	7,200.0	9,505.4	7,130.0	43.7	44.3	-85.58	2,252.5	-624.7	907.7	821.5	86.23	10.527	
9,600.0	7,200.0	9,605.4	7,130.0	45.4	45.9	-85.59	2,352.4	-627.3	910.3	820.8	89.58	10.162	
9,700.0	7,200.0	9,705.4	7,130.0	47.0	47.6	-85.60	2,452.3	-630.0	913.0	820.0	92.95	9.822	
9,800.0	7,200.0	9,805.3	7,130.0	48.7	49.3	-85.61	2,552.3	-632.6	915.6	819.2	96.32	9.505	
9,900.0	7,200.0	9,905.3	7,130.0	50.4	50.9	-85.63	2,652.2	-635.2	918.2	818.5	99.70	9.209	
10,000.0	7,200.0	10,005.3	7,130.0	52.1	52.6	-85.64	2,752.1	-637.8	920.8	817.7	103.10	8.931	
10,100.0	7,200.0	10,105.2	7,130.0	53.8	54.3	-85.65	2,852.1	-640.4	923.4	816.9	106.49	8.671	
10,200.0	7,200.0	10,205.2	7,130.0	55.5	56.0	-85.66	2,952.0	-643.0	926.0	816.1	109.90	8.426	
10,300.0	7,200.0	10,305.2	7,130.0	57.2	57.6	-85.68	3,051.9	-645.7	928.6	815.3	113.31	8.195	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4C-35H-O367 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,200.0	10,405.1	7,130.0	58.9	59.3	-85.69	3,151.9	-648.3	931.2	814.5	116.73	7.978		
10,500.0	7,200.0	10,505.1	7,130.0	60.6	61.0	-85.70	3,251.8	-650.9	933.8	813.7	120.15	7.772		
10,600.0	7,200.0	10,605.1	7,130.0	62.3	62.7	-85.71	3,351.7	-653.5	936.4	812.9	123.57	7.578		
10,700.0	7,200.0	10,705.0	7,130.0	64.0	64.4	-85.72	3,451.7	-656.1	939.1	812.1	127.00	7.394		
10,800.0	7,200.0	10,805.0	7,130.0	65.8	66.1	-85.73	3,551.6	-658.7	940.9	810.4	130.52	7.209		
10,900.0	7,200.0	10,905.0	7,130.0	67.5	67.8	-85.73	3,651.6	-661.4	940.3	806.3	134.01	7.017		
11,000.0	7,200.0	11,004.9	7,130.0	69.2	69.5	-85.71	3,751.5	-664.0	937.2	799.8	137.41	6.820		
11,100.0	7,200.0	11,104.8	7,130.0	70.9	71.2	-85.68	3,851.3	-666.6	931.8	791.0	140.80	6.618		
11,200.0	7,200.0	11,204.6	7,130.0	72.6	73.0	-85.66	3,951.1	-669.2	926.2	781.9	144.23	6.421		
11,300.0	7,200.0	11,304.5	7,130.0	74.3	74.7	-85.63	4,050.9	-671.8	920.5	772.8	147.67	6.233		
11,400.0	7,200.0	11,404.3	7,130.0	76.0	76.4	-85.60	4,150.7	-674.4	914.8	763.7	151.11	6.054		
11,500.0	7,200.0	11,504.1	7,130.0	77.7	78.1	-85.58	4,250.5	-677.0	909.1	754.5	154.55	5.882		
11,600.0	7,200.0	11,593.2	7,130.0	79.5	79.6	-85.55	4,339.6	-679.4	903.4	745.6	157.81	5.725		
11,640.3	7,200.0	11,593.2	7,130.0	80.2	79.6	-85.55	4,339.6	-679.4	902.5	744.0	158.51	5.694 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4D-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.04	0.0	-22.4	22.4					
100.0	100.0	100.0	100.0	0.2	0.2	-90.04	0.0	-22.4	22.4	22.1	0.30	73.611		
200.0	200.0	200.0	200.0	0.3	0.3	-90.04	0.0	-22.4	22.4	21.7	0.65	34.247		
300.0	300.0	300.0	300.0	0.5	0.5	-90.04	0.0	-22.4	22.4	21.4	1.00	22.314		
400.0	400.0	400.0	400.0	0.7	0.7	-90.04	0.0	-22.4	22.4	21.0	1.35	16.548		
500.0	500.0	500.0	500.0	0.8	0.8	-90.04	0.0	-22.4	22.4	20.7	1.70	13.150	CC, ES	
600.0	600.0	599.7	599.7	1.0	1.0	-91.67	-0.7	-22.9	22.9	20.9	2.05	11.196		
700.0	700.0	699.4	699.4	1.2	1.2	-96.05	-2.6	-24.7	24.8	22.4	2.40	10.332		
800.0	800.0	799.0	798.8	1.4	1.4	117.55	-5.9	-27.5	28.6	25.8	2.75	10.384		
900.0	900.0	898.3	898.0	1.6	1.6	115.14	-10.4	-31.5	34.6	31.5	3.11	11.139		
1,000.0	999.9	997.4	996.8	1.7	1.8	114.26	-16.2	-36.7	42.8	39.3	3.47	12.341		
1,100.0	1,099.7	1,096.8	1,095.7	1.9	2.0	114.57	-22.9	-42.7	52.8	48.9	3.84	13.746		
1,200.0	1,199.4	1,196.2	1,194.7	2.1	2.2	115.69	-29.8	-48.7	63.3	59.1	4.22	14.996		
1,300.0	1,299.2	1,295.6	1,293.8	2.3	2.4	116.51	-36.6	-54.8	73.8	69.2	4.61	16.028		
1,400.0	1,398.9	1,395.1	1,392.8	2.5	2.6	117.12	-43.5	-60.8	84.4	79.4	4.99	16.890		
1,500.0	1,498.6	1,494.5	1,491.8	2.7	2.9	117.60	-50.3	-66.9	94.9	89.5	5.39	17.620		
1,600.0	1,598.4	1,594.0	1,590.8	2.9	3.1	117.98	-57.1	-72.9	105.5	99.7	5.78	18.244		
1,700.0	1,698.1	1,693.4	1,689.8	3.1	3.3	118.29	-64.0	-79.0	116.0	109.8	6.18	18.784		
1,800.0	1,797.9	1,792.8	1,788.9	3.3	3.6	118.55	-70.8	-85.0	126.6	120.0	6.57	19.255		
1,900.0	1,897.6	1,892.3	1,887.9	3.5	3.8	118.77	-77.6	-91.1	137.2	130.2	6.97	19.669		
2,000.0	1,997.3	1,991.7	1,986.9	3.8	4.0	118.96	-84.5	-97.1	147.7	140.3	7.37	20.036		
2,100.0	2,097.1	2,091.1	2,085.9	4.0	4.2	119.12	-91.3	-103.2	158.3	150.5	7.77	20.363		
2,200.0	2,196.8	2,190.6	2,184.9	4.2	4.5	119.26	-98.1	-109.2	168.9	160.7	8.17	20.656		
2,300.0	2,296.6	2,290.0	2,283.9	4.4	4.7	119.39	-105.0	-115.3	179.4	170.8	8.58	20.921		
2,400.0	2,396.3	2,389.5	2,383.0	4.6	4.9	119.50	-111.8	-121.3	190.0	181.0	8.98	21.160		
2,500.0	2,496.0	2,488.9	2,482.0	4.8	5.2	119.60	-118.6	-127.4	200.6	191.2	9.38	21.378		
2,600.0	2,595.8	2,588.3	2,581.0	5.0	5.4	119.69	-125.5	-133.4	211.1	201.4	9.79	21.577		
2,700.0	2,695.5	2,687.8	2,680.0	5.2	5.6	119.77	-132.3	-139.5	221.7	211.5	10.19	21.759		
2,800.0	2,795.3	2,787.2	2,779.0	5.4	5.9	119.85	-139.1	-145.5	232.3	221.7	10.59	21.927		
2,900.0	2,895.0	2,886.7	2,878.1	5.7	6.1	119.92	-146.0	-151.6	242.9	231.9	11.00	22.083		
3,000.0	2,994.7	2,986.1	2,977.1	5.9	6.3	119.98	-152.8	-157.6	253.4	242.0	11.40	22.226		
3,100.0	3,094.5	3,085.5	3,076.1	6.1	6.6	120.04	-159.6	-163.7	264.0	252.2	11.81	22.359		
3,200.0	3,194.2	3,185.0	3,175.1	6.3	6.8	120.09	-166.5	-169.7	274.6	262.4	12.21	22.484		
3,300.0	3,294.0	3,284.4	3,274.1	6.5	7.0	120.14	-173.3	-175.8	285.2	272.5	12.62	22.599		
3,400.0	3,393.7	3,383.9	3,373.2	6.7	7.3	120.18	-180.2	-181.8	295.7	282.7	13.02	22.708		
3,500.0	3,493.4	3,483.3	3,472.2	6.9	7.5	120.22	-187.0	-187.9	306.3	292.9	13.43	22.809		
3,600.0	3,593.2	3,582.7	3,571.2	7.1	7.7	120.26	-193.8	-193.9	316.9	303.0	13.83	22.905		
3,700.0	3,692.9	3,682.2	3,670.2	7.4	8.0	120.30	-200.7	-200.0	327.5	313.2	14.24	22.995		
3,800.0	3,792.7	3,781.6	3,769.2	7.6	8.2	120.34	-207.5	-206.0	338.0	323.4	14.65	23.079		
3,900.0	3,892.4	3,881.1	3,868.3	7.8	8.4	120.37	-214.3	-212.1	348.6	333.5	15.05	23.159		
4,000.0	3,992.1	3,980.5	3,967.3	8.0	8.7	120.40	-221.2	-218.1	359.2	343.7	15.46	23.235		
4,100.0	4,091.9	4,079.9	4,066.3	8.2	8.9	120.43	-228.0	-224.2	369.8	353.9	15.87	23.306		
4,200.0	4,191.6	4,179.4	4,165.3	8.4	9.2	120.45	-234.8	-230.2	380.3	364.1	16.27	23.374		
4,300.0	4,291.4	4,278.8	4,264.3	8.6	9.4	120.48	-241.7	-236.3	390.9	374.2	16.68	23.438		
4,400.0	4,391.1	4,378.2	4,363.4	8.9	9.6	120.50	-248.5	-242.3	401.5	384.4	17.08	23.500		
4,500.0	4,490.8	4,477.7	4,462.4	9.1	9.9	120.53	-255.3	-248.4	412.1	394.6	17.49	23.558		
4,600.0	4,590.6	4,577.1	4,561.4	9.3	10.1	120.55	-262.2	-254.4	422.6	404.7	17.90	23.614		
4,700.0	4,690.3	4,676.6	4,660.4	9.5	10.3	120.57	-269.0	-260.5	433.2	414.9	18.30	23.667		
4,800.0	4,790.1	4,776.0	4,759.4	9.7	10.6	120.59	-275.8	-266.5	443.8	425.1	18.71	23.717		
4,900.0	4,889.8	4,875.4	4,858.4	9.9	10.8	120.61	-282.7	-272.6	454.4	435.2	19.12	23.766		
5,000.0	4,989.5	4,974.9	4,957.5	10.1	11.0	120.63	-289.5	-278.6	464.9	445.4	19.53	23.812		
5,100.0	5,089.3	5,074.3	5,056.5	10.4	11.3	120.64	-296.4	-284.7	475.5	455.6	19.93	23.857		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4D-35H-O367 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,189.0	5,173.8	5,155.5	10.6	11.5	120.66	-303.2	-290.7	486.1	465.7	20.34	23.899		
5,300.0	5,288.8	5,273.2	5,254.5	10.8	11.7	120.68	-310.0	-296.8	496.7	475.9	20.75	23.940		
5,400.0	5,388.5	5,372.6	5,353.5	11.0	12.0	120.69	-316.9	-302.8	507.2	486.1	21.15	23.979		
5,500.0	5,488.2	5,472.1	5,452.6	11.2	12.2	120.71	-323.7	-308.9	517.8	496.3	21.56	24.017		
5,600.0	5,588.0	5,571.5	5,551.6	11.4	12.4	120.72	-330.5	-314.9	528.4	506.4	21.97	24.053		
5,700.0	5,687.7	5,671.0	5,650.6	11.6	12.7	120.73	-337.4	-321.0	539.0	516.6	22.37	24.088		
5,800.0	5,787.5	5,770.4	5,749.6	11.9	12.9	120.75	-344.2	-327.0	549.5	526.8	22.78	24.122		
5,900.0	5,887.2	5,869.8	5,848.6	12.1	13.2	120.76	-351.0	-333.1	560.1	536.9	23.19	24.155		
6,000.0	5,986.9	5,969.3	5,947.7	12.3	13.4	120.77	-357.9	-339.1	570.7	547.1	23.60	24.186		
6,100.0	6,086.7	6,068.7	6,046.7	12.5	13.6	120.78	-364.7	-345.2	581.3	557.3	24.00	24.216		
6,200.0	6,186.4	6,168.1	6,145.7	12.7	13.9	120.79	-371.5	-351.2	591.8	567.4	24.41	24.245		
6,300.0	6,286.2	6,267.6	6,244.7	12.9	14.1	120.80	-378.4	-357.3	602.4	577.6	24.82	24.274		
6,400.0	6,385.9	6,367.0	6,343.7	13.1	14.3	120.81	-385.2	-363.3	613.0	587.8	25.23	24.301		
6,500.0	6,485.7	6,467.1	6,443.4	13.3	14.6	175.08	-392.1	-369.4	623.7	598.1	25.61	24.354		
6,600.0	6,585.3	6,577.7	6,553.7	13.4	14.7	-114.07	-390.0	-376.3	634.9	609.1	25.80	24.612		
6,700.0	6,682.9	6,689.2	6,663.2	13.5	14.7	-105.03	-370.8	-383.2	645.8	620.0	25.76	25.067		
6,800.0	6,776.6	6,801.3	6,768.9	13.4	14.7	-101.39	-334.6	-390.0	656.2	630.7	25.56	25.671		
6,900.0	6,864.7	6,913.8	6,868.0	13.3	14.5	-99.11	-282.1	-396.6	666.0	640.7	25.28	26.344		
7,000.0	6,945.3	7,026.2	6,957.7	13.3	14.4	-97.35	-214.8	-402.7	674.8	649.8	25.03	26.962		
7,100.0	7,017.0	7,138.4	7,035.6	13.3	14.3	-95.84	-134.4	-408.2	682.6	657.7	24.94	27.376		
7,200.0	7,078.3	7,249.9	7,099.7	13.4	14.4	-94.47	-43.4	-413.0	689.3	664.2	25.13	27.431		
7,300.0	7,128.1	7,360.6	7,148.5	13.7	14.6	-93.19	55.7	-416.8	694.7	668.9	25.72	27.013		
7,400.0	7,165.4	7,470.0	7,181.4	14.2	15.1	-92.00	160.0	-419.8	698.7	672.0	26.74	26.127		
7,500.0	7,189.3	7,578.1	7,197.8	14.9	15.8	-90.90	266.6	-421.7	701.4	673.2	28.20	24.873		
7,600.0	7,199.6	7,681.5	7,200.0	15.7	16.6	-90.05	370.0	-422.8	702.8	672.8	30.00	23.428		
7,700.0	7,200.0	7,781.5	7,200.0	16.7	17.5	-90.00	470.0	-423.6	703.7	671.6	32.06	21.952		
7,800.0	7,200.0	7,881.5	7,200.0	17.8	18.6	-90.00	570.0	-424.5	704.5	670.2	34.34	20.514		
7,900.0	7,200.0	7,981.5	7,200.0	19.0	19.7	-90.00	670.0	-425.4	705.4	668.6	36.82	19.156		
8,000.0	7,200.0	8,081.5	7,200.0	20.3	21.0	-90.00	770.0	-426.3	706.3	666.8	39.46	17.898		
8,100.0	7,200.0	8,181.5	7,200.0	21.7	22.3	-90.00	870.0	-427.1	707.2	664.9	42.23	16.747		
8,200.0	7,200.0	8,281.5	7,200.0	23.1	23.7	-90.00	970.0	-428.0	708.0	662.9	45.09	15.701		
8,300.0	7,200.0	8,381.5	7,200.0	24.5	25.1	-90.00	1,070.0	-428.9	708.9	660.9	48.05	14.754		
8,400.0	7,200.0	8,481.5	7,200.0	26.0	26.5	-90.00	1,170.0	-429.7	709.8	658.7	51.07	13.898		
8,500.0	7,200.0	8,581.5	7,200.0	27.5	28.0	-90.00	1,270.0	-430.6	710.6	656.5	54.15	13.123		
8,600.0	7,200.0	8,681.5	7,200.0	29.1	29.5	-90.00	1,370.0	-431.5	711.5	654.2	57.28	12.421		
8,700.0	7,200.0	8,781.5	7,200.0	30.6	31.1	-90.00	1,470.0	-432.4	712.4	651.9	60.46	11.784		
8,800.0	7,200.0	8,881.5	7,200.0	32.2	32.6	-90.00	1,569.9	-433.2	713.3	649.6	63.66	11.204		
8,900.0	7,200.0	8,981.5	7,200.0	33.8	34.2	-90.00	1,669.9	-434.1	714.1	647.2	66.90	10.674		
9,000.0	7,200.0	9,081.5	7,200.0	35.4	35.8	-90.00	1,769.9	-435.0	715.0	644.8	70.17	10.190		
9,100.0	7,200.0	9,181.5	7,200.0	37.1	37.4	-90.00	1,869.9	-435.9	715.9	642.4	73.45	9.746		
9,200.0	7,200.0	9,281.5	7,200.0	38.7	39.0	-90.00	1,969.9	-436.7	716.8	640.0	76.76	9.338		
9,300.0	7,200.0	9,381.5	7,200.0	40.4	40.7	-90.00	2,069.9	-437.6	717.6	637.5	80.08	8.961		
9,400.0	7,200.0	9,481.5	7,200.0	42.0	42.3	-90.00	2,169.9	-438.5	718.5	635.1	83.42	8.613		
9,500.0	7,200.0	9,581.5	7,200.0	43.7	44.0	-90.00	2,269.9	-439.3	719.4	632.6	86.77	8.290		
9,600.0	7,200.0	9,681.5	7,200.0	45.4	45.6	-90.00	2,369.9	-440.2	720.2	630.1	90.13	7.991		
9,700.0	7,200.0	9,781.5	7,200.0	47.0	47.3	-90.00	2,469.9	-441.1	721.1	627.6	93.51	7.712		
9,800.0	7,200.0	9,881.5	7,200.0	48.7	49.0	-90.00	2,569.9	-442.0	722.0	625.1	96.89	7.451		
9,900.0	7,200.0	9,981.5	7,200.0	50.4	50.7	-90.00	2,669.9	-442.8	722.9	622.6	100.28	7.208		
10,000.0	7,200.0	10,081.5	7,200.0	52.1	52.3	-90.00	2,769.9	-443.7	723.7	620.1	103.68	6.980		
10,100.0	7,200.0	10,181.5	7,200.0	53.8	54.0	-90.00	2,869.8	-444.6	724.6	617.5	107.09	6.766		
10,200.0	7,200.0	10,281.4	7,200.0	55.5	55.7	-90.00	2,969.8	-445.5	725.5	615.0	110.51	6.565		
10,300.0	7,200.0	10,381.4	7,200.0	57.2	57.4	-90.00	3,069.8	-446.3	726.4	612.4	113.92	6.376		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4D-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)		Total Uncertainty Axis	Separation Factor	
10,400.0	7,200.0	10,481.4	7,200.0	58.9	59.1	-90.00	3,169.8	-447.2	727.2	609.9	117.35	6.197		
10,500.0	7,200.0	10,581.4	7,200.0	60.6	60.8	-90.00	3,269.8	-448.1	728.1	607.3	120.78	6.028		
10,600.0	7,200.0	10,681.4	7,200.0	62.3	62.5	-90.00	3,369.8	-448.9	729.0	604.8	124.21	5.869		
10,700.0	7,200.0	10,781.4	7,200.0	64.0	64.2	-90.00	3,469.8	-449.8	729.8	602.2	127.65	5.718		
10,800.0	7,200.0	10,881.4	7,200.0	65.8	65.9	-90.00	3,569.8	-450.7	730.0	598.9	131.12	5.567		
10,900.0	7,200.0	10,981.4	7,200.0	67.5	67.7	-90.00	3,669.8	-451.6	727.6	593.1	134.52	5.409		
11,000.0	7,200.0	11,081.3	7,200.0	69.2	69.4	-90.00	3,769.6	-452.4	722.8	584.9	137.85	5.243		
11,100.0	7,200.0	11,181.0	7,200.0	70.9	71.1	-90.00	3,869.4	-453.3	715.6	574.4	141.20	5.068		
11,200.0	7,200.0	11,280.7	7,200.0	72.6	72.8	-90.00	3,969.1	-454.2	708.2	563.5	144.65	4.896		
11,300.0	7,200.0	11,380.5	7,200.0	74.3	74.5	-90.00	4,068.8	-455.0	700.7	552.6	148.10	4.732		
11,400.0	7,200.0	11,480.2	7,200.0	76.0	76.2	-90.00	4,168.5	-455.9	693.3	541.7	151.55	4.575		
11,500.0	7,200.0	11,579.9	7,200.0	77.7	77.9	-90.00	4,268.2	-456.8	685.8	530.8	155.00	4.425		
11,600.0	7,200.0	11,679.6	7,200.0	79.5	79.7	-90.00	4,368.0	-457.7	678.4	519.9	158.45	4.281		
11,640.3	7,200.0	11,719.8	7,200.0	80.2	80.4	-90.00	4,408.1	-458.0	675.4	515.5	159.85	4.225 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.10	0.0	-14.8	14.8					
100.0	100.0	100.0	100.0	0.2	0.2	-90.10	0.0	-14.8	14.8	14.5	0.30	48.767		
200.0	200.0	200.0	200.0	0.3	0.3	-90.10	0.0	-14.8	14.8	14.2	0.65	22.688		
300.0	300.0	300.0	300.0	0.5	0.5	-90.10	0.0	-14.8	14.8	13.8	1.00	14.783		
400.0	400.0	400.0	400.0	0.7	0.7	-90.10	0.0	-14.8	14.8	13.5	1.35	10.963		
500.0	500.0	500.0	500.0	0.8	0.8	-90.10	0.0	-14.8	14.8	13.1	1.70	8.712		
600.0	600.0	600.0	600.0	1.0	1.0	-90.10	0.0	-14.8	14.8	12.8	2.05	7.228 CC, ES		
700.0	700.0	699.9	699.9	1.2	1.2	-92.99	-0.8	-15.2	15.2	12.8	2.40	6.353		
800.0	800.0	799.7	799.6	1.4	1.4	119.90	-3.1	-16.4	17.1	14.4	2.75	6.237		
900.0	900.0	899.4	899.3	1.6	1.6	116.44	-6.9	-18.5	21.0	17.9	3.10	6.779		
1,000.0	999.9	999.0	998.6	1.7	1.7	114.67	-12.3	-21.3	26.9	23.4	3.47	7.747		
1,100.0	1,099.7	1,098.5	1,097.9	1.9	1.9	114.29	-19.0	-24.8	34.4	30.6	3.84	8.959		
1,200.0	1,199.4	1,198.2	1,197.3	2.1	2.1	115.21	-25.9	-28.4	42.5	38.3	4.22	10.077		
1,300.0	1,299.2	1,297.8	1,296.6	2.3	2.4	115.86	-32.8	-32.1	50.7	46.1	4.61	10.999		
1,400.0	1,398.9	1,397.5	1,396.0	2.5	2.6	116.32	-39.7	-35.7	58.8	53.8	5.00	11.771		
1,500.0	1,498.6	1,497.2	1,495.3	2.7	2.8	116.68	-46.6	-39.3	67.0	61.6	5.39	12.424		
1,600.0	1,598.4	1,596.8	1,594.7	2.9	3.0	116.95	-53.5	-42.9	75.1	69.4	5.79	12.983		
1,700.0	1,698.1	1,696.5	1,694.1	3.1	3.2	117.17	-60.4	-46.6	83.3	77.1	6.19	13.466		
1,800.0	1,797.9	1,796.2	1,793.4	3.3	3.4	117.36	-67.2	-50.2	91.5	84.9	6.59	13.888		
1,900.0	1,897.6	1,895.8	1,892.8	3.5	3.6	117.51	-74.1	-53.8	99.6	92.6	6.99	14.258		
2,000.0	1,997.3	1,995.5	1,992.2	3.8	3.8	117.64	-81.0	-57.4	107.8	100.4	7.39	14.587		
2,100.0	2,097.1	2,095.2	2,091.5	4.0	4.1	117.75	-87.9	-61.1	115.9	108.1	7.79	14.879		
2,200.0	2,196.8	2,194.8	2,190.9	4.2	4.3	117.85	-94.8	-64.7	124.1	115.9	8.20	15.142		
2,300.0	2,296.6	2,294.5	2,290.2	4.4	4.5	117.93	-101.7	-68.3	132.3	123.7	8.60	15.378		
2,400.0	2,396.3	2,394.2	2,389.6	4.6	4.7	118.01	-108.6	-72.0	140.4	131.4	9.01	15.592		
2,500.0	2,496.0	2,493.8	2,489.0	4.8	4.9	118.07	-115.5	-75.6	148.6	139.2	9.41	15.787		
2,600.0	2,595.8	2,593.5	2,588.3	5.0	5.1	118.13	-122.4	-79.2	156.8	146.9	9.82	15.966		
2,700.0	2,695.5	2,693.2	2,687.7	5.2	5.4	118.19	-129.3	-82.8	164.9	154.7	10.22	16.129		
2,800.0	2,795.3	2,792.8	2,787.0	5.4	5.6	118.24	-136.1	-86.5	173.1	162.4	10.63	16.279		
2,900.0	2,895.0	2,892.5	2,886.4	5.7	5.8	118.28	-143.0	-90.1	181.2	170.2	11.04	16.418		
3,000.0	2,994.7	2,992.2	2,985.8	5.9	6.0	118.32	-149.9	-93.7	189.4	178.0	11.45	16.547		
3,100.0	3,094.5	3,091.8	3,085.1	6.1	6.2	118.36	-156.8	-97.3	197.6	185.7	11.85	16.666		
3,200.0	3,194.2	3,191.5	3,184.5	6.3	6.5	118.39	-163.7	-101.0	205.7	193.5	12.26	16.777		
3,300.0	3,294.0	3,291.2	3,283.9	6.5	6.7	118.42	-170.6	-104.6	213.9	201.2	12.67	16.881		
3,400.0	3,393.7	3,390.8	3,383.2	6.7	6.9	118.45	-177.5	-108.2	222.1	209.0	13.08	16.978		
3,500.0	3,493.4	3,490.5	3,482.6	6.9	7.1	118.48	-184.4	-111.8	230.2	216.7	13.49	17.069		
3,600.0	3,593.2	3,590.2	3,581.9	7.1	7.3	118.51	-191.3	-115.5	238.4	224.5	13.90	17.154		
3,700.0	3,692.9	3,689.8	3,681.3	7.4	7.5	118.53	-198.2	-119.1	246.5	232.2	14.31	17.234		
3,800.0	3,792.7	3,789.5	3,780.7	7.6	7.8	118.55	-205.0	-122.7	254.7	240.0	14.71	17.310		
3,900.0	3,892.4	3,889.2	3,880.0	7.8	8.0	118.57	-211.9	-126.4	262.9	247.8	15.12	17.381		
4,000.0	3,992.1	3,988.8	3,979.4	8.0	8.2	118.59	-218.8	-130.0	271.0	255.5	15.53	17.449		
4,100.0	4,091.9	4,088.5	4,078.7	8.2	8.4	118.61	-225.7	-133.6	279.2	263.3	15.94	17.513		
4,200.0	4,191.6	4,188.2	4,178.1	8.4	8.6	118.63	-232.6	-137.2	287.4	271.0	16.35	17.574		
4,300.0	4,291.4	4,287.8	4,277.5	8.6	8.9	118.64	-239.5	-140.9	295.5	278.8	16.76	17.631		
4,400.0	4,391.1	4,387.5	4,376.8	8.9	9.1	118.66	-246.4	-144.5	303.7	286.5	17.17	17.686		
4,500.0	4,490.8	4,487.2	4,476.2	9.1	9.3	118.67	-253.3	-148.1	311.9	294.3	17.58	17.738		
4,600.0	4,590.6	4,586.8	4,575.6	9.3	9.5	118.69	-260.2	-151.7	320.0	302.0	17.99	17.788		
4,700.0	4,690.3	4,686.5	4,674.9	9.5	9.7	118.70	-267.1	-155.4	328.2	309.8	18.40	17.835		
4,800.0	4,790.1	4,786.2	4,774.3	9.7	10.0	118.71	-274.0	-159.0	336.3	317.5	18.81	17.881		
4,900.0	4,889.8	4,885.8	4,873.6	9.9	10.2	118.73	-280.8	-162.6	344.5	325.3	19.22	17.924		
5,000.0	4,989.5	4,985.5	4,973.0	10.1	10.4	118.74	-287.7	-166.2	352.7	333.0	19.63	17.965		
5,100.0	5,089.3	5,085.2	5,072.4	10.4	10.6	118.75	-294.6	-169.9	360.8	340.8	20.04	18.005		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,189.0	5,184.8	5,171.7	10.6	10.8	118.76	-301.5	-173.5	369.0	348.6	20.45	18.043		
5,300.0	5,288.8	5,284.5	5,271.1	10.8	11.1	118.77	-308.4	-177.1	377.2	356.3	20.86	18.080		
5,400.0	5,388.5	5,384.2	5,370.4	11.0	11.3	118.78	-315.3	-180.8	385.3	364.1	21.27	18.115		
5,500.0	5,488.2	5,483.8	5,469.8	11.2	11.5	118.79	-322.2	-184.4	393.5	371.8	21.68	18.149		
5,600.0	5,588.0	5,583.5	5,569.2	11.4	11.7	118.80	-329.1	-188.0	401.7	379.6	22.09	18.181		
5,700.0	5,687.7	5,683.2	5,668.5	11.6	11.9	118.81	-336.0	-191.6	409.8	387.3	22.50	18.213		
5,800.0	5,787.5	5,782.8	5,767.9	11.9	12.2	118.81	-342.9	-195.3	418.0	395.1	22.91	18.243		
5,900.0	5,887.2	5,882.5	5,867.3	12.1	12.4	118.82	-349.7	-198.9	426.2	402.8	23.32	18.272		
6,000.0	5,986.9	5,982.2	5,966.6	12.3	12.6	118.83	-356.6	-202.5	434.3	410.6	23.73	18.300		
6,100.0	6,086.7	6,081.8	6,066.0	12.5	12.8	118.84	-363.5	-206.1	442.5	418.3	24.14	18.327		
6,200.0	6,186.4	6,181.5	6,165.3	12.7	13.0	118.84	-370.4	-209.8	450.6	426.1	24.55	18.353		
6,300.0	6,286.2	6,281.2	6,264.7	12.9	13.3	118.85	-377.3	-213.4	458.8	433.8	24.97	18.378		
6,400.0	6,385.9	6,380.8	6,364.1	13.1	13.5	118.86	-384.2	-217.0	467.0	441.6	25.38	18.402		
6,500.0	6,485.7	6,480.4	6,463.4	13.3	13.7	173.01	-391.1	-220.6	475.3	449.6	25.76	18.453		
6,600.0	6,585.3	6,579.1	6,561.7	13.4	13.9	-117.28	-397.9	-224.2	485.7	459.7	26.00	18.678		
6,700.0	6,682.9	6,688.4	6,670.9	13.5	14.1	-110.61	-400.3	-228.2	498.2	472.1	26.06	19.118		
6,800.0	6,776.6	6,806.0	6,787.2	13.4	14.1	-109.32	-384.7	-232.5	510.8	484.9	25.88	19.737		
6,900.0	6,864.7	6,928.5	6,904.0	13.3	14.0	-109.18	-348.4	-236.7	522.9	497.4	25.53	20.485		
7,000.0	6,945.3	7,055.7	7,016.9	13.3	13.8	-109.28	-290.3	-240.9	533.9	508.8	25.11	21.262		
7,100.0	7,017.0	7,186.8	7,120.6	13.3	13.6	-109.31	-210.5	-244.6	543.1	518.3	24.78	21.917		
7,200.0	7,078.3	7,320.9	7,209.8	13.4	13.5	-109.11	-110.7	-247.9	550.1	525.4	24.73	22.248		
7,300.0	7,128.1	7,456.5	7,279.6	13.7	13.6	-108.62	5.2	-250.4	554.7	529.5	25.12	22.077		
7,400.0	7,165.4	7,592.0	7,326.3	14.2	14.1	-107.80	132.2	-252.1	556.5	530.4	26.10	21.320		
7,500.0	7,189.3	7,725.9	7,348.2	14.9	15.0	-106.67	264.1	-252.9	555.8	528.1	27.68	20.081		
7,600.0	7,199.6	7,838.0	7,350.0	15.7	15.9	-105.75	376.2	-253.0	553.8	524.3	29.55	18.744		
7,648.8	7,200.8	7,886.8	7,350.0	16.2	16.4	-105.63	424.9	-253.0	553.5	523.0	30.50	18.151		
7,700.0	7,200.0	7,938.0	7,350.0	16.7	16.9	-105.72	476.2	-253.0	553.7	522.2	31.52	17.568		
7,800.0	7,200.0	8,038.0	7,350.0	17.8	18.0	-105.72	576.2	-253.0	553.7	520.0	33.71	16.424		
7,900.0	7,200.0	8,138.0	7,350.0	19.0	19.2	-105.72	676.2	-253.0	553.7	517.6	36.09	15.342		
8,000.0	7,200.0	8,238.0	7,350.0	20.3	20.5	-105.72	776.2	-253.0	553.7	515.1	38.62	14.338		
8,100.0	7,200.0	8,338.0	7,350.0	21.7	21.8	-105.72	876.2	-253.0	553.7	512.4	41.27	13.418		
8,200.0	7,200.0	8,438.0	7,350.0	23.1	23.2	-105.72	976.2	-253.0	553.7	509.7	44.02	12.580		
8,300.0	7,200.0	8,538.0	7,350.0	24.5	24.6	-105.72	1,076.2	-253.0	553.7	506.9	46.85	11.819		
8,400.0	7,200.0	8,638.0	7,350.0	26.0	26.1	-105.72	1,176.2	-253.0	553.7	504.0	49.75	11.130		
8,500.0	7,200.0	8,738.0	7,350.0	27.5	27.6	-105.72	1,276.2	-253.0	553.7	501.0	52.71	10.506		
8,600.0	7,200.0	8,838.0	7,350.0	29.1	29.2	-105.72	1,376.2	-253.0	553.7	498.0	55.71	9.939		
8,700.0	7,200.0	8,938.0	7,350.0	30.6	30.7	-105.72	1,476.2	-253.0	553.7	495.0	58.76	9.424		
8,800.0	7,200.0	9,038.0	7,350.0	32.2	32.3	-105.72	1,576.2	-253.0	553.7	491.9	61.84	8.954		
8,900.0	7,200.0	9,138.0	7,350.0	33.8	33.9	-105.72	1,676.2	-253.0	553.7	488.8	64.95	8.526		
9,000.0	7,200.0	9,238.0	7,350.0	35.4	35.5	-105.72	1,776.2	-253.0	553.7	485.6	68.08	8.133		
9,100.0	7,200.0	9,338.0	7,350.0	37.1	37.2	-105.72	1,876.2	-253.0	553.7	482.5	71.24	7.772		
9,200.0	7,200.0	9,438.0	7,350.0	38.7	38.8	-105.72	1,976.2	-253.0	553.7	479.3	74.42	7.440		
9,300.0	7,200.0	9,538.0	7,350.0	40.4	40.5	-105.72	2,076.2	-253.0	553.7	476.1	77.61	7.134		
9,400.0	7,200.0	9,638.0	7,350.0	42.0	42.1	-105.72	2,176.2	-253.0	553.7	472.9	80.82	6.851		
9,500.0	7,200.0	9,738.0	7,350.0	43.7	43.8	-105.72	2,276.2	-253.0	553.7	469.7	84.05	6.588		
9,600.0	7,200.0	9,838.0	7,350.0	45.4	45.4	-105.72	2,376.2	-253.0	553.7	466.4	87.28	6.344		
9,700.0	7,200.0	9,938.0	7,350.0	47.0	47.1	-105.72	2,476.2	-253.0	553.7	463.2	90.52	6.117		
9,800.0	7,200.0	10,038.0	7,350.0	48.7	48.8	-105.72	2,576.2	-253.0	553.7	459.9	93.78	5.904		
9,900.0	7,200.0	10,138.0	7,350.0	50.4	50.5	-105.72	2,676.2	-253.0	553.7	456.7	97.04	5.706		
10,000.0	7,200.0	10,238.0	7,350.0	52.1	52.2	-105.72	2,776.2	-253.0	553.7	453.4	100.31	5.520		
10,100.0	7,200.0	10,338.0	7,350.0	53.8	53.9	-105.72	2,876.2	-253.0	553.7	450.1	103.59	5.345		
10,200.0	7,200.0	10,438.0	7,350.0	55.5	55.6	-105.72	2,976.2	-253.0	553.7	446.8	106.87	5.181		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,200.0	10,538.0	7,350.0	57.2	57.3	-105.72	3,076.2	-253.0	553.7	443.5	110.16	5.026		
10,400.0	7,200.0	10,638.0	7,350.0	58.9	59.0	-105.72	3,176.2	-253.0	553.7	440.3	113.46	4.880		
10,500.0	7,200.0	10,738.0	7,350.0	60.6	60.7	-105.72	3,276.2	-253.0	553.7	437.0	116.76	4.742		
10,600.0	7,200.0	10,838.0	7,350.0	62.3	62.4	-105.72	3,376.2	-253.0	553.7	433.7	120.06	4.612		
10,700.0	7,200.0	10,938.0	7,350.0	64.0	64.1	-105.72	3,476.2	-253.0	553.7	430.3	123.37	4.488		
10,800.0	7,200.0	11,038.0	7,350.0	65.8	65.8	-105.74	3,576.2	-253.0	553.0	426.4	126.64	4.367		
10,900.0	7,200.0	11,137.9	7,350.0	67.5	67.5	-105.84	3,676.1	-253.0	549.9	420.1	129.79	4.237		
11,000.0	7,200.0	11,237.8	7,350.0	69.2	69.3	-106.03	3,775.9	-253.0	544.4	411.6	132.81	4.099		
11,100.0	7,200.0	11,340.9	7,350.0	70.9	71.0	-106.29	3,879.1	-252.9	536.7	400.8	135.88	3.950		
11,200.0	7,200.0	11,457.0	7,350.0	72.6	73.0	-106.68	3,995.1	-249.9	526.1	386.9	139.18	3.780		
11,300.0	7,200.0	11,556.2	7,350.0	74.3	74.7	-107.07	4,094.3	-246.0	514.4	372.2	142.19	3.618		
11,400.0	7,200.0	11,655.5	7,350.0	76.0	76.4	-107.48	4,193.5	-242.1	502.7	357.5	145.17	3.463		
11,500.0	7,200.0	11,754.7	7,350.0	77.7	78.2	-107.91	4,292.6	-238.2	491.1	342.9	148.12	3.315		
11,600.0	7,200.0	11,854.0	7,350.0	79.5	79.9	-108.36	4,391.8	-234.3	479.4	328.4	151.02	3.174		
11,640.3	7,200.0	11,886.4	7,350.0	80.2	80.4	-108.51	4,424.2	-233.0	474.8	322.7	152.09	3.122 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.93	0.0	-7.3	7.3					
100.0	100.0	100.0	100.0	0.2	0.2	-89.93	0.0	-7.3	7.3	7.0	0.30	23.923		
200.0	200.0	200.0	200.0	0.3	0.3	-89.93	0.0	-7.3	7.3	6.6	0.65	11.130		
300.0	300.0	300.0	300.0	0.5	0.5	-89.93	0.0	-7.3	7.3	6.3	1.00	7.252		
400.0	400.0	400.0	400.0	0.7	0.7	-89.93	0.0	-7.3	7.3	5.9	1.35	5.378		
500.0	500.0	500.0	500.0	0.8	0.8	-89.93	0.0	-7.3	7.3	5.6	1.70	4.274		
600.0	600.0	600.0	600.0	1.0	1.0	-89.93	0.0	-7.3	7.3	5.2	2.05	3.546		
700.0	700.0	700.0	700.0	1.2	1.2	-89.93	0.0	-7.3	7.3	4.9	2.40	3.030	CC, ES	
800.0	800.0	800.0	800.0	1.4	1.4	133.12	0.0	-7.3	7.8	5.1	2.75	2.852		
900.0	900.0	900.0	900.0	1.6	1.5	144.33	0.0	-7.3	9.8	6.7	3.10	3.169		
1,000.0	999.9	999.9	999.9	1.7	1.7	155.10	0.0	-7.3	13.6	10.2	3.44	3.947		
1,100.0	1,099.7	1,099.7	1,099.7	1.9	1.9	162.73	0.0	-7.3	19.3	15.5	3.79	5.092		
1,200.0	1,199.4	1,199.4	1,199.4	2.1	2.1	167.39	0.0	-7.3	26.3	22.1	4.14	6.344		
1,300.0	1,299.2	1,299.2	1,299.2	2.3	2.2	170.10	0.0	-7.3	33.3	28.8	4.49	7.426		
1,400.0	1,398.9	1,398.9	1,398.9	2.5	2.4	171.85	0.0	-7.3	40.4	35.6	4.84	8.363		
1,500.0	1,498.6	1,498.6	1,498.6	2.7	2.6	173.08	0.0	-7.3	47.6	42.4	5.18	9.179		
1,600.0	1,598.4	1,598.4	1,598.4	2.9	2.8	173.99	0.0	-7.3	54.7	49.2	5.53	9.895		
1,700.0	1,698.1	1,698.1	1,698.1	3.1	2.9	174.69	0.0	-7.3	61.9	56.0	5.88	10.527		
1,800.0	1,797.9	1,797.9	1,797.9	3.3	3.1	175.24	0.0	-7.3	69.1	62.9	6.23	11.091		
1,900.0	1,897.6	1,897.6	1,897.6	3.5	3.3	175.69	0.0	-7.3	76.3	69.7	6.58	11.595		
2,000.0	1,997.3	1,998.5	1,998.5	3.8	3.5	175.71	-0.8	-7.2	82.8	75.9	6.93	11.949		
2,100.0	2,097.1	2,099.5	2,099.5	4.0	3.6	175.02	-3.5	-7.0	87.9	80.6	7.28	12.076		
2,200.0	2,196.8	2,200.7	2,200.5	4.2	3.8	173.71	-7.9	-6.6	91.7	84.1	7.64	12.009		
2,300.0	2,296.6	2,301.8	2,301.5	4.4	4.0	171.80	-14.0	-6.1	94.2	86.2	7.99	11.782		
2,400.0	2,396.3	2,403.0	2,402.3	4.6	4.2	169.25	-22.0	-5.4	95.5	87.1	8.36	11.422		
2,500.0	2,496.0	2,503.4	2,502.3	4.8	4.4	166.15	-31.4	-4.6	95.9	87.2	8.73	10.983		
2,600.0	2,595.8	2,603.3	2,601.7	5.0	4.6	163.01	-40.9	-3.8	96.5	87.4	9.12	10.588		
2,700.0	2,695.5	2,703.1	2,701.1	5.2	4.8	159.92	-50.4	-3.0	97.4	87.9	9.51	10.244		
2,800.0	2,795.3	2,803.0	2,800.5	5.4	5.0	156.89	-60.0	-2.2	98.6	88.7	9.91	9.946		
2,900.0	2,895.0	2,902.8	2,899.9	5.7	5.2	153.95	-69.5	-1.4	100.0	89.7	10.32	9.688		
3,000.0	2,994.7	3,002.7	2,999.3	5.9	5.4	151.09	-79.0	-0.6	101.7	91.0	10.75	9.466		
3,100.0	3,094.5	3,102.6	3,098.7	6.1	5.6	148.33	-88.6	0.2	103.7	92.5	11.17	9.276		
3,200.0	3,194.2	3,202.4	3,198.1	6.3	5.8	145.68	-98.1	1.0	105.8	94.2	11.61	9.115		
3,300.0	3,294.0	3,302.3	3,297.5	6.5	6.1	143.15	-107.6	1.8	108.2	96.2	12.05	8.979		
3,400.0	3,393.7	3,402.1	3,396.9	6.7	6.3	140.72	-117.2	2.6	110.8	98.3	12.50	8.865		
3,500.0	3,493.4	3,502.0	3,496.3	6.9	6.5	138.41	-126.7	3.4	113.6	100.6	12.95	8.771		
3,600.0	3,593.2	3,601.8	3,595.7	7.1	6.7	136.22	-136.2	4.2	116.5	103.1	13.41	8.694		
3,700.0	3,692.9	3,701.7	3,695.1	7.4	7.0	134.13	-145.8	5.0	119.7	105.8	13.86	8.632		
3,800.0	3,792.7	3,801.6	3,794.5	7.6	7.2	132.15	-155.3	5.8	122.9	108.6	14.32	8.584		
3,900.0	3,892.4	3,901.4	3,893.9	7.8	7.4	130.28	-164.8	6.6	126.3	111.6	14.78	8.548		
4,000.0	3,992.1	4,001.3	3,993.3	8.0	7.6	128.51	-174.4	7.4	129.9	114.6	15.24	8.522		
4,100.0	4,091.9	4,101.1	4,092.7	8.2	7.9	126.83	-183.9	8.2	133.5	117.8	15.70	8.505		
4,200.0	4,191.6	4,201.0	4,192.1	8.4	8.1	125.24	-193.4	9.0	137.3	121.1	16.16	8.496		
4,300.0	4,291.4	4,300.9	4,291.5	8.6	8.3	123.74	-203.0	9.8	141.2	124.5	16.62	8.493		
4,400.0	4,391.1	4,400.7	4,390.9	8.9	8.5	122.32	-212.5	10.6	145.1	128.0	17.08	8.496		
4,500.0	4,490.8	4,500.6	4,490.3	9.1	8.8	120.98	-222.0	11.4	149.1	131.6	17.54	8.505		
4,600.0	4,590.6	4,600.4	4,589.7	9.3	9.0	119.71	-231.5	12.2	153.3	135.3	17.99	8.517		
4,700.0	4,690.3	4,700.3	4,689.1	9.5	9.2	118.50	-241.1	13.0	157.4	139.0	18.45	8.533		
4,800.0	4,790.1	4,800.2	4,788.5	9.7	9.5	117.36	-250.6	13.8	161.7	142.8	18.91	8.553		
4,900.0	4,889.8	4,900.0	4,887.9	9.9	9.7	116.27	-260.1	14.6	166.0	146.7	19.36	8.575		
5,000.0	4,989.5	4,999.9	4,987.3	10.1	9.9	115.24	-269.7	15.4	170.4	150.6	19.81	8.599		
5,100.0	5,089.3	5,099.7	5,086.7	10.4	10.2	114.27	-279.2	16.2	174.8	154.5	20.27	8.626		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,189.0	5,199.6	5,186.1	10.6	10.4	113.34	-288.7	17.0	179.3	158.6	20.72	8.654		
5,300.0	5,288.8	5,299.4	5,285.5	10.8	10.6	112.46	-298.3	17.8	183.8	162.6	21.17	8.683		
5,400.0	5,388.5	5,399.3	5,384.9	11.0	10.9	111.61	-307.8	18.6	188.3	166.7	21.62	8.713		
5,500.0	5,488.2	5,499.2	5,484.3	11.2	11.1	110.81	-317.3	19.4	192.9	170.9	22.07	8.744		
5,600.0	5,588.0	5,599.0	5,583.7	11.4	11.3	110.05	-326.9	20.3	197.6	175.1	22.51	8.776		
5,700.0	5,687.7	5,698.9	5,683.1	11.6	11.6	109.32	-336.4	21.1	202.2	179.3	22.96	8.809		
5,800.0	5,787.5	5,798.7	5,782.5	11.9	11.8	108.63	-345.9	21.9	206.9	183.5	23.41	8.841		
5,900.0	5,887.2	5,898.6	5,881.9	12.1	12.1	107.96	-355.5	22.7	211.7	187.8	23.85	8.874		
6,000.0	5,986.9	5,998.5	5,981.3	12.3	12.3	107.33	-365.0	23.5	216.4	192.1	24.29	8.908		
6,100.0	6,086.7	6,098.3	6,080.7	12.5	12.5	106.72	-374.5	24.3	221.2	196.5	24.74	8.941		
6,200.0	6,186.4	6,198.2	6,180.1	12.7	12.8	106.14	-384.1	25.1	226.0	200.8	25.18	8.974		
6,300.0	6,286.2	6,298.0	6,279.5	12.9	13.0	105.58	-393.6	25.9	230.8	205.2	25.62	9.008		
6,400.0	6,385.9	6,402.8	6,383.9	13.1	13.2	105.25	-402.6	26.7	235.3	209.2	26.06	9.029		
6,500.0	6,485.7	6,516.2	6,497.1	13.3	13.3	161.70	-398.3	27.6	235.7	209.3	26.34	8.947		
6,600.0	6,585.3	6,627.3	6,606.0	13.4	13.3	-124.53	-376.9	28.5	235.1	208.8	26.31	8.937		
6,700.0	6,682.9	6,736.0	6,708.1	13.5	13.1	-112.40	-340.0	29.3	234.8	208.8	26.03	9.021		
6,707.4	6,689.9	6,743.9	6,715.3	13.5	13.1	-111.81	-336.7	29.4	234.8	208.8	26.01	9.031		
6,800.0	6,776.6	6,842.2	6,801.3	13.4	12.9	-105.60	-289.3	30.1	235.1	209.5	25.63	9.174		
6,900.0	6,864.7	6,946.0	6,884.2	13.3	12.7	-100.15	-227.0	30.8	236.0	210.8	25.22	9.359		
7,000.0	6,945.3	7,047.4	6,955.7	13.3	12.5	-95.29	-155.2	31.3	237.7	212.7	24.94	9.532		
7,100.0	7,017.0	7,146.6	7,015.2	13.3	12.5	-90.82	-75.9	31.8	240.1	215.2	24.89	9.644		
7,200.0	7,078.3	7,243.8	7,062.3	13.4	12.6	-86.69	8.9	32.2	243.1	217.9	25.15	9.664		
7,300.0	7,128.1	7,339.0	7,096.8	13.7	13.0	-82.91	97.6	32.5	246.5	220.8	25.73	9.580		
7,400.0	7,165.4	7,432.5	7,119.1	14.2	13.5	-79.50	188.3	32.6	250.3	223.7	26.61	9.406		
7,500.0	7,189.3	7,524.4	7,129.2	14.9	14.2	-76.47	279.7	32.7	254.0	226.3	27.73	9.161		
7,600.0	7,199.6	7,621.0	7,130.0	15.7	15.0	-74.29	376.2	32.7	256.9	227.7	29.14	8.814		
7,700.0	7,200.0	7,721.0	7,130.0	16.7	16.0	-74.19	476.2	32.7	257.0	225.9	31.09	8.265		
7,800.0	7,200.0	7,821.0	7,130.0	17.8	17.2	-74.19	576.2	32.7	257.0	223.7	33.31	7.715		
7,900.0	7,200.0	7,921.0	7,130.0	19.0	18.4	-74.19	676.2	32.7	257.0	221.3	35.71	7.197		
8,000.0	7,200.0	8,021.0	7,130.0	20.3	19.8	-74.19	776.2	32.7	257.0	218.7	38.25	6.718		
8,100.0	7,200.0	8,121.0	7,130.0	21.7	21.1	-74.19	876.2	32.7	257.0	216.1	40.92	6.280		
8,200.0	7,200.0	8,221.0	7,130.0	23.1	22.6	-74.19	976.2	32.7	257.0	213.3	43.68	5.883		
8,300.0	7,200.0	8,321.0	7,130.0	24.5	24.0	-74.19	1,076.2	32.7	257.0	210.5	46.53	5.523		
8,400.0	7,200.0	8,421.0	7,130.0	26.0	25.6	-74.19	1,176.2	32.7	257.0	207.5	49.44	5.198		
8,500.0	7,200.0	8,521.0	7,130.0	27.5	27.1	-74.19	1,276.2	32.7	257.0	204.6	52.41	4.903		
8,600.0	7,200.0	8,621.0	7,130.0	29.1	28.7	-74.19	1,376.2	32.7	257.0	201.6	55.43	4.637		
8,700.0	7,200.0	8,721.0	7,130.0	30.6	30.3	-74.19	1,476.2	32.7	257.0	198.5	58.48	4.394		
8,800.0	7,200.0	8,821.0	7,130.0	32.2	31.9	-74.19	1,576.2	32.7	257.0	195.4	61.57	4.174		
8,900.0	7,200.0	8,921.0	7,130.0	33.8	33.5	-74.19	1,676.2	32.7	257.0	192.3	64.69	3.973		
9,000.0	7,200.0	9,021.0	7,130.0	35.4	35.1	-74.19	1,776.2	32.7	257.0	189.2	67.83	3.789		
9,100.0	7,200.0	9,121.0	7,130.0	37.1	36.8	-74.19	1,876.2	32.7	257.0	186.0	70.99	3.620		
9,200.0	7,200.0	9,221.0	7,130.0	38.7	38.4	-74.19	1,976.2	32.7	257.0	182.8	74.18	3.464		
9,300.0	7,200.0	9,321.0	7,130.0	40.4	40.1	-74.19	2,076.2	32.7	257.0	179.6	77.37	3.321		
9,305.0	7,200.0	9,326.0	7,130.0	40.4	40.2	-74.19	2,081.2	32.7	257.0	179.4	77.54	3.314		
9,400.0	7,200.0	9,417.8	7,130.0	42.0	41.7	-74.22	2,173.0	32.3	257.4	176.9	80.55	3.196		
9,500.0	7,200.0	9,516.5	7,130.0	43.7	43.3	-74.32	2,271.7	30.6	259.1	175.3	83.79	3.092		
9,600.0	7,200.0	9,616.5	7,130.0	45.4	45.0	-74.43	2,371.7	28.8	260.8	173.7	87.07	2.995		
9,700.0	7,200.0	9,716.5	7,130.0	47.0	46.7	-74.53	2,471.6	27.0	262.5	172.2	90.37	2.905		
9,800.0	7,200.0	9,816.5	7,130.0	48.7	48.4	-74.64	2,571.6	25.2	264.3	170.6	93.67	2.821		
9,900.0	7,200.0	9,916.4	7,130.0	50.4	50.1	-74.74	2,671.6	23.4	266.0	169.0	96.99	2.743		
10,000.0	7,200.0	10,016.4	7,130.0	52.1	51.8	-74.84	2,771.5	21.6	267.7	167.4	100.31	2.669		
10,100.0	7,200.0	10,116.4	7,130.0	53.8	53.5	-74.94	2,871.5	19.9	269.4	165.8	103.65	2.600		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,200.0	10,216.4	7,130.0	55.5	55.2	-75.04	2,971.5	18.1	271.2	164.2	106.99	2.535		
10,300.0	7,200.0	10,316.4	7,130.0	57.2	56.9	-75.13	3,071.5	16.3	272.9	162.6	110.34	2.473		
10,400.0	7,200.0	10,416.4	7,130.0	58.9	58.6	-75.23	3,171.4	14.5	274.6	160.9	113.70	2.415		
10,500.0	7,200.0	10,516.3	7,130.0	60.6	60.3	-75.32	3,271.4	12.7	276.4	159.3	117.06	2.361		
10,600.0	7,200.0	10,616.3	7,130.0	62.3	62.1	-75.42	3,371.4	10.9	278.1	157.7	120.43	2.309		
10,700.0	7,200.0	10,716.3	7,130.0	64.0	63.8	-75.51	3,471.3	9.1	279.8	156.0	123.81	2.260		
10,800.0	7,200.0	10,816.3	7,130.0	65.8	65.5	-75.57	3,571.3	7.3	280.8	153.8	127.05	2.210		
10,900.0	7,200.0	10,916.3	7,130.0	67.5	67.2	-75.49	3,671.3	5.6	279.5	149.3	130.11	2.148		
11,000.0	7,200.0	11,016.2	7,130.0	69.2	68.9	-75.27	3,771.2	3.8	275.6	142.6	133.02	2.072		
11,100.0	7,200.0	11,116.0	7,130.0	70.9	70.7	-74.92	3,871.0	2.0	269.6	133.7	135.96	1.983		
11,200.0	7,200.0	11,215.8	7,130.0	72.6	72.4	-74.55	3,970.7	0.2	263.3	124.3	139.05	1.894		
11,300.0	7,200.0	11,315.6	7,130.0	74.3	74.1	-74.16	4,070.5	-1.6	257.0	114.9	142.13	1.808		
11,400.0	7,200.0	11,415.4	7,130.0	76.0	75.8	-73.76	4,170.3	-3.4	250.7	105.6	145.17	1.727		
11,500.0	7,200.0	11,515.2	7,130.0	77.7	77.6	-73.33	4,270.0	-5.2	244.5	96.3	148.17	1.650		
11,600.0	7,200.0	11,615.0	7,130.0	79.5	79.3	-72.88	4,369.8	-6.9	238.2	87.1	151.14	1.576		
11,640.3	7,200.0	11,655.2	7,130.0	80.2	80.0	-72.69	4,410.0	-7.7	235.7	83.4	152.33	1.547 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4H-35H-O367 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	92.70	-0.4	7.5	7.6						
100.0	100.0	100.0	100.0	0.2	0.2	92.70	-0.4	7.5	7.6	7.2	0.30	24.871			
200.0	200.0	200.0	200.0	0.3	0.3	92.70	-0.4	7.5	7.6	6.9	0.65	11.571			
300.0	300.0	300.0	300.0	0.5	0.5	92.70	-0.4	7.5	7.6	6.6	1.00	7.539			
400.0	400.0	400.0	400.0	0.7	0.7	92.70	-0.4	7.5	7.6	6.2	1.35	5.591			
500.0	500.0	500.0	500.0	0.8	0.8	92.70	-0.4	7.5	7.6	5.9	1.70	4.443			
600.0	600.0	600.0	600.0	1.0	1.0	92.70	-0.4	7.5	7.6	5.5	2.05	3.686 CC, ES			
700.0	700.0	699.9	699.9	1.2	1.2	96.95	-1.0	8.1	8.2	5.8	2.40	3.420			
800.0	800.0	799.8	799.7	1.4	1.4	-38.70	-2.9	9.9	9.6	6.9	2.75	3.511			
900.0	900.0	899.6	899.4	1.6	1.6	-34.74	-6.1	12.9	11.3	8.2	3.10	3.633			
1,000.0	999.9	999.4	999.1	1.7	1.7	-32.38	-10.5	17.0	13.0	9.5	3.45	3.762			
1,100.0	1,099.7	1,099.1	1,098.5	1.9	1.9	-31.10	-16.2	22.4	14.8	11.0	3.81	3.885			
1,200.0	1,199.4	1,199.0	1,197.9	2.1	2.2	-29.63	-23.1	28.8	17.1	13.0	4.17	4.114			
1,300.0	1,299.2	1,298.9	1,297.4	2.3	2.4	-28.13	-30.3	35.5	19.8	15.3	4.53	4.376			
1,400.0	1,398.9	1,398.9	1,396.9	2.5	2.6	-26.99	-37.4	42.2	22.5	17.6	4.88	4.602			
1,500.0	1,498.6	1,498.9	1,496.3	2.7	2.8	-26.09	-44.6	48.9	25.2	19.9	5.24	4.798			
1,600.0	1,598.4	1,598.8	1,595.8	2.9	3.1	-25.37	-51.7	55.6	27.8	22.2	5.60	4.970			
1,700.0	1,698.1	1,698.8	1,695.3	3.1	3.3	-24.77	-58.9	62.3	30.5	24.6	5.96	5.122			
1,800.0	1,797.9	1,798.7	1,794.8	3.3	3.5	-24.27	-66.0	69.0	33.2	26.9	6.32	5.257			
1,900.0	1,897.6	1,898.7	1,894.3	3.5	3.8	-23.84	-73.2	75.7	35.9	29.2	6.68	5.378			
2,000.0	1,997.3	1,998.7	1,993.7	3.8	4.0	-23.48	-80.3	82.3	38.6	31.6	7.04	5.487			
2,100.0	2,097.1	2,098.6	2,093.2	4.0	4.2	-23.16	-87.5	89.0	41.3	33.9	7.40	5.586			
2,200.0	2,196.8	2,198.6	2,192.7	4.2	4.5	-22.88	-94.7	95.7	44.0	36.3	7.76	5.675			
2,300.0	2,296.6	2,298.6	2,292.2	4.4	4.7	-22.63	-101.8	102.4	46.7	38.6	8.11	5.757			
2,400.0	2,396.3	2,398.5	2,391.7	4.6	5.0	-22.41	-109.0	109.1	49.4	40.9	8.47	5.832			
2,500.0	2,496.0	2,498.5	2,491.2	4.8	5.2	-22.21	-116.1	115.8	52.1	43.3	8.83	5.901			
2,600.0	2,595.8	2,598.5	2,590.6	5.0	5.4	-22.04	-123.3	122.5	54.8	45.6	9.19	5.965			
2,700.0	2,695.5	2,698.4	2,690.1	5.2	5.7	-21.87	-130.4	129.2	57.5	48.0	9.55	6.024			
2,800.0	2,795.3	2,798.4	2,789.6	5.4	5.9	-21.73	-137.6	135.9	60.2	50.3	9.91	6.078			
2,900.0	2,895.0	2,898.3	2,889.1	5.7	6.2	-21.59	-144.7	142.6	62.9	52.7	10.27	6.129			
3,000.0	2,994.7	2,998.3	2,988.6	5.9	6.4	-21.47	-151.9	149.2	65.6	55.0	10.62	6.177			
3,100.0	3,094.5	3,098.3	3,088.1	6.1	6.6	-21.36	-159.0	155.9	68.3	57.3	10.98	6.222			
3,200.0	3,194.2	3,198.2	3,187.5	6.3	6.9	-21.25	-166.2	162.6	71.0	59.7	11.34	6.263			
3,300.0	3,294.0	3,298.2	3,287.0	6.5	7.1	-21.16	-173.3	169.3	73.7	62.0	11.70	6.302			
3,400.0	3,393.7	3,398.2	3,386.5	6.7	7.4	-21.07	-180.5	176.0	76.4	64.4	12.06	6.339			
3,500.0	3,493.4	3,498.1	3,486.0	6.9	7.6	-20.98	-187.6	182.7	79.1	66.7	12.42	6.374			
3,600.0	3,593.2	3,598.1	3,585.5	7.1	7.8	-20.90	-194.8	189.4	81.9	69.1	12.78	6.407			
3,700.0	3,692.9	3,698.1	3,684.9	7.4	8.1	-20.83	-202.0	196.1	84.6	71.4	13.13	6.438			
3,800.0	3,792.7	3,798.0	3,784.4	7.6	8.3	-20.76	-209.1	202.8	87.3	73.8	13.49	6.467			
3,900.0	3,892.4	3,898.0	3,883.9	7.8	8.6	-20.70	-216.3	209.5	90.0	76.1	13.85	6.495			
4,000.0	3,992.1	3,997.9	3,983.4	8.0	8.8	-20.63	-223.4	216.1	92.7	78.5	14.21	6.522			
4,100.0	4,091.9	4,097.9	4,082.9	8.2	9.1	-20.58	-230.6	222.8	95.4	80.8	14.57	6.547			
4,200.0	4,191.6	4,197.9	4,182.4	8.4	9.3	-20.52	-237.7	229.5	98.1	83.2	14.93	6.571			
4,300.0	4,291.4	4,297.8	4,281.8	8.6	9.5	-20.47	-244.9	236.2	100.8	85.5	15.28	6.594			
4,400.0	4,391.1	4,397.8	4,381.3	8.9	9.8	-20.42	-252.0	242.9	103.5	87.8	15.64	6.616			
4,500.0	4,490.8	4,497.8	4,480.8	9.1	10.0	-20.38	-259.2	249.6	106.2	90.2	16.00	6.637			
4,600.0	4,590.6	4,597.7	4,580.3	9.3	10.3	-20.33	-266.3	256.3	108.9	92.5	16.36	6.657			
4,700.0	4,690.3	4,697.7	4,679.8	9.5	10.5	-20.29	-273.5	263.0	111.6	94.9	16.72	6.676			
4,800.0	4,790.1	4,797.6	4,779.3	9.7	10.8	-20.25	-280.6	269.7	114.3	97.2	17.08	6.694			
4,900.0	4,889.8	4,897.6	4,878.7	9.9	11.0	-20.21	-287.8	276.4	117.0	99.6	17.44	6.714			
5,000.0	4,989.5	4,997.6	4,978.2	10.1	11.3	-20.18	-294.9	283.0	119.7	101.9	17.79	6.728			
5,100.0	5,089.3	5,097.5	5,077.7	10.4	11.5	-20.14	-302.1	289.7	122.4	104.3	18.15	6.745			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4H-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,189.0	5,197.5	5,177.2	10.6	11.7	-20.11	-309.3	296.4	125.1	106.6	18.51	6.760		
5,300.0	5,288.8	5,297.5	5,276.7	10.8	12.0	-20.08	-316.4	303.1	127.8	109.0	18.87	6.775		
5,400.0	5,388.5	5,397.4	5,376.1	11.0	12.2	-20.05	-323.6	309.8	130.5	111.3	19.23	6.790		
5,500.0	5,488.2	5,497.4	5,475.6	11.2	12.5	-20.02	-330.7	316.5	133.3	113.7	19.59	6.803		
5,600.0	5,588.0	5,597.4	5,575.1	11.4	12.7	-19.99	-337.9	323.2	136.0	116.0	19.94	6.817		
5,700.0	5,687.7	5,697.3	5,674.6	11.6	13.0	-19.96	-345.0	329.9	138.7	118.4	20.30	6.830		
5,800.0	5,787.5	5,797.3	5,774.1	11.9	13.2	-19.94	-352.2	336.6	141.4	120.7	20.66	6.842		
5,900.0	5,887.2	5,897.2	5,873.6	12.1	13.4	-19.91	-359.3	343.3	144.1	123.1	21.02	6.854		
6,000.0	5,986.9	5,997.2	5,973.0	12.3	13.7	-19.89	-366.5	349.9	146.8	125.4	21.38	6.866		
6,100.0	6,086.7	6,097.2	6,072.5	12.5	13.9	-19.86	-373.6	356.6	149.5	127.8	21.74	6.877		
6,200.0	6,186.4	6,197.1	6,172.0	12.7	14.2	-19.84	-380.8	363.3	152.2	130.1	22.10	6.888		
6,300.0	6,286.2	6,297.1	6,271.5	12.9	14.4	-19.82	-387.9	370.0	154.9	132.4	22.45	6.899		
6,400.0	6,385.9	6,397.1	6,371.0	13.1	14.7	-19.80	-395.1	376.7	157.6	134.8	22.81	6.909		
6,500.0	6,485.7	6,497.0	6,470.4	13.3	14.9	34.47	-402.2	383.4	161.0	137.8	23.14	6.956		
6,600.0	6,585.3	6,595.9	6,568.8	13.4	15.2	107.80	-409.3	390.0	170.9	147.6	23.22	7.357		
6,700.0	6,682.9	6,708.7	6,681.3	13.5	15.3	121.18	-410.8	397.6	186.6	163.5	23.12	8.071		
6,800.0	6,776.6	6,829.0	6,799.9	13.4	15.4	127.97	-393.0	405.6	201.9	179.0	22.95	8.799		
6,900.0	6,864.7	6,954.1	6,918.2	13.3	15.3	132.22	-353.8	413.5	215.7	193.0	22.71	9.496		
7,000.0	6,945.3	7,083.3	7,031.4	13.3	15.1	134.95	-292.3	421.1	226.9	204.5	22.45	10.109		
7,100.0	7,017.0	7,215.9	7,134.1	13.3	15.0	136.54	-209.0	428.0	234.9	212.7	22.21	10.574		
7,200.0	7,078.3	7,350.6	7,221.0	13.4	14.9	137.21	-106.6	433.9	239.1	217.0	22.11	10.816		
7,300.0	7,128.1	7,485.9	7,287.5	13.7	15.1	137.02	10.9	438.3	239.4	217.1	22.23	10.768		
7,400.0	7,165.4	7,620.2	7,330.6	14.2	15.6	136.03	141.2	441.2	235.7	212.9	22.77	10.349		
7,500.0	7,189.3	7,752.1	7,349.1	14.9	16.3	134.22	268.3	442.5	228.4	204.6	23.74	9.618		
7,600.0	7,199.6	7,860.0	7,350.0	15.7	17.2	132.76	376.2	442.5	221.5	196.6	24.84	8.917		
7,648.8	7,200.8	7,908.7	7,350.0	16.2	17.6	132.55	425.0	442.5	220.6	195.0	25.55	8.634		
7,700.0	7,200.0	7,960.0	7,350.0	16.7	18.1	132.70	476.2	442.5	221.2	194.9	26.24	8.430		
7,800.0	7,200.0	8,060.0	7,350.0	17.8	19.1	132.70	576.2	442.5	221.2	193.3	27.93	7.920		
7,900.0	7,200.0	8,160.0	7,350.0	19.0	20.2	132.70	676.2	442.5	221.2	191.4	29.75	7.435		
8,000.0	7,200.0	8,260.0	7,350.0	20.3	21.5	132.70	776.2	442.5	221.2	189.5	31.67	6.983		
8,100.0	7,200.0	8,360.0	7,350.0	21.7	22.7	132.70	876.2	442.5	221.2	187.5	33.69	6.565		
8,200.0	7,200.0	8,460.0	7,350.0	23.1	24.1	132.70	976.2	442.5	221.2	185.4	35.78	6.181		
8,300.0	7,200.0	8,560.0	7,350.0	24.5	25.5	132.70	1,076.2	442.5	221.2	183.2	37.94	5.830		
8,400.0	7,200.0	8,660.0	7,350.0	26.0	26.9	132.70	1,176.2	442.5	221.2	181.0	40.14	5.510		
8,500.0	7,200.0	8,760.0	7,350.0	27.5	28.4	132.70	1,276.2	442.5	221.2	178.8	42.39	5.218		
8,600.0	7,200.0	8,860.0	7,350.0	29.1	29.9	132.70	1,376.2	442.5	221.2	176.5	44.68	4.951		
8,700.0	7,200.0	8,960.0	7,350.0	30.6	31.4	132.70	1,476.2	442.5	221.2	174.2	46.99	4.707		
8,800.0	7,200.0	9,060.0	7,350.0	32.2	33.0	132.70	1,576.2	442.5	221.2	171.8	49.34	4.483		
8,900.0	7,200.0	9,160.0	7,350.0	33.8	34.5	132.70	1,676.2	442.5	221.2	169.5	51.71	4.278		
9,000.0	7,200.0	9,260.0	7,350.0	35.4	36.1	132.70	1,776.2	442.5	221.2	167.1	54.10	4.089		
9,100.0	7,200.0	9,360.0	7,350.0	37.1	37.7	132.70	1,876.2	442.5	221.2	164.7	56.50	3.914		
9,200.0	7,200.0	9,460.0	7,350.0	38.7	39.3	132.70	1,976.2	442.5	221.2	162.3	58.93	3.754		
9,300.0	7,200.0	9,560.0	7,350.0	40.4	41.0	132.70	2,076.2	442.5	221.2	159.8	61.36	3.604		
9,400.0	7,200.0	9,660.0	7,350.0	42.0	42.6	132.70	2,176.2	442.5	221.2	157.4	63.81	3.466		
9,500.0	7,200.0	9,760.0	7,350.0	43.7	44.2	132.70	2,276.2	442.5	221.2	154.9	66.27	3.338		
9,600.0	7,200.0	9,860.0	7,350.0	45.4	45.9	132.70	2,376.2	442.5	221.2	152.4	68.74	3.218		
9,700.0	7,200.0	9,960.0	7,350.0	47.0	47.6	132.70	2,476.2	442.5	221.2	150.0	71.22	3.106		
9,800.0	7,200.0	10,060.0	7,350.0	48.7	49.2	132.70	2,576.2	442.5	221.2	147.5	73.70	3.001		
9,900.0	7,200.0	10,160.0	7,350.0	50.4	50.9	132.70	2,676.2	442.5	221.2	145.0	76.20	2.903		
10,000.0	7,200.0	10,260.0	7,350.0	52.1	52.6	132.70	2,776.2	442.5	221.2	142.5	78.70	2.811		
10,100.0	7,200.0	10,360.0	7,350.0	53.8	54.3	132.70	2,876.2	442.5	221.2	140.0	81.20	2.724		
10,200.0	7,200.0	10,460.0	7,350.0	55.5	56.0	132.70	2,976.2	442.5	221.2	137.5	83.71	2.642		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4H-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)		Total Uncertainty Axis	Separation Factor	
10,300.0	7,200.0	10,560.0	7,350.0	57.2	57.6	132.70	3,076.2	442.5	221.2	135.0	86.23	2.565		
10,400.0	7,200.0	10,660.0	7,350.0	58.9	59.3	132.70	3,176.2	442.5	221.2	132.4	88.75	2.492		
10,500.0	7,200.0	10,760.0	7,350.0	60.6	61.0	132.70	3,276.2	442.5	221.2	129.9	91.27	2.423		
10,600.0	7,200.0	10,860.0	7,350.0	62.3	62.7	132.70	3,376.2	442.5	221.2	127.4	93.80	2.358		
10,700.0	7,200.0	10,960.0	7,350.0	64.0	64.4	132.70	3,476.2	442.5	221.2	124.9	96.33	2.296		
10,700.0	7,200.0	10,960.0	7,350.0	64.0	64.4	132.70	3,476.2	442.5	221.2	124.9	96.33	2.296		
10,800.0	7,200.0	11,059.9	7,350.0	65.8	66.2	132.58	3,576.2	442.5	221.7	122.9	98.83	2.243		
10,900.0	7,200.0	11,159.9	7,350.0	67.5	67.9	132.05	3,676.1	442.5	224.1	122.3	101.82	2.201		
11,000.0	7,200.0	11,259.7	7,350.0	69.2	69.6	131.12	3,775.9	442.5	228.4	123.1	105.35	2.168		
11,100.0	7,200.0	11,359.4	7,350.0	70.9	71.3	129.87	3,875.6	442.5	234.5	124.9	109.57	2.140		
11,200.0	7,200.0	11,459.1	7,350.0	72.6	73.0	128.60	3,975.3	442.5	240.9	126.9	114.08	2.112		
11,300.0	7,200.0	11,558.7	7,350.0	74.3	74.7	127.40	4,074.9	442.5	247.5	129.0	118.54	2.088		
11,400.0	7,200.0	11,658.4	7,350.0	76.0	76.4	126.26	4,174.6	442.5	254.2	131.2	122.96	2.067		
11,500.0	7,200.0	11,758.0	7,350.0	77.7	78.1	125.18	4,274.2	442.5	260.9	133.6	127.33	2.049		
11,600.0	7,200.0	11,857.7	7,350.0	79.5	79.8	124.16	4,373.9	442.5	267.8	136.1	131.66	2.034		
11,640.3	7,200.0	11,892.7	7,350.0	80.2	80.4	123.81	4,408.9	442.5	270.6	137.4	133.24	2.031 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4I-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	91.38	-0.4	15.1	15.1					
100.0	100.0	100.0	100.0	0.2	0.2	91.38	-0.4	15.1	15.1	14.8	0.30	49.702		
200.0	200.0	200.0	200.0	0.3	0.3	91.38	-0.4	15.1	15.1	14.4	0.65	23.123		
300.0	300.0	300.0	300.0	0.5	0.5	91.38	-0.4	15.1	15.1	14.1	1.00	15.066		
400.0	400.0	400.0	400.0	0.7	0.7	91.38	-0.4	15.1	15.1	13.7	1.35	11.173		
500.0	500.0	500.0	500.0	0.8	0.8	91.38	-0.4	15.1	15.1	13.4	1.70	8.879 CC, ES		
600.0	600.0	599.8	599.8	1.0	1.0	93.09	-0.9	15.8	15.8	13.8	2.05	7.728		
700.0	700.0	699.5	699.4	1.2	1.2	97.35	-2.3	18.0	18.1	15.7	2.40	7.558		
800.0	800.0	799.1	799.0	1.4	1.4	-41.00	-4.8	21.5	21.4	18.7	2.75	7.797		
900.0	900.0	898.7	898.3	1.6	1.6	-39.42	-8.2	26.6	25.1	22.0	3.10	8.084		
1,000.0	999.9	998.1	997.5	1.7	1.8	-39.16	-12.5	33.0	29.0	25.5	3.45	8.385		
1,100.0	1,099.7	1,097.6	1,096.5	1.9	2.0	-39.77	-17.9	40.8	33.1	29.3	3.81	8.685		
1,200.0	1,199.4	1,196.9	1,195.2	2.1	2.2	-40.32	-24.2	50.1	38.1	33.9	4.18	9.104		
1,300.0	1,299.2	1,296.2	1,293.7	2.3	2.5	-39.92	-31.4	60.7	44.5	40.0	4.55	9.784		
1,400.0	1,398.9	1,396.0	1,392.5	2.5	2.7	-39.45	-38.8	71.7	51.4	46.5	4.92	10.439		
1,500.0	1,498.6	1,495.7	1,491.4	2.7	3.0	-39.09	-46.3	82.7	58.2	52.9	5.29	11.001		
1,600.0	1,598.4	1,595.5	1,590.3	2.9	3.3	-38.80	-53.8	93.7	65.1	59.4	5.67	11.486		
1,700.0	1,698.1	1,695.3	1,689.2	3.1	3.6	-38.57	-61.3	104.7	71.9	65.9	6.04	11.911		
1,800.0	1,797.9	1,795.0	1,788.0	3.3	3.8	-38.38	-68.8	115.7	78.8	72.4	6.42	12.284		
1,900.0	1,897.6	1,894.8	1,886.9	3.5	4.1	-38.22	-76.2	126.7	85.7	78.9	6.79	12.616		
2,000.0	1,997.3	1,994.6	1,985.8	3.8	4.4	-38.08	-83.7	137.7	92.5	85.4	7.17	12.912		
2,100.0	2,097.1	2,094.3	2,084.6	4.0	4.7	-37.96	-91.2	148.7	99.4	91.9	7.54	13.178		
2,200.0	2,196.8	2,194.1	2,183.5	4.2	5.0	-37.86	-98.7	159.7	106.3	98.3	7.92	13.419		
2,300.0	2,296.6	2,293.9	2,282.4	4.4	5.2	-37.77	-106.1	170.8	113.1	104.8	8.30	13.637		
2,400.0	2,396.3	2,393.6	2,381.3	4.6	5.5	-37.69	-113.6	181.8	120.0	111.3	8.67	13.835		
2,500.0	2,496.0	2,493.4	2,480.1	4.8	5.8	-37.62	-121.1	192.8	126.8	117.8	9.05	14.017		
2,600.0	2,595.8	2,593.1	2,579.0	5.0	6.1	-37.56	-128.6	203.8	133.7	124.3	9.43	14.184		
2,700.0	2,695.5	2,692.9	2,677.9	5.2	6.4	-37.50	-136.1	214.8	140.6	130.8	9.80	14.338		
2,800.0	2,795.3	2,792.7	2,776.8	5.4	6.7	-37.45	-143.5	225.8	147.4	137.3	10.18	14.481		
2,900.0	2,895.0	2,892.4	2,875.6	5.7	7.0	-37.40	-151.0	236.8	154.3	143.7	10.56	14.613		
3,000.0	2,994.7	2,992.2	2,974.5	5.9	7.2	-37.36	-158.5	247.8	161.2	150.2	10.94	14.735		
3,100.0	3,094.5	3,092.0	3,073.4	6.1	7.5	-37.32	-166.0	258.8	168.0	156.7	11.32	14.850		
3,200.0	3,194.2	3,191.7	3,172.2	6.3	7.8	-37.28	-173.4	269.8	174.9	163.2	11.69	14.957		
3,300.0	3,294.0	3,291.5	3,271.1	6.5	8.1	-37.25	-180.9	280.8	181.8	169.7	12.07	15.057		
3,400.0	3,393.7	3,391.3	3,370.0	6.7	8.4	-37.21	-188.4	291.8	188.6	176.2	12.45	15.151		
3,500.0	3,493.4	3,491.0	3,468.9	6.9	8.7	-37.19	-195.9	302.8	195.5	182.7	12.83	15.239		
3,600.0	3,593.2	3,590.8	3,567.7	7.1	9.0	-37.16	-203.4	313.8	202.3	189.1	13.21	15.322		
3,700.0	3,692.9	3,690.5	3,666.6	7.4	9.3	-37.13	-210.8	324.8	209.2	195.6	13.58	15.401		
3,800.0	3,792.7	3,790.3	3,765.5	7.6	9.6	-37.11	-218.3	335.8	216.1	202.1	13.96	15.475		
3,900.0	3,892.4	3,890.1	3,864.4	7.8	9.8	-37.09	-225.8	346.8	222.9	208.6	14.34	15.545		
4,000.0	3,992.1	3,989.8	3,963.2	8.0	10.1	-37.06	-233.3	357.8	229.8	215.1	14.72	15.612		
4,100.0	4,091.9	4,089.6	4,062.1	8.2	10.4	-37.05	-240.7	368.8	236.7	221.6	15.10	15.675		
4,200.0	4,191.6	4,189.4	4,161.0	8.4	10.7	-37.03	-248.2	379.8	243.5	228.1	15.48	15.735		
4,300.0	4,291.4	4,289.1	4,259.8	8.6	11.0	-37.01	-255.7	390.8	250.4	234.5	15.86	15.792		
4,400.0	4,391.1	4,388.9	4,358.7	8.9	11.3	-36.99	-263.2	401.8	257.3	241.0	16.23	15.846		
4,500.0	4,490.8	4,488.7	4,457.6	9.1	11.6	-36.98	-270.7	412.9	264.1	247.5	16.61	15.898		
4,600.0	4,590.6	4,588.4	4,556.5	9.3	11.9	-36.96	-278.1	423.9	271.0	254.0	16.99	15.948		
4,700.0	4,690.3	4,688.2	4,655.3	9.5	12.2	-36.95	-285.6	434.9	277.9	260.5	17.37	15.995		
4,800.0	4,790.1	4,788.0	4,754.2	9.7	12.5	-36.93	-293.1	445.9	284.7	267.0	17.75	16.041		
4,900.0	4,889.8	4,887.7	4,853.1	9.9	12.7	-36.92	-300.6	456.9	291.6	273.5	18.13	16.084		
5,000.0	4,989.5	4,987.5	4,952.0	10.1	13.0	-36.91	-308.1	467.9	298.5	279.9	18.51	16.126		
5,100.0	5,089.3	5,087.2	5,050.8	10.4	13.3	-36.90	-315.5	478.9	305.3	286.4	18.89	16.166		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4I-35H-O367 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,189.0	5,187.0	5,149.7	10.6	13.6	-36.88	-323.0	489.9	312.2	292.9	19.27	16.204		
5,300.0	5,288.8	5,286.8	5,248.6	10.8	13.9	-36.87	-330.5	500.9	319.0	299.4	19.64	16.241		
5,400.0	5,388.5	5,386.5	5,347.5	11.0	14.2	-36.86	-338.0	511.9	325.9	305.9	20.02	16.276		
5,500.0	5,488.2	5,486.3	5,446.3	11.2	14.5	-36.85	-345.4	522.9	332.8	312.4	20.40	16.311		
5,600.0	5,588.0	5,586.1	5,545.2	11.4	14.8	-36.84	-352.9	533.9	339.6	318.9	20.78	16.343		
5,700.0	5,687.7	5,685.8	5,644.1	11.6	15.1	-36.83	-360.4	544.9	346.5	325.3	21.16	16.375		
5,800.0	5,787.5	5,785.6	5,742.9	11.9	15.4	-36.83	-367.9	555.9	353.4	331.8	21.54	16.406		
5,900.0	5,887.2	5,885.4	5,841.8	12.1	15.6	-36.82	-375.4	566.9	360.2	338.3	21.92	16.435		
6,000.0	5,986.9	5,985.1	5,940.7	12.3	15.9	-36.81	-382.8	577.9	367.1	344.8	22.30	16.464		
6,100.0	6,086.7	6,084.9	6,039.6	12.5	16.2	-36.80	-390.3	588.9	374.0	351.3	22.68	16.491		
6,200.0	6,186.4	6,184.7	6,138.4	12.7	16.5	-36.79	-397.8	599.9	380.8	357.8	23.06	16.518		
6,300.0	6,286.2	6,284.4	6,237.3	12.9	16.8	-36.79	-405.3	610.9	387.7	364.3	23.43	16.543		
6,400.0	6,385.9	6,384.2	6,336.2	13.1	17.1	-36.78	-412.7	621.9	394.6	370.7	23.81	16.568		
6,500.0	6,485.7	6,496.2	6,447.4	13.3	17.4	16.58	-416.2	634.3	400.6	376.4	24.22	16.539		
6,600.0	6,585.3	6,612.2	6,561.7	13.4	17.5	85.47	-402.0	646.8	405.6	381.1	24.54	16.531		
6,700.0	6,682.9	6,727.0	6,671.1	13.5	17.5	92.18	-369.9	658.6	410.0	385.3	24.71	16.592		
6,800.0	6,776.6	6,840.1	6,772.6	13.4	17.5	93.18	-321.4	669.4	413.8	389.1	24.78	16.704		
6,900.0	6,864.7	6,951.3	6,863.8	13.3	17.4	92.57	-258.7	679.0	417.1	392.4	24.78	16.835		
7,000.0	6,945.3	7,060.4	6,942.9	13.3	17.3	91.26	-184.2	687.1	420.0	395.2	24.80	16.937		
7,100.0	7,017.0	7,167.2	7,008.6	13.3	17.4	89.60	-100.2	693.6	422.4	397.5	24.92	16.953		
7,200.0	7,078.3	7,271.8	7,060.2	13.4	17.5	87.76	-9.5	698.5	424.4	399.2	25.23	16.823		
7,300.0	7,128.1	7,374.2	7,097.4	13.7	17.7	85.82	85.7	701.8	426.1	400.3	25.83	16.494		
7,400.0	7,165.4	7,474.4	7,120.5	14.2	18.1	83.87	183.1	703.5	427.4	400.6	26.79	15.952		
7,500.0	7,189.3	7,572.6	7,129.8	14.9	18.7	81.95	280.8	703.7	428.3	400.2	28.14	15.224		
7,600.0	7,199.6	7,671.7	7,130.0	15.7	19.3	80.64	379.9	702.8	428.6	398.7	29.91	14.327		
7,700.0	7,200.0	7,771.7	7,130.0	16.7	20.2	80.58	479.9	702.0	427.8	395.8	31.97	13.380		
7,800.0	7,200.0	7,871.7	7,130.0	17.8	21.1	80.56	579.8	701.1	426.9	392.7	34.23	12.472		
7,900.0	7,200.0	7,971.7	7,130.0	19.0	22.1	80.54	679.8	700.2	426.0	389.4	36.68	11.616		
8,000.0	7,200.0	8,071.7	7,130.0	20.3	23.2	80.52	779.8	699.4	425.2	385.9	39.27	10.826		
8,100.0	7,200.0	8,171.6	7,130.0	21.7	24.4	80.50	879.8	698.5	424.3	382.3	42.00	10.103		
8,200.0	7,200.0	8,271.6	7,130.0	23.1	25.6	80.48	979.8	697.6	423.5	378.6	44.82	9.447		
8,300.0	7,200.0	8,371.6	7,130.0	24.5	27.0	80.46	1,079.8	696.7	422.6	374.9	47.73	8.854		
8,400.0	7,200.0	8,471.6	7,130.0	26.0	28.3	80.45	1,179.8	695.9	421.7	371.0	50.71	8.317		
8,500.0	7,200.0	8,571.6	7,130.0	27.5	29.7	80.43	1,279.8	695.0	420.9	367.1	53.74	7.832		
8,600.0	7,200.0	8,671.6	7,130.0	29.1	31.1	80.41	1,379.8	694.1	420.0	363.2	56.82	7.392		
8,700.0	7,200.0	8,771.6	7,130.0	30.6	32.6	80.39	1,479.8	693.2	419.1	359.2	59.94	6.992		
8,800.0	7,200.0	8,871.6	7,130.0	32.2	34.1	80.37	1,579.8	692.4	418.3	355.2	63.10	6.629		
8,900.0	7,200.0	8,971.6	7,130.0	33.8	35.6	80.35	1,679.8	691.5	417.4	351.1	66.29	6.297		
9,000.0	7,200.0	9,071.6	7,130.0	35.4	37.2	80.33	1,779.8	690.6	416.6	347.1	69.50	5.994		
9,100.0	7,200.0	9,171.6	7,130.0	37.1	38.7	80.31	1,879.7	689.8	415.7	343.0	72.73	5.715		
9,200.0	7,200.0	9,271.6	7,130.0	38.7	40.3	80.29	1,979.7	688.9	414.8	338.9	75.99	5.459		
9,300.0	7,200.0	9,371.6	7,130.0	40.4	41.9	80.26	2,079.7	688.0	414.0	334.7	79.26	5.223		
9,400.0	7,200.0	9,471.6	7,130.0	42.0	43.5	80.24	2,179.7	687.1	413.1	330.6	82.54	5.005		
9,500.0	7,200.0	9,571.6	7,130.0	43.7	45.1	80.22	2,279.7	686.3	412.3	326.4	85.84	4.803		
9,600.0	7,200.0	9,671.6	7,130.0	45.4	46.7	80.20	2,379.7	685.4	411.4	322.3	89.15	4.615		
9,700.0	7,200.0	9,771.6	7,130.0	47.0	48.3	80.18	2,479.7	684.5	410.5	318.1	92.46	4.440		
9,800.0	7,200.0	9,871.6	7,130.0	48.7	50.0	80.16	2,579.7	683.6	409.7	313.9	95.79	4.277		
9,900.0	7,200.0	9,971.6	7,130.0	50.4	51.6	80.14	2,679.7	682.8	408.8	309.7	99.13	4.124		
10,000.0	7,200.0	10,071.6	7,130.0	52.1	53.3	80.12	2,779.7	681.9	408.0	305.5	102.47	3.981		
10,100.0	7,200.0	10,171.6	7,130.0	53.8	54.9	80.10	2,879.7	681.0	407.1	301.3	105.82	3.847		
10,200.0	7,200.0	10,271.6	7,130.0	55.5	56.6	80.08	2,979.7	680.2	406.2	297.1	109.18	3.721		
10,300.0	7,200.0	10,371.6	7,130.0	57.2	58.3	80.06	3,079.7	679.3	405.4	292.9	112.54	3.602		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4I-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,200.0	10,471.6	7,130.0	58.9	59.9	80.03	3,179.6	678.4	404.5	288.6	115.90	3.490		
10,500.0	7,200.0	10,571.6	7,130.0	60.6	61.6	80.01	3,279.6	677.5	403.7	284.4	119.27	3.384		
10,600.0	7,200.0	10,671.6	7,130.0	62.3	63.3	79.99	3,379.6	676.7	402.8	280.2	122.64	3.284		
10,700.0	7,200.0	10,771.5	7,130.0	64.0	65.0	79.97	3,479.6	675.8	401.9	275.9	126.02	3.190		
10,756.3	7,200.0	10,827.9	7,130.0	65.0	65.9	79.97	3,535.9	675.3	401.8	274.0	127.75	3.145		
10,800.0	7,200.0	10,871.5	7,130.0	65.8	66.7	79.97	3,579.6	674.9	401.8	272.7	129.09	3.113		
10,900.0	7,200.0	10,971.5	7,130.0	67.5	68.4	80.02	3,679.6	674.0	404.1	272.1	132.01	3.061		
11,000.0	7,200.0	11,071.4	7,130.0	69.2	70.1	80.13	3,779.5	673.2	408.9	274.1	134.87	3.032		
11,100.0	7,200.0	11,171.1	7,130.0	70.9	71.8	80.28	3,879.2	672.3	415.9	277.9	138.00	3.014		
11,200.0	7,200.0	11,270.9	7,130.0	72.6	73.5	80.46	3,978.9	671.4	423.3	281.8	141.46	2.992		
11,300.0	7,200.0	11,370.6	7,130.0	74.3	75.2	80.62	4,078.6	670.6	430.6	285.7	144.92	2.972		
11,400.0	7,200.0	11,470.3	7,130.0	76.0	76.9	80.78	4,178.4	669.7	438.0	289.6	148.39	2.952		
11,500.0	7,200.0	11,570.0	7,130.0	77.7	78.6	80.93	4,278.1	668.8	445.3	293.5	151.85	2.933		
11,600.0	7,200.0	11,669.7	7,130.0	79.5	80.3	81.08	4,377.8	668.0	452.7	297.4	155.32	2.915		
11,640.3	7,200.0	11,695.8	7,130.0	80.2	80.7	81.12	4,403.8	667.7	455.9	299.4	156.47	2.914 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4J-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.94	-0.4	22.6	22.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.94	-0.4	22.6	22.6	22.3	0.30	74.541		
200.0	200.0	200.0	200.0	0.3	0.3	90.94	-0.4	22.6	22.6	22.0	0.65	34.679		
300.0	300.0	300.0	300.0	0.5	0.5	90.94	-0.4	22.6	22.6	21.6	1.00	22.596		
400.0	400.0	400.0	400.0	0.7	0.7	90.94	-0.4	22.6	22.6	21.3	1.35	16.757 CC, ES		
500.0	500.0	499.6	499.6	0.8	0.8	91.96	-0.8	23.4	23.4	21.7	1.70	13.773		
600.0	600.0	599.2	599.2	1.0	1.0	94.64	-2.1	25.6	25.7	23.7	2.05	12.571		
700.0	700.0	698.7	698.6	1.2	1.2	98.15	-4.2	29.4	29.7	27.3	2.40	12.408		
800.0	800.0	798.0	797.7	1.4	1.4	-41.15	-7.2	34.7	34.8	32.1	2.75	12.670		
900.0	900.0	897.3	896.6	1.6	1.6	-40.01	-11.0	41.4	40.2	37.1	3.10	12.988		
1,000.0	999.9	996.4	995.3	1.7	1.8	-39.87	-15.7	49.6	46.0	42.5	3.45	13.320		
1,100.0	1,099.7	1,095.4	1,093.7	1.9	2.1	-40.41	-21.2	59.3	52.1	48.2	3.81	13.651		
1,200.0	1,199.4	1,194.2	1,191.7	2.1	2.3	-41.03	-27.5	70.5	58.9	54.8	4.18	14.098		
1,300.0	1,299.2	1,293.3	1,289.7	2.3	2.6	-41.09	-34.6	83.0	67.3	62.7	4.55	14.787		
1,400.0	1,398.9	1,392.9	1,388.2	2.5	2.9	-41.06	-41.8	95.8	75.9	71.0	4.92	15.420		
1,500.0	1,498.6	1,492.6	1,486.8	2.7	3.2	-41.04	-49.1	108.6	84.6	79.3	5.30	15.958		
1,600.0	1,598.4	1,592.2	1,585.3	2.9	3.5	-41.03	-56.4	121.5	93.2	87.5	5.68	16.420		
1,700.0	1,698.1	1,691.8	1,683.8	3.1	3.8	-41.02	-63.7	134.3	101.8	95.8	6.05	16.823		
1,800.0	1,797.9	1,791.4	1,782.4	3.3	4.1	-41.01	-70.9	147.1	110.5	104.0	6.43	17.175		
1,900.0	1,897.6	1,891.1	1,880.9	3.5	4.4	-41.00	-78.2	160.0	119.1	112.3	6.81	17.486		
2,000.0	1,997.3	1,990.7	1,979.4	3.8	4.7	-40.99	-85.5	172.8	127.7	120.6	7.19	17.763		
2,100.0	2,097.1	2,090.3	2,077.9	4.0	5.0	-40.98	-92.8	185.7	136.4	128.8	7.57	18.011		
2,200.0	2,196.8	2,190.0	2,176.5	4.2	5.3	-40.98	-100.0	198.5	145.0	137.1	7.95	18.234		
2,300.0	2,296.6	2,289.6	2,275.0	4.4	5.6	-40.97	-107.3	211.3	153.6	145.3	8.33	18.435		
2,400.0	2,396.3	2,389.2	2,373.5	4.6	5.9	-40.97	-114.6	224.2	162.3	153.6	8.72	18.618		
2,500.0	2,496.0	2,488.8	2,472.1	4.8	6.2	-40.96	-121.9	237.0	170.9	161.8	9.10	18.786		
2,600.0	2,595.8	2,588.5	2,570.6	5.0	6.5	-40.96	-129.1	249.8	179.6	170.1	9.48	18.939		
2,700.0	2,695.5	2,688.1	2,669.1	5.2	6.8	-40.95	-136.4	262.7	188.2	178.3	9.86	19.080		
2,800.0	2,795.3	2,787.7	2,767.6	5.4	7.1	-40.95	-143.7	275.5	196.8	186.6	10.25	19.209		
2,900.0	2,895.0	2,887.3	2,866.2	5.7	7.4	-40.95	-151.0	288.3	205.5	194.8	10.63	19.330		
3,000.0	2,994.7	2,987.0	2,964.7	5.9	7.7	-40.95	-158.2	301.2	214.1	203.1	11.01	19.441		
3,100.0	3,094.5	3,086.6	3,063.2	6.1	8.1	-40.94	-165.5	314.0	222.7	211.3	11.40	19.545		
3,200.0	3,194.2	3,186.2	3,161.8	6.3	8.4	-40.94	-172.8	326.8	231.4	219.6	11.78	19.642		
3,300.0	3,294.0	3,285.8	3,260.3	6.5	8.7	-40.94	-180.1	339.7	240.0	227.8	12.16	19.732		
3,400.0	3,393.7	3,385.5	3,358.8	6.7	9.0	-40.94	-187.3	352.5	248.6	236.1	12.55	19.817		
3,500.0	3,493.4	3,485.1	3,457.3	6.9	9.3	-40.94	-194.6	365.4	257.3	244.3	12.93	19.897		
3,600.0	3,593.2	3,584.7	3,555.9	7.1	9.6	-40.93	-201.9	378.2	265.9	252.6	13.31	19.971		
3,700.0	3,692.9	3,684.3	3,654.4	7.4	9.9	-40.93	-209.1	391.0	274.5	260.8	13.70	20.042		
3,800.0	3,792.7	3,784.0	3,752.9	7.6	10.2	-40.93	-216.4	403.9	283.2	269.1	14.08	20.109		
3,900.0	3,892.4	3,883.6	3,851.4	7.8	10.5	-40.93	-223.7	416.7	291.8	277.3	14.47	20.171		
4,000.0	3,992.1	3,983.2	3,950.0	8.0	10.9	-40.93	-231.0	429.5	300.4	285.6	14.85	20.231		
4,100.0	4,091.9	4,082.9	4,048.5	8.2	11.2	-40.93	-238.2	442.4	309.1	293.8	15.23	20.288		
4,200.0	4,191.6	4,182.5	4,147.0	8.4	11.5	-40.93	-245.5	455.2	317.7	302.1	15.62	20.341		
4,300.0	4,291.4	4,282.1	4,245.6	8.6	11.8	-40.92	-252.8	468.0	326.3	310.3	16.00	20.392		
4,400.0	4,391.1	4,381.7	4,344.1	8.9	12.1	-40.92	-260.1	480.9	335.0	318.6	16.39	20.441		
4,500.0	4,490.8	4,481.4	4,442.6	9.1	12.4	-40.92	-267.3	493.7	343.6	326.8	16.77	20.487		
4,600.0	4,590.6	4,581.0	4,541.1	9.3	12.7	-40.92	-274.6	506.5	352.2	335.1	17.16	20.531		
4,700.0	4,690.3	4,680.6	4,639.7	9.5	13.0	-40.92	-281.9	519.4	360.9	343.3	17.54	20.573		
4,800.0	4,790.1	4,780.2	4,738.2	9.7	13.3	-40.92	-289.2	532.2	369.5	351.6	17.93	20.614		
4,900.0	4,889.8	4,879.9	4,836.7	9.9	13.7	-40.92	-296.4	545.1	378.2	359.8	18.31	20.652		
5,000.0	4,989.5	4,979.5	4,935.3	10.1	14.0	-40.92	-303.7	557.9	386.8	368.1	18.70	20.689		
5,100.0	5,089.3	5,079.1	5,033.8	10.4	14.3	-40.92	-311.0	570.7	395.4	376.3	19.08	20.724		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4J-35H-O367 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,189.0	5,178.7	5,132.3	10.6	14.6	-40.92	-318.3	583.6	404.1	384.6	19.46	20.758		
5,300.0	5,288.8	5,278.4	5,230.8	10.8	14.9	-40.92	-325.5	596.4	412.7	392.8	19.85	20.791		
5,400.0	5,388.5	5,378.0	5,329.4	11.0	15.2	-40.91	-332.8	609.2	421.3	401.1	20.23	20.822		
5,500.0	5,488.2	5,477.6	5,427.9	11.2	15.5	-40.91	-340.1	622.1	430.0	409.3	20.62	20.853		
5,600.0	5,588.0	5,577.3	5,526.4	11.4	15.8	-40.91	-347.4	634.9	438.6	417.6	21.00	20.882		
5,700.0	5,687.7	5,676.9	5,625.0	11.6	16.1	-40.91	-354.6	647.7	447.2	425.8	21.39	20.910		
5,800.0	5,787.5	5,776.5	5,723.5	11.9	16.5	-40.91	-361.9	660.6	455.9	434.1	21.77	20.937		
5,900.0	5,887.2	5,876.1	5,822.0	12.1	16.8	-40.91	-369.2	673.4	464.5	442.3	22.16	20.963		
6,000.0	5,986.9	5,975.8	5,920.5	12.3	17.1	-40.91	-376.5	686.2	473.1	450.6	22.54	20.988		
6,100.0	6,086.7	6,075.4	6,019.1	12.5	17.4	-40.91	-383.7	699.1	481.8	458.8	22.93	21.012		
6,200.0	6,186.4	6,175.0	6,117.6	12.7	17.7	-40.91	-391.0	711.9	490.4	467.1	23.31	21.035		
6,300.0	6,286.2	6,274.6	6,216.1	12.9	18.0	-40.91	-398.3	724.8	499.0	475.3	23.70	21.058		
6,400.0	6,385.9	6,374.3	6,314.6	13.1	18.3	-40.91	-405.6	737.6	507.7	483.6	24.08	21.080		
6,500.0	6,485.7	6,473.8	6,413.1	13.3	18.6	12.93	-412.8	750.4	516.5	492.1	24.47	21.110		
6,600.0	6,585.3	6,585.4	6,523.7	13.4	18.9	83.48	-415.8	764.8	526.8	502.1	24.69	21.336		
6,700.0	6,682.9	6,703.0	6,639.1	13.5	19.1	91.93	-400.6	779.9	536.6	511.8	24.77	21.667		
6,800.0	6,776.6	6,822.2	6,752.1	13.4	19.2	94.60	-366.0	794.6	545.6	520.9	24.74	22.057		
6,900.0	6,864.7	6,942.4	6,858.6	13.3	19.2	95.56	-312.4	808.5	553.6	528.9	24.67	22.439		
7,000.0	6,945.3	7,063.0	6,955.2	13.3	19.2	95.69	-241.4	821.0	560.3	535.7	24.65	22.730		
7,100.0	7,017.0	7,183.4	7,038.4	13.3	19.2	95.31	-155.3	831.9	565.7	540.9	24.77	22.833		
7,200.0	7,078.3	7,302.9	7,105.7	13.4	19.3	94.57	-57.1	840.6	569.6	544.5	25.14	22.656		
7,300.0	7,128.1	7,420.9	7,155.3	13.7	19.5	93.56	49.6	847.1	572.2	546.4	25.84	22.143		
7,400.0	7,165.4	7,536.8	7,186.6	14.2	19.9	92.34	161.0	851.2	573.4	546.5	26.92	21.298		
7,500.0	7,189.3	7,650.4	7,199.6	14.9	20.5	90.98	273.7	852.9	573.4	545.1	28.40	20.194		
7,600.0	7,199.6	7,752.8	7,200.0	15.7	21.1	90.04	376.2	852.9	573.0	542.8	30.16	18.995		
7,648.7	7,200.8	7,801.6	7,200.0	16.2	21.4	89.92	424.9	852.9	572.9	541.8	31.13	18.404		
7,700.0	7,200.0	7,852.8	7,200.0	16.7	21.8	90.00	476.2	852.9	572.9	540.7	32.21	17.790		
7,800.0	7,200.0	7,952.8	7,200.0	17.8	22.7	90.00	576.2	852.9	572.9	538.4	34.50	16.608		
7,900.0	7,200.0	8,052.8	7,200.0	19.0	23.7	90.00	676.2	852.9	572.9	536.0	36.98	15.493		
8,000.0	7,200.0	8,152.8	7,200.0	20.3	24.7	90.00	776.2	852.9	572.9	533.3	39.62	14.462		
8,100.0	7,200.0	8,252.8	7,200.0	21.7	25.8	90.00	876.2	852.9	572.9	530.6	42.38	13.518		
8,200.0	7,200.0	8,352.8	7,200.0	23.1	27.0	90.00	976.2	852.9	572.9	527.7	45.25	12.662		
8,300.0	7,200.0	8,452.8	7,200.0	24.5	28.3	90.00	1,076.2	852.9	572.9	524.7	48.20	11.886		
8,400.0	7,200.0	8,552.8	7,200.0	26.0	29.6	90.00	1,176.2	852.9	572.9	521.7	51.23	11.185		
8,500.0	7,200.0	8,652.8	7,200.0	27.5	30.9	90.00	1,276.2	852.9	572.9	518.6	54.31	10.550		
8,600.0	7,200.0	8,752.8	7,200.0	29.1	32.3	90.00	1,376.2	852.9	572.9	515.5	57.44	9.975		
8,700.0	7,200.0	8,852.8	7,200.0	30.6	33.7	90.00	1,476.2	852.9	572.9	512.3	60.61	9.453		
8,800.0	7,200.0	8,952.8	7,200.0	32.2	35.1	90.00	1,576.2	852.9	572.9	509.1	63.82	8.978		
8,900.0	7,200.0	9,052.8	7,200.0	33.8	36.6	90.00	1,676.2	852.9	572.9	505.9	67.05	8.544		
9,000.0	7,200.0	9,152.8	7,200.0	35.4	38.1	90.00	1,776.2	852.9	572.9	502.6	70.32	8.148		
9,100.0	7,200.0	9,252.8	7,200.0	37.1	39.6	90.00	1,876.2	852.9	572.9	499.3	73.60	7.784		
9,200.0	7,200.0	9,352.8	7,200.0	38.7	41.2	90.00	1,976.2	852.9	572.9	496.0	76.91	7.450		
9,300.0	7,200.0	9,452.8	7,200.0	40.4	42.7	90.00	2,076.2	852.9	572.9	492.7	80.23	7.141		
9,400.0	7,200.0	9,552.8	7,200.0	42.0	44.3	90.00	2,176.2	852.9	572.9	489.4	83.57	6.856		
9,500.0	7,200.0	9,652.8	7,200.0	43.7	45.9	90.00	2,276.2	852.9	572.9	486.0	86.92	6.592		
9,600.0	7,200.0	9,752.8	7,200.0	45.4	47.5	90.00	2,376.2	852.9	572.9	482.6	90.28	6.346		
9,700.0	7,200.0	9,852.8	7,200.0	47.0	49.1	90.00	2,476.2	852.9	572.9	479.3	93.66	6.117		
9,800.0	7,200.0	9,952.8	7,200.0	48.7	50.7	90.00	2,576.2	852.9	572.9	475.9	97.04	5.904		
9,805.0	7,200.0	9,957.9	7,200.0	48.8	50.8	90.00	2,581.2	852.9	572.9	475.7	97.21	5.894		
9,900.0	7,200.0	10,042.7	7,200.0	50.4	52.2	90.00	2,666.0	853.7	573.7	473.5	100.26	5.723		
10,000.0	7,200.0	10,142.6	7,200.0	52.1	53.8	90.00	2,766.0	855.4	575.5	471.9	103.66	5.552		
10,100.0	7,200.0	10,242.6	7,200.0	53.8	55.5	90.00	2,865.9	857.2	577.3	470.2	107.06	5.392		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												S35-T3N-R67W (Kiyota) - Kiyota 4J-35H-O367 - Hz - Plan #1		Offset Site Error:		0.0 ft
Survey Program:												0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
10,200.0	7,200.0	10,342.6	7,200.0	55.5	57.1	90.00	2,965.9	859.0	579.1	468.6	110.47	5.242				
10,300.0	7,200.0	10,442.6	7,200.0	57.2	58.8	90.00	3,065.9	860.8	580.8	466.9	113.89	5.100				
10,400.0	7,200.0	10,542.6	7,200.0	58.9	60.4	90.00	3,165.8	862.5	582.6	465.3	117.32	4.966				
10,500.0	7,200.0	10,642.6	7,200.0	60.6	62.1	90.00	3,265.8	864.3	584.4	463.6	120.74	4.840				
10,600.0	7,200.0	10,742.6	7,200.0	62.3	63.8	90.00	3,365.8	866.1	586.2	462.0	124.18	4.720				
10,700.0	7,200.0	10,842.5	7,200.0	64.0	65.5	90.00	3,465.7	867.8	587.9	460.3	127.61	4.607				
10,800.0	7,200.0	10,942.5	7,200.0	65.8	67.1	90.00	3,565.7	869.6	590.4	459.8	130.66	4.519				
10,900.0	7,200.0	11,042.4	7,200.0	67.5	68.8	90.00	3,665.5	871.4	595.4	461.9	133.52	4.460				
11,000.0	7,200.0	11,142.1	7,200.0	69.2	70.5	90.00	3,765.2	873.2	603.0	466.7	136.29	4.424				
11,100.0	7,200.0	11,241.6	7,200.0	70.9	72.2	90.00	3,864.8	874.9	612.7	473.4	139.35	4.397				
11,200.0	7,200.0	11,341.1	7,200.0	72.6	73.9	90.00	3,964.2	876.7	622.8	480.0	142.78	4.362				
11,300.0	7,200.0	11,440.6	7,200.0	74.3	75.6	90.00	4,063.7	878.5	632.9	486.7	146.22	4.328				
11,400.0	7,200.0	11,540.1	7,200.0	76.0	77.3	90.00	4,163.2	880.2	643.0	493.3	149.66	4.296				
11,500.0	7,200.0	11,639.6	7,200.0	77.7	79.0	90.00	4,262.7	882.0	653.1	499.9	153.10	4.265				
11,600.0	7,200.0	11,695.7	7,200.0	79.5	79.9	90.00	4,318.7	883.0	664.6	508.8	155.80	4.265 SF				
11,640.3	7,200.0	11,695.7	7,200.0	80.2	79.9	90.00	4,318.7	883.0	672.4	515.9	156.50	4.297				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4K-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	90.72	-0.4	30.2	30.2					
100.0	100.0	100.0	100.0	0.2	0.2	90.72	-0.4	30.2	30.2	29.9	0.30	99.382		
200.0	200.0	200.0	200.0	0.3	0.3	90.72	-0.4	30.2	30.2	29.5	0.65	46.237		
300.0	300.0	300.0	300.0	0.5	0.5	90.72	-0.4	30.2	30.2	29.2	1.00	30.126 CC, ES		
400.0	400.0	399.5	399.5	0.7	0.7	91.35	-0.7	31.0	31.0	29.6	1.35	22.948		
500.0	500.0	499.0	498.9	0.8	0.9	93.05	-1.8	33.3	33.4	31.7	1.70	19.666		
600.0	600.0	598.3	598.1	1.0	1.0	95.38	-3.5	37.3	37.5	35.4	2.05	18.308		
700.0	700.0	697.4	697.1	1.2	1.2	97.91	-5.9	42.8	43.3	40.9	2.40	18.046		
800.0	800.0	796.4	795.8	1.4	1.4	-42.29	-9.1	49.8	50.2	47.4	2.75	18.279		
900.0	900.0	895.2	894.2	1.6	1.7	-41.69	-12.8	58.4	57.5	54.4	3.10	18.566		
1,000.0	999.9	993.9	992.2	1.7	1.9	-41.87	-17.3	68.6	65.2	61.7	3.45	18.883		
1,100.0	1,099.7	1,092.4	1,089.9	1.9	2.2	-42.58	-22.5	80.2	73.2	69.4	3.81	19.208		
1,200.0	1,199.4	1,190.7	1,187.2	2.1	2.5	-43.40	-28.3	93.4	82.1	77.9	4.18	19.653		
1,300.0	1,299.2	1,288.7	1,283.8	2.3	2.8	-43.78	-34.7	108.0	92.7	88.1	4.55	20.373		
1,400.0	1,398.9	1,387.3	1,380.9	2.5	3.1	-43.86	-41.8	124.0	104.6	99.7	4.92	21.250		
1,500.0	1,498.6	1,486.6	1,478.5	2.7	3.4	-43.91	-49.0	140.3	116.7	111.4	5.30	22.020		
1,600.0	1,598.4	1,585.9	1,576.2	2.9	3.8	-43.95	-56.1	156.6	128.8	123.2	5.68	22.682		
1,700.0	1,698.1	1,685.1	1,673.9	3.1	4.1	-43.98	-63.3	172.8	140.9	134.9	6.06	23.255		
1,800.0	1,797.9	1,784.4	1,771.5	3.3	4.5	-44.01	-70.5	189.1	153.0	146.6	6.44	23.757		
1,900.0	1,897.6	1,883.7	1,869.2	3.5	4.8	-44.03	-77.7	205.4	165.1	158.3	6.82	24.199		
2,000.0	1,997.3	1,982.9	1,966.8	3.8	5.2	-44.05	-84.8	221.6	177.2	170.0	7.21	24.592		
2,100.0	2,097.1	2,082.2	2,064.5	4.0	5.5	-44.07	-92.0	237.9	189.3	181.8	7.59	24.943		
2,200.0	2,196.8	2,181.5	2,162.2	4.2	5.9	-44.08	-99.2	254.2	201.4	193.5	7.98	25.259		
2,300.0	2,296.6	2,280.7	2,259.8	4.4	6.2	-44.09	-106.4	270.4	213.5	205.2	8.36	25.544		
2,400.0	2,396.3	2,380.0	2,357.5	4.6	6.6	-44.11	-113.5	286.7	225.6	216.9	8.74	25.803		
2,500.0	2,496.0	2,479.3	2,455.1	4.8	6.9	-44.12	-120.7	302.9	237.7	228.6	9.13	26.039		
2,600.0	2,595.8	2,578.5	2,552.8	5.0	7.3	-44.13	-127.9	319.2	249.8	240.3	9.52	26.255		
2,700.0	2,695.5	2,677.8	2,650.5	5.2	7.6	-44.14	-135.1	335.5	261.9	252.0	9.90	26.453		
2,800.0	2,795.3	2,777.1	2,748.1	5.4	8.0	-44.14	-142.2	351.7	274.0	263.8	10.29	26.636		
2,900.0	2,895.0	2,876.3	2,845.8	5.7	8.3	-44.15	-149.4	368.0	286.1	275.5	10.68	26.805		
3,000.0	2,994.7	2,975.6	2,943.4	5.9	8.7	-44.16	-156.6	384.3	298.2	287.2	11.06	26.961		
3,100.0	3,094.5	3,074.8	3,041.1	6.1	9.0	-44.16	-163.8	400.5	310.3	298.9	11.45	27.107		
3,200.0	3,194.2	3,174.1	3,138.8	6.3	9.4	-44.17	-170.9	416.8	322.5	310.6	11.84	27.243		
3,300.0	3,294.0	3,273.4	3,236.4	6.5	9.8	-44.17	-178.1	433.1	334.6	322.3	12.22	27.369		
3,400.0	3,393.7	3,372.6	3,334.1	6.7	10.1	-44.18	-185.3	449.3	346.7	334.0	12.61	27.488		
3,500.0	3,493.4	3,471.9	3,431.7	6.9	10.5	-44.18	-192.5	465.6	358.8	345.8	13.00	27.600		
3,600.0	3,593.2	3,571.2	3,529.4	7.1	10.8	-44.19	-199.6	481.8	370.9	357.5	13.39	27.704		
3,700.0	3,692.9	3,670.4	3,627.1	7.4	11.2	-44.19	-206.8	498.1	383.0	369.2	13.77	27.803		
3,800.0	3,792.7	3,769.7	3,724.7	7.6	11.5	-44.20	-214.0	514.4	395.1	380.9	14.16	27.896		
3,900.0	3,892.4	3,869.0	3,822.4	7.8	11.9	-44.20	-221.2	530.6	407.2	392.6	14.55	27.984		
4,000.0	3,992.1	3,968.2	3,920.0	8.0	12.3	-44.20	-228.3	546.9	419.3	404.3	14.94	28.067		
4,100.0	4,091.9	4,067.5	4,017.7	8.2	12.6	-44.21	-235.5	563.2	431.4	416.0	15.33	28.146		
4,200.0	4,191.6	4,166.8	4,115.4	8.4	13.0	-44.21	-242.7	579.4	443.5	427.7	15.71	28.221		
4,300.0	4,291.4	4,266.0	4,213.0	8.6	13.3	-44.21	-249.9	595.7	455.6	439.5	16.10	28.292		
4,400.0	4,391.1	4,365.3	4,310.7	8.9	13.7	-44.21	-257.0	612.0	467.7	451.2	16.49	28.359		
4,500.0	4,490.8	4,464.6	4,408.4	9.1	14.0	-44.22	-264.2	628.2	479.8	462.9	16.88	28.424		
4,600.0	4,590.6	4,563.8	4,506.0	9.3	14.4	-44.22	-271.4	644.5	491.9	474.6	17.27	28.485		
4,700.0	4,690.3	4,663.1	4,603.7	9.5	14.8	-44.22	-278.6	660.7	504.0	486.3	17.66	28.544		
4,800.0	4,790.1	4,762.4	4,701.3	9.7	15.1	-44.22	-285.7	677.0	516.1	498.0	18.04	28.600		
4,900.0	4,889.8	4,861.6	4,799.0	9.9	15.5	-44.23	-292.9	693.3	528.2	509.7	18.43	28.654		
5,000.0	4,989.5	4,960.9	4,896.7	10.1	15.8	-44.23	-300.1	709.5	540.3	521.4	18.82	28.705		
5,100.0	5,089.3	5,060.1	4,994.3	10.4	16.2	-44.23	-307.3	725.8	552.4	533.2	19.21	28.754		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4K-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,189.0	5,159.4	5,092.0	10.6	16.6	-44.23	-314.4	742.1	564.5	544.9	19.60	28.802		
5,300.0	5,288.8	5,258.7	5,189.6	10.8	16.9	-44.23	-321.6	758.3	576.6	556.6	19.99	28.847		
5,400.0	5,388.5	5,357.9	5,287.3	11.0	17.3	-44.24	-328.8	774.6	588.7	568.3	20.38	28.891		
5,500.0	5,488.2	5,457.2	5,385.0	11.2	17.6	-44.24	-336.0	790.9	600.8	580.0	20.76	28.933		
5,600.0	5,588.0	5,556.5	5,482.6	11.4	18.0	-44.24	-343.1	807.1	612.9	591.7	21.15	28.973		
5,700.0	5,687.7	5,655.7	5,580.3	11.6	18.3	-44.24	-350.3	823.4	625.0	603.4	21.54	29.012		
5,800.0	5,787.5	5,755.0	5,677.9	11.9	18.7	-44.24	-357.5	839.6	637.1	615.1	21.93	29.049		
5,900.0	5,887.2	5,854.3	5,775.6	12.1	19.1	-44.24	-364.7	855.9	649.2	626.9	22.32	29.085		
6,000.0	5,986.9	5,953.5	5,873.3	12.3	19.4	-44.24	-371.8	872.2	661.3	638.6	22.71	29.120		
6,100.0	6,086.7	6,052.8	5,970.9	12.5	19.8	-44.25	-379.0	888.4	673.4	650.3	23.10	29.154		
6,200.0	6,186.4	6,152.1	6,068.6	12.7	20.1	-44.25	-386.2	904.7	685.5	662.0	23.49	29.186		
6,300.0	6,286.2	6,251.3	6,166.2	12.9	20.5	-44.25	-393.4	921.0	697.6	673.7	23.88	29.218		
6,400.0	6,385.9	6,350.6	6,263.9	13.1	20.9	-44.25	-400.5	937.2	709.7	685.4	24.26	29.248		
6,500.0	6,485.7	6,449.8	6,361.5	13.3	21.2	9.43	-407.7	953.5	721.9	697.3	24.68	29.250		
6,600.0	6,585.3	6,548.0	6,458.1	13.4	21.6	79.67	-414.8	969.6	735.7	710.8	24.98	29.455		
6,700.0	6,682.9	6,643.2	6,551.8	13.5	21.9	88.72	-421.7	985.2	751.8	726.8	25.08	29.972		
6,800.0	6,776.6	6,749.3	6,656.3	13.4	22.3	93.07	-426.4	1,002.6	770.7	745.7	25.02	30.801		
6,900.0	6,864.7	6,875.0	6,779.5	13.3	22.6	96.19	-413.2	1,023.1	790.2	765.4	24.85	31.802		
7,000.0	6,945.3	7,012.4	6,909.1	13.3	22.7	98.53	-374.0	1,044.7	809.1	784.4	24.68	32.784		
7,100.0	7,017.0	7,162.0	7,039.1	13.3	22.9	100.28	-303.7	1,066.3	826.1	801.5	24.62	33.556		
7,200.0	7,078.3	7,323.4	7,159.9	13.4	22.9	101.44	-199.2	1,086.4	840.0	815.2	24.82	33.846		
7,300.0	7,128.1	7,493.6	7,258.9	13.7	23.1	101.92	-62.2	1,102.9	849.6	824.2	25.44	33.392		
7,400.0	7,165.4	7,667.6	7,324.3	14.2	23.5	101.66	98.3	1,113.8	854.3	827.6	26.63	32.084		
7,500.0	7,189.3	7,839.5	7,349.7	14.9	24.2	100.70	267.7	1,118.0	853.8	825.4	28.37	30.095		
7,600.0	7,199.6	7,947.9	7,350.0	15.7	24.7	100.17	376.2	1,118.1	851.5	821.6	29.95	28.433		
7,648.8	7,200.8	7,996.7	7,350.0	16.2	25.0	100.09	425.0	1,118.1	851.2	820.4	30.87	27.570		
7,700.0	7,200.0	8,047.9	7,350.0	16.7	25.3	100.15	476.2	1,118.1	851.4	819.5	31.89	26.698		
7,800.0	7,200.0	8,147.9	7,350.0	17.8	26.1	100.15	576.2	1,118.1	851.4	817.3	34.14	24.936		
7,900.0	7,200.0	8,247.9	7,350.0	19.0	26.9	100.15	676.2	1,118.1	851.4	814.8	36.59	23.272		
8,000.0	7,200.0	8,347.9	7,350.0	20.3	27.8	100.15	776.2	1,118.1	851.4	812.2	39.18	21.731		
8,100.0	7,200.0	8,447.9	7,350.0	21.7	28.8	100.15	876.2	1,118.1	851.4	809.5	41.90	20.321		
8,200.0	7,200.0	8,547.9	7,350.0	23.1	29.9	100.15	976.2	1,118.1	851.4	806.7	44.72	19.039		
8,300.0	7,200.0	8,647.9	7,350.0	24.5	31.0	100.15	1,076.2	1,118.1	851.4	803.8	47.62	17.878		
8,400.0	7,200.0	8,747.9	7,350.0	26.0	32.2	100.15	1,176.2	1,118.1	851.4	800.8	50.60	16.828		
8,500.0	7,200.0	8,847.9	7,350.0	27.5	33.4	100.15	1,276.2	1,118.1	851.4	797.8	53.63	15.877		
8,600.0	7,200.0	8,947.9	7,350.0	29.1	34.7	100.15	1,376.2	1,118.1	851.4	794.7	56.71	15.015		
8,700.0	7,200.0	9,047.9	7,350.0	30.6	36.0	100.15	1,476.2	1,118.1	851.4	791.6	59.83	14.231		
8,800.0	7,200.0	9,147.9	7,350.0	32.2	37.4	100.15	1,576.2	1,118.1	851.4	788.4	62.98	13.518		
8,900.0	7,200.0	9,247.9	7,350.0	33.8	38.8	100.15	1,676.2	1,118.1	851.4	785.2	66.17	12.868		
9,000.0	7,200.0	9,347.9	7,350.0	35.4	40.2	100.15	1,776.2	1,118.1	851.4	782.0	69.38	12.272		
9,100.0	7,200.0	9,447.9	7,350.0	37.1	41.7	100.15	1,876.2	1,118.1	851.4	778.8	72.61	11.726		
9,200.0	7,200.0	9,547.9	7,350.0	38.7	43.1	100.15	1,976.2	1,118.1	851.4	775.6	75.86	11.223		
9,300.0	7,200.0	9,647.9	7,350.0	40.4	44.6	100.15	2,076.2	1,118.1	851.4	772.3	79.13	10.759		
9,400.0	7,200.0	9,747.9	7,350.0	42.0	46.1	100.15	2,176.2	1,118.1	851.4	769.0	82.42	10.331		
9,500.0	7,200.0	9,847.9	7,350.0	43.7	47.6	100.15	2,276.2	1,118.1	851.4	765.7	85.72	9.933		
9,600.0	7,200.0	9,947.9	7,350.0	45.4	49.2	100.15	2,376.2	1,118.1	851.4	762.4	89.03	9.564		
9,700.0	7,200.0	10,047.9	7,350.0	47.0	50.7	100.15	2,476.2	1,118.1	851.4	759.1	92.35	9.220		
9,800.0	7,200.0	10,147.9	7,350.0	48.7	52.3	100.15	2,576.2	1,118.1	851.4	755.7	95.68	8.899		
9,900.0	7,200.0	10,247.9	7,350.0	50.4	53.9	100.15	2,676.2	1,118.1	851.4	752.4	99.01	8.599		
10,000.0	7,200.0	10,347.9	7,350.0	52.1	55.5	100.15	2,776.2	1,118.1	851.4	749.1	102.36	8.318		
10,100.0	7,200.0	10,447.9	7,350.0	53.8	57.1	100.15	2,876.2	1,118.1	851.4	745.7	105.71	8.054		
10,200.0	7,200.0	10,547.9	7,350.0	55.5	58.7	100.15	2,976.2	1,118.1	851.4	742.3	109.07	7.806		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4K-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,200.0	10,647.9	7,350.0	57.2	60.3	100.15	3,076.2	1,118.1	851.4	739.0	112.44	7.572		
10,400.0	7,200.0	10,747.9	7,350.0	58.9	61.9	100.15	3,176.2	1,118.1	851.4	735.6	115.81	7.352		
10,500.0	7,200.0	10,847.9	7,350.0	60.6	63.5	100.15	3,276.2	1,118.1	851.4	732.2	119.18	7.144		
10,600.0	7,200.0	10,947.9	7,350.0	62.3	65.2	100.15	3,376.2	1,118.1	851.4	728.8	122.56	6.947		
10,700.0	7,200.0	11,047.9	7,350.0	64.0	66.8	100.15	3,476.2	1,118.1	851.4	725.5	125.94	6.760		
10,700.0	7,200.0	11,047.9	7,350.0	64.0	66.8	100.15	3,476.2	1,118.1	851.4	725.5	125.95	6.760		
10,800.0	7,200.0	11,147.9	7,350.0	65.8	68.5	100.14	3,576.2	1,118.1	852.1	723.3	128.87	6.613		
10,900.0	7,200.0	11,247.8	7,350.0	67.5	70.1	100.11	3,676.1	1,118.1	855.3	723.7	131.59	6.500		
11,000.0	7,200.0	11,347.7	7,350.0	69.2	71.8	100.06	3,775.9	1,118.1	861.0	726.7	134.23	6.414		
11,100.0	7,200.0	11,447.4	7,350.0	70.9	73.4	99.98	3,875.6	1,118.1	868.8	731.6	137.23	6.331		
11,200.0	7,200.0	11,547.0	7,350.0	72.6	75.1	99.88	3,975.3	1,118.1	877.0	736.4	140.65	6.235		
11,300.0	7,200.0	11,646.7	7,350.0	74.3	76.8	99.79	4,074.9	1,118.1	885.2	741.1	144.08	6.144		
11,400.0	7,200.0	11,746.3	7,350.0	76.0	78.4	99.70	4,174.6	1,118.1	893.4	745.9	147.52	6.056		
11,500.0	7,200.0	11,846.0	7,350.0	77.7	80.1	99.61	4,274.2	1,118.1	901.6	750.7	150.96	5.973		
11,600.0	7,200.0	11,945.6	7,350.0	79.5	81.8	99.52	4,373.9	1,118.1	909.8	755.4	154.40	5.893		
11,640.3	7,200.0	11,965.4	7,350.0	80.2	82.1	99.50	4,393.7	1,118.1	913.4	757.9	155.43	5.876 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4L-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.59	-0.4	37.7	37.7					
100.0	100.0	100.0	100.0	0.2	0.2	90.59	-0.4	37.7	37.7	37.4	0.30	124.225		
200.0	200.0	200.0	200.0	0.3	0.3	90.59	-0.4	37.7	37.7	37.1	0.65	57.794 CC, ES		
300.0	300.0	299.4	299.4	0.5	0.5	91.03	-0.7	38.5	38.5	37.5	1.00	38.511		
400.0	400.0	398.7	398.6	0.7	0.7	92.23	-1.6	41.0	41.0	39.7	1.35	30.389		
500.0	500.0	497.9	497.8	0.8	0.9	93.93	-3.1	45.0	45.1	43.4	1.70	26.571		
600.0	600.0	596.9	596.6	1.0	1.1	95.85	-5.2	50.6	51.0	48.9	2.05	24.861		
700.0	700.0	695.7	695.1	1.2	1.3	97.75	-7.9	57.8	58.5	56.1	2.41	24.332 SF		
800.0	800.0	794.2	793.2	1.4	1.5	-42.92	-11.1	66.6	67.2	64.5	2.74	24.501		
900.0	900.0	892.6	890.9	1.6	1.7	-42.54	-15.0	76.9	76.3	73.2	3.09	24.664		
1,000.0	999.9	990.8	988.3	1.7	2.0	-42.79	-19.4	88.8	85.8	82.3	3.45	24.883		
1,100.0	1,099.7	1,088.8	1,085.2	1.9	2.3	-43.47	-24.4	102.2	95.6	91.8	3.81	25.125		
1,200.0	1,199.4	1,186.5	1,181.6	2.1	2.6	-44.28	-30.0	117.1	106.4	102.3	4.17	25.498		
1,300.0	1,299.2	1,283.9	1,277.4	2.3	3.0	-44.76	-36.1	133.5	118.9	114.3	4.54	26.155		
1,400.0	1,398.9	1,380.8	1,372.5	2.5	3.3	-44.98	-42.7	151.3	132.9	128.0	4.92	27.034		
1,500.0	1,498.6	1,478.0	1,467.5	2.7	3.7	-45.01	-49.9	170.7	148.5	143.2	5.29	28.070		
1,600.0	1,598.4	1,576.8	1,563.9	2.9	4.1	-45.00	-57.3	190.6	164.5	158.9	5.67	29.013		
1,700.0	1,698.1	1,675.5	1,660.3	3.1	4.5	-45.00	-64.8	210.6	180.5	174.5	6.05	29.832		
1,800.0	1,797.9	1,774.2	1,756.7	3.3	4.9	-44.99	-72.2	230.6	196.5	190.1	6.43	30.549		
1,900.0	1,897.6	1,872.9	1,853.0	3.5	5.3	-44.99	-79.7	250.5	212.5	205.7	6.81	31.182		
2,000.0	1,997.3	1,971.6	1,949.4	3.8	5.7	-44.99	-87.1	270.5	228.5	221.3	7.20	31.744		
2,100.0	2,097.1	2,070.3	2,045.8	4.0	6.1	-44.99	-94.5	290.5	244.4	236.9	7.58	32.247		
2,200.0	2,196.8	2,169.0	2,142.2	4.2	6.5	-44.98	-102.0	310.4	260.4	252.5	7.96	32.699		
2,300.0	2,296.6	2,267.8	2,238.6	4.4	6.9	-44.98	-109.4	330.4	276.4	268.1	8.35	33.108		
2,400.0	2,396.3	2,366.5	2,335.0	4.6	7.4	-44.98	-116.8	350.4	292.4	283.6	8.73	33.479		
2,500.0	2,496.0	2,465.2	2,431.4	4.8	7.8	-44.98	-124.3	370.3	308.4	299.2	9.12	33.817		
2,600.0	2,595.8	2,563.9	2,527.8	5.0	8.2	-44.98	-131.7	390.3	324.3	314.8	9.50	34.127		
2,700.0	2,695.5	2,662.6	2,624.1	5.2	8.6	-44.98	-139.1	410.2	340.3	330.4	9.89	34.412		
2,800.0	2,795.3	2,761.3	2,720.5	5.4	9.0	-44.97	-146.6	430.2	356.3	346.0	10.28	34.674		
2,900.0	2,895.0	2,860.0	2,816.9	5.7	9.4	-44.97	-154.0	450.2	372.3	361.6	10.66	34.917		
3,000.0	2,994.7	2,958.8	2,913.3	5.9	9.8	-44.97	-161.5	470.1	388.3	377.2	11.05	35.142		
3,100.0	3,094.5	3,057.5	3,009.7	6.1	10.2	-44.97	-168.9	490.1	404.3	392.8	11.44	35.352		
3,200.0	3,194.2	3,156.2	3,106.1	6.3	10.7	-44.97	-176.3	510.1	420.2	408.4	11.82	35.547		
3,300.0	3,294.0	3,254.9	3,202.5	6.5	11.1	-44.97	-183.8	530.0	436.2	424.0	12.21	35.730		
3,400.0	3,393.7	3,353.6	3,298.9	6.7	11.5	-44.97	-191.2	550.0	452.2	439.6	12.60	35.901		
3,500.0	3,493.4	3,452.3	3,395.2	6.9	11.9	-44.97	-198.6	570.0	468.2	455.2	12.98	36.061		
3,600.0	3,593.2	3,551.0	3,491.6	7.1	12.3	-44.97	-206.1	589.9	484.2	470.8	13.37	36.212		
3,700.0	3,692.9	3,649.8	3,588.0	7.4	12.7	-44.97	-213.5	609.9	500.2	486.4	13.76	36.354		
3,800.0	3,792.7	3,748.5	3,684.4	7.6	13.1	-44.97	-220.9	629.9	516.1	502.0	14.15	36.488		
3,900.0	3,892.4	3,847.2	3,780.8	7.8	13.6	-44.97	-228.4	649.8	532.1	517.6	14.53	36.615		
4,000.0	3,992.1	3,945.9	3,877.2	8.0	14.0	-44.97	-235.8	669.8	548.1	533.2	14.92	36.735		
4,100.0	4,091.9	4,044.6	3,973.6	8.2	14.4	-44.97	-243.3	689.8	564.1	548.8	15.31	36.848		
4,200.0	4,191.6	4,143.3	4,070.0	8.4	14.8	-44.96	-250.7	709.7	580.1	564.4	15.70	36.956		
4,300.0	4,291.4	4,242.0	4,166.4	8.6	15.2	-44.96	-258.1	729.7	596.1	580.0	16.08	37.059		
4,400.0	4,391.1	4,340.8	4,262.7	8.9	15.6	-44.96	-265.6	749.7	612.0	595.6	16.47	37.156		
4,500.0	4,490.8	4,439.5	4,359.1	9.1	16.0	-44.96	-273.0	769.6	628.0	611.2	16.86	37.249		
4,600.0	4,590.6	4,538.2	4,455.5	9.3	16.5	-44.96	-280.4	789.6	644.0	626.8	17.25	37.338		
4,700.0	4,690.3	4,636.9	4,551.9	9.5	16.9	-44.96	-287.9	809.6	660.0	642.3	17.64	37.423		
4,800.0	4,790.1	4,735.6	4,648.3	9.7	17.3	-44.96	-295.3	829.5	676.0	657.9	18.02	37.504		
4,900.0	4,889.8	4,834.3	4,744.7	9.9	17.7	-44.96	-302.8	849.5	692.0	673.5	18.41	37.581		
5,000.0	4,989.5	4,933.1	4,841.1	10.1	18.1	-44.96	-310.2	869.4	707.9	689.1	18.80	37.656		
5,100.0	5,089.3	5,031.8	4,937.5	10.4	18.5	-44.96	-317.6	889.4	723.9	704.7	19.19	37.727		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4L-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,189.0	5,130.5	5,033.8	10.6	19.0	-44.96	-325.1	909.4	739.9	720.3	19.58	37.795		
5,300.0	5,288.8	5,229.2	5,130.2	10.8	19.4	-44.96	-332.5	929.3	755.9	735.9	19.96	37.860		
5,400.0	5,388.5	5,327.9	5,226.6	11.0	19.8	-44.96	-339.9	949.3	771.9	751.5	20.35	37.923		
5,500.0	5,488.2	5,426.6	5,323.0	11.2	20.2	-44.96	-347.4	969.3	787.8	767.1	20.74	37.984		
5,600.0	5,588.0	5,525.3	5,419.4	11.4	20.6	-44.96	-354.8	989.2	803.8	782.7	21.13	38.042		
5,700.0	5,687.7	5,624.1	5,515.8	11.6	21.0	-44.96	-362.2	1,009.2	819.8	798.3	21.52	38.098		
5,800.0	5,787.5	5,722.8	5,612.2	11.9	21.5	-44.96	-369.7	1,029.2	835.8	813.9	21.91	38.153		
5,900.0	5,887.2	5,821.5	5,708.6	12.1	21.9	-44.96	-377.1	1,049.1	851.8	829.5	22.30	38.205		
6,000.0	5,986.9	5,920.2	5,804.9	12.3	22.3	-44.96	-384.6	1,069.1	867.8	845.1	22.68	38.255		
6,100.0	6,086.7	6,018.9	5,901.3	12.5	22.7	-44.96	-392.0	1,089.1	883.7	860.7	23.07	38.304		
6,200.0	6,186.4	6,117.6	5,997.7	12.7	23.1	-44.96	-399.4	1,109.0	899.7	876.3	23.46	38.351		
6,300.0	6,286.2	6,216.3	6,094.1	12.9	23.5	-44.96	-406.9	1,129.0	915.7	891.9	23.85	38.396		
6,400.0	6,385.9	6,315.1	6,190.5	13.1	23.9	-44.96	-414.3	1,149.0	931.7	907.5	24.24	38.440		
6,500.0	6,485.7	6,413.7	6,286.8	13.3	24.4	8.57	-421.7	1,168.9	947.8	923.1	24.69	38.386		
6,600.0	6,585.3	6,512.6	6,383.4	13.4	24.8	78.29	-429.1	1,188.9	965.3	940.2	25.09	38.469		
6,700.0	6,682.9	6,631.0	6,499.2	13.5	25.2	86.48	-427.0	1,212.9	983.3	958.0	25.27	38.905		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 843-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	1.1	1.1	0.0	0.0	-69.20	192.0	-505.5	540.7					
100.0	100.0	101.3	101.3	0.2	0.2	-69.20	192.0	-505.4	540.7	540.4	0.33	1,649.829		
200.0	200.0	201.5	201.5	0.3	0.4	-69.17	192.2	-505.3	540.6	540.0	0.68	799.461		
300.0	300.0	301.8	301.8	0.5	0.5	-69.14	192.5	-505.1	540.5	539.5	1.02	527.468		
400.0	400.0	402.0	402.0	0.7	0.7	-69.08	192.9	-504.8	540.4	539.0	1.37	393.502		
500.0	500.0	502.2	502.2	0.8	0.9	-69.02	193.4	-504.4	540.2	538.5	1.72	313.746		
600.0	600.0	602.4	602.4	1.0	1.0	-68.94	194.1	-503.9	540.0	537.9	2.07	260.823		
700.0	700.0	702.6	702.6	1.2	1.2	-68.84	194.8	-503.3	539.7	537.3	2.42	223.135		
719.4	719.4	722.0	722.0	1.2	1.3	149.21	195.0	-503.2	539.7	537.2	2.49	217.012		
800.0	800.0	802.8	802.8	1.4	1.4	149.34	195.7	-502.7	540.2	537.4	2.77	195.162		
900.0	900.0	913.8	913.8	1.6	1.6	149.64	196.6	-501.1	541.5	538.3	3.14	172.632		
1,000.0	999.9	1,025.2	1,025.1	1.7	1.8	149.87	194.9	-497.7	541.8	538.3	3.50	154.666		
1,100.0	1,099.7	1,141.7	1,141.4	1.9	2.0	150.04	190.3	-491.6	540.7	536.8	3.88	139.379		
1,200.0	1,199.4	1,255.6	1,254.7	2.1	2.2	150.10	183.3	-483.8	538.3	534.0	4.26	126.495		
1,300.0	1,299.2	1,366.6	1,364.9	2.3	2.5	149.91	173.4	-474.4	533.3	528.6	4.63	115.174		
1,400.0	1,398.9	1,473.3	1,470.6	2.5	2.7	149.72	163.2	-464.0	526.9	521.9	5.00	105.332		
1,500.0	1,498.6	1,579.3	1,575.5	2.7	3.0	149.63	153.4	-451.8	519.0	513.6	5.38	96.539		
1,600.0	1,598.4	1,696.1	1,690.6	2.9	3.4	149.43	140.9	-436.6	509.2	503.4	5.77	88.173		
1,700.0	1,698.1	1,799.9	1,792.4	3.1	3.7	149.14	128.0	-420.8	496.5	490.4	6.15	80.675		
1,800.0	1,797.9	1,911.0	1,900.9	3.3	4.1	148.72	112.9	-402.8	482.6	476.1	6.56	73.592		
1,900.0	1,897.6	2,008.8	1,996.2	3.5	4.5	148.28	98.9	-386.0	467.5	460.6	6.94	67.360		
2,000.0	1,997.3	2,115.7	2,100.3	3.8	4.9	147.78	83.5	-367.0	451.9	444.6	7.35	61.499		
2,100.0	2,097.1	2,216.9	2,198.5	4.0	5.3	147.21	68.2	-347.9	435.0	427.3	7.75	56.100		
2,200.0	2,196.8	2,310.7	2,289.6	4.2	5.7	146.70	54.4	-330.4	418.5	410.3	8.15	51.374		
2,300.0	2,296.6	2,408.2	2,384.5	4.4	6.1	146.21	40.8	-312.6	402.6	394.1	8.55	47.104		
2,400.0	2,396.3	2,506.2	2,479.9	4.6	6.5	145.71	27.4	-294.9	387.1	378.1	8.96	43.223		
2,500.0	2,496.0	2,610.3	2,581.1	4.8	7.0	144.99	12.1	-275.6	370.8	361.4	9.40	39.447		
2,600.0	2,595.8	2,708.6	2,676.3	5.0	7.4	144.11	-3.4	-256.9	353.7	343.9	9.85	35.910		
2,700.0	2,695.5	2,802.5	2,767.6	5.2	7.8	143.20	-17.8	-240.0	338.0	327.7	10.30	32.808		
2,800.0	2,795.3	2,902.8	2,865.2	5.4	8.3	142.19	-32.9	-222.2	322.6	311.8	10.78	29.927		
2,900.0	2,895.0	3,001.5	2,961.1	5.7	8.7	141.23	-47.2	-203.9	306.6	295.4	11.26	27.232		
3,000.0	2,994.7	3,099.6	3,056.4	5.9	9.1	140.12	-61.5	-186.1	291.2	279.5	11.76	24.760		
3,100.0	3,094.5	3,197.9	3,152.0	6.1	9.5	138.92	-75.7	-168.3	275.9	263.6	12.28	22.461		
3,200.0	3,194.2	3,294.7	3,246.4	6.3	9.9	137.68	-89.3	-151.0	261.1	248.3	12.81	20.377		
3,300.0	3,294.0	3,394.0	3,343.2	6.5	10.4	136.29	-103.1	-133.7	246.9	233.5	13.38	18.454		
3,400.0	3,393.7	3,492.9	3,439.5	6.7	10.8	134.65	-117.2	-116.2	232.5	218.5	13.99	16.621		
3,500.0	3,493.4	3,591.6	3,535.7	6.9	11.2	132.84	-131.1	-98.8	218.4	203.7	14.62	14.933		
3,600.0	3,593.2	3,691.4	3,632.8	7.1	11.7	130.82	-144.9	-80.9	204.3	189.0	15.31	13.340		
3,700.0	3,692.9	3,791.5	3,730.2	7.4	12.1	128.33	-159.3	-62.4	189.8	173.8	16.07	11.809		
3,800.0	3,792.7	3,892.5	3,828.1	7.6	12.6	125.43	-173.8	-42.6	174.7	157.8	16.92	10.328		
3,900.0	3,892.4	3,988.8	3,921.5	7.8	13.0	122.02	-187.9	-23.9	160.2	142.4	17.84	8.984		
4,000.0	3,992.1	4,089.2	4,018.7	8.0	13.5	117.54	-203.2	-4.1	146.3	127.3	18.93	7.726		
4,100.0	4,091.9	4,185.2	4,111.9	8.2	13.9	112.68	-217.4	14.3	133.8	113.8	20.04	6.678		
4,200.0	4,191.6	4,284.2	4,208.2	8.4	14.4	107.19	-231.1	32.7	122.8	101.6	21.20	5.792		
4,300.0	4,291.4	4,382.6	4,304.0	8.6	14.8	101.04	-244.2	50.8	112.9	90.6	22.36	5.050		
4,400.0	4,391.1	4,479.6	4,398.9	8.9	15.2	94.89	-256.2	67.1	105.5	82.1	23.40	4.509		
4,500.0	4,490.8	4,579.0	4,496.3	9.1	15.6	88.22	-268.3	82.7	100.3	75.9	24.36	4.117		
4,600.0	4,590.6	4,677.5	4,592.9	9.3	15.9	81.18	-280.3	97.8	96.7	71.6	25.14	3.849		
4,700.0	4,690.3	4,776.6	4,690.4	9.5	16.3	74.58	-291.8	111.6	95.3	69.6	25.70	3.709		
4,772.1	4,762.3	4,848.4	4,761.0	9.7	16.6	69.61	-300.2	121.7	95.0	69.0	25.98	3.656		
4,800.0	4,790.1	4,876.1	4,788.2	9.7	16.6	67.79	-303.4	125.5	95.0	69.0	26.06	3.647		
4,900.0	4,889.8	4,975.4	4,886.1	9.9	17.0	61.87	-314.2	138.3	96.0	69.7	26.25	3.656		

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

Anticollision Report

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Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 843-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,000.0	4,989.5	5,076.3	4,985.7	10.1	17.3	56.72	-324.7	150.2	97.7	71.4	26.33	3.710		
5,100.0	5,089.3	5,177.2	5,085.6	10.4	17.6	52.27	-333.1	161.8	98.3	72.0	26.36	3.730		
5,175.8	5,164.8	5,253.5	5,161.3	10.5	17.8	49.45	-338.5	169.9	98.3	71.9	26.38	3.726		
5,200.0	5,189.0	5,277.4	5,185.0	10.6	17.9	48.63	-340.2	172.3	98.3	72.0	26.39	3.727		
5,300.0	5,288.8	5,377.0	5,283.8	10.8	18.1	45.48	-347.7	181.9	99.5	73.1	26.41	3.766		
5,400.0	5,388.5	5,477.4	5,383.6	11.0	18.4	42.80	-354.7	190.9	100.3	73.8	26.46	3.790		
5,500.0	5,488.2	5,578.0	5,483.6	11.2	18.6	40.60	-361.0	199.2	100.6	74.1	26.54	3.793		
5,600.0	5,588.0	5,678.4	5,583.6	11.4	18.9	38.63	-367.1	207.1	100.9	74.2	26.63	3.788		
5,700.0	5,687.7	5,778.7	5,683.5	11.6	19.1	36.85	-372.2	214.7	100.3	73.6	26.73	3.752		
5,800.0	5,787.5	5,879.9	5,784.3	11.9	19.3	35.43	-377.0	221.6	99.5	72.6	26.88	3.702		
5,900.0	5,887.2	5,982.0	5,886.2	12.1	19.5	34.67	-380.0	227.3	96.8	69.7	27.11	3.571		
6,000.0	5,986.9	6,081.2	5,985.2	12.3	19.6	34.75	-382.1	231.4	93.3	65.8	27.47	3.395		
6,100.0	6,086.7	6,181.7	6,085.7	12.5	19.8	35.49	-384.6	234.5	90.0	62.1	27.93	3.223		
6,200.0	6,186.4	6,282.3	6,186.2	12.7	19.9	37.43	-386.8	235.9	86.4	57.8	28.58	3.024		
6,300.0	6,286.2	6,383.3	6,287.3	12.9	20.0	40.48	-387.2	236.0	81.2	51.8	29.39	2.762		
6,400.0	6,385.9	6,483.1	6,387.1	13.1	20.1	43.96	-387.2	236.0	75.9	45.6	30.25	2.508		
6,495.5	6,481.2	6,578.5	6,482.5	13.3	20.2	98.10	-387.0	236.0	73.5	42.4	31.04	2.368		
6,500.0	6,485.7	6,583.0	6,486.9	13.3	20.2	101.90	-387.0	236.0	71.8	40.7	31.10	2.310 CC, ES, SF		
6,600.0	6,585.3	6,682.6	6,586.6	13.4	20.3	174.63	-386.8	236.0	79.5	48.2	31.32	2.539		
6,700.0	6,682.9	6,780.4	6,684.3	13.5	20.4	-176.43	-386.4	235.8	100.5	69.7	30.82	3.261		
6,800.0	6,776.6	6,873.9	6,777.9	13.4	20.5	-174.21	-386.1	235.5	134.7	105.0	29.72	4.532		
6,900.0	6,864.7	6,961.9	6,865.8	13.3	20.6	-173.54	-385.9	235.0	181.7	153.5	28.22	6.439		
7,000.0	6,945.3	7,042.7	6,946.6	13.3	20.6	-173.32	-385.8	234.6	240.4	214.0	26.41	9.103		
7,100.0	7,017.0	7,114.6	7,018.5	13.3	20.7	-173.04	-385.7	234.4	309.6	285.2	24.40	12.692		
7,200.0	7,078.3	7,176.1	7,080.1	13.4	20.8	-172.44	-385.6	234.3	388.2	365.9	22.34	17.378		
7,300.0	7,128.1	7,226.4	7,130.3	13.7	20.8	-171.17	-385.5	234.3	474.5	454.1	20.44	23.211		
7,400.0	7,165.4	7,264.3	7,168.3	14.2	20.9	-168.42	-385.4	234.4	566.9	547.9	19.09	29.705		
7,500.0	7,189.3	7,289.0	7,193.0	14.9	20.9	-161.05	-385.4	234.4	663.7	644.4	19.30	34.392		
7,600.0	7,199.6	7,299.8	7,203.8	15.7	20.9	-122.60	-385.3	234.5	762.8	734.6	28.22	27.031		
7,700.0	7,200.0	7,300.6	7,204.6	16.7	20.9	-94.38	-385.3	234.5	862.7	830.5	32.23	26.764		
7,800.0	7,200.0	7,301.0	7,205.0	17.8	20.9	-94.88	-385.3	234.5	962.6	929.2	33.37	28.845		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

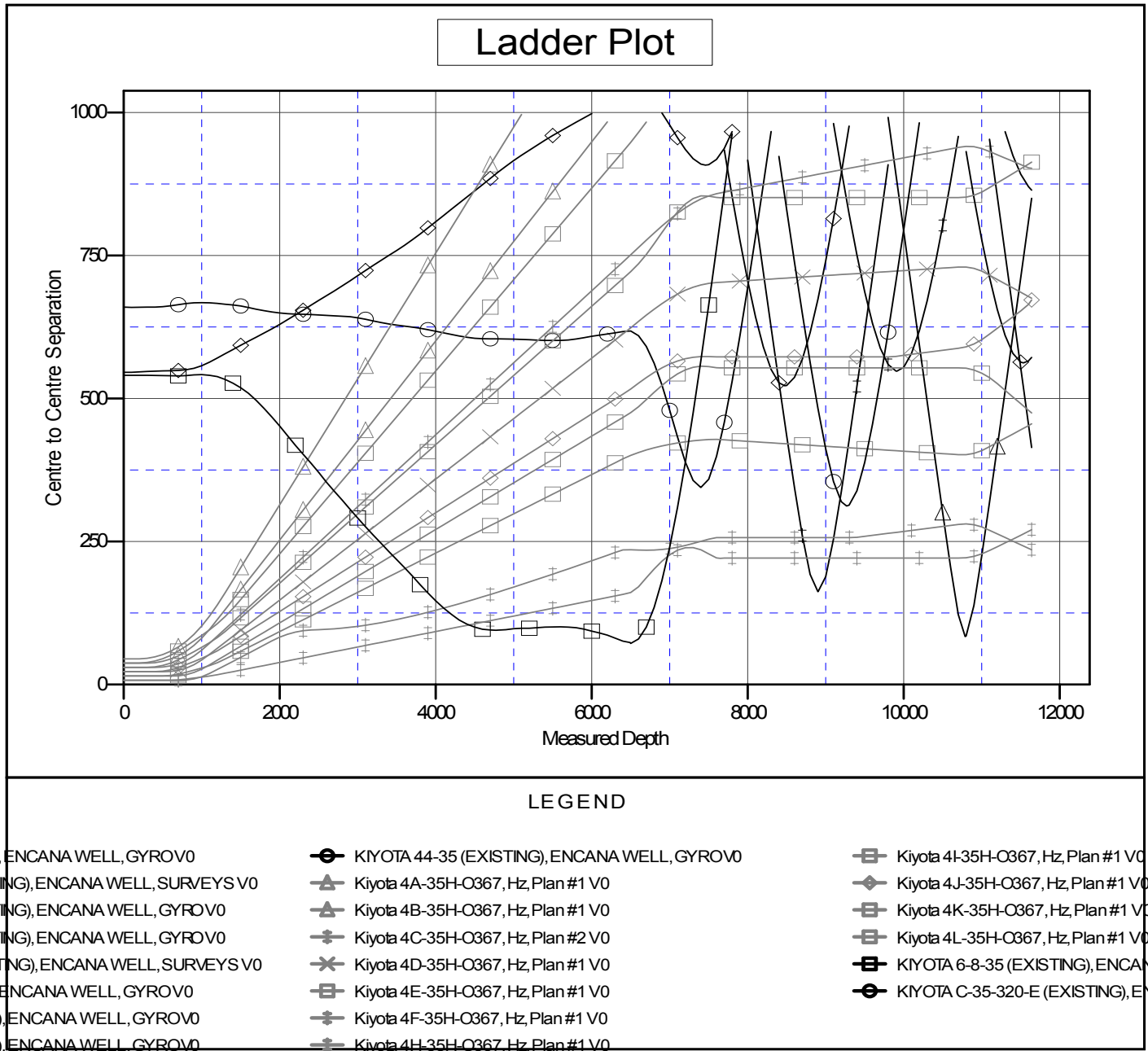
Offset Design S35-T3N-R67W (Kiyota) - KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7915-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,400.0	7,200.0	7,168.0	7,168.0	26.0	12.5	-90.00	2,045.1	-32.1	923.3	885.2	38.05	24.264		
8,500.0	7,200.0	7,168.0	7,168.0	27.5	12.5	-90.00	2,045.1	-32.1	829.9	790.3	39.59	20.959		
8,600.0	7,200.0	7,168.0	7,168.0	29.1	12.5	-90.00	2,045.1	-32.1	738.2	697.0	41.16	17.933		
8,700.0	7,200.0	7,168.0	7,168.0	30.6	12.5	-90.00	2,045.1	-32.1	648.9	606.2	42.75	15.179		
8,800.0	7,200.0	7,168.0	7,168.0	32.2	12.5	-90.00	2,045.1	-32.1	563.3	518.9	44.36	12.699		
8,900.0	7,200.0	7,168.0	7,168.0	33.8	12.5	-90.00	2,045.1	-32.1	483.2	437.3	45.98	10.510		
9,000.0	7,200.0	7,168.0	7,168.0	35.4	12.5	-90.00	2,045.1	-32.1	412.0	364.4	47.61	8.653		
9,100.0	7,200.0	7,168.0	7,168.0	37.1	12.5	-90.00	2,045.1	-32.1	354.9	305.7	49.26	7.205		
9,200.0	7,200.0	7,168.0	7,168.0	38.7	12.5	-90.00	2,045.1	-32.1	319.7	268.7	50.91	6.279		
9,268.9	7,200.0	7,168.0	7,168.0	39.9	12.5	-90.00	2,045.1	-32.1	312.1	260.1	52.06	5.996 CC, ES		
9,300.0	7,200.0	7,168.0	7,168.0	40.4	12.5	-90.00	2,045.1	-32.1	313.7	261.1	52.57	5.966 SF		
9,400.0	7,200.0	7,168.0	7,168.0	42.0	12.5	-90.00	2,045.1	-32.1	338.5	284.3	54.24	6.241		
9,500.0	7,200.0	7,168.0	7,168.0	43.7	12.5	-90.00	2,045.1	-32.1	388.4	332.4	55.92	6.945		
9,600.0	7,200.0	7,168.0	7,168.0	45.4	12.5	-90.00	2,045.1	-32.1	455.0	397.4	57.60	7.899		
9,700.0	7,200.0	7,168.0	7,168.0	47.0	12.5	-90.00	2,045.1	-32.1	532.2	472.9	59.29	8.976		
9,800.0	7,200.0	7,168.0	7,168.0	48.7	12.5	-90.00	2,045.1	-32.1	616.0	555.0	60.99	10.101		
9,900.0	7,200.0	7,168.0	7,168.0	50.4	12.5	-90.00	2,045.1	-32.1	704.1	641.4	62.68	11.232		
10,000.0	7,200.0	7,168.0	7,168.0	52.1	12.5	-90.00	2,045.1	-32.1	794.9	730.5	64.38	12.347		
10,100.0	7,200.0	7,168.0	7,168.0	53.8	12.5	-90.00	2,045.1	-32.1	887.8	821.7	66.09	13.433		
10,200.0	7,200.0	7,168.0	7,168.0	55.5	12.5	-90.00	2,045.1	-32.1	982.0	914.2	67.79	14.485		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4G-35H-O367
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Reference Site:	S35-T3N-R67W (Kiyota)	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kiyota 4G-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 13' KB @ 4848.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Kiyota 4G-35H-O367
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.42°



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