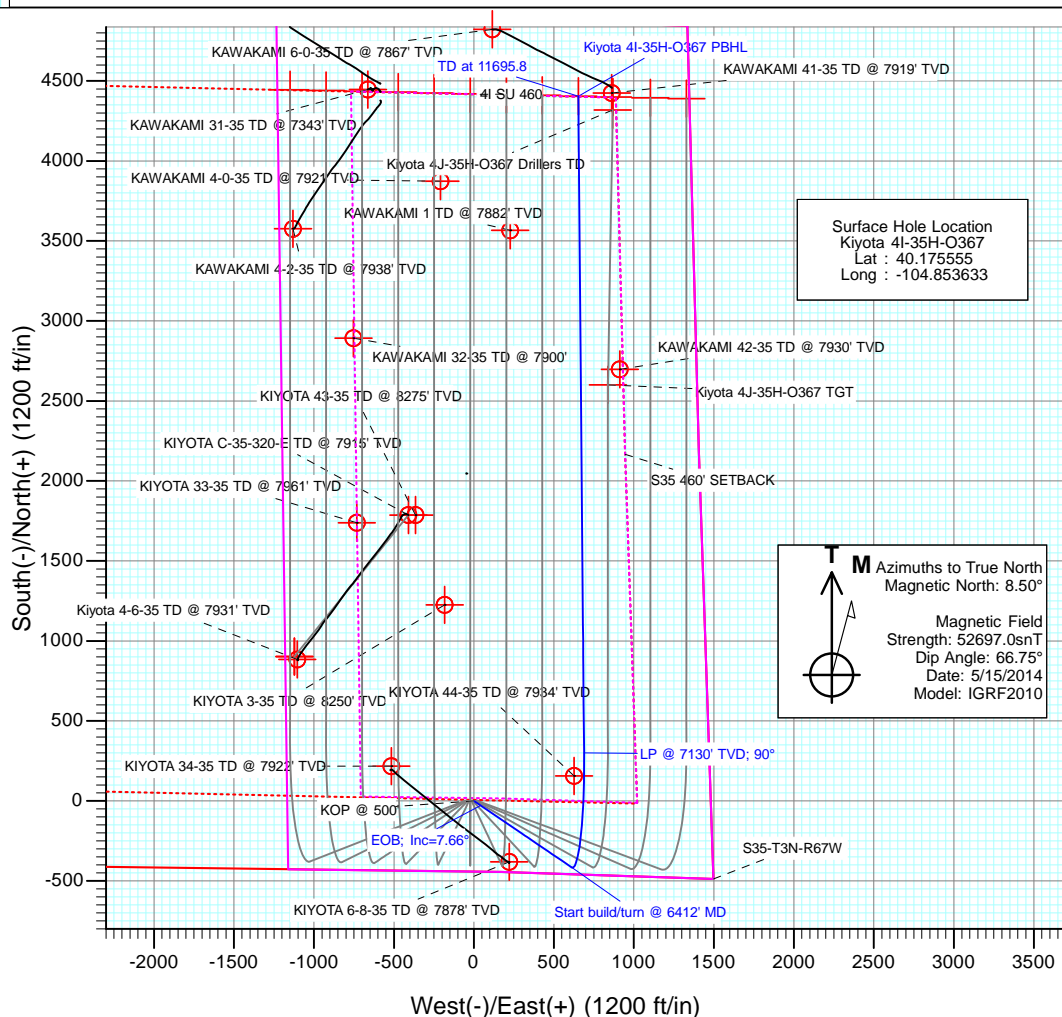


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1266.4	7.66	124.20	1264.1	-28.8	42.3	1.00	124.20	-28.8	
4	6412.4	7.66	124.20	6364.1	-414.5	610.0	0.00	0.00	-414.5	
5	7591.8	90.00	359.50	7130.0	300.4	688.5	8.00	-124.46	300.4	
6	11695.8	90.00	359.50	7130.0	4404.2	652.6	0.00	0.00	4404.2	Kiyota 4I-35H-O367 PBHL



DESIGN TARGET DETAILS					
Name	+N/-S	+E/-W	Northing	Easting	Latitude
Kiyota 4I-35H-O367 PBHL	4404.2	652.6	1311867.29	3181241.17	40.187645

Plan #1
Kiyota 4I-35H-O367
14xxx; LR
13' KB @ 4848.0ft (Original Well Elev)
Ground Elevation @ 4835.0
North American Datum 1983
Well Kiyota 4I-35H-O367, True North

FORMATION TOP DETAILS		
TVDPth	MDPth	Formation
248.0	248.0	Fox Hills - BASE
4120.0	4148.0	Sussex
4410.0	4440.6	Shannon
4710.0	4743.4	Teepee Buttes (*if present)
6985.0	7126.5	Sharon Springs
7073.0	7303.2	Niobrara
7107.0	7409.2	B Chalk

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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 4I-35H-O367					
Well Position	+N/-S	0.0 ft	Northing:	1,307,458.44 ft	Latitude:	40.175555
	+E/-W	0.0 ft	Easting:	3,180,620.65 ft	Longitude:	-104.853633
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 #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,266.4	7.66	124.20	1,264.1	-28.8	42.3	1.00	1.00	0.00	124.20	
6,412.4	7.66	124.20	6,364.1	-414.5	610.0	0.00	0.00	0.00	0.00	
7,591.8	90.00	359.50	7,130.0	300.4	688.5	8.00	6.98	-10.57	-124.46	
11,695.8	90.00	359.50	7,130.0	4,404.2	652.6	0.00	0.00	0.00	0.00	Kiyota 4I-35H-O367 F

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
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	KOP @ 500'
600.0	1.00	124.20	600.0	-0.5	0.7	-0.5	1.00	1.00	
700.0	2.00	124.20	700.0	-2.0	2.9	-2.0	1.00	1.00	
800.0	3.00	124.20	799.9	-4.4	6.5	-4.4	1.00	1.00	
900.0	4.00	124.20	899.7	-7.8	11.5	-7.8	1.00	1.00	
1,000.0	5.00	124.20	999.4	-12.3	18.0	-12.3	1.00	1.00	
1,100.0	6.00	124.20	1,098.9	-17.6	26.0	-17.6	1.00	1.00	
1,200.0	7.00	124.20	1,198.3	-24.0	35.3	-24.0	1.00	1.00	
1,266.4	7.66	124.20	1,264.1	-28.8	42.3	-28.8	1.00	1.00	EOB; Inc=7.66°
1,300.0	7.66	124.20	1,297.4	-31.3	46.0	-31.3	0.00	0.00	
1,400.0	7.66	124.20	1,396.5	-38.8	57.1	-38.8	0.00	0.00	
1,500.0	7.66	124.20	1,495.6	-46.3	68.1	-46.3	0.00	0.00	
1,600.0	7.66	124.20	1,594.7	-53.8	79.1	-53.8	0.00	0.00	
1,700.0	7.66	124.20	1,693.8	-61.3	90.2	-61.3	0.00	0.00	
1,800.0	7.66	124.20	1,793.0	-68.8	101.2	-68.8	0.00	0.00	
1,900.0	7.66	124.20	1,892.1	-76.3	112.2	-76.3	0.00	0.00	
2,000.0	7.66	124.20	1,991.2	-83.8	123.3	-83.8	0.00	0.00	
2,100.0	7.66	124.20	2,090.3	-91.3	134.3	-91.3	0.00	0.00	
2,200.0	7.66	124.20	2,189.4	-98.7	145.3	-98.7	0.00	0.00	
2,300.0	7.66	124.20	2,288.5	-106.2	156.3	-106.2	0.00	0.00	
2,400.0	7.66	124.20	2,387.6	-113.7	167.4	-113.7	0.00	0.00	
2,500.0	7.66	124.20	2,486.7	-121.2	178.4	-121.2	0.00	0.00	
2,600.0	7.66	124.20	2,585.8	-128.7	189.4	-128.7	0.00	0.00	
2,700.0	7.66	124.20	2,684.9	-136.2	200.5	-136.2	0.00	0.00	
2,800.0	7.66	124.20	2,784.0	-143.7	211.5	-143.7	0.00	0.00	
2,900.0	7.66	124.20	2,883.1	-151.2	222.5	-151.2	0.00	0.00	
3,000.0	7.66	124.20	2,982.2	-158.7	233.6	-158.7	0.00	0.00	
3,100.0	7.66	124.20	3,081.3	-166.2	244.6	-166.2	0.00	0.00	
3,200.0	7.66	124.20	3,180.4	-173.7	255.6	-173.7	0.00	0.00	
3,300.0	7.66	124.20	3,279.6	-181.2	266.6	-181.2	0.00	0.00	
3,400.0	7.66	124.20	3,378.7	-188.7	277.7	-188.7	0.00	0.00	
3,500.0	7.66	124.20	3,477.8	-196.2	288.7	-196.2	0.00	0.00	
3,600.0	7.66	124.20	3,576.9	-203.7	299.7	-203.7	0.00	0.00	
3,700.0	7.66	124.20	3,676.0	-211.2	310.8	-211.2	0.00	0.00	
3,800.0	7.66	124.20	3,775.1	-218.7	321.8	-218.7	0.00	0.00	
3,900.0	7.66	124.20	3,874.2	-226.2	332.8	-226.2	0.00	0.00	
4,000.0	7.66	124.20	3,973.3	-233.7	343.9	-233.7	0.00	0.00	
4,100.0	7.66	124.20	4,072.4	-241.2	354.9	-241.2	0.00	0.00	
4,148.0	7.66	124.20	4,120.0	-244.8	360.2	-244.8	0.00	0.00	Sussex
4,200.0	7.66	124.20	4,171.5	-248.7	365.9	-248.7	0.00	0.00	
4,300.0	7.66	124.20	4,270.6	-256.2	377.0	-256.2	0.00	0.00	
4,400.0	7.66	124.20	4,369.7	-263.7	388.0	-263.7	0.00	0.00	
4,440.6	7.66	124.20	4,410.0	-266.7	392.5	-266.7	0.00	0.00	Shannon
4,500.0	7.66	124.20	4,468.8	-271.1	399.0	-271.1	0.00	0.00	
4,600.0	7.66	124.20	4,567.9	-278.6	410.0	-278.6	0.00	0.00	
4,700.0	7.66	124.20	4,667.0	-286.1	421.1	-286.1	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,743.4	7.66	124.20	4,710.0	-289.4	425.9	-289.4	0.00	0.00	Teepee Buttes (*if present)
4,800.0	7.66	124.20	4,766.2	-293.6	432.1	-293.6	0.00	0.00	
4,900.0	7.66	124.20	4,865.3	-301.1	443.1	-301.1	0.00	0.00	
5,000.0	7.66	124.20	4,964.4	-308.6	454.2	-308.6	0.00	0.00	
5,100.0	7.66	124.20	5,063.5	-316.1	465.2	-316.1	0.00	0.00	
5,200.0	7.66	124.20	5,162.6	-323.6	476.2	-323.6	0.00	0.00	
5,300.0	7.66	124.20	5,261.7	-331.1	487.3	-331.1	0.00	0.00	
5,400.0	7.66	124.20	5,360.8	-338.6	498.3	-338.6	0.00	0.00	
5,500.0	7.66	124.20	5,459.9	-346.1	509.3	-346.1	0.00	0.00	
5,600.0	7.66	124.20	5,559.0	-353.6	520.3	-353.6	0.00	0.00	
5,700.0	7.66	124.20	5,658.1	-361.1	531.4	-361.1	0.00	0.00	Start build/turn @ 6412' MD
5,800.0	7.66	124.20	5,757.2	-368.6	542.4	-368.6	0.00	0.00	
5,900.0	7.66	124.20	5,856.3	-376.1	553.4	-376.1	0.00	0.00	
6,000.0	7.66	124.20	5,955.4	-383.6	564.5	-383.6	0.00	0.00	
6,100.0	7.66	124.20	6,054.5	-391.1	575.5	-391.1	0.00	0.00	
6,200.0	7.66	124.20	6,153.6	-398.6	586.5	-398.6	0.00	0.00	
6,300.0	7.66	124.20	6,252.8	-406.1	597.6	-406.1	0.00	0.00	
6,400.0	7.66	124.20	6,351.9	-413.6	608.6	-413.6	0.00	0.00	
6,412.4	7.66	124.20	6,364.1	-414.5	610.0	-414.5	0.00	0.00	
6,500.0	6.85	66.62	6,451.2	-415.7	619.6	-415.7	8.00	-0.93	Sharon Springs
6,600.0	12.37	29.80	6,549.8	-404.0	630.4	-404.0	8.00	5.52	
6,700.0	19.66	17.54	6,645.9	-378.7	640.8	-378.7	8.00	7.29	
6,800.0	27.34	11.86	6,737.5	-340.1	650.6	-340.1	8.00	7.68	
6,900.0	35.16	8.54	6,823.0	-289.0	659.6	-289.0	8.00	7.82	
7,000.0	43.03	6.31	6,900.5	-226.6	667.7	-226.6	8.00	7.88	
7,100.0	50.94	4.65	6,968.7	-153.8	674.6	-153.8	8.00	7.91	
7,126.5	53.04	4.27	6,985.0	-133.0	676.2	-133.0	8.00	7.92	
7,200.0	58.87	3.33	7,026.1	-72.3	680.2	-72.3	8.00	7.93	
7,300.0	66.81	2.22	7,071.7	16.5	684.5	16.5	8.00	7.94	Niobrara
7,303.2	67.06	2.18	7,073.0	19.5	684.6	19.5	8.00	7.94	
7,400.0	74.75	1.23	7,104.6	110.8	687.3	110.8	8.00	7.95	
7,409.2	75.49	1.14	7,107.0	119.8	687.5	119.8	8.00	7.95	
7,500.0	82.70	0.31	7,124.2	208.8	688.6	208.8	8.00	7.95	
7,591.8	90.00	359.50	7,130.0	300.4	688.5	300.4	8.00	7.95	LP @ 7130' TVD; 90°
7,600.0	90.00	359.50	7,130.0	308.6	688.4	308.6	0.00	0.00	
7,700.0	90.00	359.50	7,130.0	408.6	687.5	408.6	0.00	0.00	
7,800.0	90.00	359.50	7,130.0	508.6	686.6	508.6	0.00	0.00	
7,900.0	90.00	359.50	7,130.0	608.5	685.8	608.5	0.00	0.00	
8,000.0	90.00	359.50	7,130.0	708.5	684.9	708.5	0.00	0.00	
8,100.0	90.00	359.50	7,130.0	808.5	684.0	808.5	0.00	0.00	
8,200.0	90.00	359.50	7,130.0	908.5	683.1	908.5	0.00	0.00	
8,300.0	90.00	359.50	7,130.0	1,008.5	682.3	1,008.5	0.00	0.00	
8,400.0	90.00	359.50	7,130.0	1,108.5	681.4	1,108.5	0.00	0.00	
8,500.0	90.00	359.50	7,130.0	1,208.5	680.5	1,208.5	0.00	0.00	B Chalk
8,600.0	90.00	359.50	7,130.0	1,308.5	679.7	1,308.5	0.00	0.00	
8,700.0	90.00	359.50	7,130.0	1,408.5	678.8	1,408.5	0.00	0.00	
8,800.0	90.00	359.50	7,130.0	1,508.5	677.9	1,508.5	0.00	0.00	
8,900.0	90.00	359.50	7,130.0	1,608.5	677.0	1,608.5	0.00	0.00	
9,000.0	90.00	359.50	7,130.0	1,708.5	676.2	1,708.5	0.00	0.00	
9,100.0	90.00	359.50	7,130.0	1,808.5	675.3	1,808.5	0.00	0.00	
9,200.0	90.00	359.50	7,130.0	1,908.5	674.4	1,908.5	0.00	0.00	
9,300.0	90.00	359.50	7,130.0	2,008.5	673.5	2,008.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,400.0	90.00	359.50	7,130.0	2,108.5	672.7	2,108.5	0.00	0.00	
9,500.0	90.00	359.50	7,130.0	2,208.5	671.8	2,208.5	0.00	0.00	
9,600.0	90.00	359.50	7,130.0	2,308.5	670.9	2,308.5	0.00	0.00	
9,700.0	90.00	359.50	7,130.0	2,408.5	670.1	2,408.5	0.00	0.00	
9,800.0	90.00	359.50	7,130.0	2,508.5	669.2	2,508.5	0.00	0.00	
9,900.0	90.00	359.50	7,130.0	2,608.5	668.3	2,608.5	0.00	0.00	
10,000.0	90.00	359.50	7,130.0	2,708.5	667.4	2,708.5	0.00	0.00	
10,100.0	90.00	359.50	7,130.0	2,808.5	666.6	2,808.5	0.00	0.00	
10,200.0	90.00	359.50	7,130.0	2,908.5	665.7	2,908.5	0.00	0.00	
10,300.0	90.00	359.50	7,130.0	3,008.5	664.8	3,008.5	0.00	0.00	
10,400.0	90.00	359.50	7,130.0	3,108.5	663.9	3,108.5	0.00	0.00	
10,500.0	90.00	359.50	7,130.0	3,208.4	663.1	3,208.4	0.00	0.00	
10,600.0	90.00	359.50	7,130.0	3,308.4	662.2	3,308.4	0.00	0.00	
10,700.0	90.00	359.50	7,130.0	3,408.4	661.3	3,408.4	0.00	0.00	
10,800.0	90.00	359.50	7,130.0	3,508.4	660.5	3,508.4	0.00	0.00	
10,900.0	90.00	359.50	7,130.0	3,608.4	659.6	3,608.4	0.00	0.00	
11,000.0	90.00	359.50	7,130.0	3,708.4	658.7	3,708.4	0.00	0.00	
11,100.0	90.00	359.50	7,130.0	3,808.4	657.8	3,808.4	0.00	0.00	
11,200.0	90.00	359.50	7,130.0	3,908.4	657.0	3,908.4	0.00	0.00	
11,300.0	90.00	359.50	7,130.0	4,008.4	656.1	4,008.4	0.00	0.00	
11,400.0	90.00	359.50	7,130.0	4,108.4	655.2	4,108.4	0.00	0.00	
11,500.0	90.00	359.50	7,130.0	4,208.4	654.3	4,208.4	0.00	0.00	
11,600.0	90.00	359.50	7,130.0	4,308.4	653.5	4,308.4	0.00	0.00	
11,695.8	90.00	359.50	7,130.0	4,404.2	652.6	4,404.2	0.00	0.00	TD at 11695.8

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 4I-35H-O367 PBt - plan hits target center - Point	0.00	0.00	7,130.0	4,404.2	652.6	1,311,867.29	3,181,241.17	40.187645	-104.851297

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
248.0	248.0	Fox Hills - BASE			
4,148.0	4,120.0	Sussex			
4,440.6	4,410.0	Shannon			
4,743.4	4,710.0	Teepee Buttes (*if present)			
7,126.5	6,985.0	Sharon Springs			
7,303.2	7,073.0	Niobrara			
7,409.2	7,107.0	B Chalk			

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
1,266.4	1,264.1	-28.8	42.3	EOB; Inc=7.66°
6,412.4	6,364.1	-414.5	610.0	Start build/turn @ 6412' MD
7,591.8	7,130.0	300.4	688.5	LP @ 7130' TVD; 90°
11,695.8	7,130.0	4,404.2	652.6	TD at 11695.8

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S35-T3N-R67W (Kiyota)

Kiyota 4I-35H-O367

Hz

Plan #1

Anticollision Report

16 May, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
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	5/16/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,691.3	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S35-T3N-R67W (Kiyota)						
KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURV	10,861.0	7,102.0	433.4	355.6	5.571	CC, ES
KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURV	10,900.0	7,102.0	435.1	356.7	5.546	SF
KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURV						Out of range
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - NO S						Out of range
KAWAKAMI 4-0-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - NO S	11,695.8	7,093.0	209.7	117.5	2.274	CC, ES, SF
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO S	9,986.9	7,092.0	243.9	181.1	3.883	CC, ES
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO S	10,000.0	7,092.0	244.2	181.2	3.875	SF
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SUR	11,695.8	7,170.3	671.7	577.8	7.154	CC, ES, SF
KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURV						Out of range
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,524.1	7,106.0	863.4	824.6	22.266	CC, ES
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,800.0	7,106.0	906.4	863.3	21.024	SF
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	500.0	486.0	559.8	558.1	329.595	CC, ES
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	4,200.0	4,157.5	997.3	982.7	68.389	SF
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV						Out of range
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	7,445.9	7,090.3	62.4	36.7	2.425	CC, ES, SF
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - Plan #2						Out of range
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Kiyota 4A-35H-O367 - Hz - Plan #1	200.0	200.0	60.1	59.4	92.040	CC, ES
Kiyota 4A-35H-O367 - Hz - Plan #1	700.0	693.7	83.2	80.8	34.743	SF
Kiyota 4B-35H-O367 - Hz - Plan #1	300.0	300.0	52.5	51.5	52.439	CC, ES
Kiyota 4B-35H-O367 - Hz - Plan #1	700.0	696.0	67.9	65.5	28.329	SF
Kiyota 4C-35H-O367 - Hz - Plan #1	400.0	400.0	45.0	43.6	33.304	CC, ES
Kiyota 4C-35H-O367 - Hz - Plan #1	700.0	697.7	54.4	52.0	22.672	SF
Kiyota 4D-35H-O367 - Hz - Plan #1	500.0	500.0	37.4	35.7	22.027	CC, ES
Kiyota 4D-35H-O367 - Hz - Plan #1	700.0	699.0	42.8	40.4	17.828	SF
Kiyota 4E-35H-O367 - Hz - Plan #1	500.0	500.0	29.9	28.2	17.589	CC, ES
Kiyota 4E-35H-O367 - Hz - Plan #1	11,695.8	11,862.6	927.2	771.7	5.962	SF
Kiyota 4F-35H-O367 - Hz - Plan #1	500.0	500.0	22.4	20.7	13.152	CC, ES
Kiyota 4F-35H-O367 - Hz - Plan #1	11,695.8	11,647.8	675.5	515.9	4.231	SF
Kiyota 4G-35H-O367 - Hz - Plan #1	500.0	500.0	15.1	13.4	8.879	CC, ES
Kiyota 4G-35H-O367 - Hz - Plan #1	11,695.8	11,722.1	455.8	297.8	2.886	SF
Kiyota 4H-35H-O367 - Hz - Plan #1	500.0	500.0	7.5	5.8	4.438	CC, ES
Kiyota 4H-35H-O367 - Hz - Plan #1	11,695.8	11,887.6	314.8	197.6	2.685	SF
Kiyota 4J-35H-O367 - Hz - Plan #1	400.0	400.0	7.5	6.2	5.585	CC, ES
Kiyota 4J-35H-O367 - Hz - Plan #1	11,600.0	11,681.2	225.3	76.5	1.514	SF
Kiyota 4K-35H-O367 - Hz - Plan #1	300.0	300.0	15.1	14.1	15.062	CC, ES
Kiyota 4K-35H-O367 - Hz - Plan #1	11,695.8	11,965.4	501.3	357.3	3.481	SF
Kiyota 4L-35H-O367 - Hz - Plan #1	200.0	200.0	22.6	22.0	34.675	CC, ES
Kiyota 4L-35H-O367 - Hz - Plan #1	11,695.8	11,786.9	676.0	516.7	4.244	SF
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	5,072.0	5,162.1	319.3	295.3	13.298	CC
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	5,100.0	5,189.4	319.4	295.3	13.232	ES
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	5,700.0	5,778.2	332.9	306.5	12.603	SF
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,343.2	7,098.0	720.4	668.4	13.858	CC, ES
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,500.0	7,098.0	737.3	682.7	13.503	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design		S35-T3N-R67W (Kiyota) - KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURVEYS										Offset Site Error:		0.0 ft	
Survey Program:		7882-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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
10,000.0	7,130.0	7,102.0	7,102.0	52.1	12.4	-90.00	3,565.6	226.6	963.9	900.8	63.05	15.288			
10,100.0	7,130.0	7,102.0	7,102.0	53.7	12.4	-90.00	3,565.6	226.6	875.7	810.9	64.75	13.525			
10,200.0	7,130.0	7,102.0	7,102.0	55.4	12.4	-90.00	3,565.6	226.6	790.4	723.9	66.45	11.894			
10,300.0	7,130.0	7,102.0	7,102.0	57.1	12.4	-90.00	3,565.6	226.6	708.8	640.7	68.16	10.400			
10,400.0	7,130.0	7,102.0	7,102.0	58.7	12.4	-90.00	3,565.6	226.6	632.7	562.8	69.87	9.055			
10,500.0	7,130.0	7,102.0	7,102.0	60.4	12.4	-90.00	3,565.6	226.6	564.0	492.4	71.58	7.879			
10,600.0	7,130.0	7,102.0	7,102.0	62.1	12.4	-90.00	3,565.6	226.6	505.9	432.6	73.30	6.902			
10,700.0	7,130.0	7,102.0	7,102.0	63.8	12.4	-90.00	3,565.6	226.6	462.3	387.3	75.01	6.163			
10,800.0	7,130.0	7,102.0	7,102.0	65.5	12.4	-90.00	3,565.6	226.6	437.6	360.9	76.73	5.703			
10,861.0	7,130.0	7,102.0	7,102.0	66.5	12.4	-90.00	3,565.6	226.6	433.4	355.6	77.78	5.571 CC, ES			
10,900.0	7,130.0	7,102.0	7,102.0	67.2	12.4	-90.00	3,565.6	226.6	435.1	356.7	78.45	5.546 SF			
11,000.0	7,130.0	7,102.0	7,102.0	68.9	12.4	-90.00	3,565.6	226.6	455.1	374.9	80.18	5.676			
11,100.0	7,130.0	7,102.0	7,102.0	70.6	12.4	-90.00	3,565.6	226.6	494.9	413.0	81.90	6.043			
11,200.0	7,130.0	7,102.0	7,102.0	72.3	12.4	-90.00	3,565.6	226.6	550.2	466.6	83.63	6.580			
11,300.0	7,130.0	7,102.0	7,102.0	74.0	12.4	-90.00	3,565.6	226.6	616.9	531.5	85.35	7.228			
11,400.0	7,130.0	7,102.0	7,102.0	75.7	12.4	-90.00	3,565.6	226.6	691.6	604.6	87.08	7.942			
11,500.0	7,130.0	7,102.0	7,102.0	77.4	12.4	-90.00	3,565.6	226.6	772.1	683.3	88.81	8.694			
11,600.0	7,130.0	7,102.0	7,102.0	79.1	12.4	-90.00	3,565.6	226.6	856.7	766.2	90.54	9.462			
11,695.8	7,130.0	7,102.0	7,102.0	80.7	12.4	-90.00	3,565.6	226.6	940.6	848.4	92.20	10.202			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7919-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	7,130.0	7,093.0	7,093.0	65.5	12.4	90.00	4,424.2	861.3	937.6	860.9	76.72	12.221		
10,900.0	7,130.0	7,093.0	7,093.0	67.2	12.4	90.00	4,424.2	861.3	840.4	761.9	78.44	10.714		
11,000.0	7,130.0	7,093.0	7,093.0	68.9	12.4	90.00	4,424.2	861.3	743.9	663.8	80.16	9.281		
11,100.0	7,130.0	7,093.0	7,093.0	70.6	12.4	90.00	4,424.2	861.3	648.6	566.7	81.88	7.920		
11,200.0	7,130.0	7,093.0	7,093.0	72.3	12.4	90.00	4,424.2	861.3	554.8	471.2	83.61	6.636		
11,300.0	7,130.0	7,093.0	7,093.0	74.0	12.4	90.00	4,424.2	861.3	463.7	378.4	85.34	5.434		
11,400.0	7,130.0	7,093.0	7,093.0	75.7	12.4	90.00	4,424.2	861.3	377.1	290.1	87.07	4.332		
11,500.0	7,130.0	7,093.0	7,093.0	77.4	12.4	90.00	4,424.2	861.3	299.0	210.2	88.80	3.368		
11,600.0	7,130.0	7,093.0	7,093.0	79.1	12.4	90.00	4,424.2	861.3	238.0	147.4	90.53	2.629		
11,695.8	7,130.0	7,093.0	7,093.0	80.7	12.4	90.00	4,424.2	861.3	209.7	117.5	92.19	2.274	CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO SURVEYS												Offset Site Error: 0.0 ft	
Survey Program: 7930-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	
9,100.0	7,130.0	7,092.0	7,092.0	37.6	12.4	90.00	2,697.5	911.4	919.9	871.9	47.95	19.182	
9,200.0	7,130.0	7,092.0	7,092.0	39.2	12.4	90.00	2,697.5	911.4	823.9	774.3	49.60	16.610	
9,300.0	7,130.0	7,092.0	7,092.0	40.7	12.4	90.00	2,697.5	911.4	728.9	677.7	51.25	14.222	
9,400.0	7,130.0	7,092.0	7,092.0	42.3	12.4	90.00	2,697.5	911.4	635.6	582.7	52.92	12.011	
9,500.0	7,130.0	7,092.0	7,092.0	43.9	12.4	90.00	2,697.5	911.4	544.6	490.0	54.59	9.976	
9,600.0	7,130.0	7,092.0	7,092.0	45.5	12.4	90.00	2,697.5	911.4	457.4	401.1	56.27	8.129	
9,700.0	7,130.0	7,092.0	7,092.0	47.2	12.4	90.00	2,697.5	911.4	376.6	318.6	57.95	6.498	
9,800.0	7,130.0	7,092.0	7,092.0	48.8	12.4	90.00	2,697.5	911.4	307.3	247.6	59.64	5.152	
9,900.0	7,130.0	7,092.0	7,092.0	50.4	12.4	90.00	2,697.5	911.4	258.9	197.6	61.33	4.221	
9,986.9	7,130.0	7,092.0	7,092.0	51.9	12.4	90.00	2,697.5	911.4	243.9	181.1	62.81	3.883 CC, ES	
10,000.0	7,130.0	7,092.0	7,092.0	52.1	12.4	90.00	2,697.5	911.4	244.2	181.2	63.03	3.875 SF	
10,100.0	7,130.0	7,092.0	7,092.0	53.7	12.4	90.00	2,697.5	911.4	268.8	204.1	64.73	4.153	
10,200.0	7,130.0	7,092.0	7,092.0	55.4	12.4	90.00	2,697.5	911.4	323.8	257.4	66.43	4.875	
10,300.0	7,130.0	7,092.0	7,092.0	57.1	12.4	90.00	2,697.5	911.4	396.8	328.7	68.14	5.824	
10,400.0	7,130.0	7,092.0	7,092.0	58.7	12.4	90.00	2,697.5	911.4	479.7	409.8	69.85	6.867	
10,500.0	7,130.0	7,092.0	7,092.0	60.4	12.4	90.00	2,697.5	911.4	568.1	496.5	71.56	7.938	
10,600.0	7,130.0	7,092.0	7,092.0	62.1	12.4	90.00	2,697.5	911.4	659.8	586.5	73.28	9.004	
10,700.0	7,130.0	7,092.0	7,092.0	63.8	12.4	90.00	2,697.5	911.4	753.6	678.6	75.00	10.049	
10,800.0	7,130.0	7,092.0	7,092.0	65.5	12.4	90.00	2,697.5	911.4	848.8	772.1	76.72	11.065	
10,900.0	7,130.0	7,092.0	7,092.0	67.2	12.4	90.00	2,697.5	911.4	945.1	866.6	78.44	12.049	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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						
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	7,130.0	7,173.2	7,107.9	74.0	19.2	-89.62	4,822.1	126.8	970.7	883.7	87.05	11.152	
11,400.0	7,130.0	7,172.5	7,107.1	75.7	19.2	-89.53	4,822.1	126.8	888.1	799.3	88.77	10.004	
11,500.0	7,130.0	7,171.7	7,106.4	77.4	19.2	-89.45	4,822.1	126.8	809.3	718.8	90.50	8.943	
11,600.0	7,130.0	7,171.0	7,105.6	79.1	19.2	-89.37	4,822.1	126.8	735.8	643.5	92.23	7.977	
11,695.8	7,130.0	7,170.3	7,104.9	80.7	19.2	-89.29	4,822.1	126.8	671.7	577.8	93.89	7.154	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8250-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		
8,100.0	7,130.0	7,106.0	7,106.0	23.5	12.4	-90.00	1,225.1	-183.0	961.9	929.4	32.55	29.550		
8,200.0	7,130.0	7,106.0	7,106.0	24.7	12.4	-90.00	1,225.1	-183.0	922.2	888.2	33.95	27.164		
8,300.0	7,130.0	7,106.0	7,106.0	26.0	12.4	-90.00	1,225.1	-183.0	892.0	856.6	35.40	25.200		
8,400.0	7,130.0	7,106.0	7,106.0	27.3	12.4	-90.00	1,225.1	-183.0	872.2	835.4	36.88	23.649		
8,500.0	7,130.0	7,106.0	7,106.0	28.7	12.4	-90.00	1,225.1	-183.0	863.7	825.3	38.40	22.491		
8,524.1	7,130.0	7,106.0	7,106.0	29.0	12.4	-90.00	1,225.1	-183.0	863.4	824.6	38.78	22.266	CC, ES	
8,600.0	7,130.0	7,106.0	7,106.0	30.1	12.4	-90.00	1,225.1	-183.0	866.7	826.7	39.95	21.694		
8,700.0	7,130.0	7,106.0	7,106.0	31.6	12.4	-90.00	1,225.1	-183.0	881.1	839.6	41.52	21.220		
8,800.0	7,130.0	7,106.0	7,106.0	33.0	12.4	-90.00	1,225.1	-183.0	906.4	863.3	43.11	21.024	SF	
8,900.0	7,130.0	7,106.0	7,106.0	34.5	12.4	-90.00	1,225.1	-183.0	941.7	896.9	44.72	21.056		
9,000.0	7,130.0	7,106.0	7,106.0	36.1	12.4	-90.00	1,225.1	-183.0	985.8	939.5	46.34	21.273		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7922-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-67.22	216.8	-516.1	560.0					
100.0	100.0	86.0	86.0	0.2	0.2	-67.22	216.8	-516.1	559.8	559.5	0.30	1,852.815		
200.0	200.0	186.0	186.0	0.3	0.3	-67.22	216.8	-516.1	559.8	559.1	0.65	859.628		
300.0	300.0	286.0	286.0	0.5	0.5	-67.22	216.8	-516.1	559.8	558.8	1.00	559.638		
400.0	400.0	386.0	386.0	0.7	0.7	-67.22	216.8	-516.1	559.8	558.4	1.35	414.862		
500.0	500.0	486.0	486.0	0.8	0.8	-67.22	216.8	-516.1	559.8	558.1	1.70	329.595 CC, ES		
600.0	600.0	586.0	586.0	1.0	1.0	168.60	216.8	-516.1	560.6	558.6	2.05	273.846		
700.0	700.0	685.9	685.9	1.2	1.2	168.65	216.8	-516.1	563.2	560.8	2.40	235.085		
800.0	799.9	785.9	785.9	1.4	1.4	168.73	216.8	-516.1	567.5	564.7	2.74	206.825		
900.0	899.7	885.7	885.7	1.6	1.5	168.83	216.8	-516.1	573.5	570.4	3.09	185.512		
1,000.0	999.4	985.4	985.4	1.8	1.7	168.97	216.8	-516.1	581.2	577.7	3.44	169.032		
1,100.0	1,098.9	1,084.9	1,084.9	2.0	1.9	169.13	216.8	-516.1	590.6	586.8	3.78	156.052		
1,200.0	1,198.3	1,184.3	1,184.3	2.2	2.1	169.31	216.8	-516.1	601.7	597.6	4.13	145.689		
1,300.0	1,297.4	1,283.4	1,283.4	2.5	2.2	169.52	216.8	-516.1	614.4	610.0	4.48	137.259		
1,400.0	1,396.5	1,382.5	1,382.5	2.8	2.4	169.74	216.8	-516.1	627.6	622.7	4.83	130.027		
1,500.0	1,495.6	1,481.6	1,481.6	3.0	2.6	169.95	216.8	-516.1	640.7	635.5	5.18	123.776		
1,600.0	1,594.7	1,580.7	1,580.7	3.3	2.8	170.16	216.8	-516.1	653.8	648.3	5.53	118.319		
1,700.0	1,693.8	1,679.8	1,679.8	3.6	2.9	170.35	216.8	-516.1	667.0	661.1	5.88	113.515		
1,800.0	1,793.0	1,778.9	1,778.9	3.9	3.1	170.54	216.8	-516.1	680.1	673.9	6.23	109.254		
1,900.0	1,892.1	1,878.0	1,878.0	4.1	3.3	170.72	216.8	-516.1	693.3	686.7	6.57	105.449		
2,000.0	1,991.2	1,977.2	1,977.2	4.4	3.5	170.90	216.8	-516.1	706.5	699.5	6.92	102.031		
2,100.0	2,090.3	2,076.3	2,076.3	4.7	3.6	171.06	216.8	-516.1	719.6	712.4	7.27	98.944		
2,200.0	2,189.4	2,175.4	2,175.4	5.0	3.8	171.23	216.8	-516.1	732.8	725.2	7.62	96.142		
2,300.0	2,288.5	2,274.5	2,274.5	5.3	4.0	171.38	216.8	-516.1	746.0	738.0	7.97	93.588		
2,400.0	2,387.6	2,373.6	2,373.6	5.5	4.1	171.53	216.8	-516.1	759.2	750.9	8.32	91.250		
2,500.0	2,486.7	2,472.7	2,472.7	5.8	4.3	171.68	216.8	-516.1	772.4	763.7	8.67	89.102		
2,600.0	2,585.8	2,571.8	2,571.8	6.1	4.5	171.82	216.8	-516.1	785.6	776.6	9.02	87.122		
2,700.0	2,684.9	2,670.9	2,670.9	6.4	4.7	171.96	216.8	-516.1	798.8	789.4	9.37	85.291		
2,800.0	2,784.0	2,770.0	2,770.0	6.7	4.8	172.09	216.8	-516.1	812.0	802.3	9.71	83.592		
2,900.0	2,883.1	2,869.1	2,869.1	7.0	5.0	172.22	216.8	-516.1	825.2	815.2	10.06	82.012		
3,000.0	2,982.2	2,968.2	2,968.2	7.3	5.2	172.34	216.8	-516.1	838.4	828.0	10.41	80.539		
3,100.0	3,081.3	3,067.3	3,067.3	7.6	5.4	172.46	216.8	-516.1	851.7	840.9	10.76	79.162		
3,200.0	3,180.4	3,166.4	3,166.4	7.8	5.5	172.57	216.8	-516.1	864.9	853.8	11.11	77.873		
3,300.0	3,279.6	3,265.5	3,265.5	8.1	5.7	172.69	216.8	-516.1	878.1	866.7	11.45	76.662		
3,400.0	3,378.7	3,364.6	3,364.6	8.4	5.9	172.80	216.8	-516.1	891.3	879.5	11.80	75.524		
3,500.0	3,477.8	3,463.8	3,463.8	8.7	6.0	172.90	216.8	-516.1	904.6	892.4	12.15	74.452		
3,600.0	3,576.9	3,562.9	3,562.9	9.0	6.2	173.00	216.8	-516.1	917.8	905.3	12.50	73.439		
3,700.0	3,676.0	3,662.0	3,662.0	9.3	6.4	173.10	216.8	-516.1	931.1	918.2	12.85	72.483		
3,800.0	3,775.1	3,761.1	3,761.1	9.6	6.6	173.20	216.8	-516.1	944.3	931.1	13.19	71.577		
3,900.0	3,874.2	3,860.2	3,860.2	9.9	6.7	173.30	216.8	-516.1	957.5	944.0	13.54	70.718		
4,000.0	3,973.3	3,959.3	3,959.3	10.2	6.9	173.39	216.8	-516.1	970.8	956.9	13.89	69.902		
4,100.0	4,072.4	4,058.4	4,058.4	10.5	7.1	173.48	216.8	-516.1	984.0	969.8	14.24	69.127		
4,200.0	4,171.5	4,157.5	4,157.5	10.7	7.3	173.56	216.8	-516.1	997.3	982.7	14.58	68.389 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7934-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	75.97	156.3	625.6	645.4					
100.0	100.0	75.0	75.0	0.2	0.1	75.97	156.3	625.6	644.9	644.6	0.28	2,279.306		
200.0	200.0	175.0	175.0	0.3	0.3	75.97	156.3	625.6	644.9	644.2	0.63	1,020.386		
300.0	300.0	275.0	275.0	0.5	0.5	75.97	156.3	625.6	644.9	643.9	0.98	657.327		
400.0	400.0	375.0	375.0	0.7	0.7	75.97	156.3	625.6	644.9	643.5	1.33	484.824		
500.0	500.0	475.0	475.0	0.8	0.8	75.97	156.3	625.6	644.9	643.2	1.68	384.039		
600.0	600.0	575.0	575.0	1.0	1.0	-48.29	156.3	625.6	644.3	642.3	2.03	317.635		
700.0	700.0	674.9	674.9	1.2	1.2	-48.47	156.3	625.6	642.6	640.2	2.38	270.115		
800.0	799.9	774.9	774.9	1.4	1.4	-48.79	156.3	625.6	639.7	636.9	2.73	234.132		
900.0	899.7	874.7	874.7	1.6	1.5	-49.23	156.3	625.6	635.7	632.6	3.09	205.698		
1,000.0	999.4	974.4	974.4	1.8	1.7	-49.81	156.3	625.6	630.6	627.1	3.46	182.472		
1,100.0	1,098.9	1,073.9	1,073.9	2.0	1.9	-50.53	156.3	625.6	624.4	620.6	3.83	162.996		
1,200.0	1,198.3	1,173.3	1,173.3	2.2	2.0	-51.39	156.3	625.6	617.2	613.0	4.22	146.316		
1,300.0	1,297.4	1,272.4	1,272.4	2.5	2.2	-52.38	156.3	625.6	609.2	604.6	4.62	131.867		
1,400.0	1,396.5	1,371.5	1,371.5	2.8	2.4	-53.38	156.3	625.6	601.1	596.1	5.03	119.499		
1,500.0	1,495.6	1,470.6	1,470.6	3.0	2.6	-54.41	156.3	625.6	593.2	587.8	5.45	108.891		
1,600.0	1,594.7	1,569.7	1,569.7	3.3	2.7	-55.46	156.3	625.6	585.5	579.6	5.87	99.719		
1,700.0	1,693.8	1,668.8	1,668.8	3.6	2.9	-56.55	156.3	625.6	578.0	571.7	6.30	91.729		
1,800.0	1,793.0	1,767.9	1,767.9	3.9	3.1	-57.66	156.3	625.6	570.7	564.0	6.74	84.722		
1,900.0	1,892.1	1,867.0	1,867.0	4.1	3.3	-58.79	156.3	625.6	563.6	556.5	7.18	78.540		
2,000.0	1,991.2	1,966.2	1,966.2	4.4	3.4	-59.96	156.3	625.6	556.8	549.2	7.62	73.057		
2,100.0	2,090.3	2,065.3	2,065.3	4.7	3.6	-61.15	156.3	625.6	550.2	542.1	8.07	68.169		
2,200.0	2,189.4	2,164.4	2,164.4	5.0	3.8	-62.38	156.3	625.6	543.8	535.3	8.53	63.794		
2,300.0	2,288.5	2,263.5	2,263.5	5.3	4.0	-63.63	156.3	625.6	537.7	528.8	8.98	59.862		
2,400.0	2,387.6	2,362.6	2,362.6	5.5	4.1	-64.90	156.3	625.6	531.9	522.5	9.44	56.317		
2,500.0	2,486.7	2,461.7	2,461.7	5.8	4.3	-66.21	156.3	625.6	526.4	516.4	9.91	53.111		
2,600.0	2,585.8	2,560.8	2,560.8	6.1	4.5	-67.54	156.3	625.6	521.1	510.7	10.38	50.204		
2,700.0	2,684.9	2,659.9	2,659.9	6.4	4.6	-68.90	156.3	625.6	516.1	505.2	10.85	47.562		
2,800.0	2,784.0	2,759.0	2,759.0	6.7	4.8	-70.28	156.3	625.6	511.4	500.1	11.32	45.157		
2,900.0	2,883.1	2,858.1	2,858.1	7.0	5.0	-71.69	156.3	625.6	507.0	495.2	11.80	42.962		
3,000.0	2,982.2	2,957.2	2,957.2	7.3	5.2	-73.12	156.3	625.6	503.0	490.7	12.28	40.958		
3,100.0	3,081.3	3,056.3	3,056.3	7.6	5.3	-74.57	156.3	625.6	499.2	486.5	12.76	39.126		
3,200.0	3,180.4	3,155.4	3,155.4	7.8	5.5	-76.05	156.3	625.6	495.8	482.6	13.24	37.448		
3,300.0	3,279.6	3,254.5	3,254.5	8.1	5.7	-77.54	156.3	625.6	492.7	479.0	13.72	35.912		
3,400.0	3,378.7	3,353.6	3,353.6	8.4	5.9	-79.05	156.3	625.6	490.0	475.8	14.20	34.504		
3,500.0	3,477.8	3,452.8	3,452.8	8.7	6.0	-80.57	156.3	625.6	487.6	472.9	14.68	33.213		
3,600.0	3,576.9	3,551.9	3,551.9	9.0	6.2	-82.11	156.3	625.6	485.6	470.4	15.16	32.030		
3,700.0	3,676.0	3,651.0	3,651.0	9.3	6.4	-83.66	156.3	625.6	483.9	468.3	15.64	30.946		
3,800.0	3,775.1	3,750.1	3,750.1	9.6	6.5	-85.22	156.3	625.6	482.6	466.5	16.11	29.953		
3,900.0	3,874.2	3,849.2	3,849.2	9.9	6.7	-86.79	156.3	625.6	481.7	465.1	16.59	29.043		
4,000.0	3,973.3	3,948.3	3,948.3	10.2	6.9	-88.36	156.3	625.6	481.1	464.1	17.05	28.211		
4,100.0	4,072.4	4,047.4	4,047.4	10.5	7.1	-89.93	156.3	625.6	480.9	463.4	17.52	27.450		
4,104.2	4,076.5	4,051.5	4,051.5	10.5	7.1	-90.00	156.3	625.6	480.9	463.4	17.54	27.420		
4,200.0	4,171.5	4,146.5	4,146.5	10.7	7.2	-91.51	156.3	625.6	481.1	463.1	17.98	26.755		
4,300.0	4,270.6	4,245.6	4,245.6	11.0	7.4	-93.08	156.3	625.6	481.6	463.2	18.44	26.122		
4,400.0	4,369.7	4,344.7	4,344.7	11.3	7.6	-94.65	156.3	625.6	482.5	463.6	18.89	25.545		
4,500.0	4,468.8	4,443.8	4,443.8	11.6	7.8	-96.21	156.3	625.6	483.8	464.5	19.34	25.021		
4,600.0	4,567.9	4,542.9	4,542.9	11.9	7.9	-97.76	156.3	625.6	485.4	465.7	19.78	24.546		
4,700.0	4,667.0	4,642.0	4,642.0	12.2	8.1	-99.30	156.3	625.6	487.4	467.2	20.21	24.116		
4,800.0	4,766.2	4,741.1	4,741.1	12.5	8.3	-100.83	156.3	625.6	489.8	469.1	20.64	23.729		
4,900.0	4,865.3	4,840.2	4,840.2	12.8	8.4	-102.34	156.3	625.6	492.5	471.4	21.06	23.381		
5,000.0	4,964.4	4,939.4	4,939.4	13.1	8.6	-103.83	156.3	625.6	495.5	474.1	21.48	23.069		

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 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7934-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		
5,100.0	5,063.5	5,038.5	5,038.5	13.4	8.8	-105.31	156.3	625.6	498.9	477.0	21.89	22.791		
5,200.0	5,162.6	5,137.6	5,137.6	13.7	9.0	-106.76	156.3	625.6	502.6	480.3	22.29	22.545		
5,300.0	5,261.7	5,236.7	5,236.7	13.9	9.1	-108.19	156.3	625.6	506.7	484.0	22.69	22.328		
5,400.0	5,360.8	5,335.8	5,335.8	14.2	9.3	-109.60	156.3	625.6	511.0	487.9	23.08	22.138		
5,500.0	5,459.9	5,434.9	5,434.9	14.5	9.5	-110.99	156.3	625.6	515.7	492.2	23.47	21.973		
5,600.0	5,559.0	5,534.0	5,534.0	14.8	9.7	-112.35	156.3	625.6	520.6	496.8	23.85	21.831		
5,700.0	5,658.1	5,633.1	5,633.1	15.1	9.8	-113.68	156.3	625.6	525.9	501.7	24.22	21.711		
5,800.0	5,757.2	5,732.2	5,732.2	15.4	10.0	-114.99	156.3	625.6	531.4	506.8	24.59	21.610		
5,900.0	5,856.3	5,831.3	5,831.3	15.7	10.2	-116.27	156.3	625.6	537.2	512.3	24.96	21.529		
6,000.0	5,955.4	5,930.4	5,930.4	16.0	10.4	-117.52	156.3	625.6	543.3	518.0	25.31	21.464		
6,100.0	6,054.5	6,029.5	6,029.5	16.3	10.5	-118.75	156.3	625.6	549.7	524.0	25.67	21.415		
6,200.0	6,153.6	6,128.6	6,128.6	16.6	10.7	-119.94	156.3	625.6	556.2	530.2	26.02	21.380		
6,300.0	6,252.8	6,227.7	6,227.7	16.9	10.9	-121.11	156.3	625.6	563.1	536.7	26.36	21.359		
6,400.0	6,351.9	6,326.9	6,326.9	17.1	11.0	-122.25	156.3	625.6	570.1	543.4	26.70	21.351		
6,500.0	6,451.2	6,426.1	6,426.1	17.4	11.2	-66.17	156.3	625.6	572.0	545.1	26.96	21.218		
6,600.0	6,549.8	6,524.8	6,524.8	17.5	11.4	-30.88	156.3	625.6	560.3	533.5	26.84	20.878		
6,700.0	6,645.9	6,620.9	6,620.9	17.5	11.6	-20.26	156.3	625.6	535.2	508.8	26.33	20.326		
6,800.0	6,737.5	6,712.5	6,712.5	17.5	11.7	-16.49	156.3	625.6	497.0	471.5	25.45	19.526		
6,900.0	6,823.0	6,798.0	6,798.0	17.4	11.9	-15.65	156.3	625.6	446.6	422.4	24.26	18.406		
7,000.0	6,900.5	6,875.5	6,875.5	17.4	12.0	-16.96	156.3	625.6	385.1	362.3	22.87	16.844		
7,100.0	6,968.7	6,943.7	6,943.7	17.3	12.1	-21.03	156.3	625.6	314.0	292.5	21.48	14.613		
7,200.0	7,026.1	7,001.1	7,001.1	17.4	12.2	-30.22	156.3	625.6	235.0	214.2	20.76	11.322		
7,300.0	7,071.7	7,046.7	7,046.7	17.5	12.3	-49.88	156.3	625.6	151.6	129.4	22.23	6.821		
7,400.0	7,104.6	7,079.6	7,079.6	17.8	12.4	-79.50	156.3	625.6	76.6	51.4	25.21	3.038		
7,445.9	7,115.3	7,090.3	7,090.3	18.0	12.4	-90.00	156.3	625.6	62.4	36.7	25.76	2.425 CC, ES, SF		
7,500.0	7,124.2	7,099.2	7,099.2	18.3	12.4	-96.12	156.3	625.6	82.0	56.0	26.00	3.153		
7,600.0	7,130.0	7,105.0	7,105.0	18.9	12.4	-90.00	156.3	625.6	164.7	137.9	26.79	6.148		
7,700.0	7,130.0	7,105.0	7,105.0	19.6	12.4	-90.00	156.3	625.6	259.7	232.0	27.71	9.373		
7,800.0	7,130.0	7,105.0	7,105.0	20.4	12.4	-90.00	156.3	625.6	357.5	328.7	28.77	12.424		
7,900.0	7,130.0	7,105.0	7,105.0	21.4	12.4	-90.00	156.3	625.6	456.2	426.3	29.95	15.234		
8,000.0	7,130.0	7,105.0	7,105.0	22.4	12.4	-90.00	156.3	625.6	555.4	524.2	31.21	17.795		
8,100.0	7,130.0	7,105.0	7,105.0	23.5	12.4	-90.00	156.3	625.6	654.9	622.3	32.55	20.119		
8,200.0	7,130.0	7,105.0	7,105.0	24.7	12.4	-90.00	156.3	625.6	754.4	720.5	33.95	22.224		
8,300.0	7,130.0	7,105.0	7,105.0	26.0	12.4	-90.00	156.3	625.6	854.1	818.7	35.39	24.132		
8,400.0	7,130.0	7,105.0	7,105.0	27.3	12.4	-90.00	156.3	625.6	953.9	917.0	36.88	25.864		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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: 0-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	-89.64	0.4	-60.1	60.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.64	0.4	-60.1	60.1	59.8	0.30	197.832		
200.0	200.0	200.0	200.0	0.3	0.3	-89.64	0.4	-60.1	60.1	59.4	0.65	92.040 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	-89.94	0.1	-60.9	60.9	59.9	1.00	60.822		
400.0	400.0	398.0	398.0	0.7	0.7	-90.80	-0.9	-63.3	63.3	61.9	1.35	46.782		
500.0	500.0	496.8	496.7	0.8	0.9	-92.08	-2.4	-67.2	67.4	65.6	1.71	39.339		
600.0	600.0	595.5	595.2	1.0	1.1	142.54	-4.6	-72.8	73.8	71.7	2.05	36.068		
700.0	700.0	693.7	693.1	1.2	1.3	141.91	-7.4	-79.9	83.2	80.8	2.39	34.743 SF		
800.0	799.9	791.5	790.5	1.4	1.5	141.73	-10.8	-88.5	95.6	92.9	2.75	34.814		
900.0	899.7	888.7	887.0	1.6	1.7	141.85	-14.8	-98.5	111.0	107.9	3.10	35.783		
1,000.0	999.4	985.0	982.6	1.8	2.0	142.15	-19.3	-110.0	129.4	125.9	3.46	37.347		
1,100.0	1,098.9	1,080.5	1,077.1	2.0	2.3	142.53	-24.4	-122.9	150.6	146.8	3.83	39.313		
1,200.0	1,198.3	1,175.0	1,170.3	2.2	2.6	142.94	-29.9	-137.1	174.8	170.6	4.21	41.551		
1,300.0	1,297.4	1,269.9	1,263.8	2.5	2.9	143.41	-36.0	-152.6	201.5	196.9	4.59	43.895		
1,400.0	1,396.5	1,366.1	1,358.4	2.8	3.2	143.90	-42.3	-168.5	228.8	223.8	4.99	45.878		
1,500.0	1,495.6	1,462.3	1,453.1	3.0	3.6	144.29	-48.6	-184.4	256.0	250.7	5.39	47.542		
1,600.0	1,594.7	1,558.5	1,547.8	3.3	3.9	144.60	-54.8	-200.3	283.3	277.5	5.79	48.957		
1,700.0	1,693.8	1,654.7	1,642.4	3.6	4.2	144.86	-61.1	-216.2	310.6	304.4	6.19	50.173		
1,800.0	1,793.0	1,750.9	1,737.1	3.9	4.6	145.07	-67.3	-232.0	337.9	331.3	6.60	51.227		
1,900.0	1,892.1	1,847.1	1,831.8	4.1	4.9	145.26	-73.6	-247.9	365.2	358.2	7.00	52.149		
2,000.0	1,991.2	1,943.3	1,926.4	4.4	5.2	145.41	-79.8	-263.8	392.5	385.1	7.41	52.962		
2,100.0	2,090.3	2,039.5	2,021.1	4.7	5.6	145.55	-86.1	-279.7	419.8	412.0	7.82	53.684		
2,200.0	2,189.4	2,135.7	2,115.8	5.0	5.9	145.67	-92.4	-295.6	447.1	438.8	8.23	54.329		
2,300.0	2,288.5	2,231.9	2,210.4	5.3	6.3	145.78	-98.6	-311.5	474.4	465.7	8.64	54.908		
2,400.0	2,387.6	2,328.1	2,305.1	5.5	6.6	145.87	-104.9	-327.4	501.7	492.6	9.05	55.432		
2,500.0	2,486.7	2,424.3	2,399.8	5.8	6.9	145.96	-111.1	-343.3	529.0	519.5	9.46	55.906		
2,600.0	2,585.8	2,520.5	2,494.5	6.1	7.3	146.04	-117.4	-359.2	556.3	546.4	9.87	56.339		
2,700.0	2,684.9	2,616.7	2,589.1	6.4	7.6	146.11	-123.6	-375.1	583.6	573.3	10.29	56.735		
2,800.0	2,784.0	2,712.9	2,683.8	6.7	8.0	146.17	-129.9	-391.0	610.9	600.2	10.70	57.098		
2,900.0	2,883.1	2,809.1	2,778.5	7.0	8.3	146.23	-136.2	-406.9	638.2	627.1	11.11	57.433		
3,000.0	2,982.2	2,905.3	2,873.1	7.3	8.7	146.28	-142.4	-422.8	665.5	654.0	11.53	57.743		
3,100.0	3,081.3	3,001.5	2,967.8	7.6	9.0	146.33	-148.7	-438.6	692.8	680.9	11.94	58.029		
3,200.0	3,180.4	3,097.7	3,062.5	7.8	9.3	146.38	-154.9	-454.5	720.1	707.8	12.35	58.296		
3,300.0	3,279.6	3,193.9	3,157.1	8.1	9.7	146.42	-161.2	-470.4	747.4	734.7	12.77	58.544		
3,400.0	3,378.7	3,290.1	3,251.8	8.4	10.0	146.46	-167.4	-486.3	774.7	761.6	13.18	58.776		
3,500.0	3,477.8	3,386.3	3,346.5	8.7	10.4	146.49	-173.7	-502.2	802.1	788.5	13.60	58.993		
3,600.0	3,576.9	3,482.5	3,441.1	9.0	10.7	146.53	-180.0	-518.1	829.4	815.4	14.01	59.197		
3,700.0	3,676.0	3,578.7	3,535.8	9.3	11.1	146.56	-186.2	-534.0	856.7	842.3	14.43	59.388		
3,800.0	3,775.1	3,674.9	3,630.5	9.6	11.4	146.59	-192.5	-549.9	884.0	869.2	14.84	59.568		
3,900.0	3,874.2	3,771.1	3,725.2	9.9	11.8	146.62	-198.7	-565.8	911.3	896.0	15.25	59.738		
4,000.0	3,973.3	3,867.3	3,819.8	10.2	12.1	146.64	-205.0	-581.7	938.6	922.9	15.67	59.899		
4,100.0	4,072.4	3,963.5	3,914.5	10.5	12.4	146.67	-211.2	-597.6	965.9	949.8	16.09	60.051		
4,200.0	4,171.5	4,059.7	4,009.2	10.7	12.8	146.69	-217.5	-613.5	993.2	976.7	16.50	60.195		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.60	0.4	-52.5	52.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.60	0.4	-52.5	52.5	52.2	0.30	172.988		
200.0	200.0	200.0	200.0	0.3	0.3	-89.60	0.4	-52.5	52.5	51.9	0.65	80.482		
300.0	300.0	300.0	300.0	0.5	0.5	-89.60	0.4	-52.5	52.5	51.5	1.00	52.439	CC, ES	
400.0	400.0	399.2	399.2	0.7	0.7	-90.02	0.0	-53.3	53.3	52.0	1.35	39.484		
500.0	500.0	498.3	498.2	0.8	0.9	-91.20	-1.2	-55.6	55.6	53.9	1.70	32.701		
600.0	600.0	597.3	597.1	1.0	1.0	143.32	-3.1	-59.4	60.3	58.2	2.05	29.452		
700.0	700.0	696.0	695.6	1.2	1.2	142.53	-5.7	-64.8	67.9	65.5	2.40	28.329	SF	
800.0	799.9	794.2	793.6	1.4	1.4	142.18	-9.1	-71.6	78.5	75.7	2.75	28.541		
900.0	899.7	892.0	890.9	1.6	1.7	142.14	-13.2	-79.9	92.0	88.9	3.11	29.607		
1,000.0	999.4	989.1	987.4	1.8	1.9	142.28	-18.0	-89.6	108.5	105.0	3.47	31.241		
1,100.0	1,098.9	1,085.3	1,082.9	2.0	2.2	142.53	-23.5	-100.7	127.8	123.9	3.84	33.255		
1,200.0	1,198.3	1,181.8	1,178.4	2.2	2.4	142.85	-29.7	-113.0	149.8	145.6	4.22	35.476		
1,300.0	1,297.4	1,279.0	1,274.5	2.5	2.7	143.40	-35.9	-125.7	173.3	168.7	4.61	37.568		
1,400.0	1,396.5	1,376.1	1,370.6	2.8	3.0	143.96	-42.2	-138.3	197.1	192.1	5.01	39.339		
1,500.0	1,495.6	1,473.2	1,466.7	3.0	3.3	144.40	-48.5	-150.9	220.9	215.5	5.41	40.829		
1,600.0	1,594.7	1,570.3	1,562.8	3.3	3.6	144.75	-54.7	-163.5	244.8	238.9	5.81	42.096		
1,700.0	1,693.8	1,667.4	1,658.9	3.6	3.9	145.04	-61.0	-176.2	268.6	262.4	6.22	43.187		
1,800.0	1,793.0	1,764.6	1,754.9	3.9	4.1	145.29	-67.3	-188.8	292.5	285.8	6.63	44.134		
1,900.0	1,892.1	1,861.7	1,851.0	4.1	4.4	145.50	-73.5	-201.4	316.3	309.3	7.03	44.964		
2,000.0	1,991.2	1,958.8	1,947.1	4.4	4.7	145.67	-79.8	-214.0	340.2	332.7	7.44	45.697		
2,100.0	2,090.3	2,055.9	2,043.2	4.7	5.0	145.83	-86.0	-226.7	364.0	356.2	7.85	46.348		
2,200.0	2,189.4	2,153.0	2,139.3	5.0	5.3	145.96	-92.3	-239.3	387.9	379.6	8.27	46.930		
2,300.0	2,288.5	2,250.1	2,235.3	5.3	5.6	146.08	-98.6	-251.9	411.8	403.1	8.68	47.454		
2,400.0	2,387.6	2,347.2	2,331.4	5.5	5.9	146.19	-104.8	-264.5	435.6	426.5	9.09	47.928		
2,500.0	2,486.7	2,444.3	2,427.5	5.8	6.2	146.29	-111.1	-277.2	459.5	450.0	9.50	48.357		
2,600.0	2,585.8	2,541.4	2,523.6	6.1	6.5	146.37	-117.4	-289.8	483.4	473.4	9.92	48.750		
2,700.0	2,684.9	2,638.5	2,619.6	6.4	6.8	146.45	-123.6	-302.4	507.2	496.9	10.33	49.109		
2,800.0	2,784.0	2,735.6	2,715.7	6.7	7.1	146.52	-129.9	-315.0	531.1	520.4	10.74	49.438		
2,900.0	2,883.1	2,832.7	2,811.8	7.0	7.4	146.59	-136.2	-327.6	555.0	543.8	11.16	49.742		
3,000.0	2,982.2	2,929.8	2,907.9	7.3	7.7	146.65	-142.4	-340.3	578.8	567.3	11.57	50.024		
3,100.0	3,081.3	3,026.9	3,004.0	7.6	8.0	146.70	-148.7	-352.9	602.7	590.7	11.99	50.284		
3,200.0	3,180.4	3,124.1	3,100.0	7.8	8.3	146.75	-155.0	-365.5	626.6	614.2	12.40	50.527		
3,300.0	3,279.6	3,221.2	3,196.1	8.1	8.6	146.80	-161.2	-378.1	650.5	637.7	12.82	50.753		
3,400.0	3,378.7	3,318.3	3,292.2	8.4	8.9	146.84	-167.5	-390.8	674.3	661.1	13.23	50.964		
3,500.0	3,477.8	3,415.4	3,388.3	8.7	9.2	146.88	-173.8	-403.4	698.2	684.6	13.65	51.162		
3,600.0	3,576.9	3,512.5	3,484.4	9.0	9.5	146.92	-180.0	-416.0	722.1	708.0	14.06	51.348		
3,700.0	3,676.0	3,609.6	3,580.4	9.3	9.8	146.96	-186.3	-428.6	746.0	731.5	14.48	51.522		
3,800.0	3,775.1	3,706.7	3,676.5	9.6	10.1	146.99	-192.5	-441.3	769.8	754.9	14.89	51.686		
3,900.0	3,874.2	3,803.8	3,772.6	9.9	10.4	147.02	-198.8	-453.9	793.7	778.4	15.31	51.842		
4,000.0	3,973.3	3,900.9	3,868.7	10.2	10.7	147.05	-205.1	-466.5	817.6	801.9	15.73	51.988		
4,100.0	4,072.4	3,998.0	3,964.8	10.5	11.0	147.08	-211.3	-479.1	841.5	825.3	16.14	52.127		
4,200.0	4,171.5	4,095.1	4,060.8	10.7	11.3	147.10	-217.6	-491.8	865.3	848.8	16.56	52.258		
4,300.0	4,270.6	4,192.2	4,156.9	11.0	11.6	147.13	-223.9	-504.4	889.2	872.2	16.98	52.383		
4,400.0	4,369.7	4,289.3	4,253.0	11.3	11.9	147.15	-230.1	-517.0	913.1	895.7	17.39	52.501		
4,500.0	4,468.8	4,386.4	4,349.1	11.6	12.2	147.18	-236.4	-529.6	937.0	919.2	17.81	52.614		
4,600.0	4,567.9	4,483.6	4,445.2	11.9	12.5	147.20	-242.7	-542.3	960.9	942.6	18.23	52.722		
4,700.0	4,667.0	4,580.7	4,541.2	12.2	12.8	147.22	-248.9	-554.9	984.7	966.1	18.64	52.824		

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 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4C-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	-89.55	0.4	-45.0	45.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.55	0.4	-45.0	45.0	44.7	0.30	148.146		
200.0	200.0	200.0	200.0	0.3	0.3	-89.55	0.4	-45.0	45.0	44.3	0.65	68.924		
300.0	300.0	300.0	300.0	0.5	0.5	-89.55	0.4	-45.0	45.0	44.0	1.00	44.908		
400.0	400.0	400.0	400.0	0.7	0.7	-89.55	0.4	-45.0	45.0	43.6	1.35	33.304 CC, ES		
500.0	500.0	499.3	499.3	0.8	0.8	-90.16	-0.1	-45.7	45.7	44.0	1.70	26.897		
600.0	600.0	598.6	598.6	1.0	1.0	144.51	-1.6	-47.8	48.6	46.5	2.05	23.732		
700.0	700.0	697.7	697.6	1.2	1.2	143.62	-4.0	-51.4	54.4	52.0	2.40	22.672 SF		
800.0	799.9	796.5	796.1	1.4	1.4	143.02	-7.3	-56.4	63.0	60.3	2.75	22.900		
900.0	899.7	894.8	894.2	1.6	1.6	142.67	-11.6	-62.7	74.5	71.4	3.11	23.953		
1,000.0	999.4	992.6	991.5	1.8	1.8	142.51	-16.8	-70.4	88.9	85.4	3.48	25.553		
1,100.0	1,098.9	1,089.7	1,088.0	2.0	2.1	142.46	-22.8	-79.4	106.0	102.2	3.85	27.514		
1,200.0	1,198.3	1,187.5	1,185.1	2.2	2.3	142.61	-29.5	-89.3	125.4	121.2	4.24	29.595		
1,300.0	1,297.4	1,285.3	1,282.2	2.5	2.6	143.12	-36.2	-99.2	146.2	141.5	4.63	31.551		
1,400.0	1,396.5	1,383.1	1,379.2	2.8	2.8	143.65	-42.9	-109.2	167.2	162.2	5.03	33.214		
1,500.0	1,495.6	1,480.8	1,476.2	3.0	3.1	144.06	-49.6	-119.1	188.3	182.8	5.44	34.613		
1,600.0	1,594.7	1,578.6	1,573.2	3.3	3.3	144.39	-56.3	-129.1	209.3	203.5	5.85	35.803		
1,700.0	1,693.8	1,676.3	1,670.2	3.6	3.6	144.66	-63.0	-139.0	230.4	224.1	6.26	36.827		
1,800.0	1,793.0	1,774.1	1,767.3	3.9	3.8	144.88	-69.7	-148.9	251.5	244.8	6.67	37.716		
1,900.0	1,892.1	1,871.8	1,864.3	4.1	4.1	145.07	-76.5	-158.9	272.5	265.4	7.08	38.494		
2,000.0	1,991.2	1,969.6	1,961.3	4.4	4.4	145.23	-83.2	-168.8	293.6	286.1	7.49	39.182		
2,100.0	2,090.3	2,067.3	2,058.3	4.7	4.6	145.37	-89.9	-178.8	314.7	306.8	7.91	39.792		
2,200.0	2,189.4	2,165.1	2,155.3	5.0	4.9	145.49	-96.6	-188.7	335.8	327.4	8.32	40.338		
2,300.0	2,288.5	2,262.8	2,252.3	5.3	5.2	145.60	-103.3	-198.7	356.8	348.1	8.74	40.829		
2,400.0	2,387.6	2,360.6	2,349.3	5.5	5.4	145.70	-110.0	-208.6	377.9	368.8	9.16	41.273		
2,500.0	2,486.7	2,458.3	2,446.3	5.8	5.7	145.78	-116.7	-218.5	399.0	389.4	9.57	41.676		
2,600.0	2,585.8	2,556.1	2,543.4	6.1	6.0	145.86	-123.4	-228.5	420.1	410.1	9.99	42.043		
2,700.0	2,684.9	2,653.8	2,640.4	6.4	6.2	145.93	-130.1	-238.4	441.2	430.8	10.41	42.379		
2,800.0	2,784.0	2,751.6	2,737.4	6.7	6.5	145.99	-136.8	-248.4	462.3	451.4	10.83	42.688		
2,900.0	2,883.1	2,849.3	2,834.4	7.0	6.8	146.05	-143.5	-258.3	483.3	472.1	11.25	42.973		
3,000.0	2,982.2	2,947.1	2,931.4	7.3	7.0	146.10	-150.2	-268.2	504.4	492.8	11.67	43.236		
3,100.0	3,081.3	3,044.8	3,028.4	7.6	7.3	146.15	-156.9	-278.2	525.5	513.4	12.09	43.480		
3,200.0	3,180.4	3,142.6	3,125.4	7.8	7.6	146.20	-163.6	-288.1	546.6	534.1	12.51	43.707		
3,300.0	3,279.6	3,240.3	3,222.4	8.1	7.8	146.24	-170.3	-298.1	567.7	554.8	12.93	43.919		
3,400.0	3,378.7	3,338.1	3,319.5	8.4	8.1	146.28	-177.0	-308.0	588.8	575.4	13.35	44.116		
3,500.0	3,477.8	3,435.8	3,416.5	8.7	8.4	146.31	-183.7	-317.9	609.9	596.1	13.77	44.301		
3,600.0	3,576.9	3,533.6	3,513.5	9.0	8.7	146.35	-190.4	-327.9	631.0	616.8	14.19	44.475		
3,700.0	3,676.0	3,631.3	3,610.5	9.3	8.9	146.38	-197.1	-337.8	652.0	637.4	14.61	44.638		
3,800.0	3,775.1	3,729.1	3,707.5	9.6	9.2	146.41	-203.8	-347.8	673.1	658.1	15.03	44.792		
3,900.0	3,874.2	3,826.8	3,804.5	9.9	9.5	146.44	-210.5	-357.7	694.2	678.8	15.45	44.937		
4,000.0	3,973.3	3,924.6	3,901.5	10.2	9.7	146.46	-217.2	-367.6	715.3	699.4	15.87	45.074		
4,100.0	4,072.4	4,022.3	3,998.5	10.5	10.0	146.49	-223.9	-377.6	736.4	720.1	16.29	45.204		
4,200.0	4,171.5	4,120.1	4,095.6	10.7	10.3	146.51	-230.6	-387.5	757.5	740.8	16.71	45.327		
4,300.0	4,270.6	4,217.8	4,192.6	11.0	10.5	146.53	-237.3	-397.5	778.6	761.4	17.13	45.443		
4,400.0	4,369.7	4,315.6	4,289.6	11.3	10.8	146.55	-244.0	-407.4	799.7	782.1	17.55	45.554		
4,500.0	4,468.8	4,413.3	4,386.6	11.6	11.1	146.57	-250.7	-417.3	820.7	802.8	17.98	45.660		
4,600.0	4,567.9	4,511.1	4,483.6	11.9	11.3	146.59	-257.5	-427.3	841.8	823.4	18.40	45.760		
4,700.0	4,667.0	4,608.9	4,580.6	12.2	11.6	146.61	-264.2	-437.2	862.9	844.1	18.82	45.856		
4,800.0	4,766.2	4,706.6	4,677.6	12.5	11.9	146.63	-270.9	-447.2	884.0	864.8	19.24	45.948		
4,900.0	4,865.3	4,804.4	4,774.6	12.8	12.2	146.64	-277.6	-457.1	905.1	885.4	19.66	46.035		
5,000.0	4,964.4	4,902.1	4,871.7	13.1	12.4	146.66	-284.3	-467.1	926.2	906.1	20.08	46.119		
5,100.0	5,063.5	4,999.9	4,968.7	13.4	12.7	146.67	-291.0	-477.0	947.3	926.8	20.50	46.199		

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 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design												S35-T3N-R67W (Kiyota) - Kiyota 4C-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor					
5,200.0	5,162.6	5,097.6	5,065.7	13.7	13.0	146.69	-297.7	-486.9	968.4	947.4	20.93	46.275					
5,300.0	5,261.7	5,195.4	5,162.7	13.9	13.2	146.70	-304.4	-496.9	989.5	968.1	21.35	46.349					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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: 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	-89.47	0.3	-37.4	37.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.47	0.3	-37.4	37.4	37.1	0.30	123.303		
200.0	200.0	200.0	200.0	0.3	0.3	-89.47	0.3	-37.4	37.4	36.8	0.65	57.366		
300.0	300.0	300.0	300.0	0.5	0.5	-89.47	0.3	-37.4	37.4	36.4	1.00	37.378		
400.0	400.0	400.0	400.0	0.7	0.7	-89.47	0.3	-37.4	37.4	36.1	1.35	27.719		
500.0	500.0	500.0	500.0	0.8	0.8	-89.47	0.3	-37.4	37.4	35.7	1.70	22.027 CC, ES		
600.0	600.0	599.5	599.5	1.0	1.0	146.12	-0.3	-38.0	38.8	36.7	2.05	18.929		
700.0	700.0	699.0	698.9	1.2	1.2	145.55	-2.1	-39.9	42.8	40.4	2.40	17.828 SF		
800.0	799.9	798.2	798.0	1.4	1.4	144.79	-5.2	-42.9	49.4	46.7	2.75	17.951		
900.0	899.7	897.1	896.7	1.6	1.6	144.02	-9.5	-47.1	58.7	55.6	3.11	18.863		
1,000.0	999.4	995.5	994.9	1.8	1.8	143.32	-15.0	-52.4	70.7	67.2	3.48	20.298		
1,100.0	1,098.9	1,093.9	1,092.9	2.0	2.0	142.77	-21.5	-58.9	85.1	81.3	3.86	22.059		
1,200.0	1,198.3	1,192.6	1,191.1	2.2	2.2	142.84	-28.3	-65.5	101.2	97.0	4.25	23.828		
1,300.0	1,297.4	1,291.1	1,289.1	2.5	2.4	143.37	-35.1	-72.2	118.6	113.9	4.64	25.537		
1,400.0	1,396.5	1,389.5	1,387.1	2.8	2.6	143.92	-41.9	-78.8	136.3	131.2	5.05	27.003		
1,500.0	1,495.6	1,487.9	1,485.0	3.0	2.9	144.35	-48.7	-85.5	154.0	148.5	5.45	28.238		
1,600.0	1,594.7	1,586.3	1,583.0	3.3	3.1	144.68	-55.5	-92.1	171.7	165.8	5.86	29.290		
1,700.0	1,693.8	1,684.8	1,681.0	3.6	3.3	144.95	-62.3	-98.8	189.4	183.1	6.27	30.195		
1,800.0	1,793.0	1,783.2	1,778.9	3.9	3.6	145.18	-69.1	-105.4	207.1	200.4	6.68	30.982		
1,900.0	1,892.1	1,881.6	1,876.9	4.1	3.8	145.37	-75.9	-112.1	224.8	217.7	7.10	31.671		
2,000.0	1,991.2	1,980.0	1,974.8	4.4	4.0	145.53	-82.6	-118.7	242.5	235.0	7.51	32.281		
2,100.0	2,090.3	2,078.4	2,072.8	4.7	4.3	145.67	-89.4	-125.4	260.2	252.3	7.93	32.822		
2,200.0	2,189.4	2,176.8	2,170.7	5.0	4.5	145.80	-96.2	-132.0	278.0	269.6	8.35	33.306		
2,300.0	2,288.5	2,275.3	2,268.7	5.3	4.7	145.90	-103.0	-138.7	295.7	286.9	8.76	33.742		
2,400.0	2,387.6	2,373.7	2,366.6	5.5	5.0	146.00	-109.8	-145.3	313.4	304.2	9.18	34.136		
2,500.0	2,486.7	2,472.1	2,464.6	5.8	5.2	146.08	-116.6	-151.9	331.1	321.5	9.60	34.494		
2,600.0	2,585.8	2,570.5	2,562.6	6.1	5.4	146.16	-123.4	-158.6	348.8	338.8	10.02	34.821		
2,700.0	2,684.9	2,668.9	2,660.5	6.4	5.7	146.23	-130.2	-165.2	366.6	356.1	10.44	35.120		
2,800.0	2,784.0	2,767.3	2,758.5	6.7	5.9	146.29	-136.9	-171.9	384.3	373.4	10.86	35.394		
2,900.0	2,883.1	2,865.8	2,856.4	7.0	6.1	146.35	-143.7	-178.5	402.0	390.7	11.28	35.648		
3,000.0	2,982.2	2,964.2	2,954.4	7.3	6.4	146.40	-150.5	-185.2	419.7	408.0	11.70	35.882		
3,100.0	3,081.3	3,062.6	3,052.3	7.6	6.6	146.45	-157.3	-191.8	437.5	425.3	12.12	36.099		
3,200.0	3,180.4	3,161.0	3,150.3	7.8	6.9	146.50	-164.1	-198.5	455.2	442.7	12.54	36.301		
3,300.0	3,279.6	3,259.4	3,248.3	8.1	7.1	146.54	-170.9	-205.1	472.9	460.0	12.96	36.490		
3,400.0	3,378.7	3,357.8	3,346.2	8.4	7.3	146.58	-177.7	-211.8	490.6	477.3	13.38	36.666		
3,500.0	3,477.8	3,456.2	3,444.2	8.7	7.6	146.61	-184.5	-218.4	508.4	494.6	13.80	36.831		
3,600.0	3,576.9	3,554.7	3,542.1	9.0	7.8	146.64	-191.3	-225.1	526.1	511.9	14.22	36.986		
3,700.0	3,676.0	3,653.1	3,640.1	9.3	8.0	146.68	-198.0	-231.7	543.8	529.2	14.65	37.131		
3,800.0	3,775.1	3,751.5	3,738.0	9.6	8.3	146.70	-204.8	-238.4	561.6	546.5	15.07	37.268		
3,900.0	3,874.2	3,849.9	3,836.0	9.9	8.5	146.73	-211.6	-245.0	579.3	563.8	15.49	37.398		
4,000.0	3,973.3	3,948.3	3,933.9	10.2	8.8	146.76	-218.4	-251.7	597.0	581.1	15.91	37.520		
4,100.0	4,072.4	4,046.7	4,031.9	10.5	9.0	146.78	-225.2	-258.3	614.7	598.4	16.33	37.635		
4,200.0	4,171.5	4,145.2	4,129.9	10.7	9.2	146.80	-232.0	-264.9	632.5	615.7	16.76	37.745		
4,300.0	4,270.6	4,243.6	4,227.8	11.0	9.5	146.83	-238.8	-271.6	650.2	633.0	17.18	37.849		
4,400.0	4,369.7	4,342.0	4,325.8	11.3	9.7	146.85	-245.6	-278.2	667.9	650.3	17.60	37.948		
4,500.0	4,468.8	4,440.4	4,423.7	11.6	9.9	146.87	-252.3	-284.9	685.6	667.6	18.02	38.042		
4,600.0	4,567.9	4,538.8	4,521.7	11.9	10.2	146.88	-259.1	-291.5	703.4	684.9	18.45	38.132		
4,700.0	4,667.0	4,637.2	4,619.6	12.2	10.4	146.90	-265.9	-298.2	721.1	702.2	18.87	38.217		
4,800.0	4,766.2	4,735.7	4,717.6	12.5	10.7	146.92	-272.7	-304.8	738.8	719.5	19.29	38.299		
4,900.0	4,865.3	4,834.1	4,815.6	12.8	10.9	146.93	-279.5	-311.5	756.6	736.8	19.71	38.377		
5,000.0	4,964.4	4,932.5	4,913.5	13.1	11.1	146.95	-286.3	-318.1	774.3	754.1	20.14	38.452		
5,100.0	5,063.5	5,030.9	5,011.5	13.4	11.4	146.96	-293.1	-324.8	792.0	771.5	20.56	38.523		

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 4I-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 4I-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 #1	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
5,200.0	5,162.6	5,129.3	5,109.4	13.7	11.6	146.98	-299.9	-331.4	809.7	788.8	20.98	38.592					
5,300.0	5,261.7	5,227.7	5,207.4	13.9	11.9	146.99	-306.6	-338.1	827.5	806.1	21.40	38.658					
5,400.0	5,360.8	5,326.1	5,305.3	14.2	12.1	147.00	-313.4	-344.7	845.2	823.4	21.83	38.721					
5,500.0	5,459.9	5,424.6	5,403.3	14.5	12.3	147.02	-320.2	-351.4	862.9	840.7	22.25	38.782					
5,600.0	5,559.0	5,523.0	5,501.2	14.8	12.6	147.03	-327.0	-358.0	880.7	858.0	22.67	38.840					
5,700.0	5,658.1	5,621.4	5,599.2	15.1	12.8	147.04	-333.8	-364.7	898.4	875.3	23.10	38.896					
5,800.0	5,757.2	5,719.8	5,697.2	15.4	13.0	147.05	-340.6	-371.3	916.1	892.6	23.52	38.950					
5,900.0	5,856.3	5,818.2	5,795.1	15.7	13.3	147.06	-347.4	-377.9	933.8	909.9	23.94	39.002					
6,000.0	5,955.4	5,916.6	5,893.1	16.0	13.5	147.07	-354.2	-384.6	951.6	927.2	24.37	39.053					
6,100.0	6,054.5	6,015.1	5,991.0	16.3	13.8	147.08	-361.0	-391.2	969.3	944.5	24.79	39.101					
6,200.0	6,153.6	6,113.5	6,089.0	16.6	14.0	147.09	-367.7	-397.9	987.0	961.8	25.21	39.148					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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	-89.35	0.3	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.35	0.3	-29.9	29.9	29.6	0.30	98.461		
200.0	200.0	200.0	200.0	0.3	0.3	-89.35	0.3	-29.9	29.9	29.2	0.65	45.808		
300.0	300.0	300.0	300.0	0.5	0.5	-89.35	0.3	-29.9	29.9	28.9	1.00	29.847		
400.0	400.0	400.0	400.0	0.7	0.7	-89.35	0.3	-29.9	29.9	28.6	1.35	22.135		
500.0	500.0	500.0	500.0	0.8	0.8	-89.35	0.3	-29.9	29.9	28.2	1.70	17.589 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	147.35	0.3	-29.9	30.6	28.6	2.05	14.950		
700.0	700.0	699.7	699.7	1.2	1.2	148.40	-0.4	-30.3	33.2	30.8	2.40	13.844		
800.0	799.9	799.4	799.3	1.4	1.4	148.21	-2.8	-31.4	37.9	35.2	2.75	13.797		
900.0	899.7	898.8	898.7	1.6	1.6	147.19	-6.7	-33.3	44.9	41.8	3.11	14.433		
1,000.0	999.4	998.1	997.7	1.8	1.7	145.78	-12.1	-35.9	54.0	50.5	3.48	15.526		
1,100.0	1,098.9	1,097.2	1,096.6	2.0	1.9	144.53	-18.8	-39.2	65.2	61.3	3.86	16.902		
1,200.0	1,198.3	1,196.4	1,195.6	2.2	2.1	144.28	-25.6	-42.5	77.9	73.6	4.24	18.344		
1,300.0	1,297.4	1,295.4	1,294.3	2.5	2.3	144.71	-32.4	-45.8	91.9	87.2	4.64	19.800		
1,400.0	1,396.5	1,394.4	1,392.9	2.8	2.6	145.19	-39.2	-49.1	106.2	101.2	5.04	21.064		
1,500.0	1,495.6	1,493.4	1,491.6	3.0	2.8	145.55	-46.0	-52.4	120.5	115.1	5.45	22.128		
1,600.0	1,594.7	1,592.3	1,590.3	3.3	3.0	145.84	-52.8	-55.7	134.9	129.0	5.85	23.036		
1,700.0	1,693.8	1,691.3	1,689.0	3.6	3.2	146.07	-59.6	-59.0	149.2	142.9	6.26	23.818		
1,800.0	1,793.0	1,790.3	1,787.7	3.9	3.4	146.26	-66.4	-62.3	163.6	156.9	6.68	24.498		
1,900.0	1,892.1	1,889.2	1,886.3	4.1	3.6	146.42	-73.2	-65.6	177.9	170.8	7.09	25.094		
2,000.0	1,991.2	1,988.2	1,985.0	4.4	3.8	146.55	-80.0	-68.9	192.2	184.7	7.50	25.621		
2,100.0	2,090.3	2,087.2	2,083.7	4.7	4.0	146.67	-86.8	-72.2	206.6	198.7	7.92	26.089		
2,200.0	2,189.4	2,186.1	2,182.4	5.0	4.2	146.77	-93.6	-75.4	220.9	212.6	8.33	26.509		
2,300.0	2,288.5	2,285.1	2,281.0	5.3	4.4	146.86	-100.4	-78.7	235.3	226.5	8.75	26.886		
2,400.0	2,387.6	2,384.1	2,379.7	5.5	4.7	146.94	-107.2	-82.0	249.6	240.5	9.17	27.227		
2,500.0	2,486.7	2,483.0	2,478.4	5.8	4.9	147.01	-114.0	-85.3	264.0	254.4	9.59	27.538		
2,600.0	2,585.8	2,582.0	2,577.1	6.1	5.1	147.07	-120.8	-88.6	278.3	268.3	10.00	27.820		
2,700.0	2,684.9	2,681.0	2,675.7	6.4	5.3	147.13	-127.6	-91.9	292.7	282.2	10.42	28.080		
2,800.0	2,784.0	2,779.9	2,774.4	6.7	5.5	147.18	-134.4	-95.2	307.0	296.2	10.84	28.318		
2,900.0	2,883.1	2,878.9	2,873.1	7.0	5.7	147.23	-141.2	-98.5	321.4	310.1	11.26	28.537		
3,000.0	2,982.2	2,977.9	2,971.8	7.3	6.0	147.27	-148.0	-101.8	335.7	324.0	11.68	28.741		
3,100.0	3,081.3	3,076.8	3,070.4	7.6	6.2	147.31	-154.8	-105.1	350.1	338.0	12.10	28.929		
3,200.0	3,180.4	3,175.8	3,169.1	7.8	6.4	147.35	-161.6	-108.4	364.4	351.9	12.52	29.105		
3,300.0	3,279.6	3,274.7	3,267.8	8.1	6.6	147.38	-168.4	-111.7	378.8	365.8	12.94	29.268		
3,400.0	3,378.7	3,373.7	3,366.5	8.4	6.8	147.41	-175.2	-115.0	393.1	379.7	13.36	29.421		
3,500.0	3,477.8	3,472.7	3,465.1	8.7	7.0	147.44	-182.0	-118.3	407.5	393.7	13.78	29.564		
3,600.0	3,576.9	3,571.6	3,563.8	9.0	7.2	147.47	-188.8	-121.6	421.8	407.6	14.20	29.698		
3,700.0	3,676.0	3,670.6	3,662.5	9.3	7.5	147.50	-195.6	-124.9	436.2	421.5	14.62	29.825		
3,800.0	3,775.1	3,769.6	3,761.2	9.6	7.7	147.52	-202.4	-128.2	450.5	435.5	15.05	29.944		
3,900.0	3,874.2	3,868.5	3,859.9	9.9	7.9	147.54	-209.2	-131.5	464.9	449.4	15.47	30.056		
4,000.0	3,973.3	3,967.5	3,958.5	10.2	8.1	147.56	-216.0	-134.8	479.2	463.3	15.89	30.162		
4,100.0	4,072.4	4,066.5	4,057.2	10.5	8.3	147.58	-222.8	-138.1	493.6	477.2	16.31	30.263		
4,200.0	4,171.5	4,165.4	4,155.9	10.7	8.5	147.60	-229.6	-141.4	507.9	491.2	16.73	30.358		
4,300.0	4,270.6	4,264.4	4,254.6	11.0	8.8	147.62	-236.4	-144.7	522.3	505.1	17.15	30.448		
4,400.0	4,369.7	4,363.4	4,353.2	11.3	9.0	147.63	-243.2	-148.0	536.6	519.0	17.57	30.534		
4,500.0	4,468.8	4,462.3	4,451.9	11.6	9.2	147.65	-250.0	-151.3	551.0	533.0	18.00	30.616		
4,600.0	4,567.9	4,561.3	4,550.6	11.9	9.4	147.66	-256.8	-154.6	565.3	546.9	18.42	30.694		
4,700.0	4,667.0	4,660.3	4,649.3	12.2	9.6	147.68	-263.5	-157.9	579.7	560.8	18.84	30.768		
4,800.0	4,766.2	4,759.2	4,747.9	12.5	9.8	147.69	-270.3	-161.2	594.0	574.7	19.26	30.839		
4,900.0	4,865.3	4,858.2	4,846.6	12.8	10.1	147.71	-277.1	-164.5	608.4	588.7	19.68	30.907		
5,000.0	4,964.4	4,957.2	4,945.3	13.1	10.3	147.72	-283.9	-167.8	622.7	602.6	20.11	30.972		
5,100.0	5,063.5	5,056.1	5,044.0	13.4	10.5	147.73	-290.7	-171.1	637.1	616.5	20.53	31.034		

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 4I-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 4I-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 #1	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			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	5,162.6	5,155.1	5,142.6	13.7	10.7	147.74	-297.5	-174.4	651.4	630.5	20.95	31.093		
5,300.0	5,261.7	5,254.0	5,241.3	13.9	10.9	147.75	-304.3	-177.6	665.8	644.4	21.37	31.151		
5,400.0	5,360.8	5,353.0	5,340.0	14.2	11.1	147.76	-311.1	-180.9	680.1	658.3	21.79	31.206		
5,500.0	5,459.9	5,452.0	5,438.7	14.5	11.4	147.77	-317.9	-184.2	694.5	672.2	22.22	31.258		
5,600.0	5,559.0	5,550.9	5,537.3	14.8	11.6	147.78	-324.7	-187.5	708.8	686.2	22.64	31.309		
5,700.0	5,658.1	5,649.9	5,636.0	15.1	11.8	147.79	-331.5	-190.8	723.2	700.1	23.06	31.358		
5,800.0	5,757.2	5,748.9	5,734.7	15.4	12.0	147.80	-338.3	-194.1	737.5	714.0	23.48	31.405		
5,900.0	5,856.3	5,847.8	5,833.4	15.7	12.2	147.81	-345.1	-197.4	751.9	727.9	23.91	31.450		
6,000.0	5,955.4	5,946.8	5,932.0	16.0	12.4	147.81	-351.9	-200.7	766.2	741.9	24.33	31.494		
6,100.0	6,054.5	6,045.8	6,030.7	16.3	12.7	147.82	-358.7	-204.0	780.6	755.8	24.75	31.536		
6,200.0	6,153.6	6,144.7	6,129.4	16.6	12.9	147.83	-365.5	-207.3	794.9	769.7	25.17	31.577		
6,300.0	6,252.8	6,243.7	6,228.1	16.9	13.1	147.84	-372.3	-210.6	809.3	783.7	25.60	31.616		
6,400.0	6,351.9	6,342.7	6,326.8	17.1	13.3	147.84	-379.1	-213.9	823.6	797.6	26.02	31.654		
6,500.0	6,451.2	6,441.4	6,425.2	17.4	13.5	-154.33	-385.9	-217.2	837.7	811.4	26.33	31.815		
6,600.0	6,549.8	6,538.6	6,522.2	17.5	13.7	-118.11	-392.6	-220.4	851.4	824.8	26.58	32.036		
6,700.0	6,645.9	6,633.2	6,616.5	17.5	13.9	-107.19	-398.4	-223.6	865.1	838.4	26.73	32.367		
6,800.0	6,737.5	6,731.2	6,714.3	17.5	14.0	-103.05	-394.1	-226.9	879.4	852.8	26.69	32.953		
6,900.0	6,823.0	6,834.7	6,815.8	17.4	14.0	-101.32	-375.2	-230.3	894.1	867.6	26.46	33.786		
7,000.0	6,900.5	6,944.4	6,919.4	17.4	13.9	-100.71	-339.3	-233.7	908.6	882.5	26.10	34.805		
7,100.0	6,968.7	7,061.4	7,022.4	17.3	13.7	-100.73	-284.2	-237.2	922.6	896.9	25.70	35.896		
7,200.0	7,026.1	7,186.4	7,120.9	17.4	13.5	-101.09	-207.6	-240.4	935.4	910.0	25.39	36.846		
7,300.0	7,071.7	7,319.8	7,209.7	17.5	13.4	-101.64	-108.4	-243.4	946.4	921.0	25.35	37.337		
7,400.0	7,104.6	7,461.2	7,282.0	17.8	13.6	-102.25	12.8	-245.8	954.9	929.1	25.79	37.026		
7,500.0	7,124.2	7,609.4	7,330.7	18.3	14.1	-102.81	152.5	-247.5	960.2	933.3	26.89	35.711		
7,600.0	7,130.0	7,762.0	7,349.9	18.9	15.2	-103.21	303.7	-248.1	962.0	933.3	28.68	33.540		
7,700.0	7,130.0	7,866.9	7,350.0	19.6	16.1	-103.23	408.6	-248.1	961.1	930.6	30.53	31.481		
7,800.0	7,130.0	7,966.9	7,350.0	20.4	17.1	-103.24	508.6	-248.1	960.3	927.7	32.58	29.471		
7,900.0	7,130.0	8,066.9	7,350.0	21.4	18.3	-103.26	608.5	-248.1	959.4	924.6	34.85	27.529		
8,000.0	7,130.0	8,166.9	7,350.0	22.4	19.5	-103.27	708.5	-248.1	958.6	921.3	37.29	25.703		
8,100.0	7,130.0	8,266.9	7,350.0	23.5	20.8	-103.28	808.5	-248.1	957.7	917.8	39.88	24.016		
8,200.0	7,130.0	8,366.9	7,350.0	24.7	22.2	-103.29	908.5	-248.1	956.9	914.3	42.58	22.471		
8,300.0	7,130.0	8,466.9	7,350.0	26.0	23.6	-103.30	1,008.5	-248.1	956.0	910.6	45.38	21.067		
8,400.0	7,130.0	8,566.9	7,350.0	27.3	25.1	-103.32	1,108.5	-248.1	955.2	906.9	48.26	19.793		
8,500.0	7,130.0	8,666.9	7,350.0	28.7	26.5	-103.33	1,208.5	-248.1	954.3	903.1	51.20	18.639		
8,600.0	7,130.0	8,766.9	7,350.0	30.1	28.1	-103.34	1,308.5	-248.1	953.5	899.3	54.20	17.592		
8,700.0	7,130.0	8,866.9	7,350.0	31.6	29.6	-103.35	1,408.5	-248.1	952.6	895.4	57.24	16.642		
8,800.0	7,130.0	8,966.9	7,350.0	33.0	31.2	-103.37	1,508.5	-248.1	951.8	891.5	60.33	15.777		
8,900.0	7,130.0	9,066.9	7,350.0	34.5	32.8	-103.38	1,608.5	-248.1	950.9	887.5	63.44	14.989		
9,000.0	7,130.0	9,166.9	7,350.0	36.1	34.4	-103.39	1,708.5	-248.1	950.1	883.5	66.59	14.268		
9,100.0	7,130.0	9,266.9	7,350.0	37.6	36.0	-103.40	1,808.5	-248.1	949.2	879.5	69.76	13.608		
9,200.0	7,130.0	9,366.9	7,350.0	39.2	37.6	-103.41	1,908.5	-248.1	948.4	875.4	72.95	13.001		
9,300.0	7,130.0	9,466.9	7,350.0	40.7	39.3	-103.43	2,008.5	-248.1	947.5	871.4	76.16	12.442		
9,400.0	7,130.0	9,566.9	7,350.0	42.3	40.9	-103.44	2,108.5	-248.1	946.7	867.3	79.38	11.925		
9,500.0	7,130.0	9,666.8	7,350.0	43.9	42.6	-103.45	2,208.5	-248.1	945.8	863.2	82.63	11.447		
9,600.0	7,130.0	9,766.8	7,350.0	45.5	44.3	-103.46	2,308.5	-248.1	945.0	859.1	85.88	11.004		
9,700.0	7,130.0	9,866.8	7,350.0	47.2	45.9	-103.48	2,408.5	-248.1	944.1	855.0	89.14	10.591		
9,800.0	7,130.0	9,966.8	7,350.0	48.8	47.6	-103.49	2,508.5	-248.1	943.3	850.9	92.42	10.207		
9,900.0	7,130.0	10,066.8	7,350.0	50.4	49.3	-103.50	2,608.5	-248.1	942.4	846.7	95.70	9.848		
10,000.0	7,130.0	10,166.8	7,350.0	52.1	51.0	-103.51	2,708.5	-248.1	941.6	842.6	98.99	9.512		
10,100.0	7,130.0	10,266.8	7,350.0	53.7	52.7	-103.52	2,808.5	-248.1	940.7	838.5	102.29	9.197		
10,200.0	7,130.0	10,366.8	7,350.0	55.4	54.4	-103.54	2,908.5	-248.1	939.9	834.3	105.60	8.901		
10,300.0	7,130.0	10,466.8	7,350.0	57.1	56.1	-103.55	3,008.5	-248.1	939.0	830.1	108.91	8.622		

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 4I-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 4I-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 #1	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		
10,400.0	7,130.0	10,566.8	7,350.0	58.7	57.8	-103.56	3,108.5	-248.1	938.2	826.0	112.23	8.360		
10,500.0	7,130.0	10,666.8	7,350.0	60.4	59.5	-103.57	3,208.4	-248.1	937.4	821.8	115.55	8.112		
10,600.0	7,130.0	10,766.8	7,350.0	62.1	61.2	-103.59	3,308.4	-248.1	936.5	817.6	118.88	7.878		
10,700.0	7,130.0	10,866.8	7,350.0	63.8	62.9	-103.60	3,408.4	-248.1	935.7	813.4	122.21	7.656		
10,800.0	7,130.0	10,966.8	7,350.0	65.5	64.6	-103.61	3,508.4	-248.1	934.8	809.3	125.54	7.446		
10,900.0	7,130.0	11,066.8	7,350.0	67.2	66.4	-103.62	3,608.4	-248.1	934.0	805.1	128.88	7.247		
11,000.0	7,130.0	11,166.8	7,350.0	68.9	68.1	-103.64	3,708.4	-248.1	933.1	800.9	132.22	7.057		
11,100.0	7,130.0	11,266.8	7,350.0	70.6	69.8	-103.65	3,808.4	-248.1	932.3	796.7	135.56	6.877		
11,200.0	7,130.0	11,366.8	7,350.0	72.3	71.5	-103.66	3,908.4	-248.1	931.4	792.5	138.91	6.705		
11,300.0	7,130.0	11,466.8	7,350.0	74.0	73.2	-103.68	4,008.4	-248.1	930.6	788.3	142.25	6.542		
11,400.0	7,130.0	11,566.8	7,350.0	75.7	75.0	-103.69	4,108.4	-248.1	929.7	784.1	145.60	6.385		
11,500.0	7,130.0	11,666.8	7,350.0	77.4	76.7	-103.70	4,208.4	-248.1	928.9	779.9	148.96	6.236		
11,600.0	7,130.0	11,766.8	7,350.0	79.1	78.4	-103.71	4,308.4	-248.1	928.0	775.7	152.31	6.093		
11,695.8	7,130.0	11,862.6	7,350.0	80.7	80.1	-103.73	4,404.2	-248.1	927.2	771.7	155.52	5.962 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.05	0.4	-22.4	22.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.05	0.4	-22.4	22.4	22.1	0.30	73.621		
200.0	200.0	200.0	200.0	0.3	0.3	-89.05	0.4	-22.4	22.4	21.7	0.65	34.251		
300.0	300.0	300.0	300.0	0.5	0.5	-89.05	0.4	-22.4	22.4	21.4	1.00	22.317		
400.0	400.0	400.0	400.0	0.7	0.7	-89.05	0.4	-22.4	22.4	21.0	1.35	16.550		
500.0	500.0	500.0	500.0	0.8	0.8	-89.05	0.4	-22.4	22.4	20.7	1.70	13.152	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	147.94	0.4	-22.4	23.1	21.0	2.05	11.270		
700.0	700.0	700.0	700.0	1.2	1.2	151.07	0.4	-22.4	25.3	23.0	2.40	10.570		
800.0	799.9	799.9	799.9	1.4	1.4	155.19	0.4	-22.4	29.2	26.5	2.75	10.644		
900.0	899.7	899.7	899.7	1.6	1.5	159.38	0.4	-22.4	34.9	31.8	3.10	11.267		
1,000.0	999.4	999.4	999.4	1.8	1.7	163.10	0.4	-22.4	42.3	38.9	3.44	12.290		
1,100.0	1,098.9	1,098.9	1,098.9	2.0	1.9	166.18	0.4	-22.4	51.6	47.8	3.79	13.610		
1,200.0	1,198.3	1,198.3	1,198.3	2.2	2.1	168.63	0.4	-22.4	62.6	58.5	4.13	15.153		
1,300.0	1,297.4	1,297.4	1,297.4	2.5	2.2	170.56	0.4	-22.4	75.4	70.9	4.48	16.836		
1,400.0	1,396.5	1,396.5	1,396.5	2.8	2.4	171.97	0.4	-22.4	88.5	83.7	4.82	18.359		
1,500.0	1,495.6	1,495.6	1,495.6	3.0	2.6	173.02	0.4	-22.4	101.8	96.6	5.17	19.685		
1,600.0	1,594.7	1,595.6	1,595.6	3.3	2.8	173.48	-0.4	-22.4	114.7	109.1	5.52	20.773		
1,700.0	1,693.8	1,695.9	1,695.8	3.6	2.9	173.14	-3.0	-22.4	126.7	120.9	5.87	21.583		
1,800.0	1,793.0	1,796.3	1,796.1	3.9	3.1	172.21	-7.3	-22.4	138.0	131.8	6.23	22.158		
1,900.0	1,892.1	1,896.7	1,896.4	4.1	3.3	170.81	-13.4	-22.4	148.6	142.0	6.60	22.533		
2,000.0	1,991.2	1,997.2	1,996.6	4.4	3.5	169.01	-21.2	-22.4	158.6	151.6	6.97	22.740		
2,100.0	2,090.3	2,096.6	2,095.6	4.7	3.7	167.15	-29.8	-22.4	168.4	161.0	7.36	22.874		
2,200.0	2,189.4	2,196.0	2,194.6	5.0	3.9	165.51	-38.5	-22.4	178.3	170.5	7.75	22.992		
2,300.0	2,288.5	2,295.4	2,293.6	5.3	4.1	164.03	-47.1	-22.4	188.4	180.2	8.16	23.095		
2,400.0	2,387.6	2,394.8	2,392.6	5.5	4.3	162.71	-55.7	-22.4	198.5	190.0	8.56	23.185		
2,500.0	2,486.7	2,494.1	2,491.6	5.8	4.5	161.52	-64.4	-22.4	208.8	199.8	8.97	23.264		
2,600.0	2,585.8	2,593.5	2,590.6	6.1	4.7	160.43	-73.0	-22.4	219.1	209.7	9.39	23.333		
2,700.0	2,684.9	2,692.9	2,689.6	6.4	4.9	159.45	-81.6	-22.5	229.6	219.7	9.81	23.393		
2,800.0	2,784.0	2,792.3	2,788.7	6.7	5.1	158.55	-90.3	-22.5	240.0	229.8	10.24	23.447		
2,900.0	2,883.1	2,891.7	2,887.7	7.0	5.3	157.73	-98.9	-22.5	250.6	239.9	10.66	23.494		
3,000.0	2,982.2	2,991.0	2,986.7	7.3	5.6	156.97	-107.5	-22.5	261.1	250.0	11.10	23.536		
3,100.0	3,081.3	3,090.4	3,085.7	7.6	5.8	156.27	-116.2	-22.5	271.8	260.2	11.53	23.573		
3,200.0	3,180.4	3,189.8	3,184.7	7.8	6.0	155.63	-124.8	-22.5	282.4	270.5	11.96	23.607		
3,300.0	3,279.6	3,289.2	3,283.7	8.1	6.2	155.03	-133.4	-22.5	293.1	280.7	12.40	23.637		
3,400.0	3,378.7	3,388.6	3,382.7	8.4	6.4	154.47	-142.1	-22.5	303.8	291.0	12.84	23.664		
3,500.0	3,477.8	3,488.0	3,481.7	8.7	6.6	153.96	-150.7	-22.5	314.6	301.3	13.28	23.688		
3,600.0	3,576.9	3,587.3	3,580.7	9.0	6.9	153.47	-159.3	-22.5	325.3	311.6	13.72	23.710		
3,700.0	3,676.0	3,686.7	3,679.7	9.3	7.1	153.02	-168.0	-22.6	336.1	322.0	14.16	23.731		
3,800.0	3,775.1	3,786.1	3,778.7	9.6	7.3	152.59	-176.6	-22.6	346.9	332.3	14.61	23.749		
3,900.0	3,874.2	3,885.5	3,877.7	9.9	7.5	152.19	-185.2	-22.6	357.8	342.7	15.05	23.766		
4,000.0	3,973.3	3,984.9	3,976.7	10.2	7.8	151.82	-193.9	-22.6	368.6	353.1	15.50	23.782		
4,100.0	4,072.4	4,084.3	4,075.7	10.5	8.0	151.46	-202.5	-22.6	379.5	363.5	15.95	23.796		
4,200.0	4,171.5	4,183.6	4,174.7	10.7	8.2	151.13	-211.2	-22.6	390.3	374.0	16.39	23.809		
4,300.0	4,270.6	4,283.0	4,273.7	11.0	8.4	150.81	-219.8	-22.6	401.2	384.4	16.84	23.822		
4,400.0	4,369.7	4,382.4	4,372.8	11.3	8.6	150.51	-228.4	-22.6	412.1	394.8	17.29	23.833		
4,500.0	4,468.8	4,481.8	4,471.8	11.6	8.9	150.23	-237.1	-22.6	423.0	405.3	17.74	23.844		
4,600.0	4,567.9	4,581.2	4,570.8	11.9	9.1	149.96	-245.7	-22.6	434.0	415.8	18.19	23.854		
4,700.0	4,667.0	4,680.5	4,669.8	12.2	9.3	149.70	-254.3	-22.7	444.9	426.2	18.64	23.863		
4,800.0	4,766.2	4,779.9	4,768.8	12.5	9.5	149.46	-263.0	-22.7	455.8	436.7	19.09	23.872		
4,900.0	4,865.3	4,879.3	4,867.8	12.8	9.8	149.23	-271.6	-22.7	466.8	447.2	19.55	23.880		
5,000.0	4,964.4	4,978.7	4,966.8	13.1	10.0	149.00	-280.2	-22.7	477.7	457.7	20.00	23.888		
5,100.0	5,063.5	5,078.1	5,065.8	13.4	10.2	148.79	-288.9	-22.7	488.7	468.2	20.45	23.895		

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 4I-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 4I-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 #1	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: 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	
5,200.0	5,162.6	5,177.5	5,164.8	13.7	10.4	148.59	-297.5	-22.7	499.6	478.7	20.90	23.902		
5,300.0	5,261.7	5,276.8	5,263.8	13.9	10.7	148.39	-306.1	-22.7	510.6	489.2	21.36	23.908		
5,400.0	5,360.8	5,376.2	5,362.8	14.2	10.9	148.21	-314.8	-22.7	521.6	499.8	21.81	23.914		
5,500.0	5,459.9	5,475.6	5,461.8	14.5	11.1	148.03	-323.4	-22.7	532.5	510.3	22.26	23.920		
5,600.0	5,559.0	5,575.0	5,560.8	14.8	11.3	147.86	-332.0	-22.8	543.5	520.8	22.72	23.926		
5,700.0	5,658.1	5,674.4	5,659.8	15.1	11.6	147.69	-340.7	-22.8	554.5	531.3	23.17	23.931		
5,800.0	5,757.2	5,773.7	5,758.8	15.4	11.8	147.54	-349.3	-22.8	565.5	541.9	23.63	23.936		
5,900.0	5,856.3	5,873.1	5,857.8	15.7	12.0	147.38	-357.9	-22.8	576.5	552.4	24.08	23.941		
6,000.0	5,955.4	5,972.5	5,956.9	16.0	12.3	147.24	-366.6	-22.8	587.5	563.0	24.54	23.945		
6,100.0	6,054.5	6,071.9	6,055.9	16.3	12.5	147.10	-375.2	-22.8	598.5	573.5	24.99	23.950		
6,200.0	6,153.6	6,171.3	6,154.9	16.6	12.7	146.96	-383.8	-22.8	609.5	584.1	25.45	23.954		
6,300.0	6,252.8	6,270.7	6,253.9	16.9	12.9	146.83	-392.5	-22.8	620.5	594.6	25.90	23.958		
6,400.0	6,351.9	6,370.0	6,352.9	17.1	13.2	146.70	-401.1	-22.8	631.5	605.2	26.36	23.962		
6,500.0	6,451.2	6,467.7	6,450.4	17.4	13.3	-155.31	-402.8	-22.8	642.6	616.0	26.55	24.204		
6,600.0	6,549.8	6,565.3	6,547.3	17.5	13.3	-118.07	-391.2	-22.9	653.4	626.9	26.50	24.657		
6,700.0	6,645.9	6,663.0	6,641.7	17.5	13.2	-105.46	-366.5	-22.9	663.8	637.5	26.27	25.268		
6,800.0	6,737.5	6,760.8	6,732.0	17.5	13.0	-99.52	-329.1	-22.9	673.6	647.7	25.92	25.986		
6,900.0	6,823.0	6,858.8	6,816.6	17.4	12.8	-96.05	-279.7	-22.9	682.6	657.1	25.53	26.736		
7,000.0	6,900.5	6,957.0	6,893.7	17.4	12.6	-93.78	-219.1	-22.9	690.6	665.4	25.19	27.419		
7,100.0	6,968.7	7,055.4	6,962.1	17.3	12.5	-92.23	-148.3	-22.9	697.5	672.5	24.99	27.911		
7,200.0	7,026.1	7,154.2	7,020.2	17.4	12.5	-91.16	-68.6	-22.9	703.1	678.1	25.03	28.087		
7,300.0	7,071.7	7,253.3	7,067.0	17.5	12.7	-90.45	18.6	-22.9	707.4	682.0	25.40	27.848		
7,400.0	7,104.6	7,352.6	7,101.3	17.8	13.0	-90.04	111.8	-22.9	710.2	684.1	26.14	27.166		
7,500.0	7,124.2	7,452.2	7,122.5	18.3	13.6	-89.90	209.0	-22.9	711.5	684.3	27.27	26.093		
7,600.0	7,130.0	7,552.1	7,130.0	18.9	14.4	-90.00	308.6	-22.9	711.3	682.5	28.75	24.739		
7,700.0	7,130.0	7,652.1	7,130.0	19.6	15.3	-90.00	408.6	-22.9	710.4	679.8	30.63	23.193		
7,800.0	7,130.0	7,752.1	7,130.0	20.4	16.4	-90.00	508.6	-22.9	709.5	676.8	32.76	21.658		
7,900.0	7,130.0	7,852.1	7,130.0	21.4	17.6	-90.00	608.5	-22.9	708.7	673.6	35.11	20.182		
8,000.0	7,130.0	7,952.1	7,130.0	22.4	18.8	-90.00	708.5	-22.9	707.8	670.2	37.65	18.801		
8,100.0	7,130.0	8,052.1	7,130.0	23.5	20.2	-90.00	808.5	-22.9	706.9	666.6	40.33	17.530		
8,200.0	7,130.0	8,152.1	7,130.0	24.7	21.6	-90.00	908.5	-22.9	706.1	662.9	43.13	16.372		
8,300.0	7,130.0	8,252.1	7,130.0	26.0	23.0	-90.00	1,008.5	-22.9	705.2	659.2	46.02	15.323		
8,400.0	7,130.0	8,352.1	7,130.0	27.3	24.5	-90.00	1,108.5	-22.9	704.3	655.3	49.00	14.374		
8,500.0	7,130.0	8,452.1	7,130.0	28.7	26.0	-90.00	1,208.5	-22.9	703.4	651.4	52.04	13.517		
8,600.0	7,130.0	8,552.1	7,130.0	30.1	27.6	-90.00	1,308.5	-22.9	702.6	647.4	55.14	12.742		
8,700.0	7,130.0	8,652.1	7,130.0	31.6	29.2	-90.00	1,408.5	-22.9	701.7	643.4	58.28	12.039		
8,800.0	7,130.0	8,752.1	7,130.0	33.0	30.8	-90.00	1,508.5	-22.9	700.8	639.4	61.47	11.401		
8,900.0	7,130.0	8,852.1	7,130.0	34.5	32.4	-90.00	1,608.5	-22.9	699.9	635.3	64.69	10.821		
9,000.0	7,130.0	8,952.1	7,130.0	36.1	34.0	-90.00	1,708.5	-22.9	699.1	631.1	67.93	10.291		
9,100.0	7,130.0	9,052.1	7,130.0	37.6	35.6	-90.00	1,808.5	-22.9	698.2	627.0	71.20	9.806		
9,200.0	7,130.0	9,152.1	7,130.0	39.2	37.3	-90.00	1,908.5	-22.9	697.3	622.8	74.50	9.361		
9,300.0	7,130.0	9,252.1	7,130.0	40.7	38.9	-90.00	2,008.5	-22.9	696.5	618.7	77.81	8.951		
9,400.0	7,130.0	9,352.1	7,130.0	42.3	40.6	-90.00	2,108.5	-22.9	695.6	614.4	81.14	8.573		
9,500.0	7,130.0	9,452.1	7,130.0	43.9	42.3	-90.00	2,208.5	-22.9	694.7	610.2	84.48	8.224		
9,600.0	7,130.0	9,552.0	7,130.0	45.5	43.9	-90.00	2,308.5	-22.9	693.8	606.0	87.83	7.899		
9,700.0	7,130.0	9,652.0	7,130.0	47.2	45.6	-90.00	2,408.5	-22.9	693.0	601.8	91.20	7.598		
9,800.0	7,130.0	9,752.0	7,130.0	48.8	47.3	-90.00	2,508.5	-22.9	692.1	597.5	94.58	7.318		
9,900.0	7,130.0	9,852.0	7,130.0	50.4	49.0	-90.00	2,608.5	-22.9	691.2	593.3	97.97	7.056		
10,000.0	7,130.0	9,952.0	7,130.0	52.1	50.7	-90.00	2,708.5	-22.9	690.3	589.0	101.36	6.811		
10,100.0	7,130.0	10,052.0	7,130.0	53.7	52.4	-90.00	2,808.5	-22.9	689.5	584.7	104.76	6.581		
10,200.0	7,130.0	10,152.0	7,130.0	55.4	54.1	-90.00	2,908.5	-22.9	688.6	580.4	108.17	6.366		
10,300.0	7,130.0	10,252.0	7,130.0	57.1	55.8	-90.00	3,008.5	-22.9	687.7	576.1	111.59	6.163		

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 4I-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 4I-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 #1	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		
10,400.0	7,130.0	10,352.0	7,130.0	58.7	57.5	-90.00	3,108.5	-22.9	686.9	571.9	115.01	5.972		
10,500.0	7,130.0	10,452.0	7,130.0	60.4	59.2	-90.00	3,208.4	-22.9	686.0	567.6	118.43	5.792		
10,600.0	7,130.0	10,552.0	7,130.0	62.1	61.0	-90.00	3,308.4	-22.9	685.1	563.2	121.86	5.622		
10,700.0	7,130.0	10,652.0	7,130.0	63.8	62.7	-90.00	3,408.4	-22.9	684.2	558.9	125.30	5.461		
10,800.0	7,130.0	10,752.0	7,130.0	65.5	64.4	-90.00	3,508.4	-22.9	683.4	554.6	128.74	5.308		
10,900.0	7,130.0	10,852.0	7,130.0	67.2	66.1	-90.00	3,608.4	-22.9	682.5	550.3	132.18	5.163		
11,000.0	7,130.0	10,952.0	7,130.0	68.9	67.8	-90.00	3,708.4	-22.9	681.6	546.0	135.62	5.026		
11,100.0	7,130.0	11,052.0	7,130.0	70.6	69.6	-90.00	3,808.4	-22.9	680.7	541.7	139.07	4.895		
11,200.0	7,130.0	11,152.0	7,130.0	72.3	71.3	-90.00	3,908.4	-22.9	679.9	537.4	142.53	4.770		
11,300.0	7,130.0	11,252.0	7,130.0	74.0	73.0	-90.00	4,008.4	-22.9	679.0	533.0	145.98	4.651		
11,400.0	7,130.0	11,352.0	7,130.0	75.7	74.8	-90.00	4,108.4	-22.9	678.1	528.7	149.44	4.538		
11,500.0	7,130.0	11,452.0	7,130.0	77.4	76.5	-90.00	4,208.4	-22.9	677.3	524.4	152.90	4.430		
11,600.0	7,130.0	11,552.0	7,130.0	79.1	78.2	-90.00	4,308.4	-22.9	676.4	520.0	156.36	4.326		
11,695.8	7,130.0	11,647.8	7,130.0	80.7	79.9	-90.00	4,404.2	-22.9	675.5	515.9	159.68	4.231 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4G-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	-88.62	0.4	-15.1	15.1					
100.0	100.0	100.0	100.0	0.2	0.2	-88.62	0.4	-15.1	15.1	14.8	0.30	49.702		
200.0	200.0	200.0	200.0	0.3	0.3	-88.62	0.4	-15.1	15.1	14.4	0.65	23.123		
300.0	300.0	300.0	300.0	0.5	0.5	-88.62	0.4	-15.1	15.1	14.1	1.00	15.066		
400.0	400.0	400.0	400.0	0.7	0.7	-88.62	0.4	-15.1	15.1	13.7	1.35	11.173		
500.0	500.0	500.0	500.0	0.8	0.8	-88.62	0.4	-15.1	15.1	13.4	1.70	8.879	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	148.89	0.4	-15.1	15.8	13.8	2.05	7.728		
700.0	700.0	700.0	700.0	1.2	1.2	153.16	0.4	-15.1	18.1	15.7	2.40	7.559		
800.0	799.9	800.1	800.1	1.4	1.4	156.43	-0.4	-14.7	21.6	18.8	2.75	7.855		
900.0	899.7	900.2	900.2	1.6	1.6	157.13	-2.8	-13.6	25.6	22.5	3.10	8.275		
1,000.0	999.4	1,000.4	1,000.3	1.8	1.7	156.24	-6.8	-11.7	30.3	26.8	3.46	8.761		
1,100.0	1,098.9	1,100.6	1,100.3	2.0	1.9	154.43	-12.3	-9.1	35.5	31.7	3.82	9.287		
1,200.0	1,198.3	1,200.7	1,200.0	2.2	2.1	152.26	-19.3	-5.8	41.5	37.2	4.21	9.855		
1,300.0	1,297.4	1,300.4	1,299.4	2.5	2.3	151.21	-26.6	-2.4	48.7	44.1	4.60	10.590		
1,400.0	1,396.5	1,400.1	1,398.8	2.8	2.5	150.65	-34.0	1.1	56.3	51.3	5.00	11.261		
1,500.0	1,495.6	1,499.8	1,498.2	3.0	2.7	150.22	-41.3	4.5	63.8	58.4	5.40	11.824		
1,600.0	1,594.7	1,599.5	1,597.6	3.3	2.9	149.88	-48.6	8.0	71.4	65.6	5.81	12.300		
1,700.0	1,693.8	1,699.2	1,697.0	3.6	3.2	149.60	-55.9	11.4	79.0	72.8	6.22	12.707		
1,800.0	1,793.0	1,799.0	1,796.3	3.9	3.4	149.37	-63.3	14.9	86.6	79.9	6.63	13.060		
1,900.0	1,892.1	1,898.7	1,895.7	4.1	3.6	149.18	-70.6	18.3	94.2	87.1	7.04	13.367		
2,000.0	1,991.2	1,998.4	1,995.1	4.4	3.8	149.02	-77.9	21.7	101.7	94.3	7.46	13.637		
2,100.0	2,090.3	2,098.1	2,094.5	4.7	4.0	148.88	-85.2	25.2	109.3	101.5	7.88	13.875		
2,200.0	2,189.4	2,197.8	2,193.9	5.0	4.2	148.76	-92.6	28.6	116.9	108.6	8.30	14.088		
2,300.0	2,288.5	2,297.5	2,293.3	5.3	4.5	148.66	-99.9	32.1	124.5	115.8	8.72	14.278		
2,400.0	2,387.6	2,397.2	2,392.6	5.5	4.7	148.56	-107.2	35.5	132.1	123.0	9.14	14.449		
2,500.0	2,486.7	2,496.9	2,492.0	5.8	4.9	148.48	-114.5	39.0	139.7	130.1	9.56	14.604		
2,600.0	2,585.8	2,596.6	2,591.4	6.1	5.1	148.40	-121.9	42.4	147.3	137.3	9.99	14.745		
2,700.0	2,684.9	2,696.4	2,690.8	6.4	5.3	148.33	-129.2	45.9	154.9	144.4	10.41	14.874		
2,800.0	2,784.0	2,796.1	2,790.2	6.7	5.6	148.27	-136.5	49.3	162.4	151.6	10.84	14.991		
2,900.0	2,883.1	2,895.8	2,889.6	7.0	5.8	148.22	-143.8	52.8	170.0	158.8	11.26	15.100		
3,000.0	2,982.2	2,995.5	2,988.9	7.3	6.0	148.16	-151.2	56.2	177.6	165.9	11.69	15.199		
3,100.0	3,081.3	3,095.2	3,088.3	7.6	6.2	148.12	-158.5	59.7	185.2	173.1	12.11	15.292		
3,200.0	3,180.4	3,194.9	3,187.7	7.8	6.4	148.07	-165.8	63.1	192.8	180.3	12.54	15.377		
3,300.0	3,279.6	3,294.6	3,287.1	8.1	6.7	148.03	-173.1	66.6	200.4	187.4	12.96	15.457		
3,400.0	3,378.7	3,394.3	3,386.5	8.4	6.9	148.00	-180.5	70.0	208.0	194.6	13.39	15.531		
3,500.0	3,477.8	3,494.0	3,485.9	8.7	7.1	147.96	-187.8	73.5	215.6	201.8	13.82	15.600		
3,600.0	3,576.9	3,593.8	3,585.2	9.0	7.3	147.93	-195.1	76.9	223.2	208.9	14.25	15.665		
3,700.0	3,676.0	3,693.5	3,684.6	9.3	7.6	147.90	-202.4	80.3	230.8	216.1	14.67	15.726		
3,800.0	3,775.1	3,793.2	3,784.0	9.6	7.8	147.87	-209.7	83.8	238.3	223.2	15.10	15.783		
3,900.0	3,874.2	3,892.9	3,883.4	9.9	8.0	147.85	-217.1	87.2	245.9	230.4	15.53	15.837		
4,000.0	3,973.3	3,992.6	3,982.8	10.2	8.2	147.82	-224.4	90.7	253.5	237.6	15.96	15.888		
4,100.0	4,072.4	4,092.3	4,082.1	10.5	8.4	147.80	-231.7	94.1	261.1	244.7	16.38	15.936		
4,200.0	4,171.5	4,192.0	4,181.5	10.7	8.7	147.77	-239.0	97.6	268.7	251.9	16.81	15.981		
4,300.0	4,270.6	4,291.7	4,280.9	11.0	8.9	147.75	-246.4	101.0	276.3	259.0	17.24	16.024		
4,400.0	4,369.7	4,391.5	4,380.3	11.3	9.1	147.73	-253.7	104.5	283.9	266.2	17.67	16.065		
4,500.0	4,468.8	4,491.2	4,479.7	11.6	9.3	147.72	-261.0	107.9	291.5	273.4	18.10	16.104		
4,600.0	4,567.9	4,590.9	4,579.1	11.9	9.6	147.70	-268.3	111.4	299.1	280.5	18.53	16.141		
4,700.0	4,667.0	4,690.6	4,678.4	12.2	9.8	147.68	-275.7	114.8	306.6	287.7	18.96	16.176		
4,800.0	4,766.2	4,790.3	4,777.8	12.5	10.0	147.66	-283.0	118.3	314.2	294.9	19.39	16.210		
4,900.0	4,865.3	4,890.0	4,877.2	12.8	10.2	147.65	-290.3	121.7	321.8	302.0	19.81	16.242		
5,000.0	4,964.4	4,989.7	4,976.6	13.1	10.5	147.63	-297.6	125.2	329.4	309.2	20.24	16.273		
5,100.0	5,063.5	5,089.4	5,076.0	13.4	10.7	147.62	-305.0	128.6	337.0	316.3	20.67	16.302		

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

Anticollision Report

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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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4G-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	5,162.6	5,189.1	5,175.4	13.7	10.9	147.61	-312.3	132.0	344.6	323.5	21.10	16.330		
5,300.0	5,261.7	5,288.9	5,274.7	13.9	11.1	147.59	-319.6	135.5	352.2	330.7	21.53	16.357		
5,400.0	5,360.8	5,388.6	5,374.1	14.2	11.3	147.58	-326.9	138.9	359.8	337.8	21.96	16.382		
5,500.0	5,459.9	5,488.3	5,473.5	14.5	11.6	147.57	-334.3	142.4	367.4	345.0	22.39	16.407		
5,600.0	5,559.0	5,588.0	5,572.9	14.8	11.8	147.56	-341.6	145.8	375.0	352.1	22.82	16.431		
5,700.0	5,658.1	5,687.7	5,672.3	15.1	12.0	147.55	-348.9	149.3	382.5	359.3	23.25	16.454		
5,800.0	5,757.2	5,787.4	5,771.6	15.4	12.2	147.54	-356.2	152.7	390.1	366.5	23.68	16.476		
5,900.0	5,856.3	5,887.1	5,871.0	15.7	12.5	147.53	-363.6	156.2	397.7	373.6	24.11	16.497		
6,000.0	5,955.4	5,986.8	5,970.4	16.0	12.7	147.52	-370.9	159.6	405.3	380.8	24.54	16.517		
6,100.0	6,054.5	6,086.5	6,069.8	16.3	12.9	147.51	-378.2	163.1	412.9	387.9	24.97	16.537		
6,200.0	6,153.6	6,186.3	6,169.2	16.6	13.1	147.50	-385.5	166.5	420.5	395.1	25.40	16.556		
6,300.0	6,252.8	6,286.0	6,268.6	16.9	13.4	147.49	-392.9	170.0	428.1	402.3	25.83	16.574		
6,400.0	6,351.9	6,385.7	6,367.9	17.1	13.6	147.48	-400.2	173.4	435.7	409.4	26.26	16.592		
6,500.0	6,451.2	6,484.8	6,466.7	17.4	13.8	-155.39	-406.6	176.8	443.1	416.5	26.60	16.657		
6,600.0	6,549.8	6,583.5	6,565.2	17.5	13.9	-119.36	-402.2	180.3	450.4	423.7	26.74	16.842		
6,700.0	6,645.9	6,683.2	6,663.1	17.5	13.8	-107.92	-384.1	183.6	457.5	430.9	26.66	17.161		
6,800.0	6,737.5	6,784.0	6,758.6	17.5	13.7	-103.07	-352.1	187.0	464.3	437.9	26.40	17.590		
6,900.0	6,823.0	6,885.9	6,849.6	17.4	13.5	-100.60	-306.5	190.1	470.6	444.6	26.01	18.089		
7,000.0	6,900.5	6,989.0	6,934.1	17.4	13.4	-99.24	-247.7	193.0	476.3	450.7	25.61	18.598		
7,100.0	6,968.7	7,093.1	7,010.0	17.3	13.2	-98.48	-176.6	195.7	481.2	455.9	25.29	19.026		
7,200.0	7,026.1	7,198.2	7,075.4	17.4	13.2	-98.07	-94.5	197.9	485.3	460.1	25.19	19.262		
7,300.0	7,071.7	7,304.3	7,128.4	17.5	13.3	-97.90	-2.8	199.8	488.4	462.9	25.43	19.201		
7,400.0	7,104.6	7,411.1	7,167.7	17.8	13.6	-97.89	96.5	201.1	490.4	464.3	26.11	18.786		
7,500.0	7,124.2	7,518.5	7,191.8	18.3	14.2	-98.00	201.1	202.0	491.4	464.1	27.24	18.038		
7,600.0	7,130.0	7,626.4	7,200.0	18.9	15.0	-98.19	308.5	202.3	491.1	462.3	28.80	17.051		
7,700.0	7,130.0	7,726.4	7,200.0	19.6	15.9	-98.21	408.6	202.3	490.3	459.6	30.64	15.998		
7,800.0	7,130.0	7,826.4	7,200.0	20.4	16.9	-98.22	508.6	202.3	489.4	456.7	32.74	14.949		
7,900.0	7,130.0	7,926.4	7,200.0	21.4	18.1	-98.24	608.5	202.3	488.5	453.5	35.05	13.937		
8,000.0	7,130.0	8,026.4	7,200.0	22.4	19.3	-98.25	708.5	202.3	487.7	450.1	37.54	12.989		
8,100.0	7,130.0	8,126.4	7,200.0	23.5	20.6	-98.27	808.5	202.3	486.8	446.6	40.18	12.115		
8,200.0	7,130.0	8,226.4	7,200.0	24.7	22.0	-98.28	908.5	202.3	485.9	443.0	42.94	11.317		
8,300.0	7,130.0	8,326.4	7,200.0	26.0	23.4	-98.30	1,008.5	202.3	485.1	439.3	45.79	10.593		
8,400.0	7,130.0	8,426.4	7,200.0	27.3	24.9	-98.31	1,108.5	202.3	484.2	435.5	48.73	9.938		
8,500.0	7,130.0	8,526.4	7,200.0	28.7	26.4	-98.33	1,208.5	202.3	483.4	431.6	51.73	9.345		
8,600.0	7,130.0	8,626.4	7,200.0	30.1	27.9	-98.34	1,308.5	202.3	482.5	427.7	54.78	8.808		
8,700.0	7,130.0	8,726.4	7,200.0	31.6	29.5	-98.36	1,408.5	202.3	481.6	423.7	57.88	8.321		
8,800.0	7,130.0	8,826.4	7,200.0	33.0	31.1	-98.37	1,508.5	202.3	480.8	419.7	61.02	7.878		
8,900.0	7,130.0	8,926.4	7,200.0	34.5	32.7	-98.39	1,608.5	202.3	479.9	415.7	64.20	7.475		
9,000.0	7,130.0	9,026.4	7,200.0	36.1	34.3	-98.40	1,708.5	202.3	479.0	411.6	67.40	7.107		
9,100.0	7,130.0	9,126.4	7,200.0	37.6	35.9	-98.42	1,808.5	202.3	478.2	407.5	70.63	6.770		
9,200.0	7,130.0	9,226.4	7,200.0	39.2	37.5	-98.43	1,908.5	202.3	477.3	403.4	73.88	6.461		
9,300.0	7,130.0	9,326.4	7,200.0	40.7	39.2	-98.45	2,008.5	202.3	476.4	399.3	77.15	6.176		
9,400.0	7,130.0	9,426.4	7,200.0	42.3	40.8	-98.46	2,108.5	202.3	475.6	395.1	80.43	5.913		
9,500.0	7,130.0	9,526.4	7,200.0	43.9	42.5	-98.48	2,208.5	202.3	474.7	391.0	83.73	5.669		
9,600.0	7,130.0	9,626.4	7,200.0	45.5	44.2	-98.50	2,308.5	202.3	473.9	386.8	87.05	5.444		
9,700.0	7,130.0	9,726.4	7,200.0	47.2	45.9	-98.51	2,408.5	202.3	473.0	382.6	90.37	5.234		
9,800.0	7,130.0	9,826.4	7,200.0	48.8	47.5	-98.53	2,508.5	202.3	472.1	378.4	93.70	5.039		
9,900.0	7,130.0	9,926.4	7,200.0	50.4	49.2	-98.54	2,608.5	202.3	471.3	374.2	97.04	4.856		
10,000.0	7,130.0	10,026.4	7,200.0	52.1	50.9	-98.56	2,708.5	202.3	470.4	370.0	100.40	4.685		
10,100.0	7,130.0	10,126.4	7,200.0	53.7	52.6	-98.57	2,808.5	202.3	469.5	365.8	103.75	4.526		
10,200.0	7,130.0	10,226.4	7,200.0	55.4	54.3	-98.59	2,908.5	202.3	468.7	361.6	107.12	4.375		
10,300.0	7,130.0	10,326.3	7,200.0	57.1	56.0	-98.61	3,008.5	202.3	467.8	357.3	110.49	4.234		

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 4I-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 4I-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 #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4G-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	7,130.0	10,426.3	7,200.0	58.7	57.7	-98.62	3,108.5	202.3	467.0	353.1	113.86	4.101		
10,500.0	7,130.0	10,526.3	7,200.0	60.4	59.4	-98.64	3,208.4	202.3	466.1	348.8	117.25	3.975		
10,600.0	7,130.0	10,626.3	7,200.0	62.1	61.1	-98.65	3,308.4	202.3	465.2	344.6	120.63	3.857		
10,700.0	7,130.0	10,726.3	7,200.0	63.8	62.9	-98.67	3,408.4	202.3	464.4	340.3	124.02	3.744		
10,800.0	7,130.0	10,826.3	7,200.0	65.5	64.6	-98.69	3,508.4	202.3	463.5	336.1	127.41	3.638		
10,900.0	7,130.0	10,926.3	7,200.0	67.2	66.3	-98.70	3,608.4	202.3	462.6	331.8	130.81	3.537		
11,000.0	7,130.0	11,026.3	7,200.0	68.9	68.0	-98.72	3,708.4	202.3	461.8	327.6	134.21	3.441		
11,100.0	7,130.0	11,126.3	7,200.0	70.6	69.7	-98.74	3,808.4	202.3	460.9	323.3	137.61	3.349		
11,200.0	7,130.0	11,226.3	7,200.0	72.3	71.4	-98.75	3,908.4	202.3	460.0	319.0	141.02	3.262		
11,300.0	7,130.0	11,326.3	7,200.0	74.0	73.2	-98.77	4,008.4	202.3	459.2	314.8	144.42	3.179		
11,400.0	7,130.0	11,426.3	7,200.0	75.7	74.9	-98.79	4,108.4	202.3	458.3	310.5	147.83	3.100		
11,500.0	7,130.0	11,526.3	7,200.0	77.4	76.6	-98.80	4,208.4	202.3	457.5	306.2	151.24	3.025		
11,600.0	7,130.0	11,626.3	7,200.0	79.1	78.4	-98.82	4,308.4	202.3	456.6	301.9	154.66	2.952		
11,695.8	7,130.0	11,722.1	7,200.0	80.7	80.0	-98.84	4,404.2	202.3	455.8	297.8	157.93	2.886 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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		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	-89.94	0.0	-7.5	7.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-7.5	7.5	7.2	0.30	24.844		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-7.5	7.5	6.9	0.65	11.558		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-7.5	7.5	6.5	1.00	7.531		
400.0	400.0	400.0	400.0	0.7	0.7	-89.94	0.0	-7.5	7.5	6.2	1.35	5.585		
500.0	500.0	500.0	500.0	0.8	0.8	-89.94	0.0	-7.5	7.5	5.8	1.70	4.438 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	149.25	0.0	-7.5	8.3	6.2	2.05	4.042		
700.0	700.0	700.1	700.1	1.2	1.2	153.51	-0.6	-6.9	9.9	7.5	2.40	4.138		
800.0	799.9	800.2	800.2	1.4	1.4	154.91	-2.5	-5.2	11.8	9.1	2.75	4.293		
900.0	899.7	900.4	900.2	1.6	1.6	154.54	-5.7	-2.2	13.9	10.8	3.10	4.473		
1,000.0	999.4	1,000.6	1,000.2	1.8	1.8	153.09	-10.2	2.0	16.2	12.7	3.47	4.667		
1,100.0	1,098.9	1,100.8	1,100.1	2.0	2.0	151.02	-16.0	7.4	18.7	14.8	3.84	4.867		
1,200.0	1,198.3	1,200.9	1,199.8	2.2	2.2	148.85	-22.9	13.9	21.5	17.3	4.23	5.094		
1,300.0	1,297.4	1,300.8	1,299.2	2.5	2.4	148.66	-30.0	20.6	25.6	21.0	4.62	5.534		
1,400.0	1,396.5	1,400.7	1,398.6	2.8	2.6	148.91	-37.2	27.2	29.9	24.9	5.02	5.966		
1,500.0	1,495.6	1,500.6	1,498.1	3.0	2.8	149.10	-44.3	33.9	34.3	28.9	5.42	6.332		
1,600.0	1,594.7	1,600.5	1,597.5	3.3	3.1	149.25	-51.5	40.6	38.7	32.9	5.82	6.644		
1,700.0	1,693.8	1,700.4	1,696.9	3.6	3.3	149.37	-58.6	47.3	43.1	36.8	6.23	6.913		
1,800.0	1,793.0	1,800.3	1,796.3	3.9	3.5	149.47	-65.8	54.0	47.4	40.8	6.63	7.148		
1,900.0	1,892.1	1,900.2	1,895.8	4.1	3.8	149.55	-72.9	60.7	51.8	44.7	7.04	7.354		
2,000.0	1,991.2	2,000.1	1,995.2	4.4	4.0	149.61	-80.1	67.4	56.2	48.7	7.45	7.536		
2,100.0	2,090.3	2,100.0	2,094.6	4.7	4.2	149.67	-87.2	74.0	60.5	52.7	7.86	7.699		
2,200.0	2,189.4	2,199.9	2,194.0	5.0	4.5	149.72	-94.4	80.7	64.9	56.6	8.27	7.844		
2,300.0	2,288.5	2,299.8	2,293.5	5.3	4.7	149.77	-101.5	87.4	69.3	60.6	8.69	7.975		
2,400.0	2,387.6	2,399.7	2,392.9	5.5	5.0	149.81	-108.7	94.1	73.6	64.5	9.10	8.094		
2,500.0	2,486.7	2,499.6	2,492.3	5.8	5.2	149.84	-115.8	100.8	78.0	68.5	9.51	8.202		
2,600.0	2,585.8	2,599.5	2,591.7	6.1	5.4	149.87	-123.0	107.5	82.4	72.5	9.92	8.301		
2,700.0	2,684.9	2,699.5	2,691.2	6.4	5.7	149.90	-130.1	114.2	86.7	76.4	10.34	8.391		
2,800.0	2,784.0	2,799.4	2,790.6	6.7	5.9	149.92	-137.3	120.8	91.1	80.4	10.75	8.474		
2,900.0	2,883.1	2,899.3	2,890.0	7.0	6.2	149.94	-144.4	127.5	95.5	84.3	11.17	8.551		
3,000.0	2,982.2	2,999.2	2,989.4	7.3	6.4	149.97	-151.6	134.2	99.9	88.3	11.58	8.622		
3,100.0	3,081.3	3,099.1	3,088.8	7.6	6.6	149.98	-158.7	140.9	104.2	92.2	12.00	8.688		
3,200.0	3,180.4	3,199.0	3,188.3	7.8	6.9	150.00	-165.9	147.6	108.6	96.2	12.41	8.749		
3,300.0	3,279.6	3,298.9	3,287.7	8.1	7.1	150.02	-173.0	154.3	113.0	100.1	12.83	8.807		
3,400.0	3,378.7	3,398.8	3,387.1	8.4	7.4	150.03	-180.2	161.0	117.3	104.1	13.24	8.860		
3,500.0	3,477.8	3,498.7	3,486.5	8.7	7.6	150.05	-187.3	167.6	121.7	108.0	13.66	8.910		
3,600.0	3,576.9	3,598.6	3,586.0	9.0	7.9	150.06	-194.5	174.3	126.1	112.0	14.07	8.958		
3,700.0	3,676.0	3,698.5	3,685.4	9.3	8.1	150.07	-201.6	181.0	130.4	116.0	14.49	9.002		
3,800.0	3,775.1	3,798.4	3,784.8	9.6	8.3	150.08	-208.8	187.7	134.8	119.9	14.91	9.044		
3,900.0	3,874.2	3,898.3	3,884.2	9.9	8.6	150.09	-215.9	194.4	139.2	123.9	15.32	9.083		
4,000.0	3,973.3	3,998.2	3,983.7	10.2	8.8	150.10	-223.1	201.1	143.6	127.8	15.74	9.120		
4,100.0	4,072.4	4,098.1	4,083.1	10.5	9.1	150.11	-230.2	207.8	147.9	131.8	16.16	9.156		
4,200.0	4,171.5	4,198.0	4,182.5	10.7	9.3	150.12	-237.4	214.4	152.3	135.7	16.57	9.189		
4,300.0	4,270.6	4,297.9	4,281.9	11.0	9.5	150.13	-244.5	221.1	156.7	139.7	16.99	9.221		
4,400.0	4,369.7	4,397.8	4,381.4	11.3	9.8	150.14	-251.7	227.8	161.0	143.6	17.41	9.251		
4,500.0	4,468.8	4,497.7	4,480.8	11.6	10.0	150.14	-258.8	234.5	165.4	147.6	17.82	9.280		
4,600.0	4,567.9	4,597.6	4,580.2	11.9	10.3	150.15	-266.0	241.2	169.8	151.5	18.24	9.307		
4,700.0	4,667.0	4,697.5	4,679.6	12.2	10.5	150.16	-273.1	247.9	174.1	155.5	18.66	9.333		
4,800.0	4,766.2	4,797.4	4,779.1	12.5	10.8	150.16	-280.3	254.6	178.5	159.4	19.07	9.358		
4,900.0	4,865.3	4,897.3	4,878.5	12.8	11.0	150.17	-287.4	261.3	182.9	163.4	19.49	9.382		
5,000.0	4,964.4	4,997.3	4,977.9	13.1	11.3	150.18	-294.6	267.9	187.2	167.3	19.91	9.405		
5,100.0	5,063.5	5,097.2	5,077.3	13.4	11.5	150.18	-301.7	274.6	191.6	171.3	20.33	9.427		

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 4I-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 4I-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 #1	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				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	5,162.6	5,197.1	5,176.7	13.7	11.7	150.19	-308.9	281.3	196.0	175.2	20.74	9.448		
5,300.0	5,261.7	5,297.0	5,276.2	13.9	12.0	150.19	-316.0	288.0	200.4	179.2	21.16	9.468		
5,400.0	5,360.8	5,396.9	5,375.6	14.2	12.2	150.20	-323.2	294.7	204.7	183.1	21.58	9.488		
5,500.0	5,459.9	5,496.8	5,475.0	14.5	12.5	150.20	-330.3	301.4	209.1	187.1	22.00	9.506		
5,600.0	5,559.0	5,596.7	5,574.4	14.8	12.7	150.21	-337.5	308.1	213.5	191.1	22.41	9.524		
5,700.0	5,658.1	5,696.6	5,673.9	15.1	13.0	150.21	-344.6	314.7	217.8	195.0	22.83	9.541		
5,800.0	5,757.2	5,796.5	5,773.3	15.4	13.2	150.21	-351.8	321.4	222.2	199.0	23.25	9.558		
5,900.0	5,856.3	5,896.4	5,872.7	15.7	13.4	150.22	-358.9	328.1	226.6	202.9	23.67	9.574		
6,000.0	5,955.4	5,996.3	5,972.1	16.0	13.7	150.22	-366.1	334.8	230.9	206.9	24.08	9.589		
6,100.0	6,054.5	6,096.2	6,071.6	16.3	13.9	150.22	-373.2	341.5	235.3	210.8	24.50	9.604		
6,200.0	6,153.6	6,196.1	6,171.0	16.6	14.2	150.23	-380.4	348.2	239.7	214.8	24.92	9.619		
6,300.0	6,252.8	6,296.0	6,270.4	16.9	14.4	150.23	-387.5	354.9	244.1	218.7	25.34	9.632		
6,400.0	6,351.9	6,395.9	6,369.8	17.1	14.7	150.23	-394.6	361.5	248.4	222.7	25.75	9.646		
6,500.0	6,451.2	6,495.6	6,469.1	17.4	14.9	-153.51	-401.8	368.2	252.4	226.1	26.26	9.611		
6,600.0	6,549.8	6,593.7	6,566.6	17.5	15.1	-120.98	-408.8	374.8	256.2	229.1	27.10	9.454		
6,700.0	6,645.9	6,692.0	6,664.7	17.5	15.3	-114.70	-411.3	381.4	262.2	234.2	27.93	9.388		
6,800.0	6,737.5	6,794.6	6,766.3	17.5	15.4	-114.81	-399.8	388.2	270.7	242.4	28.26	9.576		
6,900.0	6,823.0	6,901.9	6,869.7	17.4	15.4	-116.89	-372.3	395.2	281.2	253.1	28.05	10.026		
7,000.0	6,900.5	7,014.4	6,972.4	17.4	15.2	-119.58	-327.3	402.1	293.0	265.7	27.31	10.729		
7,100.0	6,968.7	7,132.2	7,071.0	17.3	15.1	-122.30	-263.4	408.7	305.3	279.1	26.20	11.649		
7,200.0	7,026.1	7,255.6	7,161.7	17.4	14.9	-124.79	-180.2	414.8	317.0	292.0	24.98	12.690		
7,300.0	7,071.7	7,384.4	7,239.7	17.5	14.9	-126.89	-78.1	420.0	327.2	303.3	23.96	13.655		
7,400.0	7,104.6	7,517.8	7,299.9	17.8	15.2	-128.52	40.7	424.1	335.1	311.6	23.55	14.231		
7,500.0	7,124.2	7,654.7	7,337.7	18.3	15.7	-129.62	172.1	426.6	340.0	315.9	24.03	14.147		
7,600.0	7,130.0	7,792.0	7,350.0	18.9	16.6	-130.14	308.6	427.5	341.3	315.8	25.50	13.383		
7,700.0	7,130.0	7,892.0	7,350.0	19.6	17.4	-130.23	408.6	427.5	340.6	313.8	26.88	12.674		
7,800.0	7,130.0	7,992.0	7,350.0	20.4	18.4	-130.33	508.6	427.5	340.0	311.5	28.43	11.958		
7,900.0	7,130.0	8,092.0	7,350.0	21.4	19.5	-130.42	608.5	427.5	339.3	309.2	30.13	11.259		
8,000.0	7,130.0	8,192.0	7,350.0	22.4	20.6	-130.52	708.5	427.5	338.6	306.7	31.97	10.593		
8,100.0	7,130.0	8,292.0	7,350.0	23.5	21.9	-130.61	808.5	427.5	338.0	304.1	33.90	9.969		
8,200.0	7,130.0	8,392.0	7,350.0	24.7	23.2	-130.71	908.5	427.5	337.3	301.4	35.92	9.389		
8,300.0	7,130.0	8,492.0	7,350.0	26.0	24.5	-130.81	1,008.5	427.5	336.6	298.6	38.02	8.855		
8,400.0	7,130.0	8,591.9	7,350.0	27.3	25.9	-130.90	1,108.5	427.5	336.0	295.8	40.17	8.365		
8,500.0	7,130.0	8,691.9	7,350.0	28.7	27.4	-131.00	1,208.5	427.5	335.3	293.0	42.36	7.915		
8,600.0	7,130.0	8,791.9	7,350.0	30.1	28.9	-131.10	1,308.5	427.5	334.7	290.1	44.60	7.504		
8,700.0	7,130.0	8,891.9	7,350.0	31.6	30.4	-131.20	1,408.5	427.5	334.0	287.1	46.87	7.127		
8,800.0	7,130.0	8,991.9	7,350.0	33.0	31.9	-131.30	1,508.5	427.5	333.4	284.2	49.16	6.781		
8,900.0	7,130.0	9,091.9	7,350.0	34.5	33.5	-131.40	1,608.5	427.5	332.7	281.2	51.48	6.463		
9,000.0	7,130.0	9,191.9	7,350.0	36.1	35.0	-131.50	1,708.5	427.5	332.0	278.2	53.81	6.171		
9,100.0	7,130.0	9,291.9	7,350.0	37.6	36.6	-131.60	1,808.5	427.5	331.4	275.2	56.16	5.901		
9,200.0	7,130.0	9,391.9	7,350.0	39.2	38.2	-131.70	1,908.5	427.5	330.7	272.2	58.52	5.652		
9,300.0	7,130.0	9,491.9	7,350.0	40.7	39.9	-131.80	2,008.5	427.5	330.1	269.2	60.88	5.422		
9,400.0	7,130.0	9,591.9	7,350.0	42.3	41.5	-131.90	2,108.5	427.5	329.4	266.2	63.26	5.208		
9,500.0	7,130.0	9,691.9	7,350.0	43.9	43.1	-132.00	2,208.5	427.5	328.8	263.2	65.64	5.009		
9,600.0	7,130.0	9,791.9	7,350.0	45.5	44.8	-132.10	2,308.5	427.5	328.1	260.1	68.02	4.824		
9,700.0	7,130.0	9,891.9	7,350.0	47.2	46.4	-132.20	2,408.5	427.5	327.5	257.1	70.40	4.652		
9,800.0	7,130.0	9,991.9	7,350.0	48.8	48.1	-132.31	2,508.5	427.5	326.9	254.1	72.79	4.491		
9,900.0	7,130.0	10,091.9	7,350.0	50.4	49.8	-132.41	2,608.5	427.5	326.2	251.0	75.17	4.340		
10,000.0	7,130.0	10,191.9	7,350.0	52.1	51.4	-132.51	2,708.5	427.5	325.6	248.0	77.55	4.198		
10,100.0	7,130.0	10,291.9	7,350.0	53.7	53.1	-132.62	2,808.5	427.5	324.9	245.0	79.93	4.065		
10,200.0	7,130.0	10,391.9	7,350.0	55.4	54.8	-132.72	2,908.5	427.5	324.3	242.0	82.31	3.940		
10,300.0	7,130.0	10,491.9	7,350.0	57.1	56.5	-132.83	3,008.5	427.5	323.6	238.9	84.69	3.822		

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 4I-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 4I-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 #1	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 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	7,130.0	10,591.9	7,350.0	58.7	58.2	-132.93	3,108.5	427.5	323.0	235.9	87.06	3.710				
10,500.0	7,130.0	10,691.9	7,350.0	60.4	59.9	-133.04	3,208.4	427.5	322.4	232.9	89.43	3.605				
10,600.0	7,130.0	10,791.9	7,350.0	62.1	61.6	-133.14	3,308.4	427.5	321.7	229.9	91.79	3.505				
10,700.0	7,130.0	10,891.9	7,350.0	63.8	63.3	-133.25	3,408.4	427.5	321.1	226.9	94.15	3.411				
10,800.0	7,130.0	10,991.9	7,350.0	65.5	65.0	-133.36	3,508.4	427.5	320.5	224.0	96.50	3.321				
10,900.0	7,130.0	11,091.9	7,350.0	67.2	66.7	-133.46	3,608.4	427.5	319.8	221.0	98.84	3.236				
11,000.0	7,130.0	11,191.8	7,350.0	68.9	68.4	-133.57	3,708.4	427.5	319.2	218.0	101.18	3.155				
11,100.0	7,130.0	11,291.8	7,350.0	70.6	70.1	-133.68	3,808.4	427.5	318.6	215.0	103.51	3.077				
11,200.0	7,130.0	11,391.8	7,350.0	72.3	71.8	-133.79	3,908.4	427.5	317.9	212.1	105.83	3.004				
11,300.0	7,130.0	11,491.8	7,350.0	74.0	73.6	-133.90	4,008.4	427.5	317.3	209.1	108.15	2.934				
11,400.0	7,130.0	11,591.8	7,350.0	75.7	75.3	-134.01	4,108.4	427.5	316.7	206.2	110.46	2.867				
11,500.0	7,130.0	11,691.8	7,350.0	77.4	77.0	-134.12	4,208.4	427.5	316.0	203.3	112.76	2.803				
11,600.0	7,130.0	11,791.8	7,350.0	79.1	78.7	-134.23	4,308.4	427.5	315.4	200.4	115.05	2.741				
11,695.8	7,130.0	11,887.6	7,350.0	80.7	80.4	-134.33	4,404.2	427.5	314.8	197.6	117.24	2.685 SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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		
0.0	0.0	0.0	0.0	0.0	0.0	90.06	0.0	7.5	7.5					
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	7.5	7.5	7.2	0.30	24.844		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	7.5	7.5	6.9	0.65	11.558		
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	7.5	7.5	6.5	1.00	7.531		
400.0	400.0	400.0	400.0	0.7	0.7	90.06	0.0	7.5	7.5	6.2	1.35	5.585 CC, ES		
500.0	500.0	499.9	499.9	0.8	0.9	93.02	-0.4	8.3	8.3	6.6	1.70	4.891		
600.0	600.0	599.7	599.7	1.0	1.0	-27.05	-1.7	10.6	9.9	7.9	2.05	4.847		
700.0	700.0	699.5	699.4	1.2	1.2	-24.73	-3.9	14.4	11.6	9.2	2.40	4.852		
800.0	799.9	799.3	799.0	1.4	1.4	-23.58	-6.9	19.6	13.4	10.7	2.75	4.875		
900.0	899.7	899.1	898.4	1.6	1.6	-23.20	-10.7	26.4	15.2	12.1	3.10	4.905		
1,000.0	999.4	998.8	997.7	1.8	1.8	-23.35	-15.4	34.7	17.1	13.6	3.46	4.937		
1,100.0	1,098.9	1,098.5	1,096.7	2.0	2.1	-23.87	-21.0	44.5	19.0	15.2	3.82	4.967		
1,200.0	1,198.3	1,198.1	1,195.5	2.2	2.3	-24.65	-27.4	55.8	21.0	16.8	4.20	4.993		
1,300.0	1,297.4	1,297.9	1,294.3	2.5	2.6	-25.69	-34.5	68.5	22.9	18.3	4.58	4.994		
1,400.0	1,396.5	1,397.9	1,393.1	2.8	2.9	-26.76	-41.8	81.4	24.7	19.7	4.98	4.962		
1,500.0	1,495.6	1,497.9	1,492.0	3.0	3.2	-27.68	-49.1	94.2	26.5	21.2	5.38	4.930		
1,600.0	1,594.7	1,597.8	1,590.9	3.3	3.5	-28.48	-56.4	107.1	28.4	22.6	5.79	4.898		
1,700.0	1,693.8	1,697.8	1,689.8	3.6	3.8	-29.18	-63.7	120.0	30.2	24.0	6.21	4.867		
1,800.0	1,793.0	1,797.8	1,788.7	3.9	4.1	-29.80	-71.0	132.9	32.1	25.4	6.63	4.837		
1,900.0	1,892.1	1,897.8	1,887.5	4.1	4.4	-30.36	-78.3	145.8	33.9	26.9	7.05	4.809		
2,000.0	1,991.2	1,997.8	1,986.4	4.4	4.7	-30.85	-85.6	158.6	35.8	28.3	7.48	4.782		
2,100.0	2,090.3	2,097.8	2,085.3	4.7	5.0	-31.30	-92.9	171.5	37.6	29.7	7.91	4.756		
2,200.0	2,189.4	2,197.7	2,184.2	5.0	5.3	-31.71	-100.2	184.4	39.5	31.1	8.34	4.732		
2,300.0	2,288.5	2,297.7	2,283.1	5.3	5.6	-32.08	-107.5	197.3	41.3	32.5	8.78	4.709		
2,400.0	2,387.6	2,397.7	2,381.9	5.5	5.9	-32.41	-114.8	210.2	43.2	34.0	9.21	4.687		
2,500.0	2,486.7	2,497.7	2,480.8	5.8	6.2	-32.72	-122.1	223.0	45.0	35.4	9.65	4.667		
2,600.0	2,585.8	2,597.7	2,579.7	6.1	6.5	-33.01	-129.4	235.9	46.9	36.8	10.09	4.647		
2,700.0	2,684.9	2,697.7	2,678.6	6.4	6.9	-33.27	-136.7	248.8	48.8	38.2	10.53	4.629		
2,800.0	2,784.0	2,797.6	2,777.5	6.7	7.2	-33.52	-144.0	261.7	50.6	39.6	10.98	4.612		
2,900.0	2,883.1	2,897.6	2,876.3	7.0	7.5	-33.74	-151.3	274.6	52.5	41.1	11.42	4.595		
3,000.0	2,982.2	2,997.6	2,975.2	7.3	7.8	-33.95	-158.6	287.5	54.4	42.5	11.87	4.580		
3,100.0	3,081.3	3,097.6	3,074.1	7.6	8.1	-34.15	-165.9	300.3	56.2	43.9	12.32	4.565		
3,200.0	3,180.4	3,197.6	3,173.0	7.8	8.4	-34.34	-173.2	313.2	58.1	45.3	12.76	4.551		
3,300.0	3,279.6	3,297.5	3,271.9	8.1	8.7	-34.51	-180.5	326.1	60.0	46.7	13.21	4.538		
3,400.0	3,378.7	3,397.5	3,370.7	8.4	9.0	-34.67	-187.8	339.0	61.8	48.2	13.66	4.525		
3,500.0	3,477.8	3,497.5	3,469.6	8.7	9.3	-34.82	-195.1	351.9	63.7	49.6	14.11	4.513		
3,600.0	3,576.9	3,597.5	3,568.5	9.0	9.6	-34.97	-202.4	364.7	65.6	51.0	14.56	4.502		
3,700.0	3,676.0	3,697.5	3,667.4	9.3	10.0	-35.10	-209.7	377.6	67.4	52.4	15.01	4.491		
3,800.0	3,775.1	3,797.5	3,766.3	9.6	10.3	-35.23	-217.0	390.5	69.3	53.8	15.46	4.481		
3,900.0	3,874.2	3,897.4	3,865.1	9.9	10.6	-35.36	-224.3	403.4	71.2	55.2	15.92	4.471		
4,000.0	3,973.3	3,997.4	3,964.0	10.2	10.9	-35.47	-231.6	416.3	73.0	56.7	16.37	4.462		
4,100.0	4,072.4	4,097.4	4,062.9	10.5	11.2	-35.58	-238.9	429.2	74.9	58.1	16.82	4.453		
4,200.0	4,171.5	4,197.4	4,161.8	10.7	11.5	-35.69	-246.2	442.0	76.8	59.5	17.28	4.444		
4,300.0	4,270.6	4,297.4	4,260.7	11.0	11.8	-35.79	-253.5	454.9	78.6	60.9	17.73	4.436		
4,400.0	4,369.7	4,397.4	4,359.5	11.3	12.1	-35.88	-260.8	467.8	80.5	62.3	18.18	4.428		
4,500.0	4,468.8	4,497.3	4,458.4	11.6	12.5	-35.97	-268.1	480.7	82.4	63.7	18.64	4.420		
4,600.0	4,567.9	4,597.3	4,557.3	11.9	12.8	-36.06	-275.4	493.6	84.3	65.2	19.09	4.413		
4,700.0	4,667.0	4,697.3	4,656.2	12.2	13.1	-36.14	-282.7	506.4	86.1	66.6	19.55	4.406		
4,800.0	4,766.2	4,797.3	4,755.1	12.5	13.4	-36.22	-290.0	519.3	88.0	68.0	20.00	4.399		
4,900.0	4,865.3	4,897.3	4,853.9	12.8	13.7	-36.30	-297.3	532.2	89.9	69.4	20.46	4.393		
5,000.0	4,964.4	4,997.2	4,952.8	13.1	14.0	-36.37	-304.6	545.1	91.7	70.8	20.91	4.387		
5,100.0	5,063.5	5,097.2	5,051.7	13.4	14.3	-36.44	-311.9	558.0	93.6	72.2	21.37	4.381		

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 4I-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 4I-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 #1	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	5,162.6	5,197.2	5,150.6	13.7	14.6	-36.51	-319.2	570.9	95.5	73.7	21.83	4.375	
5,300.0	5,261.7	5,297.2	5,249.5	13.9	15.0	-36.57	-326.5	583.7	97.4	75.1	22.28	4.369	
5,400.0	5,360.8	5,397.2	5,348.3	14.2	15.3	-36.64	-333.8	596.6	99.2	76.5	22.74	4.364	
5,500.0	5,459.9	5,497.2	5,447.2	14.5	15.6	-36.70	-341.1	609.5	101.1	77.9	23.20	4.359	
5,600.0	5,559.0	5,597.1	5,546.1	14.8	15.9	-36.75	-348.4	622.4	103.0	79.3	23.65	4.354	
5,700.0	5,658.1	5,697.1	5,645.0	15.1	16.2	-36.81	-355.7	635.3	104.8	80.7	24.11	4.349	
5,800.0	5,757.2	5,797.1	5,743.9	15.4	16.5	-36.86	-363.0	648.1	106.7	82.2	24.57	4.344	
5,900.0	5,856.3	5,897.1	5,842.7	15.7	16.8	-36.92	-370.3	661.0	108.6	83.6	25.02	4.340	
6,000.0	5,955.4	5,997.1	5,941.6	16.0	17.1	-36.97	-377.6	673.9	110.5	85.0	25.48	4.335	
6,100.0	6,054.5	6,097.1	6,040.5	16.3	17.5	-37.01	-385.0	686.8	112.3	86.4	25.94	4.331	
6,200.0	6,153.6	6,197.0	6,139.4	16.6	17.8	-37.06	-392.3	699.7	114.2	87.8	26.40	4.327	
6,300.0	6,252.8	6,297.0	6,238.3	16.9	18.1	-37.11	-399.6	712.6	116.1	89.2	26.85	4.323	
6,400.0	6,351.9	6,397.0	6,337.1	17.1	18.4	-37.15	-406.9	725.4	118.0	90.6	27.31	4.319	
6,500.0	6,451.2	6,496.8	6,435.8	17.4	18.7	22.43	-414.1	738.3	119.7	92.6	27.13	4.412	
6,600.0	6,549.8	6,596.6	6,534.8	17.5	19.0	64.41	-414.8	751.2	122.2	96.1	26.07	4.687	
6,700.0	6,645.9	6,698.3	6,634.5	17.5	19.1	81.50	-401.2	764.2	125.9	100.8	25.11	5.015	
6,800.0	6,737.5	6,801.7	6,733.1	17.5	19.2	91.50	-372.9	777.0	130.7	106.3	24.40	5.354	
6,900.0	6,823.0	6,907.0	6,828.3	17.4	19.2	98.52	-329.7	789.4	136.1	112.1	24.00	5.671	
7,000.0	6,900.5	7,014.2	6,917.5	17.4	19.2	103.78	-271.8	801.0	141.9	118.0	23.86	5.946	
7,100.0	6,968.7	7,123.1	6,998.5	17.3	19.2	107.79	-199.8	811.6	147.6	123.7	23.92	6.171	
7,200.0	7,026.1	7,233.5	7,068.6	17.4	19.2	110.79	-115.1	820.7	152.9	128.8	24.12	6.338	
7,300.0	7,071.7	7,345.4	7,125.5	17.5	19.3	112.94	-19.3	828.1	157.5	133.1	24.46	6.439	
7,400.0	7,104.6	7,458.3	7,167.4	17.8	19.6	114.34	85.3	833.6	161.2	136.3	24.94	6.464	
7,500.0	7,124.2	7,572.0	7,192.5	18.3	20.1	115.04	196.1	836.9	163.7	138.2	25.59	6.399	
7,600.0	7,130.0	7,684.9	7,200.0	18.9	20.7	115.10	308.6	837.8	165.0	138.6	26.48	6.232	
7,700.0	7,130.0	7,784.9	7,200.0	19.6	21.3	114.97	408.6	837.8	165.8	137.6	28.22	5.876	
7,800.0	7,130.0	7,884.9	7,200.0	20.4	22.1	114.84	508.6	837.8	166.6	136.4	30.20	5.518	
7,900.0	7,130.0	7,984.9	7,200.0	21.4	23.0	114.72	608.5	837.8	167.4	135.0	32.37	5.172	
8,000.0	7,130.0	8,084.8	7,200.0	22.4	24.0	114.59	708.5	837.8	168.2	133.5	34.71	4.847	
8,100.0	7,130.0	8,184.8	7,200.0	23.5	25.0	114.47	808.5	837.8	169.0	131.8	37.18	4.546	
8,200.0	7,130.0	8,284.8	7,200.0	24.7	26.2	114.35	908.5	837.8	169.8	130.0	39.76	4.270	
8,300.0	7,130.0	8,384.8	7,200.0	26.0	27.4	114.23	1,008.5	837.8	170.6	128.2	42.44	4.020	
8,400.0	7,130.0	8,484.8	7,200.0	27.3	28.7	114.11	1,108.5	837.8	171.4	126.2	45.20	3.792	
8,500.0	7,130.0	8,584.8	7,200.0	28.7	30.0	113.99	1,208.5	837.8	172.2	124.2	48.01	3.586	
8,600.0	7,130.0	8,684.8	7,200.0	30.1	31.3	113.87	1,308.5	837.8	173.0	122.1	50.89	3.399	
8,700.0	7,130.0	8,784.8	7,200.0	31.6	32.7	113.75	1,408.5	837.8	173.8	120.0	53.81	3.230	
8,800.0	7,130.0	8,884.8	7,200.0	33.0	34.2	113.64	1,508.5	837.8	174.6	117.8	56.77	3.075	
8,900.0	7,130.0	8,984.8	7,200.0	34.5	35.6	113.52	1,608.5	837.8	175.4	115.6	59.76	2.935	
9,000.0	7,130.0	9,084.8	7,200.0	36.1	37.1	113.41	1,708.5	837.8	176.2	113.4	62.79	2.806	
9,100.0	7,130.0	9,184.8	7,200.0	37.6	38.6	113.30	1,808.5	837.8	177.0	111.1	65.84	2.688	
9,200.0	7,130.0	9,284.8	7,200.0	39.2	40.1	113.19	1,908.5	837.8	177.8	108.9	68.92	2.580	
9,300.0	7,130.0	9,384.8	7,200.0	40.7	41.7	113.08	2,008.5	837.8	178.6	106.6	72.02	2.480	
9,400.0	7,130.0	9,484.8	7,200.0	42.3	43.2	112.97	2,108.5	837.8	179.4	104.3	75.14	2.387	
9,500.0	7,130.0	9,584.8	7,200.0	43.9	44.8	112.86	2,208.5	837.8	180.2	101.9	78.28	2.302	
9,600.0	7,130.0	9,684.8	7,200.0	45.5	46.4	112.75	2,308.5	837.8	181.0	99.6	81.43	2.223	
9,700.0	7,130.0	9,784.8	7,200.0	47.2	48.0	112.65	2,408.5	837.8	181.8	97.2	84.60	2.149	
9,800.0	7,130.0	9,884.8	7,200.0	48.8	49.6	112.54	2,508.5	837.8	182.6	94.8	87.78	2.080	
9,900.0	7,130.0	9,984.3	7,200.0	50.4	51.2	112.44	2,608.0	837.9	183.4	92.5	90.96	2.016	
10,000.0	7,130.0	10,081.7	7,200.0	52.1	52.8	112.17	2,705.4	839.3	185.6	91.3	94.23	1.969	
10,100.0	7,130.0	10,181.7	7,200.0	53.7	54.5	111.87	2,805.4	841.0	188.0	90.4	97.57	1.927	
10,200.0	7,130.0	10,281.7	7,200.0	55.4	56.1	111.57	2,905.3	842.8	190.5	89.5	100.93	1.887	
10,300.0	7,130.0	10,381.6	7,200.0	57.1	57.8	111.28	3,005.3	844.6	192.9	88.6	104.30	1.850	

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 4I-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 4I-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 #1	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		
10,400.0	7,130.0	10,481.6	7,200.0	58.7	59.4	111.00	3,105.2	846.4	195.4	87.7	107.68	1.815		
10,500.0	7,130.0	10,581.6	7,200.0	60.4	61.1	110.72	3,205.2	848.1	197.9	86.8	111.07	1.782		
10,600.0	7,130.0	10,681.5	7,200.0	62.1	62.8	110.46	3,305.1	849.9	200.4	85.9	114.46	1.750		
10,700.0	7,130.0	10,781.5	7,200.0	63.8	64.4	110.19	3,405.1	851.7	202.8	85.0	117.87	1.721		
10,800.0	7,130.0	10,881.5	7,200.0	65.5	66.1	109.94	3,505.0	853.4	205.3	84.0	121.28	1.693		
10,900.0	7,130.0	10,981.4	7,200.0	67.2	67.8	109.69	3,605.0	855.2	207.8	83.1	124.70	1.666		
11,000.0	7,130.0	11,081.4	7,200.0	68.9	69.5	109.45	3,704.9	857.0	210.3	82.2	128.13	1.641		
11,100.0	7,130.0	11,181.3	7,200.0	70.6	71.2	109.21	3,804.9	858.8	212.8	81.2	131.57	1.617		
11,200.0	7,130.0	11,281.3	7,200.0	72.3	72.9	108.98	3,904.8	860.5	215.3	80.3	135.00	1.595		
11,300.0	7,130.0	11,381.3	7,200.0	74.0	74.6	108.75	4,004.8	862.3	217.8	79.4	138.45	1.573		
11,400.0	7,130.0	11,481.2	7,200.0	75.7	76.3	108.53	4,104.7	864.1	220.3	78.4	141.90	1.553		
11,500.0	7,130.0	11,581.2	7,200.0	77.4	78.0	108.32	4,204.7	865.9	222.8	77.5	145.35	1.533		
11,600.0	7,130.0	11,681.2	7,200.0	79.1	79.7	108.10	4,304.6	867.6	225.3	76.5	148.81	1.514 SF		
11,695.8	7,130.0	11,695.7	7,200.0	80.7	79.9	108.07	4,319.1	867.9	241.8	91.2	150.65	1.605		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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		
0.0	0.0	0.0	0.0	0.0	0.0	90.06	0.0	15.1	15.1					
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	15.1	15.1	14.8	0.30	49.687	15.062 CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	15.1	15.1	14.4	0.65	23.117		
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	15.1	15.1	14.1	1.00	15.062		
400.0	400.0	399.7	399.7	0.7	0.7	91.32	-0.4	15.9	15.9	14.5	1.35	11.765		
500.0	500.0	499.4	499.4	0.8	0.9	94.44	-1.4	18.3	18.3	16.6	1.70	10.778		
600.0	600.0	599.0	598.9	1.0	1.0	-27.09	-3.2	22.2	21.7	19.7	2.05	10.591		
700.0	700.0	698.6	698.3	1.2	1.2	-25.81	-5.6	27.8	25.2	22.8	2.40	10.508		
800.0	799.9	798.1	797.4	1.4	1.4	-25.44	-8.7	34.9	28.8	26.1	2.75	10.479		
900.0	899.7	897.5	896.4	1.6	1.7	-25.67	-12.6	43.6	32.5	29.4	3.11	10.478		
1,000.0	999.4	996.8	995.1	1.8	1.9	-26.31	-17.1	53.8	36.4	32.9	3.47	10.492		
1,100.0	1,098.9	1,096.1	1,093.6	2.0	2.2	-27.25	-22.3	65.6	40.3	36.4	3.83	10.509		
1,200.0	1,198.3	1,195.3	1,191.7	2.2	2.5	-28.39	-28.2	79.0	44.3	40.1	4.21	10.523		
1,300.0	1,297.4	1,294.5	1,289.5	2.5	2.8	-29.63	-34.8	93.9	48.6	44.0	4.61	10.545		
1,400.0	1,396.5	1,394.0	1,387.5	2.8	3.1	-30.38	-41.9	110.1	53.8	48.8	5.01	10.744		
1,500.0	1,495.6	1,493.9	1,485.7	3.0	3.5	-30.95	-49.1	126.4	59.2	53.8	5.42	10.923		
1,600.0	1,594.7	1,593.7	1,583.9	3.3	3.8	-31.43	-56.3	142.8	64.6	58.8	5.84	11.069		
1,700.0	1,693.8	1,693.6	1,682.2	3.6	4.1	-31.84	-63.6	159.1	70.0	63.7	6.26	11.189		
1,800.0	1,793.0	1,793.5	1,780.4	3.9	4.5	-32.18	-70.8	175.5	75.4	68.7	6.68	11.288		
1,900.0	1,892.1	1,893.3	1,878.7	4.1	4.8	-32.49	-78.0	191.9	80.8	73.7	7.10	11.371		
2,000.0	1,991.2	1,993.2	1,976.9	4.4	5.2	-32.75	-85.2	208.2	86.2	78.6	7.53	11.442		
2,100.0	2,090.3	2,093.0	2,075.1	4.7	5.5	-32.98	-92.4	224.6	91.6	83.6	7.96	11.502		
2,200.0	2,189.4	2,192.9	2,173.4	5.0	5.9	-33.19	-99.7	240.9	97.0	88.6	8.39	11.553		
2,300.0	2,288.5	2,292.7	2,271.6	5.3	6.3	-33.37	-106.9	257.3	102.4	93.5	8.83	11.598		
2,400.0	2,387.6	2,392.6	2,369.9	5.5	6.6	-33.54	-114.1	273.7	107.8	98.5	9.26	11.637		
2,500.0	2,486.7	2,492.4	2,468.1	5.8	7.0	-33.69	-121.3	290.0	113.2	103.5	9.70	11.671		
2,600.0	2,585.8	2,592.3	2,566.3	6.1	7.3	-33.83	-128.5	306.4	118.6	108.4	10.13	11.701		
2,700.0	2,684.9	2,692.1	2,664.6	6.4	7.7	-33.95	-135.7	322.7	124.0	113.4	10.57	11.728		
2,800.0	2,784.0	2,792.0	2,762.8	6.7	8.0	-34.07	-143.0	339.1	129.4	118.3	11.01	11.751		
2,900.0	2,883.1	2,891.8	2,861.1	7.0	8.4	-34.17	-150.2	355.5	134.8	123.3	11.45	11.773		
3,000.0	2,982.2	2,991.7	2,959.3	7.3	8.7	-34.27	-157.4	371.8	140.2	128.3	11.89	11.792		
3,100.0	3,081.3	3,091.6	3,057.5	7.6	9.1	-34.36	-164.6	388.2	145.6	133.2	12.33	11.809		
3,200.0	3,180.4	3,191.4	3,155.8	7.8	9.5	-34.44	-171.8	404.5	151.0	138.2	12.77	11.824		
3,300.0	3,279.6	3,291.3	3,254.0	8.1	9.8	-34.52	-179.0	420.9	156.4	143.2	13.21	11.838		
3,400.0	3,378.7	3,391.1	3,352.3	8.4	10.2	-34.59	-186.3	437.3	161.8	148.1	13.65	11.851		
3,500.0	3,477.8	3,491.0	3,450.5	8.7	10.5	-34.66	-193.5	453.6	167.2	153.1	14.09	11.863		
3,600.0	3,576.9	3,590.8	3,548.7	9.0	10.9	-34.72	-200.7	470.0	172.6	158.0	14.53	11.873		
3,700.0	3,676.0	3,690.7	3,647.0	9.3	11.3	-34.78	-207.9	486.3	178.0	163.0	14.98	11.883		
3,800.0	3,775.1	3,790.5	3,745.2	9.6	11.6	-34.84	-215.1	502.7	183.4	168.0	15.42	11.892		
3,900.0	3,874.2	3,890.4	3,843.5	9.9	12.0	-34.89	-222.3	519.1	188.8	172.9	15.86	11.901		
4,000.0	3,973.3	3,990.2	3,941.7	10.2	12.3	-34.94	-229.6	535.4	194.2	177.9	16.31	11.908		
4,100.0	4,072.4	4,090.1	4,039.9	10.5	12.7	-34.99	-236.8	551.8	199.6	182.8	16.75	11.915		
4,200.0	4,171.5	4,189.9	4,138.2	10.7	13.1	-35.03	-244.0	568.1	205.0	187.8	17.19	11.922		
4,300.0	4,270.6	4,289.8	4,236.4	11.0	13.4	-35.08	-251.2	584.5	210.4	192.8	17.64	11.928		
4,400.0	4,369.7	4,389.7	4,334.7	11.3	13.8	-35.12	-258.4	600.9	215.8	197.7	18.08	11.934		
4,500.0	4,468.8	4,489.5	4,432.9	11.6	14.1	-35.16	-265.7	617.2	221.2	202.7	18.53	11.939		
4,600.0	4,567.9	4,589.4	4,531.1	11.9	14.5	-35.19	-272.9	633.6	226.6	207.6	18.97	11.944		
4,700.0	4,667.0	4,689.2	4,629.4	12.2	14.9	-35.23	-280.1	649.9	232.0	212.6	19.42	11.949		
4,800.0	4,766.2	4,789.1	4,727.6	12.5	15.2	-35.26	-287.3	666.3	237.4	217.6	19.86	11.954		
4,900.0	4,865.3	4,888.9	4,825.9	12.8	15.6	-35.29	-294.5	682.7	242.8	222.5	20.31	11.958		
5,000.0	4,964.4	4,988.8	4,924.1	13.1	15.9	-35.32	-301.7	699.0	248.2	227.5	20.75	11.962		
5,100.0	5,063.5	5,088.6	5,022.3	13.4	16.3	-35.35	-309.0	715.4	253.6	232.4	21.20	11.965		

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 4I-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 4I-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 #1	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		
5,200.0	5,162.6	5,188.5	5,120.6	13.7	16.7	-35.38	-316.2	731.7	259.0	237.4	21.64	11.969		
5,300.0	5,261.7	5,288.3	5,218.8	13.9	17.0	-35.41	-323.4	748.1	264.5	242.4	22.09	11.972		
5,400.0	5,360.8	5,388.2	5,317.1	14.2	17.4	-35.43	-330.6	764.5	269.9	247.3	22.54	11.975		
5,500.0	5,459.9	5,488.0	5,415.3	14.5	17.7	-35.46	-337.8	780.8	275.3	252.3	22.98	11.978		
5,600.0	5,559.0	5,587.9	5,513.5	14.8	18.1	-35.48	-345.0	797.2	280.7	257.2	23.43	11.981		
5,700.0	5,658.1	5,687.8	5,611.8	15.1	18.5	-35.50	-352.3	813.5	286.1	262.2	23.87	11.983		
5,800.0	5,757.2	5,787.6	5,710.0	15.4	18.8	-35.52	-359.5	829.9	291.5	267.2	24.32	11.986		
5,900.0	5,856.3	5,887.5	5,808.3	15.7	19.2	-35.55	-366.7	846.3	296.9	272.1	24.76	11.988		
6,000.0	5,955.4	5,987.3	5,906.5	16.0	19.5	-35.57	-373.9	862.6	302.3	277.1	25.21	11.991		
6,100.0	6,054.5	6,087.2	6,004.7	16.3	19.9	-35.59	-381.1	879.0	307.7	282.0	25.66	11.993		
6,200.0	6,153.6	6,187.0	6,103.0	16.6	20.3	-35.61	-388.3	895.3	313.1	287.0	26.10	11.995		
6,300.0	6,252.8	6,286.9	6,201.2	16.9	20.6	-35.62	-395.6	911.7	318.5	292.0	26.55	11.997		
6,400.0	6,351.9	6,386.7	6,299.5	17.1	21.0	-35.64	-402.8	928.1	323.9	296.9	27.00	11.999		
6,500.0	6,451.2	6,486.4	6,397.5	17.4	21.3	22.09	-410.0	944.4	329.2	302.0	27.22	12.098		
6,600.0	6,549.8	6,584.4	6,493.9	17.5	21.7	61.18	-417.1	960.4	335.0	308.2	26.75	12.524		
6,700.0	6,645.9	6,678.8	6,586.8	17.5	22.0	77.42	-423.9	975.9	343.3	317.4	25.87	13.266		
6,800.0	6,737.5	6,779.2	6,685.8	17.5	22.3	87.98	-424.9	992.4	355.9	331.0	24.95	14.266		
6,900.0	6,823.0	6,866.8	6,790.9	17.4	22.6	95.82	-410.4	1,009.9	372.1	347.8	24.31	15.306		
7,000.0	6,900.5	7,002.5	6,900.0	17.4	22.7	102.09	-377.3	1,028.1	390.7	366.7	23.96	16.306		
7,100.0	6,968.7	7,127.4	7,010.4	17.3	22.8	107.21	-322.1	1,046.4	410.3	386.5	23.84	17.211		
7,200.0	7,026.1	7,262.5	7,117.1	17.4	22.9	111.35	-241.5	1,064.2	429.4	405.5	23.89	17.971		
7,300.0	7,071.7	7,408.2	7,213.3	17.5	23.0	114.53	-133.5	1,080.2	446.3	422.2	24.11	18.512		
7,400.0	7,104.6	7,563.6	7,289.8	17.8	23.2	116.72	0.8	1,093.0	459.3	434.8	24.50	18.746		
7,500.0	7,124.2	7,726.3	7,337.5	18.3	23.7	117.85	155.7	1,100.9	467.3	442.1	25.19	18.547		
7,600.0	7,130.0	7,879.9	7,350.0	18.9	24.4	117.95	308.6	1,103.0	469.4	443.2	26.17	17.939		
7,700.0	7,130.0	7,979.9	7,350.0	19.6	24.9	117.90	408.6	1,103.0	470.1	442.3	27.85	16.884		
7,800.0	7,130.0	8,079.9	7,350.0	20.4	25.6	117.85	508.6	1,103.0	470.9	441.2	29.75	15.829		
7,900.0	7,130.0	8,179.9	7,350.0	21.4	26.3	117.80	608.5	1,103.0	471.7	439.8	31.85	14.811		
8,000.0	7,130.0	8,279.9	7,350.0	22.4	27.2	117.75	708.5	1,103.0	472.5	438.4	34.10	13.854		
8,100.0	7,130.0	8,379.9	7,350.0	23.5	28.1	117.70	808.5	1,103.0	473.2	436.7	36.49	12.970		
8,200.0	7,130.0	8,479.9	7,350.0	24.7	29.2	117.65	908.5	1,103.0	474.0	435.0	38.98	12.161		
8,300.0	7,130.0	8,579.9	7,350.0	26.0	30.3	117.61	1,008.5	1,103.0	474.8	433.2	41.56	11.425		
8,400.0	7,130.0	8,679.9	7,350.0	27.3	31.4	117.56	1,108.5	1,103.0	475.6	431.3	44.21	10.757		
8,500.0	7,130.0	8,779.9	7,350.0	28.7	32.6	117.51	1,208.5	1,103.0	476.3	429.4	46.92	10.152		
8,600.0	7,130.0	8,879.9	7,350.0	30.1	33.9	117.46	1,308.5	1,103.0	477.1	427.4	49.68	9.603		
8,700.0	7,130.0	8,979.9	7,350.0	31.6	35.1	117.41	1,408.5	1,103.0	477.9	425.4	52.49	9.104		
8,800.0	7,130.0	9,079.9	7,350.0	33.0	36.5	117.36	1,508.5	1,103.0	478.7	423.3	55.34	8.650		
8,900.0	7,130.0	9,179.9	7,350.0	34.5	37.8	117.32	1,608.5	1,103.0	479.4	421.2	58.22	8.235		
9,000.0	7,130.0	9,279.9	7,350.0	36.1	39.2	117.27	1,708.5	1,103.0	480.2	419.1	61.12	7.856		
9,100.0	7,130.0	9,379.9	7,350.0	37.6	40.7	117.22	1,808.5	1,103.0	481.0	416.9	64.05	7.509		
9,200.0	7,130.0	9,479.9	7,350.0	39.2	42.1	117.17	1,908.5	1,103.0	481.8	414.7	67.01	7.190		
9,300.0	7,130.0	9,579.9	7,350.0	40.7	43.6	117.13	2,008.5	1,103.0	482.5	412.6	69.98	6.895		
9,400.0	7,130.0	9,679.9	7,350.0	42.3	45.1	117.08	2,108.5	1,103.0	483.3	410.3	72.97	6.624		
9,500.0	7,130.0	9,779.9	7,350.0	43.9	46.6	117.03	2,208.5	1,103.0	484.1	408.1	75.97	6.372		
9,600.0	7,130.0	9,879.9	7,350.0	45.5	48.1	116.98	2,308.5	1,103.0	484.9	405.9	78.99	6.138		
9,700.0	7,130.0	9,979.9	7,350.0	47.2	49.7	116.94	2,408.5	1,103.0	485.6	403.6	82.02	5.921		
9,800.0	7,130.0	10,079.9	7,350.0	48.8	51.2	116.89	2,508.5	1,103.0	486.4	401.3	85.07	5.718		
9,900.0	7,130.0	10,179.8	7,350.0	50.4	52.8	116.84	2,608.5	1,103.0	487.2	399.1	88.12	5.529		
10,000.0	7,130.0	10,279.8	7,350.0	52.1	54.4	116.80	2,708.5	1,103.0	488.0	396.8	91.19	5.351		
10,100.0	7,130.0	10,379.8	7,350.0	53.7	56.0	116.75	2,808.5	1,103.0	488.8	394.5	94.26	5.185		
10,200.0	7,130.0	10,479.8	7,350.0	55.4	57.6	116.71	2,908.5	1,103.0	489.5	392.2	97.34	5.029		
10,300.0	7,130.0	10,579.8	7,350.0	57.1	59.2	116.66	3,008.5	1,103.0	490.3	389.9	100.43	4.882		

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 4I-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 4I-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 #1	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		
10,400.0	7,130.0	10,679.8	7,350.0	58.7	60.8	116.62	3,108.5	1,103.0	491.1	387.6	103.53	4.743		
10,500.0	7,130.0	10,779.8	7,350.0	60.4	62.4	116.57	3,208.4	1,103.0	491.9	385.2	106.64	4.613		
10,600.0	7,130.0	10,879.8	7,350.0	62.1	64.1	116.52	3,308.4	1,103.0	492.7	382.9	109.75	4.489		
10,700.0	7,130.0	10,979.8	7,350.0	63.8	65.7	116.48	3,408.4	1,103.0	493.4	380.6	112.86	4.372		
10,800.0	7,130.0	11,079.8	7,350.0	65.5	67.3	116.43	3,508.4	1,103.0	494.2	378.2	115.99	4.261		
10,900.0	7,130.0	11,179.8	7,350.0	67.2	69.0	116.39	3,608.4	1,103.0	495.0	375.9	119.11	4.156		
11,000.0	7,130.0	11,279.8	7,350.0	68.9	70.7	116.34	3,708.4	1,103.0	495.8	373.5	122.25	4.056		
11,100.0	7,130.0	11,379.8	7,350.0	70.6	72.3	116.30	3,808.4	1,103.0	496.6	371.2	125.39	3.960		
11,200.0	7,130.0	11,479.8	7,350.0	72.3	74.0	116.25	3,908.4	1,103.0	497.3	368.8	128.53	3.869		
11,300.0	7,130.0	11,579.8	7,350.0	74.0	75.6	116.21	4,008.4	1,103.0	498.1	366.4	131.68	3.783		
11,400.0	7,130.0	11,679.8	7,350.0	75.7	77.3	116.17	4,108.4	1,103.0	498.9	364.1	134.83	3.700		
11,500.0	7,130.0	11,779.8	7,350.0	77.4	79.0	116.12	4,208.4	1,103.0	499.7	361.7	137.99	3.621		
11,600.0	7,130.0	11,879.8	7,350.0	79.1	80.7	116.08	4,308.4	1,103.0	500.5	359.3	141.15	3.546		
11,695.8	7,130.0	11,965.4	7,350.0	80.7	82.1	116.04	4,394.0	1,103.0	501.3	357.3	144.02	3.481 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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: 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	90.06	0.0	22.6	22.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	22.6	22.6	22.3	0.30	74.531		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	22.6	22.6	22.0	0.65	34.675 CC, ES		
300.0	300.0	299.6	299.6	0.5	0.5	90.80	-0.3	23.4	23.5	22.4	1.00	23.416		
400.0	400.0	399.2	399.1	0.7	0.7	92.73	-1.2	25.9	25.9	24.6	1.35	19.176		
500.0	500.0	498.6	498.5	0.8	0.9	95.23	-2.7	29.9	30.1	28.4	1.71	17.639		
600.0	600.0	597.9	597.6	1.0	1.1	-27.05	-4.8	35.6	35.2	33.2	2.05	17.192		
700.0	700.0	697.2	696.5	1.2	1.3	-26.17	-7.5	42.8	40.5	38.1	2.40	16.883		
800.0	799.9	796.3	795.2	1.4	1.5	-25.99	-10.8	51.7	45.9	43.1	2.75	16.689		
900.0	899.7	895.3	893.6	1.6	1.8	-26.29	-14.7	62.1	51.4	48.3	3.10	16.561		
1,000.0	999.4	994.2	991.7	1.8	2.0	-26.91	-19.2	74.1	57.1	53.6	3.46	16.470		
1,100.0	1,098.9	1,093.1	1,089.4	2.0	2.3	-27.78	-24.3	87.7	62.8	59.0	3.83	16.398		
1,200.0	1,198.3	1,191.8	1,186.8	2.2	2.6	-28.81	-29.9	102.9	68.8	64.6	4.21	16.328		
1,300.0	1,297.4	1,290.4	1,283.8	2.5	3.0	-29.94	-36.1	119.6	74.9	70.3	4.61	16.271		
1,400.0	1,396.5	1,388.8	1,380.3	2.8	3.4	-30.70	-42.9	137.8	82.4	77.4	5.01	16.459		
1,500.0	1,495.6	1,487.6	1,476.8	3.0	3.7	-31.04	-50.3	157.5	91.5	86.0	5.42	16.888		
1,600.0	1,594.7	1,587.1	1,574.0	3.3	4.1	-31.27	-57.8	177.6	100.7	94.9	5.83	17.292		
1,700.0	1,693.8	1,686.7	1,671.2	3.6	4.6	-31.46	-65.3	197.8	110.0	103.8	6.24	17.634		
1,800.0	1,793.0	1,786.3	1,768.5	3.9	5.0	-31.62	-72.8	217.9	119.3	112.7	6.66	17.927		
1,900.0	1,892.1	1,885.8	1,865.7	4.1	5.4	-31.76	-80.3	238.1	128.6	121.6	7.08	18.181		
2,000.0	1,991.2	1,985.4	1,962.9	4.4	5.8	-31.88	-87.8	258.2	137.9	130.4	7.50	18.401		
2,100.0	2,090.3	2,085.0	2,060.1	4.7	6.2	-31.98	-95.3	278.3	147.2	139.3	7.92	18.595		
2,200.0	2,189.4	2,184.5	2,157.3	5.0	6.6	-32.07	-102.8	298.5	156.5	148.2	8.34	18.766		
2,300.0	2,288.5	2,284.1	2,254.6	5.3	7.0	-32.16	-110.3	318.6	165.8	157.1	8.76	18.919		
2,400.0	2,387.6	2,383.7	2,351.8	5.5	7.4	-32.23	-117.8	338.7	175.1	165.9	9.19	19.055		
2,500.0	2,486.7	2,483.2	2,449.0	5.8	7.8	-32.29	-125.3	358.9	184.4	174.8	9.62	19.178		
2,600.0	2,585.8	2,582.8	2,546.2	6.1	8.3	-32.35	-132.8	379.0	193.7	183.7	10.04	19.289		
2,700.0	2,684.9	2,682.4	2,643.4	6.4	8.7	-32.41	-140.3	399.2	203.0	192.5	10.47	19.389		
2,800.0	2,784.0	2,781.9	2,740.7	6.7	9.1	-32.46	-147.8	419.3	212.3	201.4	10.90	19.481		
2,900.0	2,883.1	2,881.5	2,837.9	7.0	9.5	-32.50	-155.3	439.4	221.6	210.3	11.33	19.565		
3,000.0	2,982.2	2,981.1	2,935.1	7.3	9.9	-32.54	-162.8	459.6	230.9	219.2	11.76	19.642		
3,100.0	3,081.3	3,080.6	3,032.3	7.6	10.3	-32.58	-170.3	479.7	240.2	228.0	12.19	19.713		
3,200.0	3,180.4	3,180.2	3,129.5	7.8	10.8	-32.61	-177.8	499.8	249.5	236.9	12.61	19.779		
3,300.0	3,279.6	3,279.8	3,226.8	8.1	11.2	-32.65	-185.3	520.0	258.8	245.8	13.05	19.839		
3,400.0	3,378.7	3,379.3	3,324.0	8.4	11.6	-32.68	-192.8	540.1	268.1	254.6	13.48	19.896		
3,500.0	3,477.8	3,478.9	3,421.2	8.7	12.0	-32.71	-200.3	560.3	277.4	263.5	13.91	19.949		
3,600.0	3,576.9	3,578.5	3,518.4	9.0	12.4	-32.73	-207.8	580.4	286.7	272.4	14.34	19.998		
3,700.0	3,676.0	3,678.0	3,615.6	9.3	12.8	-32.76	-215.3	600.5	296.0	281.2	14.77	20.044		
3,800.0	3,775.1	3,777.6	3,712.9	9.6	13.3	-32.78	-222.8	620.7	305.3	290.1	15.20	20.087		
3,900.0	3,874.2	3,877.2	3,810.1	9.9	13.7	-32.80	-230.3	640.8	314.6	299.0	15.63	20.127		
4,000.0	3,973.3	3,976.7	3,907.3	10.2	14.1	-32.82	-237.8	660.9	323.9	307.8	16.06	20.165		
4,100.0	4,072.4	4,076.3	4,004.5	10.5	14.5	-32.84	-245.3	681.1	333.2	316.7	16.49	20.201		
4,200.0	4,171.5	4,175.9	4,101.7	10.7	14.9	-32.86	-252.8	701.2	342.5	325.6	16.93	20.235		
4,300.0	4,270.6	4,275.4	4,199.0	11.0	15.4	-32.88	-260.3	721.4	351.8	334.4	17.36	20.267		
4,400.0	4,369.7	4,375.0	4,296.2	11.3	15.8	-32.90	-267.8	741.5	361.1	343.3	17.79	20.297		
4,500.0	4,468.8	4,474.6	4,393.4	11.6	16.2	-32.91	-275.3	761.6	370.4	352.2	18.22	20.326		
4,600.0	4,567.9	4,574.1	4,490.6	11.9	16.6	-32.93	-282.8	781.8	379.7	361.0	18.66	20.353		
4,700.0	4,667.0	4,673.7	4,587.8	12.2	17.0	-32.94	-290.3	801.9	389.0	369.9	19.09	20.379		
4,800.0	4,766.2	4,773.3	4,685.1	12.5	17.5	-32.95	-297.8	822.0	398.3	378.8	19.52	20.404		
4,900.0	4,865.3	4,872.8	4,782.3	12.8	17.9	-32.97	-305.3	842.2	407.6	387.6	19.95	20.427		
5,000.0	4,964.4	4,972.4	4,879.5	13.1	18.3	-32.98	-312.8	862.3	416.9	396.5	20.39	20.450		
5,100.0	5,063.5	5,072.0	4,976.7	13.4	18.7	-32.99	-320.3	882.5	426.2	405.4	20.82	20.471		

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 4I-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 4I-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 #1	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: 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	
5,200.0	5,162.6	5,171.5	5,073.9	13.7	19.1	-33.00	-327.8	902.6	435.5	414.3	21.25	20.492		
5,300.0	5,261.7	5,271.1	5,171.2	13.9	19.5	-33.01	-335.3	922.7	444.8	423.1	21.69	20.511		
5,400.0	5,360.8	5,370.7	5,268.4	14.2	20.0	-33.02	-342.8	942.9	454.1	432.0	22.12	20.530		
5,500.0	5,459.9	5,470.2	5,365.6	14.5	20.4	-33.03	-350.3	963.0	463.4	440.9	22.55	20.548		
5,600.0	5,559.0	5,569.8	5,462.8	14.8	20.8	-33.04	-357.8	983.1	472.7	449.7	22.99	20.565		
5,700.0	5,658.1	5,669.4	5,560.0	15.1	21.2	-33.05	-365.3	1,003.3	482.0	458.6	23.42	20.582		
5,800.0	5,757.2	5,768.9	5,657.3	15.4	21.6	-33.06	-372.8	1,023.4	491.3	467.5	23.85	20.598		
5,900.0	5,856.3	5,868.5	5,754.5	15.7	22.1	-33.07	-380.3	1,043.6	500.6	476.3	24.29	20.613		
6,000.0	5,955.4	5,968.1	5,851.7	16.0	22.5	-33.08	-387.8	1,063.7	509.9	485.2	24.72	20.628		
6,100.0	6,054.5	6,067.6	5,948.9	16.3	22.9	-33.09	-395.3	1,083.8	519.2	494.1	25.15	20.642		
6,200.0	6,153.6	6,167.2	6,046.1	16.6	23.3	-33.10	-402.8	1,104.0	528.5	502.9	25.59	20.656		
6,300.0	6,252.8	6,266.8	6,143.4	16.9	23.7	-33.10	-410.3	1,124.1	537.8	511.8	26.02	20.669		
6,400.0	6,351.9	6,366.3	6,240.6	17.1	24.2	-33.11	-417.8	1,144.2	547.1	520.7	26.45	20.682		
6,500.0	6,451.2	6,465.7	6,337.6	17.4	24.6	23.96	-425.3	1,164.3	556.5	529.7	26.85	20.731		
6,600.0	6,549.8	6,565.6	6,435.3	17.5	25.0	61.22	-430.2	1,184.6	566.5	539.7	26.78	21.155		
6,700.0	6,645.9	6,668.7	6,535.8	17.5	25.3	73.97	-421.9	1,205.4	576.8	550.3	26.50	21.768		
6,800.0	6,737.5	6,774.5	6,636.7	17.5	25.6	80.05	-398.1	1,226.3	587.3	561.2	26.11	22.495		
6,900.0	6,823.0	6,883.3	6,735.6	17.4	25.8	83.65	-358.0	1,246.8	597.6	571.9	25.68	23.270		
7,000.0	6,900.5	6,995.1	6,829.9	17.4	25.9	86.04	-301.5	1,266.3	607.4	582.1	25.31	23.999		
7,100.0	6,968.7	7,109.7	6,916.4	17.3	26.0	87.70	-228.7	1,284.2	616.5	591.4	25.09	24.567		
7,200.0	7,026.1	7,226.9	6,992.0	17.4	26.2	88.85	-140.7	1,299.9	624.4	599.2	25.13	24.849		
7,300.0	7,071.7	7,346.3	7,053.5	17.5	26.4	89.61	-39.3	1,312.6	630.9	605.4	25.48	24.757		
7,400.0	7,104.6	7,467.3	7,098.2	17.8	26.6	90.02	72.6	1,321.9	635.8	609.5	26.23	24.237		
7,500.0	7,124.2	7,589.3	7,123.9	18.3	27.0	90.13	191.6	1,327.2	638.8	611.5	27.37	23.340		
7,600.0	7,130.0	7,706.5	7,130.0	18.9	27.5	90.00	308.6	1,328.5	640.1	611.2	28.86	22.183		
7,700.0	7,130.0	7,806.5	7,130.0	19.6	28.0	90.00	408.6	1,328.5	641.0	610.3	30.69	20.883		
7,800.0	7,130.0	7,906.5	7,130.0	20.4	28.6	90.00	508.6	1,328.5	641.8	609.0	32.81	19.565		
7,900.0	7,130.0	8,006.5	7,130.0	21.4	29.2	90.00	608.5	1,328.5	642.7	607.6	35.14	18.290		
8,000.0	7,130.0	8,106.5	7,130.0	22.4	30.0	90.00	708.5	1,328.5	643.6	605.9	37.66	17.090		
8,100.0	7,130.0	8,206.5	7,130.0	23.5	30.8	90.00	808.5	1,328.5	644.5	604.1	40.32	15.982		
8,200.0	7,130.0	8,306.5	7,130.0	24.7	31.8	90.00	908.5	1,328.5	645.3	602.2	43.11	14.969		
8,300.0	7,130.0	8,406.5	7,130.0	26.0	32.8	90.00	1,008.5	1,328.5	646.2	600.2	46.00	14.048		
8,400.0	7,130.0	8,506.5	7,130.0	27.3	33.8	90.00	1,108.5	1,328.5	647.1	598.1	48.96	13.215		
8,500.0	7,130.0	8,606.5	7,130.0	28.7	34.9	90.00	1,208.5	1,328.5	647.9	595.9	52.00	12.461		
8,600.0	7,130.0	8,706.5	7,130.0	30.1	36.1	90.00	1,308.5	1,328.5	648.8	593.7	55.09	11.777		
8,700.0	7,130.0	8,806.5	7,130.0	31.6	37.3	90.00	1,408.5	1,328.5	649.7	591.5	58.23	11.158		
8,800.0	7,130.0	8,906.5	7,130.0	33.0	38.6	90.00	1,508.5	1,328.5	650.6	589.2	61.41	10.594		
8,900.0	7,130.0	9,006.5	7,130.0	34.5	39.8	90.00	1,608.5	1,328.5	651.4	586.8	64.62	10.081		
9,000.0	7,130.0	9,106.5	7,130.0	36.1	41.2	90.00	1,708.5	1,328.5	652.3	584.4	67.86	9.612		
9,100.0	7,130.0	9,206.5	7,130.0	37.6	42.5	90.00	1,808.5	1,328.5	653.2	582.1	71.13	9.183		
9,200.0	7,130.0	9,306.5	7,130.0	39.2	43.9	90.00	1,908.5	1,328.5	654.1	579.6	74.42	8.789		
9,300.0	7,130.0	9,406.5	7,130.0	40.7	45.3	90.00	2,008.5	1,328.5	654.9	577.2	77.72	8.426		
9,400.0	7,130.0	9,506.5	7,130.0	42.3	46.8	90.00	2,108.5	1,328.5	655.8	574.7	81.05	8.091		
9,500.0	7,130.0	9,606.5	7,130.0	43.9	48.2	90.00	2,208.5	1,328.5	656.7	572.3	84.39	7.781		
9,600.0	7,130.0	9,706.5	7,130.0	45.5	49.7	90.00	2,308.5	1,328.5	657.5	569.8	87.74	7.494		
9,700.0	7,130.0	9,806.5	7,130.0	47.2	51.2	90.00	2,408.5	1,328.5	658.4	567.3	91.11	7.227		
9,800.0	7,130.0	9,906.5	7,130.0	48.8	52.7	90.00	2,508.5	1,328.5	659.3	564.8	94.48	6.978		
9,900.0	7,130.0	10,006.5	7,130.0	50.4	54.2	90.00	2,608.5	1,328.5	660.2	562.3	97.87	6.746		
10,000.0	7,130.0	10,106.4	7,130.0	52.1	55.8	90.00	2,708.5	1,328.5	661.0	559.8	101.26	6.528		
10,100.0	7,130.0	10,206.4	7,130.0	53.7	57.3	90.00	2,808.5	1,328.5	661.9	557.2	104.66	6.324		
10,200.0	7,130.0	10,306.4	7,130.0	55.4	58.9	90.00	2,908.5	1,328.5	662.8	554.7	108.07	6.133		
10,300.0	7,130.0	10,406.4	7,130.0	57.1	60.5	90.00	3,008.5	1,328.5	663.6	552.2	111.48	5.953		

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 4I-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 4I-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 #1	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							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	7,130.0	10,506.4	7,130.0	58.7	62.0	90.00	3,108.5	1,328.5	664.5	549.6	114.90	5.784		
10,500.0	7,130.0	10,606.4	7,130.0	60.4	63.6	90.00	3,208.4	1,328.5	665.4	547.1	118.32	5.624		
10,600.0	7,130.0	10,706.4	7,130.0	62.1	65.2	90.00	3,308.4	1,328.5	666.3	544.5	121.75	5.472		
10,700.0	7,130.0	10,806.4	7,130.0	63.8	66.8	90.00	3,408.4	1,328.5	667.1	542.0	125.19	5.329		
10,800.0	7,130.0	10,906.4	7,130.0	65.5	68.5	90.00	3,508.4	1,328.5	668.0	539.4	128.62	5.194		
10,900.0	7,130.0	11,006.4	7,130.0	67.2	70.1	90.00	3,608.4	1,328.5	668.9	536.8	132.06	5.065		
11,000.0	7,130.0	11,106.4	7,130.0	68.9	71.7	90.00	3,708.4	1,328.5	669.8	534.2	135.51	4.943		
11,100.0	7,130.0	11,206.4	7,130.0	70.6	73.3	90.00	3,808.4	1,328.5	670.6	531.7	138.96	4.826		
11,200.0	7,130.0	11,306.4	7,130.0	72.3	75.0	90.00	3,908.4	1,328.5	671.5	529.1	142.41	4.715		
11,300.0	7,130.0	11,406.4	7,130.0	74.0	76.6	90.00	4,008.4	1,328.5	672.4	526.5	145.86	4.610		
11,400.0	7,130.0	11,506.4	7,130.0	75.7	78.3	90.00	4,108.4	1,328.5	673.2	523.9	149.32	4.509		
11,500.0	7,130.0	11,606.4	7,130.0	77.4	79.9	90.00	4,208.4	1,328.5	674.1	521.3	152.78	4.413		
11,600.0	7,130.0	11,706.4	7,130.0	79.1	81.6	90.00	4,308.4	1,328.5	675.0	518.8	156.24	4.320		
11,695.8	7,130.0	11,786.9	7,130.0	80.7	82.9	90.00	4,388.9	1,328.5	676.0	516.7	159.29	4.244 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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							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	1.1	1.1	0.0	0.0	-69.72	192.4	-520.6	555.0					
100.0	100.0	101.3	101.3	0.2	0.2	-69.71	192.4	-520.5	555.0	554.6	0.33	1,694.935		
200.0	200.0	201.6	201.6	0.3	0.4	-69.69	192.6	-520.4	554.9	554.2	0.68	821.290		
300.0	300.0	301.8	301.8	0.5	0.5	-69.66	192.9	-520.2	554.8	553.8	1.02	541.865		
400.0	400.0	402.0	402.0	0.7	0.7	-69.61	193.3	-519.9	554.6	553.3	1.37	404.239		
500.0	500.0	502.3	502.3	0.8	0.9	-69.54	193.8	-519.5	554.4	552.7	1.72	322.305		
512.8	512.8	515.0	515.0	0.9	0.9	166.27	193.9	-519.4	554.4	552.7	1.77	313.824		
600.0	600.0	602.5	602.5	1.0	1.0	166.36	194.4	-519.0	555.1	553.0	2.07	268.062		
700.0	700.0	702.7	702.7	1.2	1.2	166.51	195.2	-518.4	557.3	554.9	2.42	230.429		
800.0	799.9	802.8	802.8	1.4	1.4	166.71	196.1	-517.7	561.3	558.5	2.77	202.892		
900.0	899.7	914.2	914.2	1.6	1.6	167.00	196.9	-516.2	566.3	563.1	3.13	180.631		
1,000.0	999.4	1,026.0	1,025.9	1.8	1.8	167.15	195.2	-512.8	570.5	567.0	3.50	162.971		
1,100.0	1,098.9	1,143.3	1,143.0	2.0	2.0	167.19	190.6	-506.6	573.4	569.5	3.88	147.967		
1,200.0	1,198.3	1,258.3	1,257.4	2.2	2.2	167.10	183.5	-498.6	575.8	571.6	4.25	135.546		
1,300.0	1,297.4	1,369.9	1,368.1	2.5	2.5	166.83	173.4	-489.1	577.2	572.6	4.62	124.923		
1,400.0	1,396.5	1,477.9	1,475.1	2.8	2.7	166.58	163.1	-478.6	577.7	572.7	5.00	115.644		
1,500.0	1,495.6	1,584.6	1,580.6	3.0	3.0	166.42	153.2	-466.3	576.5	571.2	5.37	107.353		
1,600.0	1,594.7	1,705.1	1,699.4	3.3	3.4	166.14	140.2	-450.4	573.3	567.6	5.78	99.226		
1,700.0	1,693.8	1,809.8	1,802.0	3.6	3.7	165.79	127.1	-434.4	567.5	561.4	6.16	92.077		
1,800.0	1,793.0	1,923.4	1,913.0	3.9	4.1	165.32	111.5	-415.8	560.2	553.7	6.58	85.185		
1,900.0	1,892.1	2,020.1	2,007.2	4.1	4.5	164.88	97.7	-399.1	552.0	545.1	6.96	79.301		
2,000.0	1,991.2	2,130.2	2,114.4	4.4	5.0	164.37	81.7	-379.4	543.1	535.7	7.38	73.547		
2,100.0	2,090.3	2,231.4	2,212.6	4.7	5.4	163.84	66.3	-360.3	533.0	525.2	7.80	68.363		
2,200.0	2,189.4	2,325.8	2,304.3	5.0	5.8	163.38	52.6	-342.7	523.5	515.3	8.19	63.881		
2,300.0	2,288.5	2,423.8	2,399.7	5.3	6.2	162.94	39.0	-324.8	514.5	505.9	8.60	59.805		
2,400.0	2,387.6	2,524.0	2,497.3	5.5	6.6	162.50	25.3	-306.7	505.9	496.8	9.02	56.054		
2,500.0	2,486.7	2,629.9	2,600.1	5.8	7.1	161.88	9.4	-287.0	496.3	486.8	9.48	52.332		
2,600.0	2,585.8	2,726.1	2,693.3	6.1	7.5	161.22	-5.8	-268.7	486.1	476.2	9.93	48.951		
2,700.0	2,684.9	2,821.3	2,785.8	6.4	7.9	160.56	-20.3	-251.8	477.4	467.0	10.38	45.975		
2,800.0	2,784.0	2,924.5	2,886.2	6.7	8.4	159.87	-35.7	-233.3	468.8	457.9	10.86	43.152		
2,900.0	2,883.1	3,022.1	2,981.1	7.0	8.8	159.26	-49.8	-215.2	459.6	448.3	11.33	40.563		
3,000.0	2,982.2	3,121.8	3,078.1	7.3	9.2	158.58	-64.4	-197.2	451.0	439.2	11.82	38.155		
3,100.0	3,081.3	3,220.0	3,173.6	7.6	9.6	157.92	-78.5	-179.4	442.4	430.1	12.31	35.939		
3,200.0	3,180.4	3,316.1	3,267.2	7.8	10.0	157.29	-91.9	-162.4	434.4	421.6	12.80	33.946		
3,300.0	3,279.6	3,418.2	3,366.7	8.1	10.5	156.59	-106.1	-144.5	426.7	413.4	13.32	32.036		
3,400.0	3,378.7	3,516.9	3,462.9	8.4	10.9	155.84	-120.2	-127.0	418.8	404.9	13.85	30.237		
3,500.0	3,477.8	3,616.7	3,560.1	8.7	11.3	155.12	-134.1	-109.4	411.0	396.6	14.38	28.574		
3,600.0	3,576.9	3,719.1	3,659.8	9.0	11.8	154.32	-148.6	-91.0	402.9	388.0	14.95	26.945		
3,700.0	3,676.0	3,822.2	3,760.0	9.3	12.2	153.47	-163.3	-71.6	394.2	378.6	15.54	25.365		
3,800.0	3,775.1	3,923.8	3,858.4	9.6	12.7	152.59	-177.9	-51.4	384.3	368.2	16.14	23.808		
3,900.0	3,874.2	4,022.5	3,954.2	9.9	13.2	151.62	-192.6	-32.5	375.2	358.5	16.77	22.371		
4,000.0	3,973.3	4,121.4	4,049.9	10.2	13.6	150.53	-207.8	-12.7	365.4	348.0	17.44	20.953		
4,100.0	4,072.4	4,217.2	4,143.0	10.5	14.1	149.56	-221.5	5.1	357.2	339.1	18.08	19.756		
4,200.0	4,171.5	4,316.7	4,239.8	10.7	14.5	148.61	-235.2	23.6	349.1	330.4	18.73	18.637		
4,300.0	4,270.6	4,409.0	4,329.8	11.0	14.9	147.80	-247.2	40.4	341.6	322.3	19.34	17.659		
4,400.0	4,369.7	4,505.4	4,424.2	11.3	15.3	147.05	-259.0	56.0	336.3	316.3	19.96	16.847		
4,500.0	4,468.8	4,605.2	4,521.9	11.6	15.7	146.24	-271.1	71.7	331.4	310.8	20.61	16.083		
4,600.0	4,567.9	4,700.0	4,615.0	11.9	16.0	145.49	-282.6	86.0	327.3	306.1	21.23	15.417		
4,700.0	4,667.0	4,800.1	4,713.5	12.2	16.4	144.74	-294.2	99.8	324.6	302.7	21.88	14.838		
4,800.0	4,766.2	4,896.8	4,808.6	12.5	16.7	144.04	-305.3	113.2	321.8	299.3	22.50	14.300		
4,900.0	4,865.3	4,992.8	4,903.3	12.8	17.0	143.46	-315.7	125.3	320.3	297.2	23.10	13.864		
5,000.0	4,964.4	5,092.6	5,001.9	13.1	17.4	142.99	-325.8	137.0	319.7	296.0	23.67	13.505		

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 4I-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 4I-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 #1	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		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)						
5,072.0	5,035.7	5,162.1	5,070.7	13.3	17.6	142.88	-331.6	145.1	319.3	295.3	24.01	13.298	CC	
5,100.0	5,063.5	5,189.4	5,097.7	13.4	17.6	142.87	-333.7	148.0	319.4	295.3	24.14	13.232	ES	
5,200.0	5,162.6	5,287.0	5,194.6	13.7	17.9	142.97	-340.5	158.2	320.0	295.4	24.55	13.032		
5,300.0	5,261.7	5,383.7	5,290.5	13.9	18.2	142.96	-347.9	167.4	321.5	296.5	24.99	12.863		
5,400.0	5,360.8	5,484.2	5,390.3	14.2	18.4	143.08	-354.8	176.4	323.5	298.1	25.40	12.737		
5,500.0	5,459.9	5,579.4	5,485.1	14.5	18.7	143.31	-360.8	184.2	326.3	300.6	25.76	12.669		
5,600.0	5,559.0	5,680.0	5,585.2	14.8	18.9	143.60	-366.8	192.1	329.4	303.3	26.11	12.617		
5,700.0	5,658.1	5,778.2	5,683.0	15.1	19.1	144.04	-371.8	199.5	332.9	306.5	26.41	12.603	SF	
5,800.0	5,757.2	5,874.9	5,779.3	15.4	19.3	144.50	-376.4	206.2	337.0	310.3	26.69	12.626		
5,900.0	5,856.3	5,970.3	5,874.5	15.7	19.5	145.22	-379.4	211.6	342.3	315.4	26.87	12.737		
6,000.0	5,955.4	6,065.1	5,969.2	16.0	19.6	146.09	-381.3	215.7	349.0	322.0	27.02	12.916		
6,100.0	6,054.5	6,162.5	6,066.5	16.3	19.8	146.86	-383.8	218.9	356.9	329.7	27.20	13.123		
6,200.0	6,153.6	6,254.0	6,158.0	16.6	19.9	147.59	-385.9	220.6	366.2	338.8	27.37	13.381		
6,300.0	6,252.8	6,349.5	6,253.4	16.9	20.0	148.49	-386.9	220.9	377.2	349.7	27.48	13.726		
6,400.0	6,351.9	6,449.5	6,353.4	17.1	20.1	149.52	-386.9	220.9	388.6	361.0	27.56	14.099		
6,500.0	6,451.2	6,547.9	6,451.8	17.4	20.2	-152.29	-386.7	220.9	399.7	372.1	27.59	14.488		
6,600.0	6,549.8	6,647.2	6,551.2	17.5	20.3	-116.82	-386.6	221.0	409.8	381.8	27.99	14.640		
6,700.0	6,645.9	6,741.6	6,645.6	17.5	20.3	-107.49	-386.2	220.8	420.1	391.5	28.63	14.672		
6,800.0	6,737.5	6,833.9	6,737.8	17.5	20.4	-105.99	-385.8	220.6	432.5	403.1	29.35	14.733		
6,900.0	6,823.0	6,917.2	6,821.1	17.4	20.5	-107.16	-385.6	220.2	449.9	420.1	29.84	15.078		
7,000.0	6,900.5	6,995.6	6,899.6	17.4	20.6	-109.34	-385.5	219.7	475.3	445.3	29.97	15.857		
7,100.0	6,968.7	7,064.7	6,968.6	17.3	20.7	-111.10	-385.4	219.5	510.7	481.0	29.71	17.189		
7,200.0	7,026.1	7,122.9	7,026.9	17.4	20.7	-111.62	-385.4	219.3	557.2	527.9	29.25	19.046		
7,300.0	7,071.7	7,169.2	7,073.2	17.5	20.8	-110.22	-385.3	219.2	614.7	585.8	28.95	21.231		
7,400.0	7,104.6	7,202.7	7,106.7	17.8	20.8	-106.33	-385.2	219.2	682.0	652.9	29.12	23.418		
7,500.0	7,124.2	7,222.9	7,126.9	18.3	20.8	-99.42	-385.2	219.2	757.1	727.2	29.81	25.397		
7,600.0	7,130.0	7,229.1	7,133.1	18.9	20.8	-90.24	-385.2	219.2	837.5	806.9	30.61	27.361		
7,700.0	7,130.0	7,229.4	7,133.3	19.6	20.8	-90.27	-385.2	219.2	921.6	890.0	31.53	29.223		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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							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		
8,700.0	7,130.0	7,098.0	7,098.0	31.6	12.4	-90.00	2,045.5	-47.2	965.8	924.3	41.51	23.268		
8,800.0	7,130.0	7,098.0	7,098.0	33.0	12.4	-90.00	2,045.5	-47.2	902.3	859.2	43.10	20.935		
8,900.0	7,130.0	7,098.0	7,098.0	34.5	12.4	-90.00	2,045.5	-47.2	845.9	801.1	44.71	18.920		
9,000.0	7,130.0	7,098.0	7,098.0	36.1	12.4	-90.00	2,045.5	-47.2	798.0	751.7	46.33	17.225		
9,100.0	7,130.0	7,098.0	7,098.0	37.6	12.4	-90.00	2,045.5	-47.2	760.4	712.4	47.96	15.853		
9,200.0	7,130.0	7,098.0	7,098.0	39.2	12.4	-90.00	2,045.5	-47.2	734.5	684.9	49.61	14.806		
9,300.0	7,130.0	7,098.0	7,098.0	40.7	12.4	-90.00	2,045.5	-47.2	721.7	670.4	51.27	14.078		
9,343.2	7,130.0	7,098.0	7,098.0	41.4	12.4	-90.00	2,045.5	-47.2	720.4	668.4	51.98	13.858 CC, ES		
9,400.0	7,130.0	7,098.0	7,098.0	42.3	12.4	-90.00	2,045.5	-47.2	722.6	669.7	52.93	13.653		
9,500.0	7,130.0	7,098.0	7,098.0	43.9	12.4	-90.00	2,045.5	-47.2	737.3	682.7	54.60	13.503 SF		
9,600.0	7,130.0	7,098.0	7,098.0	45.5	12.4	-90.00	2,045.5	-47.2	764.8	708.5	56.28	13.590		
9,700.0	7,130.0	7,098.0	7,098.0	47.2	12.4	-90.00	2,045.5	-47.2	803.9	746.0	57.96	13.870		
9,800.0	7,130.0	7,098.0	7,098.0	48.8	12.4	-90.00	2,045.5	-47.2	853.0	793.4	59.65	14.301		
9,900.0	7,130.0	7,098.0	7,098.0	50.4	12.4	-90.00	2,045.5	-47.2	910.5	849.1	61.34	14.843		
10,000.0	7,130.0	7,098.0	7,098.0	52.1	12.4	-90.00	2,045.5	-47.2	974.8	911.8	63.04	15.464		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4I-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 4I-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 #1	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 4I-35H-O367
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.42°

