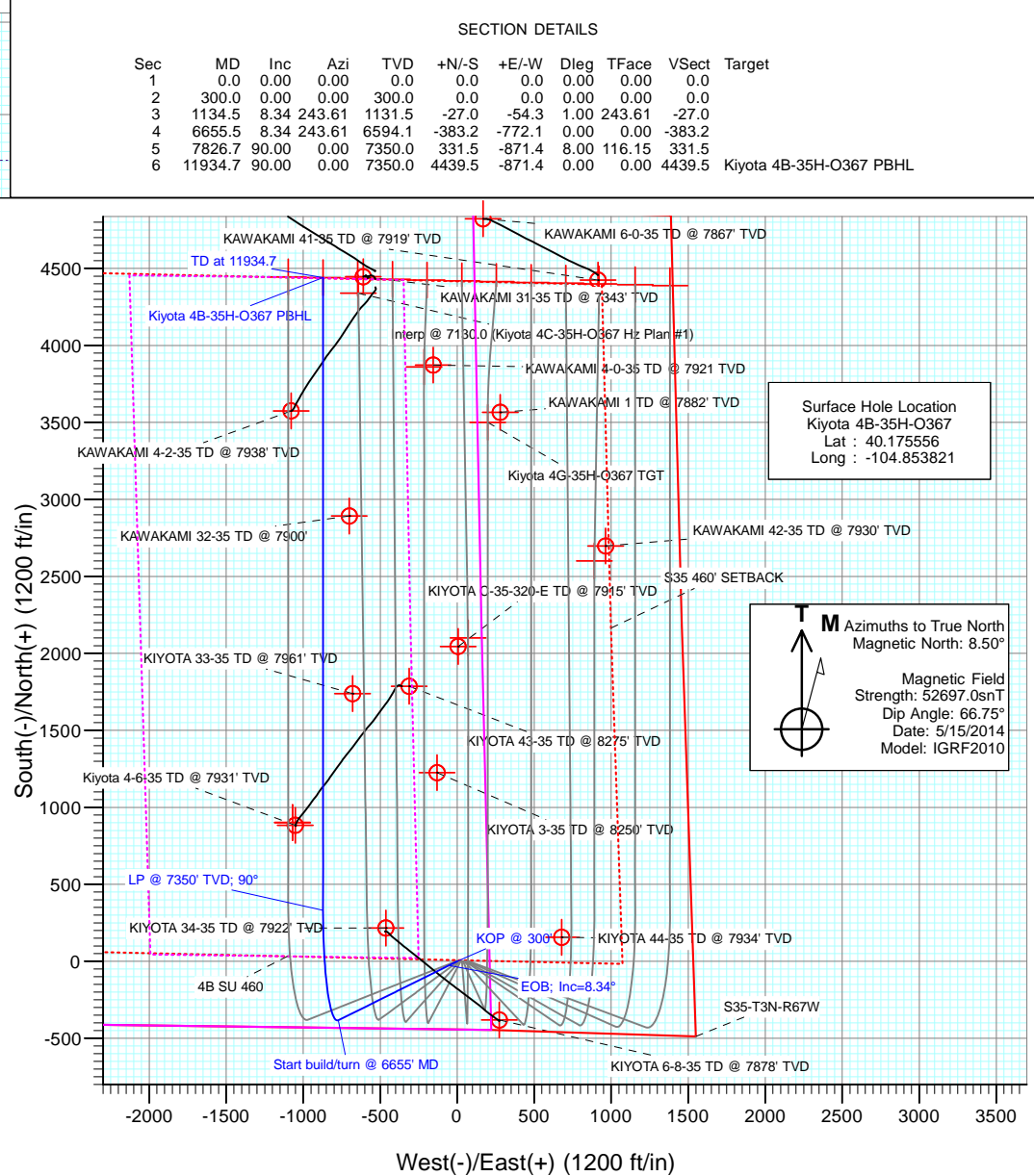
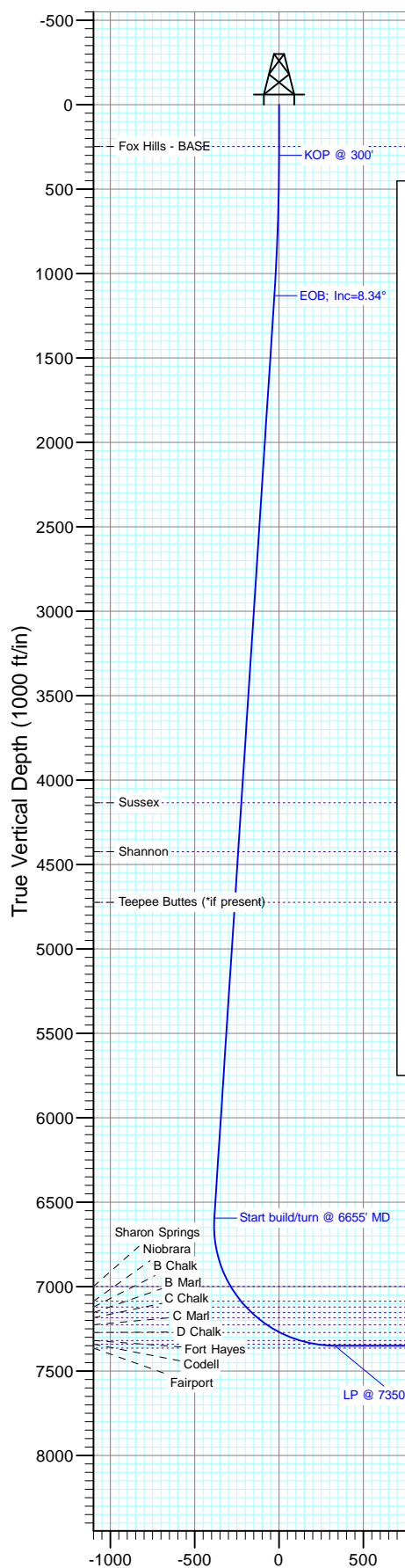




Project: DJ Wattenberg
Site: S35-T3N-R67W (Kiyota)
Well: Kiyota 4B-35H-O367
Wellbore: Hz
Design: Plan #1



DESIGN TARGET DETAILS					
Name	+N/-S	+E/-W	Northing	Easting	Latitude
Kiyota 4B-35H-O367 PBHL	4439.5	-871.4	1311891.50	3179664.39	40.187743

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

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
248.0	248.0	Fox Hills - BASE
4134.0	4169.1	Sussex
4424.0	4462.2	Shannon
4724.0	4765.4	Teepee Buttes (*if present)
6999.0	7081.5	Sharon Springs
7087.0	7189.5	Niobrara
7121.0	7234.8	B Chalk
7154.0	7281.5	B Marl
7184.0	7326.9	C Chalk
7226.0	7397.1	C Marl
7272.0	7487.9	D Chalk
7319.0	7614.3	Fort Hayes
7341.0	7712.6	Codell

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 4B-35H-O367					
Well Position	+N/-S	0.0 ft	Northing:	1,307,458.42 ft	Latitude:	40.175556
	+E/-W	0.0 ft	Easting:	3,180,568.12 ft	Longitude:	-104.853821
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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,134.5	8.34	243.61	1,131.5	-27.0	-54.3	1.00	1.00	0.00	243.61	
6,655.5	8.34	243.61	6,594.1	-383.2	-772.1	0.00	0.00	0.00	0.00	
7,826.7	90.00	0.00	7,350.0	331.5	-871.4	8.00	6.97	9.94	116.15	
11,934.7	90.00	0.00	7,350.0	4,439.5	-871.4	0.00	0.00	0.00	0.00	Kiyota 4B-35H-O367

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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	KOP @ 300'
400.0	1.00	243.61	400.0	-0.4	-0.8	-0.4	1.00	1.00	
500.0	2.00	243.61	500.0	-1.6	-3.1	-1.6	1.00	1.00	
600.0	3.00	243.61	599.9	-3.5	-7.0	-3.5	1.00	1.00	
700.0	4.00	243.61	699.7	-6.2	-12.5	-6.2	1.00	1.00	
800.0	5.00	243.61	799.4	-9.7	-19.5	-9.7	1.00	1.00	
900.0	6.00	243.61	898.9	-14.0	-28.1	-14.0	1.00	1.00	
1,000.0	7.00	243.61	998.3	-19.0	-38.3	-19.0	1.00	1.00	
1,100.0	8.00	243.61	1,097.4	-24.8	-49.9	-24.8	1.00	1.00	
1,134.5	8.34	243.61	1,131.5	-27.0	-54.3	-27.0	1.00	1.00	EOB; Inc=8.34°
1,200.0	8.34	243.61	1,196.4	-31.2	-62.9	-31.2	0.00	0.00	
1,300.0	8.34	243.61	1,295.3	-37.6	-75.9	-37.6	0.00	0.00	
1,400.0	8.34	243.61	1,394.2	-44.1	-88.9	-44.1	0.00	0.00	
1,500.0	8.34	243.61	1,493.2	-50.5	-101.9	-50.5	0.00	0.00	
1,600.0	8.34	243.61	1,592.1	-57.0	-114.9	-57.0	0.00	0.00	
1,700.0	8.34	243.61	1,691.1	-63.5	-127.9	-63.5	0.00	0.00	
1,800.0	8.34	243.61	1,790.0	-69.9	-140.9	-69.9	0.00	0.00	
1,900.0	8.34	243.61	1,889.0	-76.4	-153.9	-76.4	0.00	0.00	
2,000.0	8.34	243.61	1,987.9	-82.8	-166.9	-82.8	0.00	0.00	
2,100.0	8.34	243.61	2,086.8	-89.3	-179.9	-89.3	0.00	0.00	
2,200.0	8.34	243.61	2,185.8	-95.7	-192.9	-95.7	0.00	0.00	
2,300.0	8.34	243.61	2,284.7	-102.2	-205.9	-102.2	0.00	0.00	
2,400.0	8.34	243.61	2,383.7	-108.6	-218.9	-108.6	0.00	0.00	
2,500.0	8.34	243.61	2,482.6	-115.1	-231.9	-115.1	0.00	0.00	
2,600.0	8.34	243.61	2,581.5	-121.5	-244.9	-121.5	0.00	0.00	
2,700.0	8.34	243.61	2,680.5	-128.0	-257.9	-128.0	0.00	0.00	
2,800.0	8.34	243.61	2,779.4	-134.4	-270.9	-134.4	0.00	0.00	
2,900.0	8.34	243.61	2,878.4	-140.9	-283.9	-140.9	0.00	0.00	
3,000.0	8.34	243.61	2,977.3	-147.3	-296.9	-147.3	0.00	0.00	
3,100.0	8.34	243.61	3,076.2	-153.8	-309.9	-153.8	0.00	0.00	
3,200.0	8.34	243.61	3,175.2	-160.2	-322.9	-160.2	0.00	0.00	
3,300.0	8.34	243.61	3,274.1	-166.7	-335.9	-166.7	0.00	0.00	
3,400.0	8.34	243.61	3,373.1	-173.1	-348.9	-173.1	0.00	0.00	
3,500.0	8.34	243.61	3,472.0	-179.6	-361.9	-179.6	0.00	0.00	
3,600.0	8.34	243.61	3,571.0	-186.0	-374.9	-186.0	0.00	0.00	
3,700.0	8.34	243.61	3,669.9	-192.5	-387.9	-192.5	0.00	0.00	
3,800.0	8.34	243.61	3,768.8	-198.9	-400.9	-198.9	0.00	0.00	
3,900.0	8.34	243.61	3,867.8	-205.4	-413.9	-205.4	0.00	0.00	
4,000.0	8.34	243.61	3,966.7	-211.8	-426.9	-211.8	0.00	0.00	
4,100.0	8.34	243.61	4,065.7	-218.3	-439.9	-218.3	0.00	0.00	
4,169.1	8.34	243.61	4,134.0	-222.7	-448.8	-222.7	0.00	0.00	Sussex
4,200.0	8.34	243.61	4,164.6	-224.7	-452.9	-224.7	0.00	0.00	
4,300.0	8.34	243.61	4,263.5	-231.2	-465.9	-231.2	0.00	0.00	
4,400.0	8.34	243.61	4,362.5	-237.6	-478.9	-237.6	0.00	0.00	
4,462.2	8.34	243.61	4,424.0	-241.7	-486.9	-241.7	0.00	0.00	Shannon
4,500.0	8.34	243.61	4,461.4	-244.1	-491.9	-244.1	0.00	0.00	
4,600.0	8.34	243.61	4,560.4	-250.5	-504.9	-250.5	0.00	0.00	
4,700.0	8.34	243.61	4,659.3	-257.0	-517.9	-257.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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
4,765.4	8.34	243.61	4,724.0	-261.2	-526.4	-261.2	0.00	0.00	Teepee Buttes (*if present)
4,800.0	8.34	243.61	4,758.3	-263.5	-530.9	-263.5	0.00	0.00	
4,900.0	8.34	243.61	4,857.2	-269.9	-543.9	-269.9	0.00	0.00	
5,000.0	8.34	243.61	4,956.1	-276.4	-556.9	-276.4	0.00	0.00	
5,100.0	8.34	243.61	5,055.1	-282.8	-569.9	-282.8	0.00	0.00	
5,200.0	8.34	243.61	5,154.0	-289.3	-582.9	-289.3	0.00	0.00	
5,300.0	8.34	243.61	5,253.0	-295.7	-595.9	-295.7	0.00	0.00	
5,400.0	8.34	243.61	5,351.9	-302.2	-608.9	-302.2	0.00	0.00	
5,500.0	8.34	243.61	5,450.8	-308.6	-621.9	-308.6	0.00	0.00	
5,600.0	8.34	243.61	5,549.8	-315.1	-634.9	-315.1	0.00	0.00	
5,700.0	8.34	243.61	5,648.7	-321.5	-647.9	-321.5	0.00	0.00	
5,800.0	8.34	243.61	5,747.7	-328.0	-660.9	-328.0	0.00	0.00	
5,900.0	8.34	243.61	5,846.6	-334.4	-673.9	-334.4	0.00	0.00	
6,000.0	8.34	243.61	5,945.6	-340.9	-686.9	-340.9	0.00	0.00	
6,100.0	8.34	243.61	6,044.5	-347.3	-699.9	-347.3	0.00	0.00	
6,200.0	8.34	243.61	6,143.4	-353.8	-712.9	-353.8	0.00	0.00	
6,300.0	8.34	243.61	6,242.4	-360.2	-725.9	-360.2	0.00	0.00	
6,400.0	8.34	243.61	6,341.3	-366.7	-738.9	-366.7	0.00	0.00	
6,500.0	8.34	243.61	6,440.3	-373.1	-751.9	-373.1	0.00	0.00	
6,600.0	8.34	243.61	6,539.2	-379.6	-764.9	-379.6	0.00	0.00	
6,655.5	8.34	243.61	6,594.1	-383.2	-772.1	-383.2	0.00	0.00	Start build/turn @ 6655' MD
6,700.0	7.49	268.94	6,638.2	-384.6	-777.9	-384.6	8.00	-1.93	
6,800.0	10.84	316.67	6,737.0	-377.9	-790.9	-377.9	8.00	3.35	
6,900.0	17.50	335.37	6,834.0	-357.4	-803.6	-357.4	8.00	6.66	
7,000.0	24.94	343.59	6,927.2	-323.4	-815.8	-323.4	8.00	7.44	
7,081.5	31.20	347.47	6,999.0	-286.3	-825.3	-286.3	8.00	7.68	Sharon Springs
7,100.0	32.64	348.16	7,014.8	-276.7	-827.3	-276.7	7.99	7.75	
7,189.5	39.62	350.87	7,087.0	-224.9	-836.8	-224.9	8.00	7.80	Niobrara
7,200.0	40.44	351.13	7,095.0	-218.2	-837.9	-218.2	7.99	7.82	
7,234.8	43.18	351.95	7,121.0	-195.2	-841.3	-195.2	8.00	7.85	B Chalk
7,281.5	46.85	352.92	7,154.0	-162.5	-845.6	-162.5	8.00	7.86	B Marl
7,300.0	48.30	353.28	7,166.5	-149.0	-847.3	-149.0	7.99	7.87	
7,326.9	50.42	353.77	7,184.0	-128.7	-849.6	-128.7	8.00	7.89	C Chalk
7,397.1	55.96	354.91	7,226.0	-72.8	-855.1	-72.8	8.00	7.89	C Marl
7,400.0	56.19	354.95	7,227.6	-70.4	-855.3	-70.4	7.96	7.86	
7,487.9	63.14	356.18	7,272.0	5.2	-861.1	5.2	8.00	7.91	D Chalk
7,500.0	64.10	356.34	7,277.4	16.0	-861.9	16.0	7.99	7.91	
7,600.0	72.02	357.56	7,314.7	108.6	-866.8	108.6	8.00	7.92	
7,614.3	73.16	357.72	7,319.0	122.2	-867.3	122.2	8.01	7.93	Fort Hayes
7,700.0	79.95	358.67	7,338.9	205.5	-869.9	205.5	8.00	7.93	
7,712.6	80.95	358.80	7,341.0	217.9	-870.2	217.9	8.01	7.94	Codell
7,800.0	87.88	359.72	7,349.5	304.8	-871.3	304.8	8.00	7.93	
7,826.7	90.00	0.00	7,350.0	331.5	-871.4	331.5	8.00	7.94	LP @ 7350' TVD; 90°
7,900.0	90.00	0.00	7,350.0	404.8	-871.4	404.8	0.00	0.00	
8,000.0	90.00	0.00	7,350.0	504.8	-871.4	504.8	0.00	0.00	
8,100.0	90.00	0.00	7,350.0	604.8	-871.4	604.8	0.00	0.00	
8,200.0	90.00	0.00	7,350.0	704.8	-871.4	704.8	0.00	0.00	
8,300.0	90.00	0.00	7,350.0	804.8	-871.4	804.8	0.00	0.00	
8,400.0	90.00	0.00	7,350.0	904.8	-871.4	904.8	0.00	0.00	
8,500.0	90.00	0.00	7,350.0	1,004.8	-871.4	1,004.8	0.00	0.00	
8,600.0	90.00	0.00	7,350.0	1,104.8	-871.4	1,104.8	0.00	0.00	
8,700.0	90.00	0.00	7,350.0	1,204.8	-871.4	1,204.8	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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
8,800.0	90.00	0.00	7,350.0	1,304.8	-871.4	1,304.8	0.00	0.00	
8,900.0	90.00	0.00	7,350.0	1,404.8	-871.4	1,404.8	0.00	0.00	
9,000.0	90.00	0.00	7,350.0	1,504.8	-871.4	1,504.8	0.00	0.00	
9,100.0	90.00	0.00	7,350.0	1,604.8	-871.4	1,604.8	0.00	0.00	
9,200.0	90.00	0.00	7,350.0	1,704.8	-871.4	1,704.8	0.00	0.00	
9,300.0	90.00	0.00	7,350.0	1,804.8	-871.4	1,804.8	0.00	0.00	
9,400.0	90.00	0.00	7,350.0	1,904.8	-871.4	1,904.8	0.00	0.00	
9,500.0	90.00	0.00	7,350.0	2,004.8	-871.4	2,004.8	0.00	0.00	
9,600.0	90.00	0.00	7,350.0	2,104.8	-871.4	2,104.8	0.00	0.00	
9,700.0	90.00	0.00	7,350.0	2,204.8	-871.4	2,204.8	0.00	0.00	
9,800.0	90.00	0.00	7,350.0	2,304.8	-871.4	2,304.8	0.00	0.00	
9,900.0	90.00	0.00	7,350.0	2,404.8	-871.4	2,404.8	0.00	0.00	
10,000.0	90.00	0.00	7,350.0	2,504.8	-871.4	2,504.8	0.00	0.00	
10,100.0	90.00	0.00	7,350.0	2,604.8	-871.4	2,604.8	0.00	0.00	
10,200.0	90.00	0.00	7,350.0	2,704.8	-871.4	2,704.8	0.00	0.00	
10,300.0	90.00	0.00	7,350.0	2,804.8	-871.4	2,804.8	0.00	0.00	
10,400.0	90.00	0.00	7,350.0	2,904.8	-871.4	2,904.8	0.00	0.00	
10,500.0	90.00	0.00	7,350.0	3,004.8	-871.4	3,004.8	0.00	0.00	
10,600.0	90.00	0.00	7,350.0	3,104.8	-871.4	3,104.8	0.00	0.00	
10,700.0	90.00	0.00	7,350.0	3,204.8	-871.4	3,204.8	0.00	0.00	
10,800.0	90.00	0.00	7,350.0	3,304.8	-871.4	3,304.8	0.00	0.00	
10,900.0	90.00	0.00	7,350.0	3,404.8	-871.4	3,404.8	0.00	0.00	
11,000.0	90.00	0.00	7,350.0	3,504.8	-871.4	3,504.8	0.00	0.00	
11,100.0	90.00	0.00	7,350.0	3,604.8	-871.4	3,604.8	0.00	0.00	
11,200.0	90.00	0.00	7,350.0	3,704.8	-871.4	3,704.8	0.00	0.00	
11,300.0	90.00	0.00	7,350.0	3,804.8	-871.4	3,804.8	0.00	0.00	
11,400.0	90.00	0.00	7,350.0	3,904.8	-871.4	3,904.8	0.00	0.00	
11,500.0	90.00	0.00	7,350.0	4,004.8	-871.4	4,004.8	0.00	0.00	
11,600.0	90.00	0.00	7,350.0	4,104.8	-871.4	4,104.8	0.00	0.00	
11,700.0	90.00	0.00	7,350.0	4,204.8	-871.4	4,204.8	0.00	0.00	
11,800.0	90.00	0.00	7,350.0	4,304.8	-871.4	4,304.8	0.00	0.00	
11,900.0	90.00	0.00	7,350.0	4,404.8	-871.4	4,404.8	0.00	0.00	
11,934.7	90.00	0.00	7,350.0	4,439.5	-871.4	4,439.5	0.00	0.00	TD at 11934.7 - Kiyota 4B-35H-O367 PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Kiyota 4B-35H-O367 PB	0.00	0.00	7,350.0	4,439.5	-871.4	1,311,891.50	3,179,664.39	40.187743	-104.856940
- plan hits target center									
- Point									

Planning Report

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
248.0	248.0	Fox Hills - BASE				
4,169.1	4,134.0	Sussex				
4,462.2	4,424.0	Shannon				
4,765.4	4,724.0	Teepee Buttes (*if present)				
7,081.5	6,999.0	Sharon Springs				
7,189.5	7,087.0	Niobrara				
7,234.8	7,121.0	B Chalk				
7,281.5	7,154.0	B Marl				
7,326.9	7,184.0	C Chalk				
7,397.1	7,226.0	C Marl				
7,487.9	7,272.0	D Chalk				
7,614.3	7,319.0	Fort Hayes				
7,712.6	7,341.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.0	300.0	0.0	0.0	KOP @ 300'	
1,134.5	1,131.5	-27.0	-54.3	EOB; Inc=8.34°	
6,655.5	6,594.1	-383.2	-772.1	Start build/turn @ 6655' MD	
7,826.7	7,350.0	331.5	-871.4	LP @ 7350' TVD; 90°	
11,934.7	7,350.0	4,439.5	-871.4	TD at 11934.7	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S35-T3N-R67W (Kiyota)

Kiyota 4B-35H-O367

Hz

Plan #1

Anticollision Report

19 May, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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	5/19/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,934.7	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S35-T3N-R67W (Kiyota)						
KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURV						Out of range
KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURV	11,934.7	7,318.5	261.2	167.8	2.797	CC, ES, SF
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - NO S	10,386.9	7,314.0	170.9	104.2	2.561	CC, ES
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - NO S	10,400.0	7,314.0	171.4	104.5	2.560	SF
KAWAKAMI 4-0-35 (EXISTING) - ENCANA WELL - SUR	11,934.7	7,398.3	498.5	403.4	5.242	CC, ES, SF
KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - NO S						Out of range
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO S						Out of range
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR	11,071.1	7,414.2	203.1	118.3	2.395	CC, ES, SF
KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURV	9,233.5	7,337.0	192.1	144.6	4.046	CC, ES, SF
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,719.9	7,326.0	740.9	701.6	18.841	CC, ES
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,900.0	7,326.0	762.5	720.4	18.102	SF
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	2,914.9	2,879.1	399.9	387.2	31.549	CC
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	7,701.6	7,325.2	406.5	379.6	15.134	ES, SF
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV	9,281.6	7,329.0	558.7	510.5	11.577	CC, ES
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV	9,400.0	7,329.0	571.1	520.9	11.377	SF
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	300.0	275.0	695.9	694.9	709.290	CC, ES
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	2,800.0	2,754.4	992.5	982.7	102.049	SF
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - Plan #2	8,396.4	7,464.4	198.5	156.5	4.722	CC
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - Plan #2	8,400.0	7,464.4	198.5	156.4	4.718	ES, SF
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY	8,374.6	7,473.8	177.8	135.8	4.240	CC, ES, SF
Kiyota 4A-35H-O367 - Hz - Plan #1	166.7	166.7	7.5	7.0	14.065	CC
Kiyota 4A-35H-O367 - Hz - Plan #1	200.0	200.0	7.5	6.9	11.558	ES
Kiyota 4A-35H-O367 - Hz - Plan #1	11,934.7	11,813.1	270.6	134.7	1.991	SF
Kiyota 4C-35H-O367 - Hz - Plan #1	300.0	300.0	7.5	6.5	7.531	CC, ES
Kiyota 4C-35H-O367 - Hz - Plan #1	11,824.5	11,575.3	318.0	201.9	2.739	SF
Kiyota 4D-35H-O367 - Hz - Plan #1	300.0	300.0	15.1	14.1	15.061	CC, ES
Kiyota 4D-35H-O367 - Hz - Plan #1	11,934.7	11,741.0	475.1	322.0	3.103	SF
Kiyota 4E-35H-O367 - Hz - Plan #1	300.0	300.0	22.6	21.6	22.592	CC, ES
Kiyota 4E-35H-O367 - Hz - Plan #1	11,934.7	11,875.1	675.9	515.2	4.205	SF
Kiyota 4F-35H-O367 - Hz - Plan #1	300.0	300.0	30.2	29.2	30.123	CC, ES
Kiyota 4F-35H-O367 - Hz - Plan #1	11,934.7	11,664.3	927.7	771.3	5.933	SF
Kiyota 4G-35H-O367 - Hz - Plan #1	300.0	300.0	37.4	36.4	37.375	CC, ES
Kiyota 4G-35H-O367 - Hz - Plan #1	700.0	699.7	50.3	47.9	20.978	SF
Kiyota 4H-35H-O367 - Hz - Plan #1	300.0	300.0	45.0	44.0	44.907	CC, ES
Kiyota 4H-35H-O367 - Hz - Plan #1	700.0	699.1	58.3	55.9	24.305	SF
Kiyota 4I-35H-O367 - Hz - Plan #1	300.0	300.0	52.5	51.5	52.437	CC, ES
Kiyota 4I-35H-O367 - Hz - Plan #1	700.0	697.9	68.0	65.6	28.345	SF
Kiyota 4J-35H-O367 - Hz - Plan #1	300.0	300.0	60.1	59.1	59.968	CC, ES
Kiyota 4J-35H-O367 - Hz - Plan #1	700.0	696.3	79.3	76.9	33.072	SF
Kiyota 4K-35H-O367 - Hz - Plan #1	266.7	266.7	67.6	66.7	76.369	CC
Kiyota 4K-35H-O367 - Hz - Plan #1	300.0	300.0	67.6	66.6	67.500	ES
Kiyota 4K-35H-O367 - Hz - Plan #1	700.0	694.2	92.7	90.3	38.654	SF
Kiyota 4L-35H-O367 - Hz - Plan #1	166.7	166.7	75.2	74.6	140.130	CC
Kiyota 4L-35H-O367 - Hz - Plan #1	200.0	200.0	75.2	74.5	115.153	ES
Kiyota 4L-35H-O367 - Hz - Plan #1	800.0	788.5	123.6	120.8	44.903	SF
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	2,683.8	2,710.7	129.1	116.0	9.860	CC, ES
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	2,700.0	2,725.9	129.3	116.1	9.817	SF
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,540.3	7,318.0	876.7	824.2	16.699	CC, ES
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,800.0	7,318.0	914.4	857.5	16.088	SF

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 4B-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 4B-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 31-35 (EXISTING) - ENCANA WELL - SURVEYS										Offset Site Error:		0.0 ft	
Survey Program:		100-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
11,000.0	7,350.0	7,321.1	7,319.8	66.3	12.9	90.84	4,445.8	-610.3	976.6	899.3	77.26	12.641			
11,100.0	7,350.0	7,320.8	7,319.6	67.9	12.9	90.78	4,445.8	-610.3	880.6	801.7	78.98	11.150			
11,200.0	7,350.0	7,320.5	7,319.3	69.6	12.9	90.73	4,445.8	-610.3	785.7	705.0	80.70	9.736			
11,300.0	7,350.0	7,320.3	7,319.0	71.3	12.9	90.67	4,445.8	-610.3	692.2	609.8	82.42	8.398			
11,400.0	7,350.0	7,320.0	7,318.8	73.0	12.9	90.61	4,445.9	-610.3	600.8	516.6	84.15	7.139			
11,500.0	7,350.0	7,319.7	7,318.5	74.7	12.9	90.55	4,445.9	-610.3	512.5	426.7	85.87	5.969			
11,600.0	7,350.0	7,319.4	7,318.2	76.4	12.9	90.48	4,445.9	-610.3	429.5	341.9	87.60	4.903			
11,700.0	7,350.0	7,319.2	7,317.9	78.1	12.9	90.42	4,445.9	-610.3	355.4	266.0	89.33	3.978			
11,800.0	7,350.0	7,318.9	7,317.6	79.8	12.9	90.36	4,445.9	-610.3	296.8	205.7	91.06	3.259			
11,900.0	7,350.0	7,318.6	7,317.3	81.5	12.9	90.29	4,445.9	-610.3	264.3	171.5	92.79	2.849			
11,934.7	7,350.0	7,318.5	7,317.2	82.1	12.9	90.27	4,445.9	-610.3	261.2	167.8	93.39	2.797 CC, ES, SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 32-35 (EXISTING) - ENCANA WELL - NO SURVEYS												Offset Site Error: 0.0 ft	
Survey Program: 7900-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
9,500.0	7,350.0	7,314.0	7,314.0	42.0	12.8	90.00	2,891.7	-700.5	903.2	851.4	51.83	17.427	
9,600.0	7,350.0	7,314.0	7,314.0	43.5	12.8	90.00	2,891.7	-700.5	805.2	751.7	53.49	15.055	
9,700.0	7,350.0	7,314.0	7,314.0	45.1	12.8	90.00	2,891.7	-700.5	707.8	652.7	55.15	12.834	
9,800.0	7,350.0	7,314.0	7,314.0	46.7	12.8	90.00	2,891.7	-700.5	611.3	554.4	56.83	10.757	
9,900.0	7,350.0	7,314.0	7,314.0	48.2	12.8	90.00	2,891.7	-700.5	516.0	457.5	58.51	8.820	
10,000.0	7,350.0	7,314.0	7,314.0	49.8	12.8	90.00	2,891.7	-700.5	423.0	362.8	60.19	7.027	
10,100.0	7,350.0	7,314.0	7,314.0	51.5	12.8	90.00	2,891.7	-700.5	333.9	272.1	61.88	5.396	
10,200.0	7,350.0	7,314.0	7,314.0	53.1	12.8	90.00	2,891.7	-700.5	253.3	189.7	63.58	3.984	
10,300.0	7,350.0	7,314.0	7,314.0	54.7	12.8	90.00	2,891.7	-700.5	191.7	126.5	65.27	2.938	
10,386.9	7,350.0	7,314.0	7,314.0	56.1	12.8	90.00	2,891.7	-700.5	170.9	104.2	66.75	2.561 CC, ES	
10,400.0	7,350.0	7,314.0	7,314.0	56.3	12.8	90.00	2,891.7	-700.5	171.4	104.5	66.98	2.560 SF	
10,500.0	7,350.0	7,314.0	7,314.0	58.0	12.8	90.00	2,891.7	-700.5	205.0	136.3	68.68	2.984	
10,600.0	7,350.0	7,314.0	7,314.0	59.6	12.8	90.00	2,891.7	-700.5	273.2	202.8	70.39	3.881	
10,700.0	7,350.0	7,314.0	7,314.0	61.3	12.8	90.00	2,891.7	-700.5	356.7	284.6	72.10	4.948	
10,800.0	7,350.0	7,314.0	7,314.0	62.9	12.8	90.00	2,891.7	-700.5	447.1	373.3	73.81	6.057	
10,900.0	7,350.0	7,314.0	7,314.0	64.6	12.8	90.00	2,891.7	-700.5	540.8	465.3	75.53	7.161	
11,000.0	7,350.0	7,314.0	7,314.0	66.3	12.8	90.00	2,891.7	-700.5	636.5	559.3	77.25	8.240	
11,100.0	7,350.0	7,314.0	7,314.0	67.9	12.8	90.00	2,891.7	-700.5	733.3	654.4	78.97	9.287	
11,200.0	7,350.0	7,314.0	7,314.0	69.6	12.8	90.00	2,891.7	-700.5	830.9	750.2	80.69	10.298	
11,300.0	7,350.0	7,314.0	7,314.0	71.3	12.8	90.00	2,891.7	-700.5	929.0	846.6	82.41	11.273	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 4-0-35 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 109-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,400.0	7,350.0	7,398.5	7,330.0	73.0	18.1	-89.72	4,857.9	-1,142.5	990.9	905.0	85.85	11.541		
11,500.0	7,350.0	7,398.5	7,329.9	74.7	18.1	-89.70	4,857.9	-1,142.5	895.1	807.5	87.58	10.220		
11,600.0	7,350.0	7,398.4	7,329.8	76.4	18.1	-89.69	4,857.9	-1,142.5	800.4	711.1	89.31	8.962		
11,700.0	7,350.0	7,398.4	7,329.8	78.1	18.1	-89.68	4,857.9	-1,142.5	707.1	616.1	91.04	7.767		
11,800.0	7,350.0	7,398.3	7,329.7	79.8	18.1	-89.67	4,857.9	-1,142.5	615.9	523.2	92.76	6.640		
11,900.0	7,350.0	7,398.3	7,329.7	81.5	18.1	-89.66	4,857.9	-1,142.5	528.0	433.5	94.50	5.587		
11,934.7	7,350.0	7,398.3	7,329.7	82.1	18.1	-89.65	4,857.9	-1,142.5	498.5	403.4	95.10	5.242 CC, ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 4-2-35 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 868-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		
10,100.0	7,350.0	7,416.3	7,332.2	51.5	21.3	-90.21	3,575.9	-1,074.5	992.1	923.9	68.22	14.543		
10,200.0	7,350.0	7,416.1	7,331.9	53.1	21.3	-90.15	3,575.9	-1,074.5	894.5	824.6	69.91	12.794		
10,300.0	7,350.0	7,415.9	7,331.7	54.7	21.3	-90.09	3,575.9	-1,074.5	797.4	725.8	71.61	11.135		
10,400.0	7,350.0	7,415.7	7,331.5	56.3	21.3	-90.03	3,575.9	-1,074.5	701.2	627.9	73.32	9.564		
10,500.0	7,350.0	7,415.5	7,331.3	58.0	21.3	-89.97	3,575.9	-1,074.5	606.2	531.2	75.02	8.080		
10,600.0	7,350.0	7,415.3	7,331.1	59.6	21.3	-89.91	3,575.9	-1,074.5	513.1	436.3	76.73	6.687		
10,700.0	7,350.0	7,415.1	7,330.9	61.3	21.3	-89.85	3,575.9	-1,074.5	423.1	344.6	78.44	5.394		
10,800.0	7,350.0	7,414.8	7,330.7	62.9	21.3	-89.79	3,575.9	-1,074.5	338.8	258.6	80.15	4.227		
10,900.0	7,350.0	7,414.6	7,330.4	64.6	21.3	-89.73	3,575.9	-1,074.5	265.6	183.7	81.87	3.244		
11,000.0	7,350.0	7,414.4	7,330.2	66.3	21.3	-89.67	3,575.9	-1,074.5	215.2	131.6	83.59	2.575		
11,071.1	7,350.0	7,414.2	7,330.1	67.5	21.3	-89.62	3,575.9	-1,074.5	203.1	118.3	84.81	2.395 CC, ES, SF		
11,100.0	7,350.0	7,414.2	7,330.0	67.9	21.3	-89.61	3,575.9	-1,074.5	205.2	119.9	85.31	2.405		
11,200.0	7,350.0	7,414.0	7,329.8	69.6	21.3	-89.55	3,575.9	-1,074.5	240.6	153.5	87.03	2.764		
11,300.0	7,350.0	7,413.7	7,329.6	71.3	21.3	-89.48	3,575.9	-1,074.5	306.0	217.3	88.75	3.448		
11,400.0	7,350.0	7,413.5	7,329.3	73.0	21.3	-89.42	3,575.9	-1,074.5	386.5	296.1	90.47	4.272		
11,500.0	7,350.0	7,413.3	7,329.1	74.7	21.3	-89.36	3,575.9	-1,074.5	474.5	382.3	92.20	5.147		
11,600.0	7,350.0	7,413.1	7,328.9	76.4	21.3	-89.29	3,575.9	-1,074.5	566.5	472.6	93.93	6.032		
11,700.0	7,350.0	7,412.9	7,328.7	78.1	21.3	-89.23	3,576.0	-1,074.5	660.9	565.2	95.65	6.909		
11,800.0	7,350.0	7,412.6	7,328.4	79.8	21.3	-89.17	3,576.0	-1,074.5	756.6	659.3	97.38	7.770		
11,900.0	7,350.0	7,412.4	7,328.2	81.5	21.3	-89.10	3,576.0	-1,074.5	853.4	754.3	99.11	8.611		
11,934.7	7,350.0	7,412.3	7,328.1	82.1	21.3	-89.08	3,576.0	-1,074.5	887.2	787.5	99.71	8.897		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 33-35 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 7961-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
8,300.0	7,350.0	7,337.0	7,337.0	25.6	12.8	90.00	1,738.4	-679.3	953.1	919.9	33.22	28.687	
8,400.0	7,350.0	7,337.0	7,337.0	26.7	12.8	90.00	1,738.4	-679.3	855.4	820.8	34.61	24.715	
8,500.0	7,350.0	7,337.0	7,337.0	27.9	12.8	90.00	1,738.4	-679.3	758.3	722.3	36.05	21.036	
8,600.0	7,350.0	7,337.0	7,337.0	29.1	12.8	90.00	1,738.4	-679.3	662.0	624.5	37.53	17.643	
8,700.0	7,350.0	7,337.0	7,337.0	30.4	12.8	90.00	1,738.4	-679.3	567.1	528.1	39.04	14.527	
8,800.0	7,350.0	7,337.0	7,337.0	31.7	12.8	90.00	1,738.4	-679.3	474.2	433.6	40.58	11.687	
8,900.0	7,350.0	7,337.0	7,337.0	33.1	12.8	90.00	1,738.4	-679.3	384.9	342.8	42.14	9.134	
9,000.0	7,350.0	7,337.0	7,337.0	34.5	12.8	90.00	1,738.4	-679.3	302.4	258.7	43.73	6.917	
9,100.0	7,350.0	7,337.0	7,337.0	36.0	12.8	90.00	1,738.4	-679.3	234.0	188.7	45.33	5.162	
9,200.0	7,350.0	7,337.0	7,337.0	37.4	12.8	90.00	1,738.4	-679.3	195.0	148.1	46.94	4.155	
9,233.5	7,350.0	7,337.0	7,337.0	37.9	12.8	90.00	1,738.4	-679.3	192.1	144.6	47.49	4.046 CC, ES, SF	
9,300.0	7,350.0	7,337.0	7,337.0	38.9	12.8	90.00	1,738.4	-679.3	203.3	154.7	48.57	4.185	
9,400.0	7,350.0	7,337.0	7,337.0	40.4	12.8	90.00	1,738.4	-679.3	254.2	204.0	50.22	5.062	
9,500.0	7,350.0	7,337.0	7,337.0	42.0	12.8	90.00	1,738.4	-679.3	328.5	276.6	51.87	6.334	
9,600.0	7,350.0	7,337.0	7,337.0	43.5	12.8	90.00	1,738.4	-679.3	413.8	360.2	53.53	7.730	
9,700.0	7,350.0	7,337.0	7,337.0	45.1	12.8	90.00	1,738.4	-679.3	504.5	449.3	55.19	9.140	
9,800.0	7,350.0	7,337.0	7,337.0	46.7	12.8	90.00	1,738.4	-679.3	598.1	541.3	56.87	10.518	
9,900.0	7,350.0	7,337.0	7,337.0	48.2	12.8	90.00	1,738.4	-679.3	693.6	635.0	58.55	11.847	
10,000.0	7,350.0	7,337.0	7,337.0	49.8	12.8	90.00	1,738.4	-679.3	790.2	729.9	60.23	13.119	
10,100.0	7,350.0	7,337.0	7,337.0	51.5	12.8	90.00	1,738.4	-679.3	887.5	825.6	61.92	14.332	
10,200.0	7,350.0	7,337.0	7,337.0	53.1	12.8	90.00	1,738.4	-679.3	985.4	921.7	63.62	15.489	

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 4B-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 4B-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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,100.0	7,350.0	7,326.0	7,326.0	23.6	12.8	90.00	1,224.7	-130.5	966.0	935.4	30.63	31.542		
8,200.0	7,350.0	7,326.0	7,326.0	24.5	12.8	90.00	1,224.7	-130.5	905.1	873.2	31.88	28.392		
8,300.0	7,350.0	7,326.0	7,326.0	25.6	12.8	90.00	1,224.7	-130.5	851.6	818.4	33.21	25.647		
8,400.0	7,350.0	7,326.0	7,326.0	26.7	12.8	90.00	1,224.7	-130.5	807.0	772.4	34.59	23.329		
8,500.0	7,350.0	7,326.0	7,326.0	27.9	12.8	90.00	1,224.7	-130.5	772.9	736.8	36.03	21.451		
8,600.0	7,350.0	7,326.0	7,326.0	29.1	12.8	90.00	1,224.7	-130.5	750.5	713.0	37.51	20.011		
8,700.0	7,350.0	7,326.0	7,326.0	30.4	12.8	90.00	1,224.7	-130.5	741.2	702.2	39.02	18.996		
8,719.9	7,350.0	7,326.0	7,326.0	30.7	12.8	90.00	1,224.7	-130.5	740.9	701.6	39.32	18.841 CC, ES		
8,800.0	7,350.0	7,326.0	7,326.0	31.7	12.8	90.00	1,224.7	-130.5	745.2	704.7	40.56	18.374		
8,900.0	7,350.0	7,326.0	7,326.0	33.1	12.8	90.00	1,224.7	-130.5	762.5	720.4	42.12	18.102 SF		
9,000.0	7,350.0	7,326.0	7,326.0	34.5	12.8	90.00	1,224.7	-130.5	792.1	748.4	43.71	18.123		
9,100.0	7,350.0	7,326.0	7,326.0	36.0	12.8	90.00	1,224.7	-130.5	832.7	787.4	45.31	18.379		
9,200.0	7,350.0	7,326.0	7,326.0	37.4	12.8	90.00	1,224.7	-130.5	882.9	835.9	46.93	18.814		
9,300.0	7,350.0	7,326.0	7,326.0	38.9	12.8	90.00	1,224.7	-130.5	941.0	892.4	48.56	19.380		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-64.98	216.4	-463.6	511.8					
100.0	100.0	86.0	86.0	0.2	0.2	-64.98	216.4	-463.6	511.6	511.3	0.30	1,693.138		
200.0	200.0	186.0	186.0	0.3	0.3	-64.98	216.4	-463.6	511.6	510.9	0.65	785.592		
300.0	300.0	286.0	286.0	0.5	0.5	-64.98	216.4	-463.6	511.6	510.6	1.00	511.448		
400.0	400.0	386.0	386.0	0.7	0.7	51.50	216.4	-463.6	511.0	509.7	1.35	378.637		
500.0	500.0	486.0	486.0	0.9	0.8	51.74	216.4	-463.6	509.4	507.7	1.70	299.460		
600.0	599.9	585.9	585.9	1.0	1.0	52.15	216.4	-463.6	506.7	504.7	2.06	246.370		
700.0	699.7	685.7	685.7	1.2	1.2	52.73	216.4	-463.6	503.0	500.6	2.42	207.924		
800.0	799.4	785.4	785.4	1.4	1.4	53.48	216.4	-463.6	498.3	495.5	2.79	178.532		
900.0	898.9	884.9	884.9	1.7	1.5	54.42	216.4	-463.6	492.6	489.5	3.18	155.141		
1,000.0	998.3	984.3	984.3	1.9	1.7	55.55	216.4	-463.6	486.1	482.5	3.58	135.956		
1,100.0	1,097.4	1,083.4	1,083.4	2.2	1.9	56.90	216.4	-463.6	478.8	474.8	3.99	119.854		
1,200.0	1,196.4	1,182.4	1,182.4	2.5	2.1	58.38	216.4	-463.6	471.0	466.6	4.43	106.336		
1,300.0	1,295.3	1,281.3	1,281.3	2.8	2.2	59.89	216.4	-463.6	463.5	458.7	4.87	95.094		
1,400.0	1,394.2	1,380.2	1,380.2	3.1	2.4	61.46	216.4	-463.6	456.4	451.0	5.33	85.660		
1,500.0	1,493.2	1,479.2	1,479.2	3.4	2.6	63.07	216.4	-463.6	449.6	443.8	5.79	77.665		
1,600.0	1,592.1	1,578.1	1,578.1	3.6	2.8	64.73	216.4	-463.6	443.1	436.9	6.26	70.831		
1,700.0	1,691.1	1,677.1	1,677.1	3.9	2.9	66.43	216.4	-463.6	437.1	430.3	6.73	64.945		
1,800.0	1,790.0	1,776.0	1,776.0	4.2	3.1	68.18	216.4	-463.6	431.4	424.2	7.21	59.845		
1,900.0	1,888.9	1,874.9	1,874.9	4.6	3.3	69.98	216.4	-463.6	426.2	418.5	7.69	55.401		
2,000.0	1,987.9	1,973.9	1,973.9	4.9	3.4	71.81	216.4	-463.6	421.4	413.2	8.18	51.511		
2,100.0	2,086.8	2,072.8	2,072.8	5.2	3.6	73.69	216.4	-463.6	417.0	408.4	8.67	48.093		
2,200.0	2,185.8	2,171.8	2,171.8	5.5	3.8	75.60	216.4	-463.6	413.2	404.0	9.16	45.081		
2,300.0	2,284.7	2,270.7	2,270.7	5.8	4.0	77.55	216.4	-463.6	409.7	400.1	9.66	42.419		
2,400.0	2,383.7	2,369.7	2,369.7	6.1	4.1	79.52	216.4	-463.6	406.8	396.7	10.15	40.064		
2,500.0	2,482.6	2,468.6	2,468.6	6.4	4.3	81.53	216.4	-463.6	404.4	393.8	10.65	37.975		
2,600.0	2,581.5	2,567.5	2,567.5	6.7	4.5	83.55	216.4	-463.6	402.5	391.4	11.14	36.123		
2,700.0	2,680.5	2,666.5	2,666.5	7.0	4.7	85.59	216.4	-463.6	401.1	389.5	11.63	34.480		
2,800.0	2,779.4	2,765.4	2,765.4	7.3	4.8	87.64	216.4	-463.6	400.3	388.1	12.12	33.022		
2,900.0	2,878.4	2,864.4	2,864.4	7.6	5.0	89.69	216.4	-463.6	399.9	387.3	12.60	31.729		
2,914.9	2,893.1	2,879.1	2,879.1	7.7	5.0	90.00	216.4	-463.6	399.9	387.2	12.68	31.549 CC		
3,000.0	2,977.3	2,963.3	2,963.3	7.9	5.2	91.75	216.4	-463.6	400.1	387.0	13.08	30.585		
3,100.0	3,076.2	3,062.2	3,062.2	8.2	5.3	93.80	216.4	-463.6	400.8	387.3	13.55	29.573		
3,200.0	3,175.2	3,161.2	3,161.2	8.5	5.5	95.84	216.4	-463.6	402.0	388.0	14.02	28.681		
3,300.0	3,274.1	3,260.1	3,260.1	8.8	5.7	97.87	216.4	-463.6	403.8	389.3	14.48	27.896		
3,400.0	3,373.1	3,359.1	3,359.1	9.1	5.9	99.88	216.4	-463.6	406.1	391.1	14.92	27.207		
3,500.0	3,472.0	3,458.0	3,458.0	9.4	6.0	101.86	216.4	-463.6	408.8	393.5	15.37	26.607		
3,600.0	3,570.9	3,556.9	3,556.9	9.8	6.2	103.82	216.4	-463.6	412.1	396.3	15.80	26.085		
3,700.0	3,669.9	3,655.9	3,655.9	10.1	6.4	105.74	216.4	-463.6	415.8	399.6	16.22	25.634		
3,800.0	3,768.8	3,754.8	3,754.8	10.4	6.6	107.63	216.4	-463.6	420.0	403.4	16.64	25.248		
3,900.0	3,867.8	3,853.8	3,853.8	10.7	6.7	109.48	216.4	-463.6	424.7	407.7	17.04	24.920		
4,000.0	3,966.7	3,952.7	3,952.7	11.0	6.9	111.29	216.4	-463.6	429.8	412.4	17.44	24.644		
4,100.0	4,065.7	4,051.7	4,051.7	11.3	7.1	113.05	216.4	-463.6	435.3	417.5	17.83	24.416		
4,200.0	4,164.6	4,150.6	4,150.6	11.6	7.2	114.77	216.4	-463.6	441.3	423.1	18.21	24.231		
4,300.0	4,263.5	4,249.5	4,249.5	11.9	7.4	116.44	216.4	-463.6	447.6	429.0	18.58	24.084		
4,400.0	4,362.5	4,348.5	4,348.5	12.2	7.6	118.07	216.4	-463.6	454.3	435.3	18.95	23.972		
4,500.0	4,461.4	4,447.4	4,447.4	12.5	7.8	119.65	216.4	-463.6	461.4	442.0	19.31	23.892		
4,600.0	4,560.4	4,546.4	4,546.4	12.8	7.9	121.18	216.4	-463.6	468.8	449.1	19.66	23.839		
4,700.0	4,659.3	4,645.3	4,645.3	13.1	8.1	122.66	216.4	-463.6	476.5	456.5	20.01	23.811		
4,800.0	4,758.2	4,744.2	4,744.2	13.5	8.3	124.09	216.4	-463.6	484.5	464.2	20.35	23.806		
4,900.0	4,857.2	4,843.2	4,843.2	13.8	8.5	125.48	216.4	-463.6	492.9	472.2	20.69	23.821		
5,000.0	4,956.1	4,942.1	4,942.1	14.1	8.6	126.82	216.4	-463.6	501.5	480.5	21.02	23.854		

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 4B-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 4B-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		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)						
5,100.0	5,055.1	5,041.1	5,041.1	14.4	8.8	128.12	216.4	-463.6	510.4	489.0	21.35	23.903		
5,200.0	5,154.0	5,140.0	5,140.0	14.7	9.0	129.37	216.4	-463.6	519.5	497.9	21.68	23.967		
5,300.0	5,253.0	5,239.0	5,239.0	15.0	9.1	130.58	216.4	-463.6	528.9	506.9	22.00	24.042		
5,400.0	5,351.9	5,337.9	5,337.9	15.3	9.3	131.74	216.4	-463.6	538.5	516.2	22.32	24.129		
5,500.0	5,450.8	5,436.8	5,436.8	15.6	9.5	132.87	216.4	-463.6	548.3	525.7	22.64	24.225		
5,600.0	5,549.8	5,535.8	5,535.8	15.9	9.7	133.95	216.4	-463.6	558.4	535.4	22.95	24.330		
5,700.0	5,648.7	5,634.7	5,634.7	16.2	9.8	135.00	216.4	-463.6	568.6	545.3	23.26	24.443		
5,800.0	5,747.7	5,733.7	5,733.7	16.5	10.0	136.01	216.4	-463.6	579.0	555.4	23.57	24.562		
5,900.0	5,846.6	5,832.6	5,832.6	16.9	10.2	136.99	216.4	-463.6	589.6	565.7	23.88	24.686		
6,000.0	5,945.5	5,931.5	5,931.5	17.2	10.4	137.93	216.4	-463.6	600.3	576.1	24.19	24.815		
6,100.0	6,044.5	6,030.5	6,030.5	17.5	10.5	138.83	216.4	-463.6	611.2	586.7	24.50	24.948		
6,200.0	6,143.4	6,129.4	6,129.4	17.8	10.7	139.71	216.4	-463.6	622.3	597.5	24.81	25.085		
6,300.0	6,242.4	6,228.4	6,228.4	18.1	10.9	140.55	216.4	-463.6	633.5	608.4	25.11	25.224		
6,400.0	6,341.3	6,327.3	6,327.3	18.4	11.0	141.37	216.4	-463.6	644.8	619.4	25.42	25.366		
6,500.0	6,440.2	6,426.2	6,426.2	18.7	11.2	142.16	216.4	-463.6	656.2	630.5	25.73	25.509		
6,600.0	6,539.2	6,525.2	6,525.2	19.0	11.4	142.92	216.4	-463.6	667.8	641.8	26.03	25.654		
6,700.0	6,638.2	6,624.2	6,624.2	19.3	11.6	118.46	216.4	-463.6	678.3	651.9	26.38	25.709		
6,800.0	6,737.0	6,723.0	6,723.0	19.5	11.7	72.47	216.4	-463.6	678.5	652.0	26.50	25.606		
6,900.0	6,834.0	6,820.0	6,820.0	19.6	11.9	56.54	216.4	-463.6	667.0	640.7	26.24	25.418		
7,000.0	6,927.2	6,913.2	6,913.2	19.7	12.1	52.28	216.4	-463.6	644.6	618.9	25.71	25.073		
7,100.0	7,014.7	7,000.7	7,000.7	19.7	12.2	53.07	216.4	-463.6	612.8	587.7	25.08	24.433		
7,200.0	7,095.0	7,081.0	7,081.0	19.8	12.4	57.07	216.4	-463.6	573.6	549.0	24.61	23.304		
7,300.0	7,166.5	7,152.5	7,152.5	19.8	12.5	63.48	216.4	-463.6	529.8	505.3	24.56	21.572		
7,400.0	7,227.6	7,213.6	7,213.6	19.9	12.6	71.41	216.4	-463.6	485.5	460.5	24.97	19.439		
7,500.0	7,277.4	7,263.4	7,263.4	20.1	12.7	79.47	216.4	-463.6	445.8	420.2	25.62	17.404		
7,600.0	7,314.7	7,300.7	7,300.7	20.4	12.7	86.08	216.4	-463.6	417.3	391.1	26.24	15.905		
7,700.0	7,338.9	7,324.9	7,324.9	20.8	12.8	89.96	216.4	-463.6	406.5	379.7	26.85	15.140		
7,701.6	7,339.2	7,325.2	7,325.2	20.8	12.8	90.00	216.4	-463.6	406.5	379.6	26.86	15.134 ES, SF		
7,800.0	7,349.5	7,335.5	7,335.5	21.3	12.8	90.47	216.4	-463.6	417.2	389.7	27.55	15.145		
7,900.0	7,350.0	7,336.0	7,336.0	21.9	12.8	90.00	216.4	-463.6	449.2	420.8	28.43	15.801		
8,000.0	7,350.0	7,336.0	7,336.0	22.7	12.8	90.00	216.4	-463.6	499.5	470.0	29.48	16.942		
8,100.0	7,350.0	7,336.0	7,336.0	23.6	12.8	90.00	216.4	-463.6	563.2	532.6	30.64	18.378		
8,200.0	7,350.0	7,336.0	7,336.0	24.5	12.8	90.00	216.4	-463.6	636.3	604.4	31.90	19.949		
8,300.0	7,350.0	7,336.0	7,336.0	25.6	12.8	90.00	216.4	-463.6	715.9	682.7	33.22	21.549		
8,400.0	7,350.0	7,336.0	7,336.0	26.7	12.8	90.00	216.4	-463.6	800.2	765.5	34.61	23.119		
8,500.0	7,350.0	7,336.0	7,336.0	27.9	12.8	90.00	216.4	-463.6	887.7	851.6	36.05	24.625		
8,600.0	7,350.0	7,336.0	7,336.0	29.1	12.8	90.00	216.4	-463.6	977.6	940.0	37.52	26.052		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 43-35 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8275-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,500.0	7,350.0	7,329.0	7,329.0	27.9	12.8	90.00	1,786.4	-312.7	960.8	924.8	36.03	26.664		
8,600.0	7,350.0	7,329.0	7,329.0	29.1	12.8	90.00	1,786.4	-312.7	881.4	843.9	37.51	23.496		
8,700.0	7,350.0	7,329.0	7,329.0	30.4	12.8	90.00	1,786.4	-312.7	806.5	767.5	39.02	20.668		
8,800.0	7,350.0	7,329.0	7,329.0	31.7	12.8	90.00	1,786.4	-312.7	737.7	697.1	40.56	18.186		
8,900.0	7,350.0	7,329.0	7,329.0	33.1	12.8	90.00	1,786.4	-312.7	676.6	634.5	42.13	16.061		
9,000.0	7,350.0	7,329.0	7,329.0	34.5	12.8	90.00	1,786.4	-312.7	625.7	582.0	43.71	14.314		
9,100.0	7,350.0	7,329.0	7,329.0	36.0	12.8	90.00	1,786.4	-312.7	587.5	542.2	45.31	12.965		
9,200.0	7,350.0	7,329.0	7,329.0	37.4	12.8	90.00	1,786.4	-312.7	564.7	517.7	46.93	12.032		
9,281.6	7,350.0	7,329.0	7,329.0	38.6	12.8	90.00	1,786.4	-312.7	558.7	510.5	48.26	11.577 CC, ES		
9,300.0	7,350.0	7,329.0	7,329.0	38.9	12.8	90.00	1,786.4	-312.7	559.0	510.5	48.56	11.512		
9,400.0	7,350.0	7,329.0	7,329.0	40.4	12.8	90.00	1,786.4	-312.7	571.1	520.9	50.20	11.377 SF		
9,500.0	7,350.0	7,329.0	7,329.0	42.0	12.8	90.00	1,786.4	-312.7	599.9	548.0	51.85	11.569		
9,600.0	7,350.0	7,329.0	7,329.0	43.5	12.8	90.00	1,786.4	-312.7	643.1	589.6	53.51	12.017		
9,700.0	7,350.0	7,329.0	7,329.0	45.1	12.8	90.00	1,786.4	-312.7	698.0	642.8	55.18	12.650		
9,800.0	7,350.0	7,329.0	7,329.0	46.7	12.8	90.00	1,786.4	-312.7	762.2	705.3	56.85	13.406		
9,900.0	7,350.0	7,329.0	7,329.0	48.2	12.8	90.00	1,786.4	-312.7	833.4	774.9	58.53	14.238		
10,000.0	7,350.0	7,329.0	7,329.0	49.8	12.8	90.00	1,786.4	-312.7	910.1	849.9	60.22	15.113		
10,100.0	7,350.0	7,329.0	7,329.0	51.5	12.8	90.00	1,786.4	-312.7	990.9	929.0	61.91	16.006		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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		
0.0	0.0	0.0	0.0	0.0	0.0	77.05	155.9	678.2	696.3					
100.0	100.0	75.0	75.0	0.2	0.1	77.05	155.9	678.2	695.9	695.6	0.28	2,459.279		
200.0	200.0	175.0	175.0	0.3	0.3	77.05	155.9	678.2	695.9	695.2	0.63	1,101.028		
300.0	300.0	275.0	275.0	0.5	0.5	77.05	155.9	678.2	695.9	694.9	0.98	709.290	CC, ES	
400.0	400.0	375.0	375.0	0.7	0.7	-166.57	155.9	678.2	696.7	695.4	1.33	523.829		
500.0	500.0	475.0	475.0	0.9	0.8	-166.61	155.9	678.2	699.3	697.6	1.68	416.514		
600.0	599.9	574.9	574.9	1.0	1.0	-166.69	155.9	678.2	703.5	701.5	2.03	346.982		
700.0	699.7	674.7	674.7	1.2	1.2	-166.79	155.9	678.2	709.5	707.1	2.38	298.588		
800.0	799.4	774.4	774.4	1.4	1.4	-166.91	155.9	678.2	717.1	714.4	2.72	263.211		
900.0	898.9	873.9	873.9	1.7	1.5	-167.06	155.9	678.2	726.4	723.4	3.07	236.423		
1,000.0	998.3	973.3	973.3	1.9	1.7	-167.23	155.9	678.2	737.5	734.1	3.42	215.600		
1,100.0	1,097.4	1,072.4	1,072.4	2.2	1.9	-167.43	155.9	678.2	750.2	746.4	3.77	199.092		
1,200.0	1,196.4	1,171.4	1,171.4	2.5	2.0	-167.65	155.9	678.2	764.3	760.2	4.12	185.580		
1,300.0	1,295.3	1,270.3	1,270.3	2.8	2.2	-167.88	155.9	678.2	778.5	774.0	4.47	174.146		
1,400.0	1,394.2	1,369.2	1,369.2	3.1	2.4	-168.10	155.9	678.2	792.7	787.9	4.82	164.388		
1,500.0	1,493.2	1,468.2	1,468.2	3.4	2.6	-168.31	155.9	678.2	806.9	801.7	5.17	155.963		
1,600.0	1,592.1	1,567.1	1,567.1	3.6	2.7	-168.52	155.9	678.2	821.1	815.6	5.53	148.617		
1,700.0	1,691.1	1,666.1	1,666.1	3.9	2.9	-168.72	155.9	678.2	835.4	829.5	5.88	142.157		
1,800.0	1,790.0	1,765.0	1,765.0	4.2	3.1	-168.91	155.9	678.2	849.6	843.4	6.23	136.433		
1,900.0	1,888.9	1,863.9	1,863.9	4.6	3.3	-169.09	155.9	678.2	863.9	857.3	6.58	131.324		
2,000.0	1,987.9	1,962.9	1,962.9	4.9	3.4	-169.27	155.9	678.2	878.1	871.2	6.93	126.739		
2,100.0	2,086.8	2,061.8	2,061.8	5.2	3.6	-169.44	155.9	678.2	892.4	885.1	7.28	122.600		
2,200.0	2,185.8	2,160.8	2,160.8	5.5	3.8	-169.61	155.9	678.2	906.7	899.0	7.63	118.845		
2,300.0	2,284.7	2,259.7	2,259.7	5.8	3.9	-169.77	155.9	678.2	920.9	913.0	7.98	115.424		
2,400.0	2,383.7	2,358.7	2,358.7	6.1	4.1	-169.93	155.9	678.2	935.2	926.9	8.33	112.293		
2,500.0	2,482.6	2,457.6	2,457.6	6.4	4.3	-170.09	155.9	678.2	949.5	940.8	8.68	109.419		
2,600.0	2,581.5	2,556.5	2,556.5	6.7	4.5	-170.23	155.9	678.2	963.8	954.8	9.03	106.769		
2,700.0	2,680.5	2,655.5	2,655.5	7.0	4.6	-170.38	155.9	678.2	978.1	968.8	9.38	104.320		
2,800.0	2,779.4	2,754.4	2,754.4	7.3	4.8	-170.52	155.9	678.2	992.5	982.7	9.73	102.049	SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 4-6-35 (EXISTING) - ENCANA WELL - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,400.0	7,227.6	7,342.0	7,223.6	19.9	23.7	-13.15	901.3	-1,069.9	995.0	967.8	27.20	36.584		
7,500.0	7,277.4	7,391.7	7,273.4	20.1	23.8	-21.10	901.3	-1,069.9	909.3	883.4	25.92	35.086		
7,600.0	7,314.7	7,429.1	7,310.7	20.4	23.8	-34.39	901.3	-1,069.9	818.3	791.4	26.86	30.462		
7,700.0	7,338.9	7,453.3	7,334.9	20.8	23.8	-56.36	901.3	-1,069.9	723.9	692.7	31.22	23.191		
7,800.0	7,349.5	7,463.9	7,345.5	21.3	23.9	-83.55	901.3	-1,069.9	628.6	593.6	34.98	17.973		
7,900.0	7,350.0	7,464.4	7,346.0	21.9	23.9	-90.00	901.3	-1,069.9	534.7	498.7	35.90	14.892		
8,000.0	7,350.0	7,464.4	7,346.0	22.7	23.9	-90.00	901.3	-1,069.9	443.4	406.4	36.95	11.998		
8,100.0	7,350.0	7,464.4	7,346.0	23.6	23.9	-90.00	901.3	-1,069.9	356.8	318.6	38.11	9.360		
8,200.0	7,350.0	7,464.4	7,346.0	24.5	23.9	-90.00	901.3	-1,069.9	279.3	239.9	39.37	7.094		
8,300.0	7,350.0	7,464.4	7,346.0	25.6	23.9	-90.00	901.3	-1,069.9	220.7	180.0	40.69	5.423		
8,396.4	7,350.0	7,464.4	7,346.0	26.6	23.9	-90.00	901.3	-1,069.9	198.5	156.5	42.03	4.722 CC		
8,400.0	7,350.0	7,464.4	7,346.0	26.7	23.9	-90.00	901.3	-1,069.9	198.5	156.4	42.08	4.718 ES, SF		
8,500.0	7,350.0	7,464.4	7,346.0	27.9	23.9	-90.00	901.3	-1,069.9	223.9	180.4	43.52	5.145		
8,600.0	7,350.0	7,464.4	7,346.0	29.1	23.9	-90.00	901.3	-1,069.9	284.3	239.3	44.99	6.319		
8,700.0	7,350.0	7,464.4	7,346.0	30.4	23.9	-90.00	901.3	-1,069.9	362.7	316.2	46.51	7.799		
8,800.0	7,350.0	7,464.4	7,346.0	31.7	23.9	-90.00	901.3	-1,069.9	449.7	401.7	48.05	9.360		
8,900.0	7,350.0	7,464.4	7,346.0	33.1	23.9	-90.00	901.3	-1,069.9	541.3	491.7	49.61	10.910		
9,000.0	7,350.0	7,464.4	7,346.0	34.5	23.9	-90.00	901.3	-1,069.9	635.4	584.2	51.19	12.411		
9,100.0	7,350.0	7,464.4	7,346.0	36.0	23.9	-90.00	901.3	-1,069.9	731.0	678.2	52.80	13.846		
9,200.0	7,350.0	7,464.4	7,346.0	37.4	23.9	-90.00	901.3	-1,069.9	827.7	773.3	54.41	15.211		
9,300.0	7,350.0	7,464.4	7,346.0	38.9	23.9	-90.00	901.3	-1,069.9	925.1	869.1	56.04	16.507		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 4-6-35 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 806-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		
7,400.0	7,227.6	7,349.4	7,221.0	19.9	23.8	-11.43	879.0	-1,048.3	968.8	942.0	26.81	36.134		
7,500.0	7,277.4	7,397.7	7,269.4	20.1	23.9	-18.85	879.1	-1,048.8	883.1	857.7	25.41	34.756		
7,600.0	7,314.7	7,434.4	7,306.1	20.4	23.9	-31.40	879.2	-1,049.0	791.9	765.8	26.15	30.285		
7,700.0	7,338.9	7,458.6	7,330.2	20.8	23.9	-53.06	879.4	-1,049.1	697.3	666.7	30.63	22.764		
7,800.0	7,349.5	7,469.7	7,341.3	21.3	23.9	-81.72	879.4	-1,049.1	601.5	566.4	35.09	17.140		
7,900.0	7,350.0	7,470.8	7,342.4	21.9	23.9	-88.86	879.4	-1,049.1	506.8	470.7	36.11	14.035		
8,000.0	7,350.0	7,471.4	7,343.1	22.7	23.9	-89.06	879.4	-1,049.1	414.7	377.5	37.16	11.159		
8,100.0	7,350.0	7,472.1	7,343.7	23.6	23.9	-89.26	879.4	-1,049.1	327.1	288.8	38.32	8.537		
8,200.0	7,350.0	7,472.7	7,344.3	24.5	23.9	-89.46	879.4	-1,049.1	249.2	209.6	39.57	6.298		
8,300.0	7,350.0	7,473.3	7,345.0	25.6	23.9	-89.66	879.4	-1,049.1	192.8	151.9	40.89	4.715		
8,374.6	7,350.0	7,473.8	7,345.4	26.4	23.9	-89.81	879.4	-1,049.1	177.8	135.8	41.92	4.240 CC, ES, SF		
8,400.0	7,350.0	7,473.9	7,345.6	26.7	23.9	-89.86	879.4	-1,049.1	179.6	137.3	42.27	4.247		
8,500.0	7,350.0	7,474.6	7,346.2	27.9	23.9	-90.06	879.5	-1,049.2	217.5	173.8	43.71	4.977		
8,600.0	7,350.0	7,475.2	7,346.8	29.1	23.9	-90.26	879.5	-1,049.2	287.0	241.8	45.18	6.353		
8,700.0	7,350.0	7,475.8	7,347.4	30.4	23.9	-90.46	879.5	-1,049.2	370.8	324.1	46.69	7.941		
8,800.0	7,350.0	7,476.4	7,348.0	31.7	23.9	-90.65	879.5	-1,049.2	461.0	412.8	48.23	9.559		
8,900.0	7,350.0	7,477.0	7,348.6	33.1	23.9	-90.85	879.5	-1,049.2	554.6	504.8	49.79	11.140		
9,000.0	7,350.0	7,477.6	7,349.2	34.5	23.9	-91.05	879.5	-1,049.2	650.1	598.8	51.36	12.657		
9,100.0	7,350.0	7,478.2	7,349.8	36.0	23.9	-91.24	879.5	-1,049.2	746.8	693.9	52.96	14.101		
9,200.0	7,350.0	7,478.8	7,350.4	37.4	23.9	-91.43	879.5	-1,049.2	844.3	789.7	54.57	15.471		
9,300.0	7,350.0	7,479.4	7,351.0	38.9	23.9	-91.63	879.5	-1,049.2	942.3	886.1	56.19	16.768		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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: 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)				
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	24.841		
166.7	166.7	166.7	166.7	0.3	0.3	-89.94	0.0	-7.5	7.5	7.0	0.54	14.065 CC		
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 ES		
300.0	300.0	299.9	299.9	0.5	0.5	-92.13	-0.3	-8.4	8.4	7.4	1.00	8.344		
400.0	400.0	399.7	399.7	0.7	0.7	21.36	-1.3	-10.8	10.0	8.7	1.35	7.436		
500.0	500.0	499.5	499.4	0.9	0.9	20.00	-2.9	-14.8	11.8	10.1	1.70	6.931		
600.0	599.9	599.3	599.0	1.0	1.1	19.59	-5.1	-20.5	13.6	11.5	2.05	6.617		
700.0	699.7	699.0	698.4	1.2	1.3	19.80	-7.9	-27.8	15.4	13.0	2.41	6.404		
800.0	799.4	798.7	797.6	1.4	1.5	20.45	-11.4	-36.6	17.3	14.5	2.76	6.252		
900.0	898.9	898.4	896.7	1.7	1.8	21.39	-15.6	-47.1	19.2	16.1	3.13	6.136		
1,000.0	998.3	998.0	995.5	1.9	2.0	22.54	-20.3	-59.2	21.1	17.6	3.50	6.042		
1,100.0	1,097.4	1,097.7	1,094.0	2.2	2.3	23.84	-25.7	-72.8	23.2	19.3	3.89	5.959		
1,200.0	1,196.4	1,197.2	1,192.2	2.5	2.7	24.89	-31.7	-88.1	25.6	21.3	4.29	5.965		
1,300.0	1,295.3	1,297.1	1,290.5	2.8	3.0	24.97	-38.2	-104.5	29.1	24.4	4.69	6.208		
1,400.0	1,394.2	1,397.0	1,388.8	3.1	3.3	25.00	-44.7	-121.0	32.6	27.6	5.09	6.420		
1,500.0	1,493.2	1,496.9	1,487.2	3.4	3.7	25.02	-51.2	-137.6	36.2	30.7	5.49	6.599		
1,600.0	1,592.1	1,596.9	1,585.5	3.6	4.0	25.04	-57.7	-154.1	39.8	33.9	5.89	6.752		
1,700.0	1,691.1	1,696.8	1,683.9	3.9	4.4	25.06	-64.2	-170.6	43.3	37.0	6.29	6.884		
1,800.0	1,790.0	1,796.7	1,782.2	4.2	4.7	25.07	-70.7	-187.1	46.9	40.2	6.70	6.999		
1,900.0	1,888.9	1,896.7	1,880.6	4.6	5.1	25.08	-77.2	-203.6	50.4	43.3	7.11	7.100		
2,000.0	1,987.9	1,996.6	1,978.9	4.9	5.4	25.09	-83.7	-220.1	54.0	46.5	7.51	7.189		
2,100.0	2,086.8	2,096.6	2,077.3	5.2	5.8	25.10	-90.2	-236.6	57.6	49.6	7.92	7.269		
2,200.0	2,185.8	2,196.5	2,175.6	5.5	6.1	25.11	-96.7	-253.1	61.1	52.8	8.33	7.340		
2,300.0	2,284.7	2,296.4	2,273.9	5.8	6.5	25.12	-103.2	-269.6	64.7	56.0	8.74	7.405		
2,400.0	2,383.7	2,396.4	2,372.3	6.1	6.8	25.12	-109.7	-286.1	68.2	59.1	9.14	7.463		
2,500.0	2,482.6	2,496.3	2,470.6	6.4	7.2	25.13	-116.2	-302.7	71.8	62.3	9.55	7.517		
2,600.0	2,581.5	2,596.2	2,569.0	6.7	7.6	25.14	-122.7	-319.2	75.4	65.4	9.96	7.565		
2,700.0	2,680.5	2,696.2	2,667.3	7.0	7.9	25.14	-129.2	-335.7	78.9	68.6	10.37	7.610		
2,800.0	2,779.4	2,796.1	2,765.7	7.3	8.3	25.14	-135.7	-352.2	82.5	71.7	10.78	7.651		
2,900.0	2,878.4	2,896.1	2,864.0	7.6	8.6	25.15	-142.2	-368.7	86.0	74.9	11.19	7.689		
3,000.0	2,977.3	2,996.0	2,962.4	7.9	9.0	25.15	-148.7	-385.2	89.6	78.0	11.60	7.724		
3,100.0	3,076.2	3,095.9	3,060.7	8.2	9.3	25.16	-155.2	-401.7	93.2	81.2	12.01	7.756		
3,200.0	3,175.2	3,195.9	3,159.1	8.5	9.7	25.16	-161.7	-418.2	96.7	84.3	12.42	7.787		
3,300.0	3,274.1	3,295.8	3,257.4	8.8	10.1	25.16	-168.2	-434.7	100.3	87.5	12.83	7.815		
3,400.0	3,373.1	3,395.7	3,355.8	9.1	10.4	25.16	-174.7	-451.2	103.8	90.6	13.24	7.842		
3,500.0	3,472.0	3,495.7	3,454.1	9.4	10.8	25.17	-181.2	-467.8	107.4	93.8	13.65	7.866		
3,600.0	3,570.9	3,595.6	3,552.5	9.8	11.1	25.17	-187.7	-484.3	111.0	96.9	14.06	7.890		
3,700.0	3,669.9	3,695.5	3,650.8	10.1	11.5	25.17	-194.2	-500.8	114.5	100.1	14.48	7.912		
3,800.0	3,768.8	3,795.5	3,749.2	10.4	11.8	25.17	-200.7	-517.3	118.1	103.2	14.89	7.932		
3,900.0	3,867.8	3,895.4	3,847.5	10.7	12.2	25.17	-207.2	-533.8	121.6	106.3	15.30	7.952		
4,000.0	3,966.7	3,995.4	3,945.9	11.0	12.6	25.18	-213.7	-550.3	125.2	109.5	15.71	7.971		
4,100.0	4,065.7	4,095.3	4,044.2	11.3	12.9	25.18	-220.2	-566.8	128.8	112.6	16.12	7.988		
4,200.0	4,164.6	4,195.2	4,142.6	11.6	13.3	25.18	-226.7	-583.3	132.3	115.8	16.53	8.005		
4,300.0	4,263.5	4,295.2	4,240.9	11.9	13.6	25.18	-233.2	-599.8	135.9	118.9	16.94	8.021		
4,400.0	4,362.5	4,395.1	4,339.3	12.2	14.0	25.18	-239.7	-616.3	139.4	122.1	17.35	8.036		
4,500.0	4,461.4	4,495.0	4,437.6	12.5	14.3	25.18	-246.2	-632.9	143.0	125.2	17.77	8.050		
4,600.0	4,560.4	4,595.0	4,536.0	12.8	14.7	25.19	-252.7	-649.4	146.6	128.4	18.18	8.063		
4,700.0	4,659.3	4,694.9	4,634.3	13.1	15.1	25.19	-259.2	-665.9	150.1	131.5	18.59	8.077		
4,800.0	4,758.2	4,794.8	4,732.7	13.5	15.4	25.19	-265.7	-682.4	153.7	134.7	19.00	8.089		
4,900.0	4,857.2	4,894.8	4,831.0	13.8	15.8	25.19	-272.2	-698.9	157.2	137.8	19.41	8.101		
5,000.0	4,956.1	4,994.7	4,929.4	14.1	16.1	25.19	-278.7	-715.4	160.8	141.0	19.82	8.112		

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 4B-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 4B-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			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	5,055.1	5,094.7	5,027.7	14.4	16.5	25.19	-285.2	-731.9	164.4	144.1	20.23	8.123	
5,200.0	5,154.0	5,194.6	5,126.1	14.7	16.9	25.19	-291.7	-748.4	167.9	147.3	20.65	8.134	
5,300.0	5,253.0	5,294.5	5,224.4	15.0	17.2	25.19	-298.2	-764.9	171.5	150.4	21.06	8.144	
5,400.0	5,351.9	5,394.5	5,322.8	15.3	17.6	25.19	-304.7	-781.4	175.0	153.6	21.47	8.153	
5,500.0	5,450.8	5,494.4	5,421.1	15.6	17.9	25.20	-311.2	-798.0	178.6	156.7	21.88	8.163	
5,600.0	5,549.8	5,594.3	5,519.5	15.9	18.3	25.20	-317.7	-814.5	182.2	159.9	22.29	8.172	
5,700.0	5,648.7	5,694.3	5,617.8	16.2	18.6	25.20	-324.2	-831.0	185.7	163.0	22.70	8.180	
5,800.0	5,747.7	5,794.2	5,716.2	16.5	19.0	25.20	-330.7	-847.5	189.3	166.2	23.12	8.188	
5,900.0	5,846.6	5,894.1	5,814.5	16.9	19.4	25.20	-337.2	-864.0	192.8	169.3	23.53	8.196	
6,000.0	5,945.5	5,994.1	5,912.9	17.2	19.7	25.20	-343.7	-880.5	196.4	172.5	23.94	8.204	
6,100.0	6,044.5	6,094.0	6,011.2	17.5	20.1	25.20	-350.2	-897.0	200.0	175.6	24.35	8.212	
6,200.0	6,143.4	6,194.0	6,109.6	17.8	20.4	25.20	-356.7	-913.5	203.5	178.8	24.76	8.219	
6,300.0	6,242.4	6,293.9	6,207.9	18.1	20.8	25.20	-363.2	-930.0	207.1	181.9	25.18	8.226	
6,400.0	6,341.3	6,393.8	6,306.3	18.4	21.2	25.20	-369.7	-946.5	210.6	185.1	25.59	8.232	
6,500.0	6,440.2	6,493.8	6,404.6	18.7	21.5	25.20	-376.2	-963.1	214.2	188.2	26.00	8.239	
6,600.0	6,539.2	6,593.8	6,503.2	19.0	21.9	25.78	-380.5	-979.6	217.7	191.2	26.53	8.207	
6,700.0	6,638.2	6,692.2	6,599.7	19.3	22.1	4.21	-372.4	-995.8	221.6	193.9	27.74	7.989	
6,800.0	6,737.0	6,788.3	6,692.2	19.5	22.3	-39.00	-351.7	-1,011.3	226.5	197.7	28.85	7.851	
6,900.0	6,834.0	6,882.7	6,779.6	19.6	22.4	-53.50	-319.3	-1,026.0	232.1	202.6	29.52	7.862	
7,000.0	6,927.2	6,975.4	6,860.6	19.7	22.5	-57.89	-276.3	-1,039.6	238.2	208.5	29.67	8.026	
7,100.0	7,014.7	7,066.8	6,934.4	19.7	22.6	-59.00	-224.0	-1,052.0	244.3	215.0	29.30	8.340	
7,200.0	7,095.0	7,156.9	7,000.2	19.8	22.7	-58.91	-163.5	-1,063.0	250.4	221.9	28.48	8.790	
7,300.0	7,166.5	7,246.0	7,057.4	19.8	22.8	-58.36	-95.9	-1,072.6	255.9	228.6	27.38	9.347	
7,400.0	7,227.6	7,334.3	7,105.4	19.9	23.0	-57.71	-22.3	-1,080.7	260.9	234.6	26.21	9.952	
7,500.0	7,277.4	7,422.0	7,143.9	20.1	23.2	-57.11	56.0	-1,087.2	264.9	239.6	25.35	10.451	
7,600.0	7,314.7	7,509.1	7,172.6	20.4	23.4	-56.65	138.1	-1,092.0	267.9	242.9	25.02	10.708	
7,700.0	7,338.9	7,595.9	7,191.2	20.8	23.8	-56.38	222.8	-1,095.1	269.9	244.3	25.54	10.566	
7,800.0	7,349.5	7,682.5	7,199.5	21.3	24.2	-56.31	309.0	-1,096.5	270.6	243.6	27.00	10.022	
7,900.0	7,350.0	7,778.4	7,200.0	21.9	24.7	-56.33	404.8	-1,096.6	270.6	241.9	28.65	9.443	
8,000.0	7,350.0	7,878.4	7,200.0	22.7	25.4	-56.33	504.8	-1,096.6	270.6	240.2	30.35	8.914	
8,100.0	7,350.0	7,978.4	7,200.0	23.6	26.2	-56.33	604.8	-1,096.6	270.6	238.3	32.23	8.396	
8,200.0	7,350.0	8,078.4	7,200.0	24.5	27.0	-56.33	704.8	-1,096.6	270.6	236.3	34.25	7.900	
8,300.0	7,350.0	8,178.4	7,200.0	25.6	28.0	-56.33	804.8	-1,096.6	270.6	234.2	36.40	7.434	
8,400.0	7,350.0	8,278.4	7,200.0	26.7	29.0	-56.33	904.8	-1,096.6	270.6	231.9	38.65	7.001	
8,500.0	7,350.0	8,378.4	7,200.0	27.9	30.1	-56.33	1,004.8	-1,096.6	270.6	229.6	40.98	6.602	
8,600.0	7,350.0	8,478.4	7,200.0	29.1	31.2	-56.33	1,104.8	-1,096.6	270.6	227.2	43.39	6.236	
8,700.0	7,350.0	8,578.4	7,200.0	30.4	32.4	-56.33	1,204.8	-1,096.6	270.6	224.7	45.86	5.901	
8,800.0	7,350.0	8,678.4	7,200.0	31.7	33.7	-56.33	1,304.8	-1,096.6	270.6	222.2	48.38	5.593	
8,900.0	7,350.0	8,778.4	7,200.0	33.1	35.0	-56.33	1,404.8	-1,096.6	270.6	219.6	50.94	5.312	
9,000.0	7,350.0	8,878.4	7,200.0	34.5	36.3	-56.33	1,504.8	-1,096.6	270.6	217.0	53.54	5.054	
9,100.0	7,350.0	8,978.4	7,200.0	36.0	37.7	-56.33	1,604.8	-1,096.6	270.6	214.4	56.17	4.817	
9,200.0	7,350.0	9,078.4	7,200.0	37.4	39.1	-56.33	1,704.8	-1,096.6	270.6	211.7	58.83	4.599	
9,300.0	7,350.0	9,178.4	7,200.0	38.9	40.5	-56.33	1,804.8	-1,096.6	270.6	209.1	61.52	4.398	
9,400.0	7,350.0	9,278.4	7,200.0	40.4	42.0	-56.33	1,904.8	-1,096.6	270.6	206.4	64.22	4.213	
9,500.0	7,350.0	9,378.4	7,200.0	42.0	43.4	-56.33	2,004.8	-1,096.6	270.6	203.6	66.95	4.042	
9,600.0	7,350.0	9,478.4	7,200.0	43.5	44.9	-56.33	2,104.8	-1,096.6	270.6	200.9	69.69	3.883	
9,700.0	7,350.0	9,578.4	7,200.0	45.1	46.4	-56.33	2,204.8	-1,096.6	270.6	198.1	72.44	3.735	
9,800.0	7,350.0	9,678.4	7,200.0	46.7	48.0	-56.33	2,304.8	-1,096.6	270.6	195.4	75.21	3.598	
9,900.0	7,350.0	9,778.4	7,200.0	48.2	49.5	-56.33	2,404.8	-1,096.6	270.6	192.6	77.99	3.469	
10,000.0	7,350.0	9,878.4	7,200.0	49.8	51.1	-56.33	2,504.8	-1,096.6	270.6	189.8	80.78	3.349	
10,100.0	7,350.0	9,978.4	7,200.0	51.5	52.6	-56.33	2,604.8	-1,096.6	270.6	187.0	83.58	3.237	
10,200.0	7,350.0	10,078.4	7,200.0	53.1	54.2	-56.33	2,704.8	-1,096.6	270.6	184.2	86.39	3.132	

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 4B-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 4B-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			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	
10,300.0	7,350.0	10,178.4	7,200.0	54.7	55.8	-56.33	2,804.8	-1,096.6	270.6	181.4	89.21	3.033		
10,400.0	7,350.0	10,278.4	7,200.0	56.3	57.4	-56.33	2,904.8	-1,096.6	270.6	178.5	92.03	2.940		
10,500.0	7,350.0	10,378.4	7,200.0	58.0	59.0	-56.33	3,004.8	-1,096.6	270.6	175.7	94.86	2.852		
10,600.0	7,350.0	10,478.4	7,200.0	59.6	60.7	-56.33	3,104.8	-1,096.6	270.6	172.9	97.69	2.770		
10,700.0	7,350.0	10,578.4	7,200.0	61.3	62.3	-56.33	3,204.8	-1,096.6	270.6	170.0	100.53	2.691		
10,800.0	7,350.0	10,678.4	7,200.0	62.9	63.9	-56.33	3,304.8	-1,096.6	270.6	167.2	103.38	2.617		
10,900.0	7,350.0	10,778.4	7,200.0	64.6	65.6	-56.33	3,404.8	-1,096.6	270.6	164.3	106.23	2.547		
11,000.0	7,350.0	10,878.4	7,200.0	66.3	67.2	-56.33	3,504.8	-1,096.6	270.6	161.5	109.08	2.480		
11,100.0	7,350.0	10,978.4	7,200.0	67.9	68.8	-56.33	3,604.8	-1,096.6	270.6	158.6	111.94	2.417		
11,200.0	7,350.0	11,078.4	7,200.0	69.6	70.5	-56.33	3,704.8	-1,096.6	270.6	155.8	114.80	2.357		
11,300.0	7,350.0	11,178.4	7,200.0	71.3	72.2	-56.33	3,804.8	-1,096.6	270.6	152.9	117.67	2.299		
11,400.0	7,350.0	11,278.4	7,200.0	73.0	73.8	-56.33	3,904.8	-1,096.6	270.6	150.0	120.54	2.245		
11,500.0	7,350.0	11,378.4	7,200.0	74.7	75.5	-56.33	4,004.8	-1,096.6	270.6	147.2	123.41	2.193		
11,600.0	7,350.0	11,478.4	7,200.0	76.4	77.2	-56.33	4,104.8	-1,096.6	270.6	144.3	126.28	2.143		
11,700.0	7,350.0	11,578.4	7,200.0	78.1	78.8	-56.33	4,204.8	-1,096.6	270.6	141.4	129.15	2.095		
11,800.0	7,350.0	11,678.4	7,200.0	79.8	80.5	-56.33	4,304.8	-1,096.6	270.6	138.5	132.03	2.049		
11,900.0	7,350.0	11,778.4	7,200.0	81.5	82.2	-56.33	4,404.8	-1,096.6	270.6	135.7	134.91	2.006		
11,934.7	7,350.0	11,813.1	7,200.0	82.1	82.8	-56.33	4,439.5	-1,096.6	270.6	134.7	135.91	1.991 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	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	24.841			
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	CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-156.21	0.0	7.5	8.3	7.0	1.35	6.170			
500.0	500.0	500.1	500.1	0.9	0.9	-159.47	-0.5	6.8	10.0	8.3	1.70	5.893			
600.0	599.9	600.3	600.2	1.0	1.0	-160.43	-2.1	4.7	11.9	9.8	2.05	5.777			
700.0	699.7	700.4	700.3	1.2	1.2	-159.97	-4.7	1.2	13.8	11.4	2.40	5.741			
800.0	799.4	800.6	800.3	1.4	1.4	-158.62	-8.3	-3.7	15.9	13.1	2.76	5.749			
900.0	898.9	900.9	900.2	1.7	1.6	-156.72	-13.0	-10.1	18.1	15.0	3.13	5.783			
1,000.0	998.3	1,001.1	1,000.0	1.9	1.8	-154.50	-18.7	-17.8	20.5	17.0	3.52	5.830			
1,100.0	1,097.4	1,101.2	1,099.5	2.2	2.1	-152.52	-25.3	-26.7	23.3	19.4	3.92	5.945			
1,200.0	1,196.4	1,201.1	1,198.8	2.5	2.3	-152.15	-31.9	-35.8	27.2	22.9	4.33	6.290			
1,300.0	1,295.3	1,301.1	1,298.1	2.8	2.6	-151.97	-38.6	-44.8	31.2	26.5	4.73	6.590			
1,400.0	1,394.2	1,401.0	1,397.4	3.1	2.8	-151.83	-45.2	-53.8	35.2	30.0	5.15	6.837			
1,500.0	1,493.2	1,500.9	1,496.6	3.4	3.1	-151.72	-51.9	-62.9	39.2	33.6	5.56	7.044			
1,600.0	1,592.1	1,600.8	1,595.9	3.6	3.3	-151.63	-58.6	-71.9	43.2	37.2	5.98	7.221			
1,700.0	1,691.1	1,700.7	1,695.2	3.9	3.6	-151.55	-65.2	-80.9	47.1	40.8	6.40	7.372			
1,800.0	1,790.0	1,800.7	1,794.5	4.2	3.8	-151.49	-71.9	-90.0	51.1	44.3	6.82	7.503			
1,900.0	1,888.9	1,900.6	1,893.8	4.6	4.1	-151.43	-78.5	-99.0	55.1	47.9	7.24	7.618			
2,000.0	1,987.9	2,000.5	1,993.1	4.9	4.3	-151.39	-85.2	-108.0	59.1	51.5	7.66	7.720			
2,100.0	2,086.8	2,100.4	2,092.4	5.2	4.6	-151.34	-91.8	-117.1	63.1	55.0	8.08	7.810			
2,200.0	2,185.8	2,200.3	2,191.7	5.5	4.9	-151.31	-98.5	-126.1	67.1	58.6	8.50	7.890			
2,300.0	2,284.7	2,300.3	2,291.0	5.8	5.1	-151.28	-105.2	-135.1	71.1	62.1	8.93	7.963			
2,400.0	2,383.7	2,400.2	2,390.2	6.1	5.4	-151.25	-111.8	-144.2	75.1	65.7	9.35	8.028			
2,500.0	2,482.6	2,500.1	2,489.5	6.4	5.6	-151.22	-118.5	-153.2	79.1	69.3	9.77	8.087			
2,600.0	2,581.5	2,600.0	2,588.8	6.7	5.9	-151.20	-125.1	-162.2	83.0	72.8	10.20	8.142			
2,700.0	2,680.5	2,699.9	2,688.1	7.0	6.2	-151.18	-131.8	-171.2	87.0	76.4	10.62	8.191			
2,800.0	2,779.4	2,799.9	2,787.4	7.3	6.4	-151.16	-138.4	-180.3	91.0	80.0	11.05	8.237			
2,900.0	2,878.4	2,899.8	2,886.7	7.6	6.7	-151.14	-145.1	-189.3	95.0	83.5	11.48	8.279			
3,000.0	2,977.3	2,999.7	2,986.0	7.9	6.9	-151.12	-151.8	-198.3	99.0	87.1	11.90	8.317			
3,100.0	3,076.2	3,099.6	3,085.3	8.2	7.2	-151.11	-158.4	-207.4	103.0	90.7	12.33	8.353			
3,200.0	3,175.2	3,199.5	3,184.6	8.5	7.5	-151.09	-165.1	-216.4	107.0	94.2	12.75	8.387			
3,300.0	3,274.1	3,299.5	3,283.8	8.8	7.7	-151.08	-171.7	-225.4	111.0	97.8	13.18	8.418			
3,400.0	3,373.1	3,399.4	3,383.1	9.1	8.0	-151.07	-178.4	-234.5	114.9	101.3	13.61	8.447			
3,500.0	3,472.0	3,499.3	3,482.4	9.4	8.2	-151.06	-185.0	-243.5	118.9	104.9	14.03	8.474			
3,600.0	3,570.9	3,599.2	3,581.7	9.8	8.5	-151.05	-191.7	-252.5	122.9	108.5	14.46	8.500			
3,700.0	3,669.9	3,699.1	3,681.0	10.1	8.8	-151.04	-198.4	-261.6	126.9	112.0	14.89	8.524			
3,800.0	3,768.8	3,799.1	3,780.3	10.4	9.0	-151.03	-205.0	-270.6	130.9	115.6	15.32	8.546			
3,900.0	3,867.8	3,899.0	3,879.6	10.7	9.3	-151.02	-211.7	-279.6	134.9	119.1	15.74	8.568			
4,000.0	3,966.7	3,998.9	3,978.9	11.0	9.5	-151.01	-218.3	-288.7	138.9	122.7	16.17	8.588			
4,100.0	4,065.7	4,098.8	4,078.1	11.3	9.8	-151.00	-225.0	-297.7	142.9	126.3	16.60	8.607			
4,200.0	4,164.6	4,198.7	4,177.4	11.6	10.1	-151.00	-231.6	-306.7	146.8	129.8	17.03	8.625			
4,300.0	4,263.5	4,298.7	4,276.7	11.9	10.3	-150.99	-238.3	-315.8	150.8	133.4	17.45	8.642			
4,400.0	4,362.5	4,398.6	4,376.0	12.2	10.6	-150.98	-245.0	-324.8	154.8	136.9	17.88	8.659			
4,500.0	4,461.4	4,498.5	4,475.3	12.5	10.9	-150.98	-251.6	-333.8	158.8	140.5	18.31	8.674			
4,600.0	4,560.4	4,598.4	4,574.6	12.8	11.1	-150.97	-258.3	-342.9	162.8	144.1	18.74	8.689			
4,700.0	4,659.3	4,698.3	4,673.9	13.1	11.4	-150.97	-264.9	-351.9	166.8	147.6	19.16	8.703			
4,800.0	4,758.2	4,798.3	4,773.2	13.5	11.6	-150.96	-271.6	-360.9	170.8	151.2	19.59	8.717			
4,900.0	4,857.2	4,898.2	4,872.5	13.8	11.9	-150.95	-278.2	-370.0	174.8	154.7	20.02	8.730			
5,000.0	4,956.1	4,998.1	4,971.7	14.1	12.2	-150.95	-284.9	-379.0	178.8	158.3	20.45	8.742			
5,100.0	5,055.1	5,098.0	5,071.0	14.4	12.4	-150.95	-291.6	-388.0	182.7	161.9	20.88	8.754			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 (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	5,154.0	5,198.0	5,170.3	14.7	12.7	-150.94	-298.2	-397.1	186.7	165.4	21.30	8.765		
5,300.0	5,253.0	5,297.9	5,269.6	15.0	13.0	-150.94	-304.9	-406.1	190.7	169.0	21.73	8.776		
5,400.0	5,351.9	5,397.8	5,368.9	15.3	13.2	-150.93	-311.5	-415.1	194.7	172.5	22.16	8.786		
5,500.0	5,450.8	5,497.7	5,468.2	15.6	13.5	-150.93	-318.2	-424.2	198.7	176.1	22.59	8.796		
5,600.0	5,549.8	5,597.6	5,567.5	15.9	13.7	-150.92	-324.8	-433.2	202.7	179.7	23.02	8.806		
5,700.0	5,648.7	5,697.6	5,666.8	16.2	14.0	-150.92	-331.5	-442.2	206.7	183.2	23.45	8.815		
5,800.0	5,747.7	5,797.5	5,766.1	16.5	14.3	-150.92	-338.2	-451.3	210.7	186.8	23.87	8.824		
5,900.0	5,846.6	5,897.4	5,865.3	16.9	14.5	-150.91	-344.8	-460.3	214.6	190.3	24.30	8.833		
6,000.0	5,945.5	5,997.3	5,964.6	17.2	14.8	-150.91	-351.5	-469.3	218.6	193.9	24.73	8.841		
6,100.0	6,044.5	6,097.2	6,063.9	17.5	15.1	-150.91	-358.1	-478.3	222.6	197.5	25.16	8.849		
6,200.0	6,143.4	6,197.2	6,163.2	17.8	15.3	-150.90	-364.8	-487.4	226.6	201.0	25.59	8.857		
6,300.0	6,242.4	6,297.1	6,262.5	18.1	15.6	-150.90	-371.5	-496.4	230.6	204.6	26.02	8.864		
6,400.0	6,341.3	6,397.0	6,361.8	18.4	15.8	-150.90	-378.1	-505.4	234.6	208.1	26.44	8.871		
6,500.0	6,440.2	6,498.3	6,462.6	18.7	16.0	-152.34	-378.8	-514.7	238.3	211.8	26.50	8.992		
6,600.0	6,539.2	6,596.3	6,559.3	19.0	16.1	-156.88	-366.0	-523.8	242.3	216.5	25.83	9.381		
6,700.0	6,638.2	6,688.1	6,647.4	19.3	16.2	171.21	-342.1	-532.2	249.5	224.7	24.81	10.055		
6,800.0	6,737.0	6,775.9	6,728.2	19.5	16.1	117.17	-308.8	-540.1	260.3	236.1	24.12	10.790		
6,900.0	6,834.0	6,860.9	6,802.0	19.6	16.1	92.99	-267.4	-547.4	273.4	249.4	23.96	11.411		
7,000.0	6,927.2	6,943.5	6,868.5	19.7	16.0	80.16	-218.9	-554.2	287.7	263.6	24.17	11.908		
7,100.0	7,014.7	7,024.1	6,927.6	19.7	16.0	71.82	-164.5	-560.4	302.4	277.8	24.52	12.332		
7,200.0	7,095.0	7,100.0	6,977.4	19.8	16.1	65.95	-107.6	-565.8	316.4	291.6	24.79	12.762		
7,300.0	7,166.5	7,180.9	7,023.5	19.8	16.1	61.43	-41.4	-571.0	329.2	304.2	25.00	13.165		
7,400.0	7,227.6	7,257.5	7,060.1	19.9	16.3	58.11	25.8	-575.3	340.2	315.2	24.98	13.621		
7,500.0	7,277.4	7,333.3	7,089.0	20.1	16.6	55.67	95.7	-578.9	349.1	324.3	24.88	14.035		
7,600.0	7,314.7	7,408.5	7,110.3	20.4	16.9	53.96	167.7	-581.9	355.6	330.9	24.74	14.375		
7,700.0	7,338.9	7,483.3	7,123.9	20.8	17.3	52.89	241.2	-584.1	359.4	334.8	24.65	14.580		
7,800.0	7,349.5	7,557.8	7,129.8	21.3	17.8	52.40	315.5	-585.7	360.5	335.8	24.71	14.590		
7,900.0	7,350.0	7,651.2	7,130.0	21.9	18.5	52.27	408.8	-587.0	359.5	333.7	25.89	13.887		
8,000.0	7,350.0	7,751.2	7,130.0	22.7	19.5	52.14	508.8	-588.4	358.4	330.9	27.58	12.997		
8,100.0	7,350.0	7,851.1	7,130.0	23.6	20.5	52.00	608.7	-589.8	357.3	327.9	29.42	12.145		
8,200.0	7,350.0	7,951.1	7,130.0	24.5	21.6	51.86	708.7	-591.2	356.2	324.8	31.39	11.349		
8,300.0	7,350.0	8,051.1	7,130.0	25.6	22.8	51.72	808.7	-592.6	355.1	321.7	33.46	10.614		
8,400.0	7,350.0	8,151.1	7,130.0	26.7	24.0	51.58	908.7	-594.0	354.0	318.4	35.61	9.942		
8,500.0	7,350.0	8,251.1	7,130.0	27.9	25.4	51.44	1,008.7	-595.4	353.0	315.1	37.83	9.331		
8,600.0	7,350.0	8,351.1	7,130.0	29.1	26.7	51.30	1,108.6	-596.8	351.9	311.8	40.09	8.776		
8,700.0	7,350.0	8,451.1	7,130.0	30.4	28.2	51.16	1,208.6	-598.2	350.8	308.4	42.40	8.273		
8,800.0	7,350.0	8,551.1	7,130.0	31.7	29.6	51.01	1,308.6	-599.6	349.7	304.9	44.74	7.816		
8,900.0	7,350.0	8,651.1	7,130.0	33.1	31.1	50.87	1,408.6	-601.0	348.6	301.5	47.11	7.400		
9,000.0	7,350.0	8,751.1	7,130.0	34.5	32.6	50.72	1,508.6	-602.4	347.5	298.0	49.49	7.022		
9,100.0	7,350.0	8,851.0	7,130.0	36.0	34.1	50.58	1,608.6	-603.8	346.4	294.5	51.89	6.676		
9,200.0	7,350.0	8,951.0	7,130.0	37.4	35.7	50.43	1,708.5	-605.2	345.4	291.1	54.31	6.360		
9,300.0	7,350.0	9,051.0	7,130.0	38.9	37.2	50.28	1,808.5	-606.6	344.3	287.6	56.73	6.069		
9,400.0	7,350.0	9,151.0	7,130.0	40.4	38.8	50.13	1,908.5	-608.0	343.2	284.1	59.15	5.802		
9,500.0	7,350.0	9,251.0	7,130.0	42.0	40.4	49.98	2,008.5	-609.4	342.1	280.6	61.58	5.556		
9,600.0	7,350.0	9,351.0	7,130.0	43.5	42.0	49.83	2,108.5	-610.8	341.1	277.1	64.01	5.329		
9,700.0	7,350.0	9,451.0	7,130.0	45.1	43.7	49.68	2,208.4	-612.2	340.0	273.6	66.44	5.118		
9,800.0	7,350.0	9,551.0	7,130.0	46.7	45.3	49.53	2,308.4	-613.6	338.9	270.1	68.86	4.922		
9,900.0	7,350.0	9,651.0	7,130.0	48.2	46.9	49.37	2,408.4	-615.0	337.9	266.6	71.29	4.740		
10,000.0	7,350.0	9,751.0	7,130.0	49.8	48.6	49.22	2,508.4	-616.4	336.8	263.1	73.70	4.570		
10,100.0	7,350.0	9,850.9	7,130.0	51.5	50.3	49.06	2,608.4	-617.8	335.8	259.7	76.12	4.411		
10,200.0	7,350.0	9,950.9	7,130.0	53.1	51.9	48.91	2,708.3	-619.2	334.7	256.2	78.52	4.263		
10,300.0	7,350.0	10,050.9	7,130.0	54.7	53.6	48.75	2,808.3	-620.5	333.7	252.8	80.92	4.124		

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 4B-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 4B-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 (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	7,350.0	10,150.9	7,130.0	56.3	55.3	48.59	2,908.3	-621.9	332.6	249.3	83.31	3.993		
10,500.0	7,350.0	10,250.9	7,130.0	58.0	56.9	48.43	3,008.3	-623.3	331.6	245.9	85.69	3.870		
10,600.0	7,350.0	10,350.9	7,130.0	59.6	58.6	48.27	3,108.3	-624.7	330.5	242.5	88.06	3.754		
10,700.0	7,350.0	10,450.9	7,130.0	61.3	60.3	48.11	3,208.2	-626.1	329.5	239.1	90.42	3.644		
10,800.0	7,350.0	10,550.9	7,130.0	62.9	62.0	47.95	3,308.2	-627.5	328.5	235.7	92.76	3.541		
10,900.0	7,350.0	10,650.9	7,130.0	64.6	63.7	47.78	3,408.2	-628.9	327.4	232.3	95.10	3.443		
11,000.0	7,350.0	10,750.9	7,130.0	66.3	65.4	47.62	3,508.2	-630.3	326.4	229.0	97.43	3.350		
11,100.0	7,350.0	10,850.9	7,130.0	67.9	67.1	47.45	3,608.2	-631.7	325.4	225.6	99.74	3.262		
11,200.0	7,350.0	10,950.8	7,130.0	69.6	68.8	47.29	3,708.1	-633.1	324.3	222.3	102.04	3.178		
11,300.0	7,350.0	11,050.8	7,130.0	71.3	70.5	47.12	3,808.1	-634.5	323.3	219.0	104.33	3.099		
11,400.0	7,350.0	11,150.8	7,130.0	73.0	72.2	46.95	3,908.1	-635.9	322.3	215.7	106.60	3.023		
11,500.0	7,350.0	11,250.8	7,130.0	74.7	73.9	46.78	4,008.1	-637.3	321.3	212.4	108.86	2.951		
11,600.0	7,350.0	11,350.8	7,130.0	76.4	75.6	46.61	4,108.1	-638.7	320.2	209.1	111.10	2.882		
11,700.0	7,350.0	11,450.8	7,130.0	78.1	77.3	46.44	4,208.0	-640.1	319.2	205.9	113.33	2.817		
11,800.0	7,350.0	11,550.8	7,130.0	79.8	79.1	46.26	4,308.0	-641.5	318.2	202.7	115.55	2.754		
11,824.5	7,350.0	11,575.3	7,130.0	80.2	79.5	46.22	4,332.5	-641.8	318.0	201.9	116.09	2.739 SF		
11,900.0	7,350.0	11,582.3	7,130.0	81.5	79.6	46.21	4,339.6	-641.9	324.5	207.4	117.10	2.771		
11,934.7	7,350.0	11,582.3	7,130.0	82.1	79.6	46.21	4,339.6	-641.9	333.2	215.7	117.54	2.835		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	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	49.682	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	23.115		
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	15.1	15.1	14.1	1.00	15.061		
400.0	400.0	400.0	400.0	0.7	0.7	-154.94	0.0	15.1	15.9	14.5	1.35	11.751		
500.0	500.0	500.0	500.0	0.9	0.8	-158.41	0.0	15.1	18.3	16.6	1.70	10.753		
600.0	599.9	600.2	600.2	1.0	1.0	-161.05	-0.7	14.5	21.7	19.7	2.05	10.599		
700.0	699.7	700.4	700.4	1.2	1.2	-161.63	-2.6	12.8	25.5	23.1	2.40	10.629		
800.0	799.4	800.7	800.5	1.4	1.4	-160.91	-5.9	9.9	29.7	26.9	2.76	10.753		
900.0	898.9	901.0	900.7	1.7	1.6	-159.39	-10.5	5.8	34.1	31.0	3.12	10.931		
1,000.0	998.3	1,001.3	1,000.7	1.9	1.8	-157.39	-16.4	0.6	39.0	35.5	3.50	11.135		
1,100.0	1,097.4	1,101.3	1,100.2	2.2	2.0	-155.58	-23.3	-5.5	44.6	40.7	3.89	11.456		
1,200.0	1,196.4	1,201.1	1,199.6	2.5	2.2	-154.80	-30.1	-11.6	51.4	47.1	4.29	11.985		
1,300.0	1,295.3	1,300.8	1,298.9	2.8	2.4	-154.25	-37.0	-17.6	58.3	53.7	4.69	12.430		
1,400.0	1,394.2	1,400.6	1,398.3	3.1	2.7	-153.83	-43.8	-23.7	65.3	60.2	5.10	12.795		
1,500.0	1,493.2	1,500.3	1,497.6	3.4	2.9	-153.48	-50.7	-29.8	72.2	66.7	5.51	13.099		
1,600.0	1,592.1	1,600.1	1,596.9	3.6	3.1	-153.19	-57.5	-35.8	79.2	73.2	5.93	13.355		
1,700.0	1,691.1	1,699.8	1,696.3	3.9	3.3	-152.96	-64.4	-41.9	86.1	79.8	6.34	13.573		
1,800.0	1,790.0	1,799.6	1,795.6	4.2	3.6	-152.75	-71.3	-48.0	93.1	86.3	6.76	13.761		
1,900.0	1,888.9	1,899.4	1,894.9	4.6	3.8	-152.58	-78.1	-54.0	100.0	92.8	7.18	13.924		
2,000.0	1,987.9	1,999.1	1,994.3	4.9	4.0	-152.42	-85.0	-60.1	107.0	99.4	7.60	14.068		
2,100.0	2,086.8	2,098.9	2,093.6	5.2	4.3	-152.29	-91.8	-66.2	113.9	105.9	8.02	14.194		
2,200.0	2,185.8	2,198.6	2,192.9	5.5	4.5	-152.17	-98.7	-72.3	120.9	112.4	8.45	14.307		
2,300.0	2,284.7	2,298.4	2,292.3	5.8	4.7	-152.07	-105.5	-78.3	127.8	118.9	8.87	14.408		
2,400.0	2,383.7	2,398.2	2,391.6	6.1	5.0	-151.97	-112.4	-84.4	134.7	125.5	9.29	14.498		
2,500.0	2,482.6	2,497.9	2,491.0	6.4	5.2	-151.89	-119.3	-90.5	141.7	132.0	9.72	14.580		
2,600.0	2,581.5	2,597.7	2,590.3	6.7	5.4	-151.81	-126.1	-96.5	148.7	138.5	10.14	14.655		
2,700.0	2,680.5	2,697.4	2,689.6	7.0	5.7	-151.74	-133.0	-102.6	155.6	145.0	10.57	14.722		
2,800.0	2,779.4	2,797.2	2,789.0	7.3	5.9	-151.67	-139.8	-108.7	162.6	151.6	10.99	14.784		
2,900.0	2,878.4	2,896.9	2,888.3	7.6	6.1	-151.61	-146.7	-114.7	169.5	158.1	11.42	14.841		
3,000.0	2,977.3	2,996.7	2,987.6	7.9	6.4	-151.56	-153.5	-120.8	176.5	164.6	11.85	14.894		
3,100.0	3,076.2	3,096.5	3,087.0	8.2	6.6	-151.51	-160.4	-126.9	183.4	171.1	12.27	14.942		
3,200.0	3,175.2	3,196.2	3,186.3	8.5	6.8	-151.46	-167.3	-133.0	190.4	177.7	12.70	14.987		
3,300.0	3,274.1	3,296.0	3,285.6	8.8	7.1	-151.42	-174.1	-139.0	197.3	184.2	13.13	15.029		
3,400.0	3,373.1	3,395.7	3,385.0	9.1	7.3	-151.38	-181.0	-145.1	204.3	190.7	13.56	15.068		
3,500.0	3,472.0	3,495.5	3,484.3	9.4	7.5	-151.34	-187.8	-151.2	211.2	197.2	13.98	15.105		
3,600.0	3,570.9	3,595.2	3,583.7	9.8	7.8	-151.31	-194.7	-157.2	218.2	203.8	14.41	15.139		
3,700.0	3,669.9	3,695.0	3,683.0	10.1	8.0	-151.27	-201.5	-163.3	225.1	210.3	14.84	15.171		
3,800.0	3,768.8	3,794.8	3,782.3	10.4	8.2	-151.24	-208.4	-169.4	232.1	216.8	15.27	15.201		
3,900.0	3,867.8	3,894.5	3,881.7	10.7	8.5	-151.21	-215.3	-175.4	239.0	223.3	15.70	15.229		
4,000.0	3,966.7	3,994.3	3,981.0	11.0	8.7	-151.18	-222.1	-181.5	246.0	229.8	16.12	15.255		
4,100.0	4,065.7	4,094.0	4,080.3	11.3	9.0	-151.16	-229.0	-187.6	252.9	236.4	16.55	15.281		
4,200.0	4,164.6	4,193.8	4,179.7	11.6	9.2	-151.13	-235.8	-193.7	259.9	242.9	16.98	15.304		
4,300.0	4,263.5	4,293.6	4,279.0	11.9	9.4	-151.11	-242.7	-199.7	266.8	249.4	17.41	15.327		
4,400.0	4,362.5	4,393.3	4,378.4	12.2	9.7	-151.09	-249.5	-205.8	273.8	255.9	17.84	15.348		
4,500.0	4,461.4	4,493.1	4,477.7	12.5	9.9	-151.07	-256.4	-211.9	280.7	262.5	18.27	15.369		
4,600.0	4,560.4	4,592.8	4,577.0	12.8	10.1	-151.05	-263.3	-217.9	287.7	269.0	18.70	15.388		
4,700.0	4,659.3	4,692.6	4,676.4	13.1	10.4	-151.03	-270.1	-224.0	294.6	275.5	19.12	15.407		
4,800.0	4,758.2	4,792.3	4,775.7	13.5	10.6	-151.01	-277.0	-230.1	301.6	282.0	19.55	15.424		
4,900.0	4,857.2	4,892.1	4,875.0	13.8	10.8	-150.99	-283.8	-236.1	308.5	288.6	19.98	15.441		
5,000.0	4,956.1	4,991.9	4,974.4	14.1	11.1	-150.97	-290.7	-242.2	315.5	295.1	20.41	15.457		
5,100.0	5,055.1	5,091.6	5,073.7	14.4	11.3	-150.96	-297.5	-248.3	322.4	301.6	20.84	15.472		

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 4B-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 4B-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 (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	5,154.0	5,191.4	5,173.0	14.7	11.5	-150.94	-304.4	-254.4	329.4	308.1	21.27	15.487		
5,300.0	5,253.0	5,291.1	5,272.4	15.0	11.8	-150.93	-311.3	-260.4	336.4	314.7	21.70	15.501		
5,400.0	5,351.9	5,390.9	5,371.7	15.3	12.0	-150.91	-318.1	-266.5	343.3	321.2	22.13	15.514		
5,500.0	5,450.8	5,490.6	5,471.1	15.6	12.3	-150.90	-325.0	-272.6	350.3	327.7	22.56	15.527		
5,600.0	5,549.8	5,590.4	5,570.4	15.9	12.5	-150.89	-331.8	-278.6	357.2	334.2	22.99	15.540		
5,700.0	5,648.7	5,690.2	5,669.7	16.2	12.7	-150.87	-338.7	-284.7	364.2	340.7	23.42	15.552		
5,800.0	5,747.7	5,789.9	5,769.1	16.5	13.0	-150.86	-345.5	-290.8	371.1	347.3	23.85	15.563		
5,900.0	5,846.6	5,889.7	5,868.4	16.9	13.2	-150.85	-352.4	-296.8	378.1	353.8	24.28	15.574		
6,000.0	5,945.5	5,989.4	5,967.7	17.2	13.4	-150.84	-359.3	-302.9	385.0	360.3	24.70	15.585		
6,100.0	6,044.5	6,089.2	6,067.1	17.5	13.7	-150.83	-366.1	-309.0	392.0	366.8	25.13	15.595		
6,200.0	6,143.4	6,189.0	6,166.4	17.8	13.9	-150.82	-373.0	-315.1	398.9	373.4	25.56	15.605		
6,300.0	6,242.4	6,288.7	6,265.8	18.1	14.1	-150.81	-379.8	-321.1	405.9	379.9	25.99	15.615		
6,400.0	6,341.3	6,388.5	6,365.1	18.4	14.4	-150.80	-386.7	-327.2	412.8	386.4	26.42	15.624		
6,500.0	6,440.2	6,489.2	6,465.4	18.7	14.6	-150.87	-393.0	-333.3	419.8	392.9	26.83	15.648		
6,600.0	6,539.2	6,591.1	6,566.9	19.0	14.7	-152.39	-388.7	-339.6	426.2	399.4	26.85	15.873		
6,700.0	6,638.2	6,688.4	6,662.4	19.3	14.7	179.26	-371.1	-345.7	433.1	406.6	26.44	16.378		
6,800.0	6,737.0	6,782.2	6,751.3	19.5	14.7	128.43	-342.0	-351.4	441.1	415.3	25.86	17.058		
6,900.0	6,834.0	6,873.3	6,833.3	19.6	14.6	106.87	-302.8	-356.8	450.1	424.8	25.34	17.763		
7,000.0	6,927.2	6,962.1	6,907.8	19.7	14.5	96.09	-254.9	-361.8	459.5	434.6	24.97	18.406		
7,100.0	7,014.7	7,050.0	6,975.2	19.7	14.4	89.27	-198.8	-366.5	469.1	444.3	24.79	18.924		
7,200.0	7,095.0	7,134.0	7,032.8	19.8	14.3	84.45	-137.8	-370.6	478.3	453.4	24.82	19.272		
7,300.0	7,166.5	7,217.7	7,082.6	19.8	14.3	80.81	-70.7	-374.2	486.8	461.7	25.03	19.449		
7,400.0	7,227.6	7,300.0	7,123.7	19.9	14.5	78.03	0.5	-377.4	494.2	468.8	25.38	19.474		
7,500.0	7,277.4	7,381.9	7,156.2	20.1	14.7	75.92	75.6	-380.0	500.4	474.5	25.88	19.334		
7,600.0	7,314.7	7,462.8	7,179.7	20.4	15.1	74.40	152.9	-382.2	505.0	478.5	26.50	19.054		
7,700.0	7,338.9	7,543.2	7,194.3	20.8	15.5	73.40	231.9	-383.8	507.9	480.7	27.25	18.640		
7,800.0	7,349.5	7,623.3	7,199.9	21.3	16.1	72.90	311.8	-384.8	509.0	480.9	28.12	18.100		
7,900.0	7,350.0	7,720.6	7,200.0	21.9	17.0	72.84	409.1	-385.7	508.4	478.6	29.75	17.088		
8,000.0	7,350.0	7,820.6	7,200.0	22.7	17.9	72.81	509.0	-386.5	507.5	475.8	31.79	15.966		
8,100.0	7,350.0	7,920.6	7,200.0	23.6	19.0	72.78	609.0	-387.4	506.7	472.7	34.04	14.888		
8,200.0	7,350.0	8,020.6	7,200.0	24.5	20.2	72.75	709.0	-388.3	505.9	469.4	36.45	13.878		
8,300.0	7,350.0	8,120.6	7,200.0	25.6	21.5	72.72	809.0	-389.2	505.0	466.0	39.01	12.948		
8,400.0	7,350.0	8,220.5	7,200.0	26.7	22.8	72.69	909.0	-390.0	504.2	462.5	41.67	12.100		
8,500.0	7,350.0	8,320.5	7,200.0	27.9	24.2	72.66	1,009.0	-390.9	503.4	459.0	44.43	11.330		
8,600.0	7,350.0	8,420.5	7,200.0	29.1	25.6	72.63	1,109.0	-391.8	502.5	455.3	47.26	10.634		
8,700.0	7,350.0	8,520.5	7,200.0	30.4	27.1	72.60	1,209.0	-392.6	501.7	451.6	50.15	10.003		
8,800.0	7,350.0	8,620.5	7,200.0	31.7	28.6	72.57	1,309.0	-393.5	500.9	447.8	53.10	9.433		
8,900.0	7,350.0	8,720.5	7,200.0	33.1	30.1	72.54	1,409.0	-394.4	500.0	444.0	56.09	8.915		
9,000.0	7,350.0	8,820.5	7,200.0	34.5	31.7	72.51	1,509.0	-395.3	499.2	440.1	59.12	8.445		
9,100.0	7,350.0	8,920.5	7,200.0	36.0	33.2	72.48	1,609.0	-396.1	498.4	436.2	62.17	8.016		
9,200.0	7,350.0	9,020.5	7,200.0	37.4	34.8	72.45	1,709.0	-397.0	497.6	432.3	65.26	7.624		
9,300.0	7,350.0	9,120.5	7,200.0	38.9	36.4	72.42	1,808.9	-397.9	496.7	428.4	68.37	7.266		
9,400.0	7,350.0	9,220.5	7,200.0	40.4	38.1	72.39	1,908.9	-398.8	495.9	424.4	71.49	6.936		
9,500.0	7,350.0	9,320.5	7,200.0	42.0	39.7	72.36	2,008.9	-399.6	495.1	420.4	74.64	6.633		
9,600.0	7,350.0	9,420.5	7,200.0	43.5	41.3	72.33	2,108.9	-400.5	494.2	416.4	77.79	6.353		
9,700.0	7,350.0	9,520.5	7,200.0	45.1	43.0	72.30	2,208.9	-401.4	493.4	412.4	80.97	6.094		
9,800.0	7,350.0	9,620.5	7,200.0	46.7	44.6	72.27	2,308.9	-402.2	492.6	408.4	84.15	5.853		
9,900.0	7,350.0	9,720.5	7,200.0	48.2	46.3	72.24	2,408.9	-403.1	491.7	404.4	87.34	5.630		
10,000.0	7,350.0	9,820.5	7,200.0	49.8	48.0	72.21	2,508.9	-404.0	490.9	400.4	90.54	5.422		
10,100.0	7,350.0	9,920.5	7,200.0	51.5	49.6	72.18	2,608.9	-404.9	490.1	396.3	93.75	5.227		
10,200.0	7,350.0	10,020.5	7,200.0	53.1	51.3	72.15	2,708.9	-405.7	489.2	392.3	96.97	5.045		
10,300.0	7,350.0	10,120.5	7,200.0	54.7	53.0	72.11	2,808.9	-406.6	488.4	388.2	100.19	4.875		

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 4B-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 4B-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 (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	7,350.0	10,220.5	7,200.0	56.3	54.7	72.08	2,908.9	-407.5	487.6	384.2	103.42	4.715		
10,500.0	7,350.0	10,320.5	7,200.0	58.0	56.4	72.05	3,008.9	-408.4	486.7	380.1	106.65	4.564		
10,600.0	7,350.0	10,420.5	7,200.0	59.6	58.1	72.02	3,108.8	-409.2	485.9	376.0	109.88	4.422		
10,700.0	7,350.0	10,520.5	7,200.0	61.3	59.8	71.99	3,208.8	-410.1	485.1	372.0	113.12	4.288		
10,800.0	7,350.0	10,620.5	7,200.0	62.9	61.5	71.96	3,308.8	-411.0	484.3	367.9	116.37	4.161		
10,900.0	7,350.0	10,720.5	7,200.0	64.6	63.2	71.92	3,408.8	-411.8	483.4	363.8	119.61	4.042		
11,000.0	7,350.0	10,820.4	7,200.0	66.3	64.9	71.89	3,508.8	-412.7	482.6	359.7	122.86	3.928		
11,100.0	7,350.0	10,920.4	7,200.0	67.9	66.6	71.86	3,608.8	-413.6	481.8	355.7	126.11	3.820		
11,200.0	7,350.0	11,020.4	7,200.0	69.6	68.3	71.83	3,708.8	-414.5	480.9	351.6	129.37	3.718		
11,300.0	7,350.0	11,120.4	7,200.0	71.3	70.0	71.79	3,808.8	-415.3	480.1	347.5	132.62	3.620		
11,400.0	7,350.0	11,220.4	7,200.0	73.0	71.8	71.76	3,908.8	-416.2	479.3	343.4	135.88	3.527		
11,500.0	7,350.0	11,320.4	7,200.0	74.7	73.5	71.73	4,008.8	-417.1	478.5	339.3	139.13	3.439		
11,600.0	7,350.0	11,420.4	7,200.0	76.4	75.2	71.70	4,108.8	-418.0	477.6	335.2	142.39	3.354		
11,700.0	7,350.0	11,520.4	7,200.0	78.1	76.9	71.66	4,208.8	-418.8	476.8	331.1	145.65	3.274		
11,800.0	7,350.0	11,620.4	7,200.0	79.8	78.6	71.63	4,308.8	-419.7	476.0	327.1	148.91	3.196		
11,900.0	7,350.0	11,720.4	7,200.0	81.5	80.4	71.60	4,408.8	-420.6	475.1	323.0	152.17	3.122		
11,924.5	7,350.0	11,741.0	7,200.0	81.9	80.7	71.59	4,429.3	-420.8	475.0	322.0	152.91	3.106		
11,934.7	7,350.0	11,741.0	7,200.0	82.1	80.7	71.59	4,429.3	-420.8	475.1	322.0	153.07	3.103 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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		
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	74.523		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	22.6	22.6	22.0	0.65	34.673		
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	22.6	22.6	21.6	1.00	22.592 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-154.49	0.0	22.6	23.4	22.1	1.35	17.335		
500.0	500.0	500.0	500.0	0.9	0.8	-156.99	0.0	22.6	25.8	24.1	1.70	15.178		
600.0	599.9	599.9	599.9	1.0	1.0	-160.24	0.0	22.6	29.9	27.8	2.05	14.575		
700.0	699.7	700.1	700.1	1.2	1.2	-162.43	-0.8	22.2	35.1	32.8	2.40	14.650		
800.0	799.4	800.3	800.2	1.4	1.4	-162.78	-3.1	21.0	41.1	38.3	2.75	14.926		
900.0	898.9	900.5	900.4	1.7	1.6	-161.97	-7.0	19.0	47.6	44.5	3.11	15.310		
1,000.0	998.3	1,000.8	1,000.5	1.9	1.8	-160.45	-12.4	16.1	54.8	51.3	3.48	15.753		
1,100.0	1,097.4	1,100.7	1,100.1	2.2	1.9	-158.69	-19.2	12.6	62.8	59.0	3.86	16.275		
1,200.0	1,196.4	1,200.3	1,199.3	2.5	2.2	-157.63	-26.0	8.9	72.0	67.8	4.25	16.951		
1,300.0	1,295.3	1,299.8	1,298.6	2.8	2.4	-156.85	-32.9	5.3	81.4	76.7	4.65	17.511		
1,400.0	1,394.2	1,399.4	1,397.9	3.1	2.6	-156.23	-39.8	1.7	90.7	85.7	5.05	17.969		
1,500.0	1,493.2	1,498.9	1,497.1	3.4	2.8	-155.72	-46.7	-1.9	100.1	94.6	5.45	18.350		
1,600.0	1,592.1	1,598.5	1,596.4	3.6	3.0	-155.30	-53.6	-5.6	109.4	103.6	5.86	18.669		
1,700.0	1,691.1	1,698.1	1,695.6	3.9	3.2	-154.95	-60.5	-9.2	118.8	112.5	6.27	18.940		
1,800.0	1,790.0	1,797.6	1,794.9	4.2	3.4	-154.65	-67.3	-12.8	128.2	121.5	6.69	19.173		
1,900.0	1,888.9	1,897.2	1,894.1	4.6	3.6	-154.39	-74.2	-16.4	137.5	130.5	7.10	19.375		
2,000.0	1,987.9	1,996.7	1,993.4	4.9	3.8	-154.17	-81.1	-20.0	146.9	139.4	7.51	19.552		
2,100.0	2,086.8	2,096.3	2,092.6	5.2	4.1	-153.97	-88.0	-23.7	156.3	148.4	7.93	19.707		
2,200.0	2,185.8	2,195.8	2,191.9	5.5	4.3	-153.79	-94.9	-27.3	165.7	157.3	8.35	19.845		
2,300.0	2,284.7	2,295.4	2,291.1	5.8	4.5	-153.63	-101.8	-30.9	175.1	166.3	8.77	19.967		
2,400.0	2,383.7	2,395.0	2,390.4	6.1	4.7	-153.49	-108.6	-34.5	184.4	175.3	9.19	20.077		
2,500.0	2,482.6	2,494.5	2,489.6	6.4	4.9	-153.36	-115.5	-38.2	193.8	184.2	9.61	20.176		
2,600.0	2,581.5	2,594.1	2,588.9	6.7	5.1	-153.25	-122.4	-41.8	203.2	193.2	10.03	20.266		
2,700.0	2,680.5	2,693.6	2,688.2	7.0	5.4	-153.14	-129.3	-45.4	212.6	202.1	10.45	20.348		
2,800.0	2,779.4	2,793.2	2,787.4	7.3	5.6	-153.04	-136.2	-49.0	222.0	211.1	10.87	20.422		
2,900.0	2,878.4	2,892.8	2,886.7	7.6	5.8	-152.95	-143.1	-52.6	231.4	220.1	11.29	20.491		
3,000.0	2,977.3	2,992.3	2,985.9	7.9	6.0	-152.87	-149.9	-56.3	240.8	229.0	11.71	20.554		
3,100.0	3,076.2	3,091.9	3,085.2	8.2	6.2	-152.80	-156.8	-59.9	250.1	238.0	12.14	20.612		
3,200.0	3,175.2	3,191.4	3,184.4	8.5	6.5	-152.73	-163.7	-63.5	259.5	247.0	12.56	20.665		
3,300.0	3,274.1	3,291.0	3,283.7	8.8	6.7	-152.66	-170.6	-67.1	268.9	255.9	12.98	20.715		
3,400.0	3,373.1	3,390.5	3,382.9	9.1	6.9	-152.60	-177.5	-70.8	278.3	264.9	13.40	20.761		
3,500.0	3,472.0	3,490.1	3,482.2	9.4	7.1	-152.54	-184.4	-74.4	287.7	273.9	13.83	20.804		
3,600.0	3,570.9	3,589.7	3,581.4	9.8	7.3	-152.49	-191.2	-78.0	297.1	282.8	14.25	20.845		
3,700.0	3,669.9	3,689.2	3,680.7	10.1	7.5	-152.44	-198.1	-81.6	306.5	291.8	14.68	20.882		
3,800.0	3,768.8	3,788.8	3,779.9	10.4	7.8	-152.39	-205.0	-85.3	315.9	300.8	15.10	20.918		
3,900.0	3,867.8	3,888.3	3,879.2	10.7	8.0	-152.35	-211.9	-88.9	325.2	309.7	15.52	20.951		
4,000.0	3,966.7	3,987.9	3,978.4	11.0	8.2	-152.30	-218.8	-92.5	334.6	318.7	15.95	20.982		
4,100.0	4,065.7	4,087.4	4,077.7	11.3	8.4	-152.26	-225.6	-96.1	344.0	327.7	16.37	21.012		
4,200.0	4,164.6	4,187.0	4,177.0	11.6	8.6	-152.23	-232.5	-99.7	353.4	336.6	16.80	21.040		
4,300.0	4,263.5	4,286.6	4,276.2	11.9	8.9	-152.19	-239.4	-103.4	362.8	345.6	17.22	21.066		
4,400.0	4,362.5	4,386.1	4,375.5	12.2	9.1	-152.16	-246.3	-107.0	372.2	354.5	17.65	21.091		
4,500.0	4,461.4	4,485.7	4,474.7	12.5	9.3	-152.13	-253.2	-110.6	381.6	363.5	18.07	21.115		
4,600.0	4,560.4	4,585.2	4,574.0	12.8	9.5	-152.09	-260.1	-114.2	391.0	372.5	18.50	21.138		
4,700.0	4,659.3	4,684.8	4,673.2	13.1	9.7	-152.07	-266.9	-117.9	400.4	381.4	18.92	21.159		
4,800.0	4,758.2	4,784.4	4,772.5	13.5	10.0	-152.04	-273.8	-121.5	409.8	390.4	19.35	21.180		
4,900.0	4,857.2	4,883.9	4,871.7	13.8	10.2	-152.01	-280.7	-125.1	419.1	399.4	19.77	21.199		
5,000.0	4,956.1	4,983.5	4,971.0	14.1	10.4	-151.99	-287.6	-128.7	428.5	408.3	20.20	21.218		
5,100.0	5,055.1	5,083.0	5,070.2	14.4	10.6	-151.96	-294.5	-132.4	437.9	417.3	20.62	21.236		

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 4B-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 4B-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		
5,200.0	5,154.0	5,182.6	5,169.5	14.7	10.8	-151.94	-301.4	-136.0	447.3	426.3	21.05	21.253		
5,300.0	5,253.0	5,282.1	5,268.7	15.0	11.1	-151.92	-308.2	-139.6	456.7	435.2	21.47	21.269		
5,400.0	5,351.9	5,381.7	5,368.0	15.3	11.3	-151.89	-315.1	-143.2	466.1	444.2	21.90	21.285		
5,500.0	5,450.8	5,481.3	5,467.3	15.6	11.5	-151.87	-322.0	-146.8	475.5	453.2	22.32	21.300		
5,600.0	5,549.8	5,580.8	5,566.5	15.9	11.7	-151.85	-328.9	-150.5	484.9	462.1	22.75	21.314		
5,700.0	5,648.7	5,680.4	5,665.8	16.2	11.9	-151.83	-335.8	-154.1	494.3	471.1	23.18	21.328		
5,800.0	5,747.7	5,779.9	5,765.0	16.5	12.2	-151.82	-342.7	-157.7	503.7	480.1	23.60	21.341		
5,900.0	5,846.6	5,879.5	5,864.3	16.9	12.4	-151.80	-349.5	-161.3	513.1	489.0	24.03	21.354		
6,000.0	5,945.5	5,979.0	5,963.5	17.2	12.6	-151.78	-356.4	-165.0	522.4	498.0	24.45	21.366		
6,100.0	6,044.5	6,078.6	6,062.8	17.5	12.8	-151.76	-363.3	-168.6	531.8	507.0	24.88	21.378		
6,200.0	6,143.4	6,178.2	6,162.0	17.8	13.0	-151.75	-370.2	-172.2	541.2	515.9	25.30	21.389		
6,300.0	6,242.4	6,277.7	6,261.3	18.1	13.3	-151.73	-377.1	-175.8	550.6	524.9	25.73	21.400		
6,400.0	6,341.3	6,377.3	6,360.5	18.4	13.5	-151.72	-384.0	-179.4	560.0	533.9	26.16	21.411		
6,500.0	6,440.2	6,476.8	6,459.8	18.7	13.7	-151.70	-390.8	-183.1	569.4	542.8	26.58	21.421		
6,600.0	6,539.2	6,576.4	6,559.0	19.0	13.9	-151.69	-397.7	-186.7	578.8	551.8	27.01	21.431		
6,700.0	6,638.2	6,677.8	6,660.2	19.3	14.1	-177.36	-400.8	-190.4	588.1	560.9	27.25	21.579		
6,800.0	6,737.0	6,779.2	6,761.0	19.5	14.1	134.28	-389.9	-194.1	597.4	570.2	27.17	21.991		
6,900.0	6,834.0	6,880.2	6,858.7	19.6	14.1	114.97	-365.1	-197.6	606.5	579.6	26.89	22.554		
7,000.0	6,927.2	6,980.6	6,951.4	19.7	13.9	106.19	-327.1	-201.0	615.3	588.8	26.51	23.211		
7,100.0	7,014.7	7,080.4	7,037.5	19.7	13.8	101.13	-276.8	-204.2	623.6	597.5	26.11	23.882		
7,200.0	7,095.0	7,179.8	7,115.4	19.8	13.6	97.76	-215.3	-207.0	631.2	605.4	25.80	24.471		
7,300.0	7,166.5	7,278.7	7,183.8	19.8	13.5	95.34	-144.0	-209.5	638.0	612.4	25.65	24.871		
7,400.0	7,227.6	7,377.1	7,241.4	19.9	13.5	93.53	-64.3	-211.6	643.9	618.1	25.77	24.987		
7,500.0	7,277.4	7,475.1	7,287.4	20.1	13.7	92.16	22.1	-213.3	648.7	622.5	26.20	24.763		
7,600.0	7,314.7	7,572.7	7,321.2	20.4	14.0	91.15	113.7	-214.5	652.3	625.3	26.96	24.193		
7,700.0	7,338.9	7,670.0	7,342.1	20.8	14.6	90.46	208.6	-215.3	654.7	626.6	28.06	23.333		
7,800.0	7,349.5	7,767.0	7,349.9	21.3	15.3	90.05	305.1	-215.6	655.8	626.3	29.44	22.271		
7,900.0	7,350.0	7,866.6	7,350.0	21.9	16.2	90.00	404.8	-215.6	655.8	624.6	31.25	20.986		
8,000.0	7,350.0	7,966.6	7,350.0	22.7	17.2	90.00	504.8	-215.6	655.8	622.5	33.35	19.665		
8,100.0	7,350.0	8,066.6	7,350.0	23.6	18.3	90.00	604.8	-215.6	655.8	620.2	35.67	18.385		
8,200.0	7,350.0	8,166.6	7,350.0	24.5	19.5	90.00	704.8	-215.6	655.8	617.7	38.18	17.179		
8,300.0	7,350.0	8,266.6	7,350.0	25.6	20.8	90.00	804.8	-215.6	655.8	615.0	40.83	16.063		
8,400.0	7,350.0	8,366.6	7,350.0	26.7	22.2	90.00	904.8	-215.6	655.8	612.2	43.60	15.041		
8,500.0	7,350.0	8,466.6	7,350.0	27.9	23.6	90.00	1,004.8	-215.6	655.8	609.4	46.47	14.112		
8,600.0	7,350.0	8,566.6	7,350.0	29.1	25.1	90.00	1,104.8	-215.6	655.8	606.4	49.43	13.268		
8,700.0	7,350.0	8,666.6	7,350.0	30.4	26.6	90.00	1,204.8	-215.6	655.8	603.4	52.45	12.503		
8,800.0	7,350.0	8,766.6	7,350.0	31.7	28.1	90.00	1,304.8	-215.6	655.8	600.3	55.53	11.810		
8,900.0	7,350.0	8,866.6	7,350.0	33.1	29.6	90.00	1,404.8	-215.6	655.8	597.2	58.66	11.180		
9,000.0	7,350.0	8,966.6	7,350.0	34.5	31.2	90.00	1,504.8	-215.6	655.8	594.0	61.83	10.607		
9,100.0	7,350.0	9,066.6	7,350.0	36.0	32.8	90.00	1,604.8	-215.6	655.8	590.8	65.03	10.084		
9,200.0	7,350.0	9,166.6	7,350.0	37.4	34.4	90.00	1,704.8	-215.6	655.8	587.6	68.27	9.607		
9,300.0	7,350.0	9,266.6	7,350.0	38.9	36.0	90.00	1,804.8	-215.6	655.8	584.3	71.53	9.169		
9,400.0	7,350.0	9,366.6	7,350.0	40.4	37.6	90.00	1,904.8	-215.6	655.8	581.0	74.81	8.767		
9,500.0	7,350.0	9,466.6	7,350.0	42.0	39.3	90.00	2,004.8	-215.6	655.8	577.7	78.11	8.396		
9,600.0	7,350.0	9,566.6	7,350.0	43.5	40.9	90.00	2,104.8	-215.6	655.8	574.4	81.43	8.054		
9,700.0	7,350.0	9,666.6	7,350.0	45.1	42.6	90.00	2,204.8	-215.6	655.8	571.1	84.77	7.737		
9,800.0	7,350.0	9,766.6	7,350.0	46.7	44.3	90.00	2,304.8	-215.6	655.8	567.7	88.11	7.443		
9,900.0	7,350.0	9,866.6	7,350.0	48.2	45.9	90.00	2,404.8	-215.6	655.8	564.4	91.47	7.170		
10,000.0	7,350.0	9,966.6	7,350.0	49.8	47.6	90.00	2,504.8	-215.6	655.8	561.0	94.84	6.915		
10,100.0	7,350.0	10,066.6	7,350.0	51.5	49.3	90.00	2,604.8	-215.6	655.8	557.6	98.22	6.677		
10,200.0	7,350.0	10,166.6	7,350.0	53.1	51.0	90.00	2,704.8	-215.6	655.8	554.2	101.61	6.454		
10,300.0	7,350.0	10,266.6	7,350.0	54.7	52.7	90.00	2,804.8	-215.6	655.8	550.8	105.01	6.245		

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 4B-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 4B-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	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)				
10,400.0	7,350.0	10,366.6	7,350.0	56.3	54.4	90.00	2,904.8	-215.6	655.8	547.4	108.41	6.049		
10,500.0	7,350.0	10,466.6	7,350.0	58.0	56.1	90.00	3,004.8	-215.6	655.8	544.0	111.82	5.865		
10,600.0	7,350.0	10,566.6	7,350.0	59.6	57.8	90.00	3,104.8	-215.6	655.8	540.6	115.24	5.691		
10,700.0	7,350.0	10,666.6	7,350.0	61.3	59.5	90.00	3,204.8	-215.6	655.8	537.2	118.66	5.527		
10,800.0	7,350.0	10,766.6	7,350.0	62.9	61.2	90.00	3,304.8	-215.6	655.8	533.7	122.09	5.372		
10,900.0	7,350.0	10,866.6	7,350.0	64.6	62.9	90.00	3,404.8	-215.6	655.8	530.3	125.52	5.225		
11,000.0	7,350.0	10,966.6	7,350.0	66.3	64.6	90.00	3,504.8	-215.6	655.8	526.9	128.95	5.086		
11,100.0	7,350.0	11,066.6	7,350.0	67.9	66.3	90.00	3,604.8	-215.6	655.8	523.4	132.39	4.954		
11,200.0	7,350.0	11,166.6	7,350.0	69.6	68.0	90.00	3,704.8	-215.6	655.8	520.0	135.84	4.828		
11,300.0	7,350.0	11,266.6	7,350.0	71.3	69.8	90.00	3,804.8	-215.6	655.8	516.5	139.28	4.709		
11,344.6	7,350.0	11,311.3	7,350.0	72.1	70.5	90.00	3,849.4	-215.6	655.8	515.0	140.82	4.657		
11,400.0	7,350.0	11,358.3	7,350.0	73.0	71.3	90.00	3,896.5	-215.3	656.1	513.5	142.59	4.602		
11,500.0	7,350.0	11,440.8	7,350.0	74.7	72.8	90.00	3,978.9	-213.1	658.8	513.1	145.73	4.521		
11,600.0	7,350.0	11,540.7	7,350.0	76.4	74.5	90.00	4,078.7	-209.2	662.7	513.5	149.19	4.442		
11,700.0	7,350.0	11,640.6	7,350.0	78.1	76.2	90.00	4,178.6	-205.2	666.7	514.0	152.64	4.368		
11,800.0	7,350.0	11,740.5	7,350.0	79.8	77.9	90.00	4,278.4	-201.3	670.6	514.5	156.10	4.296		
11,900.0	7,350.0	11,840.4	7,350.0	81.5	79.6	90.00	4,378.3	-197.4	674.5	515.0	159.55	4.228		
11,934.7	7,350.0	11,875.1	7,350.0	82.1	80.2	90.00	4,412.9	-196.0	675.9	515.2	160.76	4.205 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.98	0.0	30.2	30.2					
100.0	100.0	100.0	100.0	0.2	0.2	89.98	0.0	30.2	30.2	29.9	0.30	99.363		
200.0	200.0	200.0	200.0	0.3	0.3	89.98	0.0	30.2	30.2	29.5	0.65	46.231		
300.0	300.0	300.0	300.0	0.5	0.5	89.98	0.0	30.2	30.2	29.2	1.00	30.123	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	-154.34	0.0	30.2	31.0	29.6	1.35	22.920		
500.0	500.0	500.0	500.0	0.9	0.8	-156.27	0.0	30.2	33.3	31.6	1.70	19.610		
600.0	599.9	599.9	599.9	1.0	1.0	-158.95	0.0	30.2	37.4	35.3	2.05	18.236		
700.0	699.7	699.7	699.7	1.2	1.2	-161.85	0.0	30.2	43.1	40.7	2.40	17.981		
800.0	799.4	799.4	799.4	1.4	1.4	-164.59	0.0	30.2	50.6	47.9	2.75	18.439		
900.0	898.9	898.9	898.9	1.7	1.5	-167.01	0.0	30.2	59.9	56.8	3.09	19.378		
1,000.0	998.3	998.3	998.3	1.9	1.7	-169.04	0.0	30.2	71.0	67.6	3.44	20.655		
1,100.0	1,097.4	1,097.4	1,097.4	2.2	1.9	-170.71	0.0	30.2	83.9	80.1	3.78	22.179		
1,200.0	1,196.4	1,196.4	1,196.4	2.5	2.1	-172.06	0.0	30.2	98.1	94.0	4.13	23.778		
1,300.0	1,295.3	1,295.3	1,295.3	2.8	2.2	-173.08	0.0	30.2	112.5	108.0	4.47	25.153		
1,400.0	1,394.2	1,394.3	1,394.3	3.1	2.4	-173.87	0.0	30.2	126.9	122.1	4.82	26.337		
1,500.0	1,493.2	1,493.2	1,493.2	3.4	2.6	-174.50	0.0	30.2	141.4	136.2	5.17	27.366		
1,600.0	1,592.1	1,592.1	1,592.1	3.6	2.8	-175.01	0.0	30.2	155.8	150.3	5.51	28.269		
1,700.0	1,691.1	1,691.1	1,691.1	3.9	2.9	-175.44	0.0	30.2	170.3	164.4	5.86	29.066		
1,800.0	1,790.0	1,790.0	1,790.0	4.2	3.1	-175.79	0.0	30.2	184.8	178.6	6.21	29.776		
1,900.0	1,888.9	1,889.0	1,889.0	4.6	3.3	-176.10	0.0	30.2	199.2	192.7	6.55	30.412		
2,000.0	1,987.9	1,988.9	1,988.9	4.9	3.4	-176.19	-0.7	30.2	213.5	206.6	6.90	30.943		
2,100.0	2,086.8	2,089.1	2,089.1	5.2	3.6	-175.85	-3.1	30.4	227.3	220.0	7.25	31.337		
2,200.0	2,185.8	2,189.4	2,189.3	5.5	3.8	-175.14	-7.3	30.8	240.5	232.9	7.61	31.610		
2,300.0	2,284.7	2,289.7	2,289.4	5.8	4.0	-174.12	-13.2	31.3	253.3	245.4	7.97	31.774		
2,400.0	2,383.7	2,390.0	2,389.4	6.1	4.2	-172.84	-20.9	31.9	265.8	257.4	8.35	31.837		
2,500.0	2,482.6	2,489.6	2,488.6	6.4	4.4	-171.35	-30.1	32.7	278.0	269.2	8.73	31.824		
2,600.0	2,581.5	2,588.6	2,587.2	6.7	4.6	-169.94	-39.5	33.5	290.2	281.1	9.13	31.795		
2,700.0	2,680.5	2,687.6	2,685.7	7.0	4.8	-168.65	-49.0	34.3	302.7	293.2	9.53	31.760		
2,800.0	2,779.4	2,786.6	2,784.2	7.3	5.0	-167.46	-58.4	35.1	315.3	305.4	9.94	31.720		
2,900.0	2,878.4	2,885.6	2,882.8	7.6	5.2	-166.36	-67.9	35.9	328.0	317.7	10.35	31.677		
3,000.0	2,977.3	2,984.6	2,981.3	7.9	5.4	-165.34	-77.3	36.7	340.8	330.1	10.78	31.631		
3,100.0	3,076.2	3,083.6	3,079.9	8.2	5.6	-164.39	-86.8	37.5	353.8	342.6	11.20	31.585		
3,200.0	3,175.2	3,182.6	3,178.4	8.5	5.8	-163.51	-96.2	38.3	366.8	355.2	11.63	31.538		
3,300.0	3,274.1	3,281.6	3,277.0	8.8	6.0	-162.70	-105.7	39.1	379.9	367.8	12.06	31.491		
3,400.0	3,373.1	3,380.6	3,375.5	9.1	6.2	-161.93	-115.1	39.9	393.0	380.5	12.50	31.444		
3,500.0	3,472.0	3,479.6	3,474.0	9.4	6.5	-161.22	-124.6	40.7	406.3	393.3	12.94	31.399		
3,600.0	3,570.9	3,578.6	3,572.6	9.8	6.7	-160.55	-134.0	41.5	419.6	406.2	13.38	31.354		
3,700.0	3,669.9	3,677.6	3,671.1	10.1	6.9	-159.92	-143.5	42.3	432.9	419.1	13.83	31.311		
3,800.0	3,768.8	3,776.6	3,769.7	10.4	7.1	-159.33	-152.9	43.1	446.3	432.0	14.27	31.270		
3,900.0	3,867.8	3,875.6	3,868.2	10.7	7.3	-158.77	-162.4	43.8	459.7	445.0	14.72	31.230		
4,000.0	3,966.7	3,974.6	3,966.8	11.0	7.6	-158.25	-171.8	44.6	473.2	458.0	15.17	31.191		
4,100.0	4,065.7	4,073.6	4,065.3	11.3	7.8	-157.75	-181.3	45.4	486.7	471.1	15.62	31.154		
4,200.0	4,164.6	4,172.6	4,163.8	11.6	8.0	-157.29	-190.7	46.2	500.3	484.2	16.08	31.119		
4,300.0	4,263.5	4,271.6	4,262.4	11.9	8.3	-156.84	-200.2	47.0	513.8	497.3	16.53	31.085		
4,400.0	4,362.5	4,370.6	4,360.9	12.2	8.5	-156.42	-209.6	47.8	527.4	510.4	16.99	31.052		
4,500.0	4,461.4	4,469.6	4,459.5	12.5	8.7	-156.02	-219.1	48.6	541.1	523.6	17.44	31.021		
4,600.0	4,560.4	4,568.6	4,558.0	12.8	8.9	-155.64	-228.5	49.4	554.7	536.8	17.90	30.991		
4,700.0	4,659.3	4,667.6	4,656.6	13.1	9.2	-155.28	-238.0	50.2	568.4	550.0	18.36	30.962		
4,800.0	4,758.2	4,766.6	4,755.1	13.5	9.4	-154.93	-247.4	51.0	582.1	563.3	18.82	30.935		
4,900.0	4,857.2	4,865.6	4,853.6	13.8	9.6	-154.60	-256.9	51.8	595.8	576.5	19.28	30.909		
5,000.0	4,956.1	4,964.6	4,952.2	14.1	9.9	-154.29	-266.3	52.6	609.6	589.8	19.74	30.884		
5,100.0	5,055.1	5,063.6	5,050.7	14.4	10.1	-153.99	-275.8	53.4	623.3	603.1	20.20	30.860		

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 4B-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 4B-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							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	5,154.0	5,162.6	5,149.3	14.7	10.3	-153.70	-285.2	54.2	637.1	616.4	20.66	30.837		
5,300.0	5,253.0	5,261.6	5,247.8	15.0	10.6	-153.43	-294.7	55.0	650.9	629.7	21.12	30.816		
5,400.0	5,351.9	5,360.6	5,346.4	15.3	10.8	-153.16	-304.1	55.8	664.7	643.1	21.58	30.795		
5,500.0	5,450.8	5,459.6	5,444.9	15.6	11.0	-152.91	-313.6	56.6	678.5	656.4	22.05	30.775		
5,600.0	5,549.8	5,558.6	5,543.4	15.9	11.3	-152.67	-323.0	57.4	692.3	669.8	22.51	30.755		
5,700.0	5,648.7	5,657.6	5,642.0	16.2	11.5	-152.43	-332.5	58.2	706.1	683.2	22.97	30.737		
5,800.0	5,747.7	5,756.6	5,740.5	16.5	11.7	-152.21	-341.9	59.0	720.0	696.6	23.44	30.719		
5,900.0	5,846.6	5,855.6	5,839.1	16.9	12.0	-151.99	-351.4	59.8	733.9	710.0	23.90	30.702		
6,000.0	5,945.5	5,954.6	5,937.6	17.2	12.2	-151.78	-360.8	60.6	747.7	723.4	24.37	30.686		
6,100.0	6,044.5	6,053.6	6,036.1	17.5	12.4	-151.58	-370.3	61.3	761.6	736.8	24.83	30.670		
6,200.0	6,143.4	6,152.6	6,134.7	17.8	12.7	-151.39	-379.7	62.1	775.5	750.2	25.30	30.655		
6,300.0	6,242.4	6,251.6	6,233.2	18.1	12.9	-151.20	-389.2	62.9	789.4	763.6	25.76	30.641		
6,400.0	6,341.3	6,350.6	6,331.8	18.4	13.1	-151.02	-398.6	63.7	803.3	777.1	26.23	30.627		
6,500.0	6,440.2	6,453.5	6,434.5	18.7	13.3	-151.23	-402.9	64.6	817.0	790.4	26.58	30.735		
6,600.0	6,539.2	6,554.3	6,534.8	19.0	13.3	-152.42	-392.9	65.4	830.4	803.7	26.69	31.115		
6,700.0	6,638.2	6,649.3	6,627.0	19.3	13.2	-179.88	-370.7	66.1	844.2	817.7	26.53	31.825		
6,800.0	6,737.0	6,740.3	6,711.9	19.5	13.1	129.93	-338.2	66.8	858.9	832.8	26.15	32.852		
6,900.0	6,834.0	6,828.3	6,789.6	19.6	12.9	108.93	-296.7	67.4	874.3	848.5	25.73	33.974		
7,000.0	6,927.2	6,914.0	6,859.6	19.7	12.7	98.63	-247.5	68.0	889.7	864.3	25.37	35.070		
7,100.0	7,014.7	7,000.0	6,923.6	19.7	12.6	92.19	-190.1	68.5	904.6	879.5	25.11	36.034		
7,200.0	7,095.0	7,079.7	6,976.3	19.8	12.5	87.69	-130.4	68.9	918.8	893.8	25.01	36.738		
7,300.0	7,166.5	7,160.4	7,022.5	19.8	12.5	84.29	-64.3	69.3	931.7	906.6	25.08	37.146		
7,400.0	7,227.6	7,239.9	7,060.6	19.9	12.6	81.69	5.5	69.6	943.0	917.6	25.35	37.196		
7,500.0	7,277.4	7,318.6	7,090.5	20.1	12.9	79.72	78.3	69.9	952.3	926.5	25.82	36.882		
7,600.0	7,314.7	7,400.0	7,112.7	20.4	13.3	78.28	156.5	70.0	959.5	933.0	26.51	36.198		
7,700.0	7,338.9	7,474.2	7,125.1	20.8	13.8	77.36	229.6	70.1	964.4	937.0	27.38	35.226		
7,800.0	7,349.5	7,551.5	7,130.0	21.3	14.4	76.89	306.7	70.2	966.8	938.3	28.45	33.982		
7,900.0	7,350.0	7,649.6	7,130.0	21.9	15.3	76.85	404.8	70.2	966.9	936.8	30.18	32.040		
8,000.0	7,350.0	7,749.6	7,130.0	22.7	16.4	76.85	504.8	70.2	966.9	934.7	32.25	29.984		
8,100.0	7,350.0	7,849.6	7,130.0	23.6	17.5	76.85	604.8	70.2	966.9	932.4	34.53	28.000		
8,200.0	7,350.0	7,949.6	7,130.0	24.5	18.8	76.85	704.8	70.2	966.9	929.9	36.99	26.138		
8,300.0	7,350.0	8,049.6	7,130.0	25.6	20.1	76.85	804.8	70.2	966.9	927.3	39.60	24.420		
8,400.0	7,350.0	8,149.6	7,130.0	26.7	21.5	76.85	904.8	70.2	966.9	924.6	42.31	22.851		
8,500.0	7,350.0	8,249.6	7,130.0	27.9	23.0	76.85	1,004.8	70.2	966.9	921.8	45.13	21.427		
8,600.0	7,350.0	8,349.6	7,130.0	29.1	24.5	76.85	1,104.8	70.2	966.9	918.9	48.02	20.136		
8,700.0	7,350.0	8,449.6	7,130.0	30.4	26.0	76.85	1,204.8	70.2	966.9	916.0	50.98	18.968		
8,800.0	7,350.0	8,549.6	7,130.0	31.7	27.6	76.85	1,304.8	70.2	966.9	912.9	53.99	17.910		
8,900.0	7,350.0	8,649.6	7,130.0	33.1	29.1	76.85	1,404.8	70.2	966.9	909.9	57.05	16.950		
9,000.0	7,350.0	8,749.6	7,130.0	34.5	30.7	76.85	1,504.8	70.2	966.9	906.8	60.14	16.077		
9,100.0	7,350.0	8,849.6	7,130.0	36.0	32.3	76.85	1,604.8	70.2	966.9	903.7	63.27	15.282		
9,200.0	7,350.0	8,949.6	7,130.0	37.4	33.9	76.85	1,704.8	70.2	966.9	900.5	66.43	14.556		
9,300.0	7,350.0	9,049.6	7,130.0	38.9	35.6	76.85	1,804.8	70.2	966.9	897.3	69.61	13.890		
9,400.0	7,350.0	9,149.6	7,130.0	40.4	37.2	76.85	1,904.8	70.2	966.9	894.1	72.82	13.279		
9,500.0	7,350.0	9,249.6	7,130.0	42.0	38.9	76.85	2,004.8	70.2	966.9	890.9	76.04	12.716		
9,600.0	7,350.0	9,350.5	7,130.0	43.5	40.6	76.85	2,105.8	70.2	966.9	887.6	79.29	12.195		
9,700.0	7,350.0	9,466.4	7,130.0	45.1	42.5	76.83	2,221.6	68.9	965.9	883.1	82.80	11.665		
9,800.0	7,350.0	9,566.4	7,130.0	46.7	44.2	76.81	2,321.6	67.1	964.1	878.1	86.06	11.203		
9,900.0	7,350.0	9,666.4	7,130.0	48.2	45.9	76.78	2,421.6	65.3	962.4	873.0	89.32	10.774		
10,000.0	7,350.0	9,766.4	7,130.0	49.8	47.6	76.76	2,521.5	63.6	960.6	868.0	92.60	10.374		
10,100.0	7,350.0	9,866.4	7,130.0	51.5	49.2	76.73	2,621.5	61.8	958.9	863.0	95.89	10.000		
10,200.0	7,350.0	9,966.3	7,130.0	53.1	50.9	76.71	2,721.5	60.0	957.1	858.0	99.18	9.650		
10,300.0	7,350.0	10,066.3	7,130.0	54.7	52.6	76.69	2,821.4	58.2	955.4	852.9	102.48	9.323		

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 4B-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 4B-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	7,350.0	10,166.3	7,130.0	56.3	54.3	76.66	2,921.4	56.4	953.7	847.9	105.79	9.015		
10,500.0	7,350.0	10,266.3	7,130.0	58.0	56.1	76.64	3,021.4	54.6	951.9	842.8	109.10	8.725		
10,600.0	7,350.0	10,366.3	7,130.0	59.6	57.8	76.61	3,121.3	52.8	950.2	837.8	112.42	8.452		
10,700.0	7,350.0	10,466.3	7,130.0	61.3	59.5	76.59	3,221.3	51.0	948.4	832.7	115.74	8.195		
10,800.0	7,350.0	10,566.2	7,130.0	62.9	61.2	76.56	3,321.3	49.2	946.7	827.6	119.06	7.951		
10,900.0	7,350.0	10,666.2	7,130.0	64.6	62.9	76.54	3,421.2	47.5	945.0	822.6	122.39	7.721		
11,000.0	7,350.0	10,766.2	7,130.0	66.3	64.6	76.51	3,521.2	45.7	943.2	817.5	125.72	7.502		
11,100.0	7,350.0	10,866.2	7,130.0	67.9	66.4	76.48	3,621.2	43.9	941.5	812.4	129.06	7.295		
11,200.0	7,350.0	10,966.2	7,130.0	69.6	68.1	76.46	3,721.2	42.1	939.8	807.4	132.39	7.098		
11,300.0	7,350.0	11,066.2	7,130.0	71.3	69.8	76.43	3,821.1	40.3	938.0	802.3	135.73	6.911		
11,400.0	7,350.0	11,166.2	7,130.0	73.0	71.5	76.41	3,921.1	38.5	936.3	797.2	139.07	6.732		
11,500.0	7,350.0	11,266.1	7,130.0	74.7	73.3	76.38	4,021.1	36.7	934.5	792.1	142.42	6.562		
11,600.0	7,350.0	11,366.1	7,130.0	76.4	75.0	76.36	4,121.0	34.9	932.8	787.0	145.76	6.399		
11,700.0	7,350.0	11,466.1	7,130.0	78.1	76.7	76.33	4,221.0	33.2	931.1	782.0	149.11	6.244		
11,800.0	7,350.0	11,566.1	7,130.0	79.8	78.4	76.30	4,321.0	31.4	929.3	776.9	152.46	6.096		
11,900.0	7,350.0	11,664.3	7,130.0	81.5	80.1	76.28	4,419.1	29.6	927.6	771.8	155.77	5.955		
11,914.3	7,350.0	11,664.3	7,130.0	81.7	80.1	76.28	4,419.1	29.6	927.5	771.5	156.01	5.945		
11,934.7	7,350.0	11,664.3	7,130.0	82.1	80.1	76.28	4,419.1	29.6	927.7	771.3	156.36	5.933 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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	90.00	0.0	37.4	37.4					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	37.4	37.4	37.1	0.30	123.284	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	37.4	37.4	36.8	0.65	57.360		
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	37.4	37.4	36.4	1.00	37.375		
400.0	400.0	400.0	400.0	0.7	0.7	-154.18	0.0	37.4	38.2	36.9	1.35	28.297		
500.0	500.0	500.0	500.0	0.9	0.8	-155.78	0.0	37.4	40.6	38.9	1.70	23.879		
600.0	599.9	599.9	599.9	1.0	1.0	-158.07	0.0	37.4	44.6	42.6	2.05	21.765	SF	
700.0	699.7	699.7	699.7	1.2	1.2	-160.64	0.0	37.4	50.3	47.9	2.40	20.978		
800.0	799.4	799.1	799.1	1.4	1.4	-162.37	-0.8	37.8	58.0	55.3	2.75	21.109		
900.0	898.9	898.3	898.3	1.7	1.5	-162.68	-3.1	38.8	67.8	64.7	3.10	21.880		
1,000.0	998.3	997.3	997.2	1.9	1.7	-162.07	-7.0	40.6	79.8	76.3	3.46	23.062		
1,100.0	1,097.4	1,096.1	1,095.8	2.2	1.9	-161.01	-12.4	43.0	93.8	89.9	3.82	24.512		
1,200.0	1,196.4	1,194.9	1,194.4	2.5	2.1	-160.34	-17.9	45.5	109.1	104.9	4.20	25.989		
1,300.0	1,295.3	1,293.7	1,293.0	2.8	2.3	-159.86	-23.5	48.0	124.6	120.1	4.58	27.215		
1,400.0	1,394.2	1,392.4	1,391.6	3.1	2.5	-159.50	-29.1	50.5	140.1	135.2	4.96	28.237		
1,500.0	1,493.2	1,491.2	1,490.2	3.4	2.7	-159.20	-34.7	52.9	155.6	150.3	5.35	29.100		
1,600.0	1,592.1	1,590.0	1,588.8	3.6	2.9	-158.96	-40.3	55.4	171.2	165.4	5.74	29.838		
1,700.0	1,691.1	1,688.8	1,687.4	3.9	3.1	-158.75	-45.8	57.9	186.7	180.5	6.13	30.475		
1,800.0	1,790.0	1,787.6	1,786.0	4.2	3.3	-158.58	-51.4	60.4	202.2	195.7	6.52	31.030		
1,900.0	1,888.9	1,886.4	1,884.6	4.6	3.5	-158.44	-57.0	62.9	217.7	210.8	6.91	31.518		
2,000.0	1,987.9	1,985.2	1,983.2	4.9	3.7	-158.31	-62.6	65.4	233.2	225.9	7.30	31.950		
2,100.0	2,086.8	2,084.0	2,081.8	5.2	3.9	-158.20	-68.2	67.9	248.7	241.0	7.69	32.334		
2,200.0	2,185.8	2,182.8	2,180.4	5.5	4.1	-158.10	-73.7	70.4	264.2	256.2	8.09	32.679		
2,300.0	2,284.7	2,281.5	2,279.0	5.8	4.3	-158.01	-79.3	72.9	279.8	271.3	8.48	32.990		
2,400.0	2,383.7	2,380.3	2,377.6	6.1	4.5	-157.94	-84.9	75.4	295.3	286.4	8.87	33.271		
2,500.0	2,482.6	2,479.1	2,476.2	6.4	4.7	-157.86	-90.5	77.9	310.8	301.5	9.27	33.527		
2,600.0	2,581.5	2,577.9	2,574.8	6.7	4.9	-157.80	-96.1	80.4	326.3	316.7	9.67	33.760		
2,700.0	2,680.5	2,676.7	2,673.4	7.0	5.1	-157.74	-101.7	82.9	341.8	331.8	10.06	33.975		
2,800.0	2,779.4	2,775.5	2,772.0	7.3	5.3	-157.69	-107.2	85.4	357.4	346.9	10.46	34.172		
2,900.0	2,878.4	2,874.3	2,870.6	7.6	5.5	-157.64	-112.8	87.9	372.9	362.0	10.85	34.354		
3,000.0	2,977.3	2,973.1	2,969.1	7.9	5.7	-157.60	-118.4	90.4	388.4	377.1	11.25	34.522		
3,100.0	3,076.2	3,071.8	3,067.7	8.2	5.9	-157.56	-124.0	92.9	403.9	392.3	11.65	34.678		
3,200.0	3,175.2	3,170.6	3,166.3	8.5	6.1	-157.52	-129.6	95.4	419.4	407.4	12.04	34.824		
3,300.0	3,274.1	3,269.4	3,264.9	8.8	6.3	-157.48	-135.1	97.9	435.0	422.5	12.44	34.959		
3,400.0	3,373.1	3,368.2	3,363.5	9.1	6.5	-157.45	-140.7	100.4	450.5	437.6	12.84	35.086		
3,500.0	3,472.0	3,467.0	3,462.1	9.4	6.7	-157.42	-146.3	102.9	466.0	452.8	13.24	35.205		
3,600.0	3,570.9	3,565.8	3,560.7	9.8	6.9	-157.39	-151.9	105.3	481.5	467.9	13.63	35.317		
3,700.0	3,669.9	3,664.6	3,659.3	10.1	7.1	-157.36	-157.5	107.8	497.0	483.0	14.03	35.422		
3,800.0	3,768.8	3,763.4	3,757.9	10.4	7.3	-157.34	-163.0	110.3	512.6	498.1	14.43	35.521		
3,900.0	3,867.8	3,862.1	3,856.5	10.7	7.5	-157.31	-168.6	112.8	528.1	513.3	14.83	35.614		
4,000.0	3,966.7	3,960.9	3,955.1	11.0	7.7	-157.29	-174.2	115.3	543.6	528.4	15.23	35.703		
4,100.0	4,065.7	4,059.7	4,053.7	11.3	7.9	-157.27	-179.8	117.8	559.1	543.5	15.62	35.786		
4,200.0	4,164.6	4,158.5	4,152.3	11.6	8.1	-157.25	-185.4	120.3	574.7	558.6	16.02	35.866		
4,300.0	4,263.5	4,257.3	4,250.9	11.9	8.3	-157.23	-190.9	122.8	590.2	573.8	16.42	35.941		
4,400.0	4,362.5	4,356.1	4,349.5	12.2	8.5	-157.21	-196.5	125.3	605.7	588.9	16.82	36.013		
4,500.0	4,461.4	4,454.9	4,448.1	12.5	8.7	-157.20	-202.1	127.8	621.2	604.0	17.22	36.081		
4,600.0	4,560.4	4,553.7	4,546.7	12.8	8.9	-157.18	-207.7	130.3	636.7	619.1	17.62	36.146		
4,700.0	4,659.3	4,652.4	4,645.3	13.1	9.1	-157.16	-213.3	132.8	652.3	634.3	18.01	36.208		
4,800.0	4,758.2	4,751.2	4,743.9	13.5	9.3	-157.15	-218.8	135.3	667.8	649.4	18.41	36.267		
4,900.0	4,857.2	4,850.0	4,842.5	13.8	9.5	-157.14	-224.4	137.8	683.3	664.5	18.81	36.324		
5,000.0	4,956.1	4,948.8	4,941.1	14.1	9.7	-157.12	-230.0	140.3	698.8	679.6	19.21	36.378		
5,100.0	5,055.1	5,047.6	5,039.7	14.4	9.9	-157.11	-235.6	142.8	714.4	694.8	19.61	36.430		

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 4B-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 4B-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	5,154.0	5,146.4	5,138.3	14.7	10.1	-157.10	-241.2	145.3	729.9	709.9	20.01	36.480		
5,300.0	5,253.0	5,245.2	5,236.9	15.0	10.3	-157.08	-246.8	147.8	745.4	725.0	20.41	36.527		
5,400.0	5,351.9	5,344.0	5,335.5	15.3	10.5	-157.07	-252.3	150.3	760.9	740.1	20.81	36.573		
5,500.0	5,450.8	5,442.7	5,434.1	15.6	10.7	-157.06	-257.9	152.8	776.5	755.2	21.20	36.617		
5,600.0	5,549.8	5,541.5	5,532.7	15.9	10.9	-157.05	-263.5	155.3	792.0	770.4	21.60	36.660		
5,700.0	5,648.7	5,640.3	5,631.3	16.2	11.1	-157.04	-269.1	157.7	807.5	785.5	22.00	36.701		
5,800.0	5,747.7	5,739.1	5,729.9	16.5	11.3	-157.03	-274.7	160.2	823.0	800.6	22.40	36.740		
5,900.0	5,846.6	5,837.9	5,828.5	16.9	11.5	-157.02	-280.2	162.7	838.5	815.7	22.80	36.778		
6,000.0	5,945.5	5,936.7	5,927.1	17.2	11.7	-157.01	-285.8	165.2	854.1	830.9	23.20	36.814		
6,100.0	6,044.5	6,035.5	6,025.7	17.5	11.9	-157.01	-291.4	167.7	869.6	846.0	23.60	36.850		
6,200.0	6,143.4	6,134.3	6,124.3	17.8	12.1	-157.00	-297.0	170.2	885.1	861.1	24.00	36.884		
6,300.0	6,242.4	6,233.0	6,222.9	18.1	12.3	-156.99	-302.6	172.7	900.6	876.2	24.40	36.917		
6,400.0	6,341.3	6,331.8	6,321.5	18.4	12.5	-156.98	-308.1	175.2	916.2	891.4	24.80	36.949		
6,500.0	6,440.2	6,430.6	6,420.1	18.7	12.7	-156.97	-313.7	177.7	931.7	906.5	25.19	36.979		
6,600.0	6,539.2	6,529.3	6,512.7	19.0	12.9	-157.17	-315.6	180.1	947.4	921.9	25.52	37.132		
6,700.0	6,638.2	6,612.1	6,601.0	19.3	12.9	176.37	-306.6	182.3	964.0	938.4	25.62	37.623		
6,800.0	6,737.0	6,700.0	6,686.5	19.5	12.9	127.06	-287.0	184.4	980.8	955.3	25.53	38.418		
6,900.0	6,834.0	6,784.9	6,766.4	19.6	12.9	106.97	-258.2	186.5	997.3	972.0	25.37	39.317		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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	90.45	-0.4	45.0	45.0					
100.0	100.0	100.0	100.0	0.2	0.2	90.45	-0.4	45.0	45.0	44.7	0.30	148.130		
200.0	200.0	200.0	200.0	0.3	0.3	90.45	-0.4	45.0	45.0	44.3	0.65	68.920		
300.0	300.0	300.0	300.0	0.5	0.5	90.45	-0.4	45.0	45.0	44.0	1.00	44.907 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-153.64	-0.4	45.0	45.8	44.4	1.35	33.880		
500.0	500.0	500.0	500.0	0.9	0.8	-155.02	-0.4	45.0	48.1	46.4	1.70	28.307		
600.0	599.9	599.9	599.9	1.0	1.0	-157.03	-0.4	45.0	52.1	50.1	2.05	25.422		
700.0	699.7	699.1	699.1	1.2	1.2	-158.68	-1.0	45.6	58.3	55.9	2.40	24.305 SF		
800.0	799.4	798.0	798.0	1.4	1.4	-159.34	-2.9	47.3	67.2	64.5	2.75	24.440		
900.0	898.9	896.6	896.4	1.7	1.6	-159.26	-6.0	50.2	78.8	75.7	3.11	25.368		
1,000.0	998.3	994.7	994.3	1.9	1.7	-158.73	-10.3	54.3	93.0	89.5	3.47	26.819		
1,100.0	1,097.4	1,092.2	1,091.5	2.2	1.9	-157.96	-15.8	59.4	109.9	106.1	3.84	28.616		
1,200.0	1,196.4	1,189.4	1,188.4	2.5	2.1	-157.09	-22.4	65.6	129.0	124.8	4.22	30.545		
1,300.0	1,295.3	1,287.4	1,285.9	2.8	2.4	-156.34	-29.4	72.2	148.6	144.0	4.62	32.172		
1,400.0	1,394.2	1,385.5	1,383.5	3.1	2.6	-155.77	-36.5	78.8	168.1	163.1	5.02	33.520		
1,500.0	1,493.2	1,483.6	1,481.1	3.4	2.8	-155.31	-43.5	85.3	187.7	182.3	5.42	34.652		
1,600.0	1,592.1	1,581.6	1,578.7	3.6	3.0	-154.94	-50.5	91.9	207.3	201.5	5.82	35.613		
1,700.0	1,691.1	1,679.7	1,676.3	3.9	3.3	-154.64	-57.5	98.4	226.9	220.6	6.23	36.440		
1,800.0	1,790.0	1,777.7	1,773.9	4.2	3.5	-154.38	-64.5	105.0	246.5	239.8	6.63	37.156		
1,900.0	1,888.9	1,875.8	1,871.5	4.6	3.7	-154.17	-71.5	111.6	266.0	259.0	7.04	37.783		
2,000.0	1,987.9	1,973.8	1,969.0	4.9	3.9	-153.98	-78.6	118.1	285.6	278.2	7.45	38.336		
2,100.0	2,086.8	2,071.9	2,066.6	5.2	4.2	-153.81	-85.6	124.7	305.2	297.4	7.86	38.827		
2,200.0	2,185.8	2,170.0	2,164.2	5.5	4.4	-153.67	-92.6	131.3	324.8	316.6	8.27	39.265		
2,300.0	2,284.7	2,268.0	2,261.8	5.8	4.6	-153.54	-99.6	137.8	344.4	335.8	8.69	39.659		
2,400.0	2,383.7	2,366.1	2,359.4	6.1	4.9	-153.43	-106.6	144.4	364.1	355.0	9.10	40.014		
2,500.0	2,482.6	2,464.1	2,457.0	6.4	5.1	-153.32	-113.7	150.9	383.7	374.1	9.51	40.337		
2,600.0	2,581.5	2,562.2	2,554.5	6.7	5.3	-153.23	-120.7	157.5	403.3	393.3	9.93	40.631		
2,700.0	2,680.5	2,660.2	2,652.1	7.0	5.6	-153.15	-127.7	164.1	422.9	412.5	10.34	40.900		
2,800.0	2,779.4	2,758.3	2,749.7	7.3	5.8	-153.07	-134.7	170.6	442.5	431.7	10.75	41.147		
2,900.0	2,878.4	2,856.4	2,847.3	7.6	6.1	-153.00	-141.7	177.2	462.1	450.9	11.17	41.374		
3,000.0	2,977.3	2,954.4	2,944.9	7.9	6.3	-152.94	-148.7	183.8	481.7	470.1	11.58	41.584		
3,100.0	3,076.2	3,052.5	3,042.5	8.2	6.5	-152.88	-155.8	190.3	501.3	489.3	12.00	41.779		
3,200.0	3,175.2	3,150.5	3,140.1	8.5	6.8	-152.82	-162.8	196.9	520.9	508.5	12.41	41.960		
3,300.0	3,274.1	3,248.6	3,237.6	8.8	7.0	-152.77	-169.8	203.4	540.5	527.7	12.83	42.129		
3,400.0	3,373.1	3,346.6	3,335.2	9.1	7.2	-152.72	-176.8	210.0	560.2	546.9	13.25	42.286		
3,500.0	3,472.0	3,444.7	3,432.8	9.4	7.5	-152.68	-183.8	216.6	579.8	566.1	13.66	42.434		
3,600.0	3,570.9	3,542.8	3,530.4	9.8	7.7	-152.64	-190.8	223.1	599.4	585.3	14.08	42.572		
3,700.0	3,669.9	3,640.8	3,628.0	10.1	8.0	-152.60	-197.9	229.7	619.0	604.5	14.50	42.702		
3,800.0	3,768.8	3,738.9	3,725.6	10.4	8.2	-152.56	-204.9	236.3	638.6	623.7	14.91	42.824		
3,900.0	3,867.8	3,836.9	3,823.2	10.7	8.4	-152.53	-211.9	242.8	658.2	642.9	15.33	42.940		
4,000.0	3,966.7	3,935.0	3,920.7	11.0	8.7	-152.50	-218.9	249.4	677.8	662.1	15.75	43.049		
4,100.0	4,065.7	4,033.0	4,018.3	11.3	8.9	-152.47	-225.9	255.9	697.5	681.3	16.16	43.152		
4,200.0	4,164.6	4,131.1	4,115.9	11.6	9.1	-152.44	-232.9	262.5	717.1	700.5	16.58	43.249		
4,300.0	4,263.5	4,229.2	4,213.5	11.9	9.4	-152.41	-240.0	269.1	736.7	719.7	17.00	43.342		
4,400.0	4,362.5	4,327.2	4,311.1	12.2	9.6	-152.38	-247.0	275.6	756.3	738.9	17.41	43.430		
4,500.0	4,461.4	4,425.3	4,408.7	12.5	9.9	-152.36	-254.0	282.2	775.9	758.1	17.83	43.514		
4,600.0	4,560.4	4,523.3	4,506.3	12.8	10.1	-152.34	-261.0	288.8	795.5	777.3	18.25	43.593		
4,700.0	4,659.3	4,621.4	4,603.8	13.1	10.3	-152.31	-268.0	295.3	815.1	796.5	18.67	43.669		
4,800.0	4,758.2	4,719.4	4,701.4	13.5	10.6	-152.29	-275.0	301.9	834.8	815.7	19.08	43.742		
4,900.0	4,857.2	4,817.5	4,799.0	13.8	10.8	-152.27	-282.1	308.4	854.4	834.9	19.50	43.811		
5,000.0	4,956.1	4,915.6	4,896.6	14.1	11.1	-152.25	-289.1	315.0	874.0	854.1	19.92	43.878		
5,100.0	5,055.1	5,013.6	4,994.2	14.4	11.3	-152.24	-296.1	321.6	893.6	873.3	20.34	43.941		

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 4B-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 4B-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
5,200.0	5,154.0	5,111.7	5,091.8	14.7	11.5	-152.22	-303.1	328.1	913.2	892.5	20.75	44.002				
5,300.0	5,253.0	5,209.7	5,189.3	15.0	11.8	-152.20	-310.1	334.7	932.8	911.7	21.17	44.060				
5,400.0	5,351.9	5,307.8	5,286.9	15.3	12.0	-152.19	-317.1	341.3	952.4	930.9	21.59	44.116				
5,500.0	5,450.8	5,405.8	5,384.5	15.6	12.2	-152.17	-324.2	347.8	972.1	950.1	22.01	44.170				
5,600.0	5,549.8	5,503.9	5,482.1	15.9	12.5	-152.16	-331.2	354.4	991.7	969.3	22.43	44.222				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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 4I-35H-O367 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.40	-0.4	52.5	52.5						
100.0	100.0	100.0	100.0	0.2	0.2	90.40	-0.4	52.5	52.5	52.2	0.30	172.970			
200.0	200.0	200.0	200.0	0.3	0.3	90.40	-0.4	52.5	52.5	51.9	0.65	80.477			
300.0	300.0	300.0	300.0	0.5	0.5	90.40	-0.4	52.5	52.5	51.5	1.00	52.437 CC, ES			
400.0	400.0	400.0	400.0	0.7	0.7	-153.63	-0.4	52.5	53.3	52.0	1.35	39.465			
500.0	500.0	500.0	500.0	0.9	0.8	-154.81	-0.4	52.5	55.7	54.0	1.70	32.742			
600.0	599.9	599.0	599.0	1.0	1.0	-156.07	-0.8	53.2	60.3	58.3	2.05	29.449			
700.0	699.7	697.9	697.8	1.2	1.2	-156.82	-2.3	55.4	68.0	65.6	2.40	28.345 SF			
800.0	799.4	796.3	796.2	1.4	1.4	-157.11	-4.7	58.9	78.6	75.9	2.75	28.572			
900.0	898.9	894.2	893.9	1.7	1.6	-157.08	-8.0	63.7	92.2	89.1	3.11	29.654			
1,000.0	998.3	991.5	990.9	1.9	1.8	-156.85	-12.2	70.0	108.7	105.2	3.47	31.302			
1,100.0	1,097.4	1,088.0	1,087.0	2.2	2.0	-156.50	-17.3	77.5	128.1	124.2	3.84	33.330			
1,200.0	1,196.4	1,183.7	1,182.1	2.5	2.2	-156.10	-23.3	86.2	150.0	145.8	4.22	35.517			
1,300.0	1,295.3	1,279.1	1,276.7	2.8	2.4	-155.52	-30.1	96.3	173.3	168.7	4.61	37.572			
1,400.0	1,394.2	1,376.2	1,373.0	3.1	2.7	-154.96	-37.4	107.0	197.1	192.1	5.01	39.339			
1,500.0	1,493.2	1,473.3	1,469.2	3.4	3.0	-154.52	-44.6	117.7	220.9	215.5	5.41	40.827			
1,600.0	1,592.1	1,570.4	1,565.4	3.6	3.2	-154.17	-51.9	128.4	244.8	239.0	5.81	42.094			
1,700.0	1,691.1	1,667.6	1,661.7	3.9	3.5	-153.87	-59.2	139.1	268.6	262.4	6.22	43.184			
1,800.0	1,790.0	1,764.7	1,757.9	4.2	3.8	-153.63	-66.5	149.8	292.5	285.8	6.63	44.131			
1,900.0	1,888.9	1,861.8	1,854.2	4.6	4.0	-153.42	-73.8	160.5	316.3	309.3	7.04	44.961			
2,000.0	1,987.9	1,958.9	1,950.4	4.9	4.3	-153.25	-81.0	171.2	340.2	332.7	7.44	45.693			
2,100.0	2,086.8	2,056.0	2,046.6	5.2	4.6	-153.09	-88.3	182.0	364.0	356.2	7.86	46.344			
2,200.0	2,185.8	2,153.1	2,142.9	5.5	4.8	-152.96	-95.6	192.7	387.9	379.6	8.27	46.926			
2,300.0	2,284.7	2,250.2	2,239.1	5.8	5.1	-152.84	-102.9	203.4	411.8	403.1	8.68	47.450			
2,400.0	2,383.7	2,347.3	2,335.4	6.1	5.4	-152.73	-110.2	214.1	435.6	426.5	9.09	47.923			
2,500.0	2,482.6	2,444.4	2,431.6	6.4	5.7	-152.63	-117.4	224.8	459.5	450.0	9.50	48.353			
2,600.0	2,581.5	2,541.5	2,527.8	6.7	6.0	-152.55	-124.7	235.5	483.4	473.5	9.92	48.745			
2,700.0	2,680.5	2,638.6	2,624.1	7.0	6.2	-152.47	-132.0	246.2	507.2	496.9	10.33	49.104			
2,800.0	2,779.4	2,735.7	2,720.3	7.3	6.5	-152.40	-139.3	256.9	531.1	520.4	10.74	49.434			
2,900.0	2,878.4	2,832.8	2,816.6	7.6	6.8	-152.33	-146.5	267.7	555.0	543.8	11.16	49.738			
3,000.0	2,977.3	2,929.9	2,912.8	7.9	7.1	-152.27	-153.8	278.4	578.9	567.3	11.57	50.019			
3,100.0	3,076.2	3,027.0	3,009.0	8.2	7.3	-152.22	-161.1	289.1	602.7	590.7	11.99	50.280			
3,200.0	3,175.2	3,124.2	3,105.3	8.5	7.6	-152.17	-168.4	299.8	626.6	614.2	12.40	50.522			
3,300.0	3,274.1	3,221.3	3,201.5	8.8	7.9	-152.12	-175.7	310.5	650.5	637.7	12.82	50.749			
3,400.0	3,373.1	3,318.4	3,297.8	9.1	8.2	-152.08	-182.9	321.2	674.4	661.1	13.23	50.960			
3,500.0	3,472.0	3,415.5	3,394.0	9.4	8.5	-152.04	-190.2	331.9	698.2	684.6	13.65	51.158			
3,600.0	3,570.9	3,512.6	3,490.2	9.8	8.8	-152.00	-197.5	342.6	722.1	708.0	14.06	51.343			
3,700.0	3,669.9	3,609.7	3,586.5	10.1	9.0	-151.96	-204.8	353.3	746.0	731.5	14.48	51.518			
3,800.0	3,768.8	3,706.8	3,682.7	10.4	9.3	-151.93	-212.1	364.1	769.9	755.0	14.90	51.682			
3,900.0	3,867.8	3,803.9	3,779.0	10.7	9.6	-151.90	-219.3	374.8	793.7	778.4	15.31	51.837			
4,000.0	3,966.7	3,901.0	3,875.2	11.0	9.9	-151.87	-226.6	385.5	817.6	801.9	15.73	51.984			
4,100.0	4,065.7	3,998.1	3,971.4	11.3	10.2	-151.84	-233.9	396.2	841.5	825.3	16.14	52.122			
4,200.0	4,164.6	4,095.2	4,067.7	11.6	10.4	-151.81	-241.2	406.9	865.4	848.8	16.56	52.254			
4,300.0	4,263.5	4,192.3	4,163.9	11.9	10.7	-151.79	-248.4	417.6	889.2	872.3	16.98	52.379			
4,400.0	4,362.5	4,289.4	4,260.2	12.2	11.0	-151.77	-255.7	428.3	913.1	895.7	17.39	52.497			
4,500.0	4,461.4	4,386.5	4,356.4	12.5	11.3	-151.74	-263.0	439.0	937.0	919.2	17.81	52.610			
4,600.0	4,560.4	4,483.7	4,452.6	12.8	11.6	-151.72	-270.3	449.7	960.9	942.6	18.23	52.717			
4,700.0	4,659.3	4,580.8	4,548.9	13.1	11.9	-151.70	-277.6	460.5	984.7	966.1	18.64	52.820			

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 4B-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 4B-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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.36	-0.4	60.1	60.1					
100.0	100.0	100.0	100.0	0.2	0.2	90.36	-0.4	60.1	60.1	59.8	0.30	197.810		
200.0	200.0	200.0	200.0	0.3	0.3	90.36	-0.4	60.1	60.1	59.4	0.65	92.035		
300.0	300.0	300.0	300.0	0.5	0.5	90.36	-0.4	60.1	60.1	59.1	1.00	59.968	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	-153.62	-0.4	60.1	60.9	59.5	1.35	45.050		
500.0	500.0	499.0	499.0	0.9	0.8	-154.26	-0.8	60.8	64.0	62.3	1.70	37.650		
600.0	599.9	597.8	597.8	1.0	1.0	-154.71	-2.1	63.0	70.1	68.1	2.05	34.244		
700.0	699.7	696.3	696.2	1.2	1.2	-154.96	-4.1	66.7	79.3	76.9	2.40	33.072	SF	
800.0	799.4	794.3	794.0	1.4	1.4	-155.05	-7.1	71.9	91.6	88.8	2.75	33.260		
900.0	898.9	891.7	891.1	1.7	1.6	-155.01	-10.8	78.4	106.9	103.8	3.11	34.324		
1,000.0	998.3	988.3	987.3	1.9	1.8	-154.90	-15.3	86.3	125.1	121.6	3.48	35.969		
1,100.0	1,097.4	1,084.1	1,082.5	2.2	2.0	-154.73	-20.5	95.6	146.3	142.5	3.85	38.005		
1,200.0	1,196.4	1,179.0	1,176.6	2.5	2.3	-154.56	-26.4	106.1	170.2	165.9	4.23	40.210		
1,300.0	1,295.3	1,273.8	1,270.4	2.8	2.6	-154.24	-33.1	117.9	195.4	190.8	4.62	42.290		
1,400.0	1,394.2	1,370.4	1,366.0	3.1	2.8	-153.91	-40.2	130.3	221.1	216.0	5.02	44.060		
1,500.0	1,493.2	1,467.1	1,461.6	3.4	3.1	-153.66	-47.3	142.8	246.7	241.3	5.42	45.551		
1,600.0	1,592.1	1,563.7	1,557.1	3.6	3.4	-153.45	-54.3	155.3	272.4	266.6	5.82	46.821		
1,700.0	1,691.1	1,660.4	1,652.7	3.9	3.7	-153.28	-61.4	167.7	298.0	291.8	6.22	47.915		
1,800.0	1,790.0	1,757.0	1,748.3	4.2	4.0	-153.14	-68.4	180.2	323.7	317.1	6.62	48.866		
1,900.0	1,888.9	1,853.7	1,843.9	4.6	4.3	-153.01	-75.5	192.6	349.4	342.4	7.03	49.699		
2,000.0	1,987.9	1,950.3	1,939.5	4.9	4.6	-152.91	-82.5	205.1	375.1	367.6	7.44	50.436		
2,100.0	2,086.8	2,047.0	2,035.0	5.2	4.9	-152.81	-89.6	217.5	400.7	392.9	7.84	51.091		
2,200.0	2,185.8	2,143.6	2,130.6	5.5	5.1	-152.73	-96.6	230.0	426.4	418.1	8.25	51.677		
2,300.0	2,284.7	2,240.2	2,226.2	5.8	5.4	-152.66	-103.7	242.4	452.1	443.4	8.66	52.204		
2,400.0	2,383.7	2,336.9	2,321.8	6.1	5.7	-152.60	-110.8	254.9	477.8	468.7	9.07	52.681		
2,500.0	2,482.6	2,433.5	2,417.4	6.4	6.0	-152.54	-117.8	267.3	503.4	493.9	9.48	53.115		
2,600.0	2,581.5	2,530.2	2,513.0	6.7	6.3	-152.49	-124.9	279.8	529.1	519.2	9.89	53.510		
2,700.0	2,680.5	2,626.8	2,608.5	7.0	6.6	-152.44	-131.9	292.2	554.8	544.5	10.30	53.873		
2,800.0	2,779.4	2,723.5	2,704.1	7.3	6.9	-152.40	-139.0	304.7	580.5	569.7	10.71	54.206		
2,900.0	2,878.4	2,820.1	2,799.7	7.6	7.2	-152.36	-146.0	317.1	606.1	595.0	11.12	54.513		
3,000.0	2,977.3	2,916.8	2,895.3	7.9	7.5	-152.32	-153.1	329.6	631.8	620.3	11.53	54.797		
3,100.0	3,076.2	3,013.4	2,990.9	8.2	7.8	-152.29	-160.2	342.0	657.5	645.5	11.94	55.061		
3,200.0	3,175.2	3,110.1	3,086.4	8.5	8.1	-152.26	-167.2	354.5	683.2	670.8	12.35	55.306		
3,300.0	3,274.1	3,206.7	3,182.0	8.8	8.4	-152.23	-174.3	366.9	708.8	696.1	12.76	55.535		
3,400.0	3,373.1	3,303.4	3,277.6	9.1	8.7	-152.20	-181.3	379.4	734.5	721.3	13.18	55.749		
3,500.0	3,472.0	3,400.0	3,373.2	9.4	9.0	-152.18	-188.4	391.8	760.2	746.6	13.59	55.949		
3,600.0	3,570.9	3,496.6	3,468.8	9.8	9.3	-152.15	-195.4	404.3	785.9	771.9	14.00	56.137		
3,700.0	3,669.9	3,593.3	3,564.3	10.1	9.6	-152.13	-202.5	416.7	811.6	797.1	14.41	56.314		
3,800.0	3,768.8	3,689.9	3,659.9	10.4	9.9	-152.11	-209.6	429.2	837.2	822.4	14.82	56.481		
3,900.0	3,867.8	3,786.6	3,755.5	10.7	10.2	-152.09	-216.6	441.6	862.9	847.7	15.24	56.638		
4,000.0	3,966.7	3,883.2	3,851.1	11.0	10.5	-152.07	-223.7	454.1	888.6	872.9	15.65	56.786		
4,100.0	4,065.7	3,979.9	3,946.7	11.3	10.8	-152.06	-230.7	466.5	914.3	898.2	16.06	56.927		
4,200.0	4,164.6	4,076.5	4,042.2	11.6	11.1	-152.04	-237.8	479.0	939.9	923.5	16.47	57.060		
4,300.0	4,263.5	4,173.2	4,137.8	11.9	11.4	-152.02	-244.8	491.5	965.6	948.7	16.89	57.187		
4,400.0	4,362.5	4,269.8	4,233.4	12.2	11.7	-152.01	-251.9	503.9	991.3	974.0	17.30	57.307		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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	90.32	-0.4	67.6	67.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.32	-0.4	67.6	67.6	67.3	0.30	222.651		
200.0	200.0	200.0	200.0	0.3	0.3	90.32	-0.4	67.6	67.6	67.0	0.65	103.592		
266.7	266.7	266.7	266.7	0.4	0.4	90.32	-0.4	67.6	67.6	66.7	0.89	76.369	CC	
300.0	300.0	300.0	300.0	0.5	0.5	90.32	-0.4	67.6	67.6	66.6	1.00	67.500	ES	
400.0	400.0	398.9	398.9	0.7	0.7	-153.32	-0.7	68.4	69.2	67.8	1.35	51.288		
500.0	500.0	497.7	497.6	0.9	0.9	-153.40	-1.8	70.7	73.9	72.2	1.70	43.548		
600.0	599.9	596.1	596.0	1.0	1.0	-153.53	-3.5	74.6	81.7	79.7	2.05	39.944		
700.0	699.7	694.2	693.9	1.2	1.2	-153.66	-5.9	80.0	92.7	90.3	2.40	38.654	SF	
800.0	799.4	791.6	791.0	1.4	1.4	-153.78	-8.9	86.9	106.8	104.0	2.75	38.775		
900.0	898.9	888.4	887.3	1.7	1.6	-153.88	-12.6	95.2	123.9	120.8	3.11	39.807		
1,000.0	998.3	984.3	982.6	1.9	1.9	-153.96	-16.9	105.0	144.1	140.6	3.48	41.445		
1,100.0	1,097.4	1,079.2	1,076.8	2.2	2.1	-154.01	-21.7	116.0	167.3	163.4	3.85	43.496		
1,200.0	1,196.4	1,173.1	1,169.7	2.5	2.4	-154.06	-27.2	128.4	193.1	188.9	4.22	45.731		
1,300.0	1,295.3	1,266.3	1,261.7	2.8	2.7	-153.97	-33.2	142.0	220.5	215.9	4.61	47.865		
1,400.0	1,394.2	1,359.7	1,353.6	3.1	3.0	-153.76	-39.8	157.0	249.2	244.2	4.99	49.893		
1,500.0	1,493.2	1,455.3	1,447.8	3.4	3.3	-153.55	-46.7	172.6	278.2	272.9	5.39	51.623		
1,600.0	1,592.1	1,551.0	1,541.9	3.6	3.7	-153.38	-53.6	188.3	307.3	301.5	5.79	53.099		
1,700.0	1,691.1	1,646.7	1,636.0	3.9	4.0	-153.24	-60.5	204.0	336.4	330.2	6.19	54.372		
1,800.0	1,790.0	1,742.4	1,730.2	4.2	4.3	-153.12	-67.5	219.7	365.5	358.9	6.59	55.480		
1,900.0	1,888.9	1,838.0	1,824.3	4.6	4.6	-153.02	-74.4	235.3	394.5	387.5	6.99	56.452		
2,000.0	1,987.9	1,933.7	1,918.4	4.9	5.0	-152.94	-81.3	251.0	423.6	416.2	7.39	57.312		
2,100.0	2,086.8	2,029.4	2,012.6	5.2	5.3	-152.86	-88.2	266.7	452.7	444.9	7.79	58.078		
2,200.0	2,185.8	2,125.1	2,106.7	5.5	5.7	-152.80	-95.1	282.4	481.8	473.6	8.20	58.763		
2,300.0	2,284.7	2,220.8	2,200.8	5.8	6.0	-152.74	-102.0	298.0	510.8	502.2	8.60	59.381		
2,400.0	2,383.7	2,316.4	2,294.9	6.1	6.3	-152.69	-108.9	313.7	539.9	530.9	9.01	59.940		
2,500.0	2,482.6	2,412.1	2,389.1	6.4	6.7	-152.64	-115.9	329.4	569.0	559.6	9.41	60.448		
2,600.0	2,581.5	2,507.8	2,483.2	6.7	7.0	-152.60	-122.8	345.1	598.1	588.2	9.82	60.912		
2,700.0	2,680.5	2,603.5	2,577.3	7.0	7.4	-152.56	-129.7	360.7	627.1	616.9	10.22	61.338		
2,800.0	2,779.4	2,699.1	2,671.5	7.3	7.7	-152.52	-136.6	376.4	656.2	645.6	10.63	61.729		
2,900.0	2,878.4	2,794.8	2,765.6	7.6	8.0	-152.49	-143.5	392.1	685.3	674.3	11.04	62.090		
3,000.0	2,977.3	2,890.5	2,859.7	7.9	8.4	-152.46	-150.4	407.8	714.4	702.9	11.44	62.424		
3,100.0	3,076.2	2,986.2	2,953.9	8.2	8.7	-152.43	-157.4	423.4	743.5	731.6	11.85	62.734		
3,200.0	3,175.2	3,081.9	3,048.0	8.5	9.1	-152.41	-164.3	439.1	772.5	760.3	12.26	63.023		
3,300.0	3,274.1	3,177.5	3,142.1	8.8	9.4	-152.38	-171.2	454.8	801.6	788.9	12.67	63.292		
3,400.0	3,373.1	3,273.2	3,236.3	9.1	9.8	-152.36	-178.1	470.5	830.7	817.6	13.07	63.544		
3,500.0	3,472.0	3,368.9	3,330.4	9.4	10.1	-152.34	-185.0	486.2	859.8	846.3	13.48	63.780		
3,600.0	3,570.9	3,464.6	3,424.5	9.8	10.4	-152.32	-191.9	501.8	888.8	875.0	13.89	64.002		
3,700.0	3,669.9	3,560.3	3,518.7	10.1	10.8	-152.31	-198.9	517.5	917.9	903.6	14.30	64.210		
3,800.0	3,768.8	3,655.9	3,612.8	10.4	11.1	-152.29	-205.8	533.2	947.0	932.3	14.70	64.406		
3,900.0	3,867.8	3,751.6	3,706.9	10.7	11.5	-152.27	-212.7	548.9	976.1	961.0	15.11	64.592		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.30	-0.4	75.2	75.2					
100.0	100.0	100.0	100.0	0.2	0.2	90.30	-0.4	75.2	75.2	74.9	0.30	247.492		
166.7	166.7	166.7	166.7	0.3	0.3	90.30	-0.4	75.2	75.2	74.6	0.54	140.130	CC	
200.0	200.0	200.0	200.0	0.3	0.3	90.30	-0.4	75.2	75.2	74.5	0.65	115.153	ES	
300.0	300.0	298.8	298.8	0.5	0.5	90.52	-0.7	76.0	76.0	75.0	1.00	75.932		
400.0	400.0	397.5	397.4	0.7	0.7	-152.73	-1.6	78.4	79.2	77.8	1.35	58.781		
500.0	500.0	495.9	495.8	0.9	0.9	-152.54	-3.1	82.3	85.6	83.9	1.70	50.473		
600.0	599.9	594.0	593.7	1.0	1.1	-152.50	-5.1	87.9	95.1	93.1	2.05	46.506		
700.0	699.7	691.6	691.0	1.2	1.3	-152.58	-7.7	94.9	107.8	105.4	2.40	44.964		
800.0	799.4	788.5	787.5	1.4	1.5	-152.72	-10.9	103.5	123.6	120.8	2.75	44.903	SF	
900.0	898.9	884.6	883.0	1.7	1.7	-152.89	-14.6	113.4	142.5	139.4	3.11	45.796		
1,000.0	998.3	979.8	977.3	1.9	2.0	-153.06	-18.9	124.8	164.4	160.9	3.47	47.327		
1,100.0	1,097.4	1,073.9	1,070.5	2.2	2.3	-153.23	-23.6	137.5	189.4	185.5	3.84	49.296		
1,200.0	1,196.4	1,166.9	1,162.3	2.5	2.6	-153.41	-28.8	151.4	217.0	212.8	4.22	51.466		
1,300.0	1,295.3	1,259.1	1,253.0	2.8	2.9	-153.47	-34.5	166.6	246.2	241.6	4.60	53.555		
1,400.0	1,394.2	1,350.4	1,342.7	3.1	3.2	-153.40	-40.6	183.0	276.8	271.8	4.98	55.577		
1,500.0	1,493.2	1,440.8	1,431.1	3.4	3.6	-153.24	-47.1	200.6	308.8	303.4	5.36	57.553		
1,600.0	1,592.1	1,535.0	1,523.1	3.6	3.9	-153.06	-54.2	219.6	341.5	335.8	5.76	59.295		
1,700.0	1,691.1	1,629.4	1,615.3	3.9	4.3	-152.91	-61.3	238.7	374.3	368.2	6.16	60.794		
1,800.0	1,790.0	1,723.9	1,707.5	4.2	4.7	-152.78	-68.4	257.8	407.1	400.6	6.56	62.099		
1,900.0	1,888.9	1,818.4	1,799.8	4.6	5.1	-152.67	-75.5	276.9	439.9	433.0	6.96	63.246		
2,000.0	1,987.9	1,912.8	1,892.0	4.9	5.5	-152.58	-82.7	296.0	472.7	465.4	7.36	64.260		
2,100.0	2,086.8	2,007.3	1,984.3	5.2	5.9	-152.50	-89.8	315.2	505.5	497.8	7.76	65.163		
2,200.0	2,185.8	2,101.8	2,076.5	5.5	6.3	-152.43	-96.9	334.3	538.3	530.2	8.16	65.972		
2,300.0	2,284.7	2,196.2	2,168.7	5.8	6.6	-152.37	-104.0	353.4	571.1	562.6	8.56	66.701		
2,400.0	2,383.7	2,290.7	2,261.0	6.1	7.0	-152.31	-111.1	372.5	603.9	595.0	8.97	67.361		
2,500.0	2,482.6	2,385.2	2,353.2	6.4	7.4	-152.26	-118.2	391.6	636.7	627.4	9.37	67.961		
2,600.0	2,581.5	2,479.6	2,445.5	6.7	7.8	-152.21	-125.4	410.7	669.5	659.8	9.77	68.509		
2,700.0	2,680.5	2,574.1	2,537.7	7.0	8.2	-152.17	-132.5	429.8	702.3	692.1	10.18	69.012		
2,800.0	2,779.4	2,668.6	2,629.9	7.3	8.6	-152.13	-139.6	448.9	735.1	724.5	10.58	69.474		
2,900.0	2,878.4	2,763.0	2,722.2	7.6	9.0	-152.10	-146.7	468.0	767.9	756.9	10.99	69.901		
3,000.0	2,977.3	2,857.5	2,814.4	7.9	9.4	-152.07	-153.8	487.1	800.7	789.3	11.39	70.296		
3,100.0	3,076.2	2,952.0	2,906.7	8.2	9.8	-152.04	-160.9	506.2	833.5	821.7	11.80	70.663		
3,200.0	3,175.2	3,046.4	2,998.9	8.5	10.2	-152.01	-168.1	525.3	866.3	854.1	12.20	71.004		
3,300.0	3,274.1	3,140.9	3,091.1	8.8	10.6	-151.99	-175.2	544.4	899.1	886.5	12.61	71.323		
3,400.0	3,373.1	3,235.4	3,183.4	9.1	11.0	-151.96	-182.3	563.5	931.9	918.9	13.01	71.621		
3,500.0	3,472.0	3,329.8	3,275.6	9.4	11.4	-151.94	-189.4	582.6	964.7	951.3	13.42	71.900		
3,600.0	3,570.9	3,424.3	3,367.9	9.8	11.8	-151.92	-196.5	601.7	997.5	983.7	13.82	72.162		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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				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	-67.70	192.0	-468.0	505.9					
100.0	100.0	101.3	101.3	0.2	0.2	-67.69	192.0	-468.0	505.9	505.5	0.33	1,548.718		
200.0	200.0	201.5	201.5	0.3	0.4	-67.67	192.2	-467.9	505.8	505.1	0.67	750.414		
300.0	300.0	301.7	301.7	0.5	0.5	-67.63	192.5	-467.6	505.7	504.7	1.02	495.098		
400.0	400.0	401.8	401.8	0.7	0.7	48.90	192.9	-467.3	505.0	503.6	1.37	367.611		
500.0	500.0	502.0	502.0	0.9	0.9	49.22	193.4	-466.9	503.1	501.4	1.72	291.759		
600.0	599.9	602.0	602.0	1.0	1.0	49.71	194.1	-466.5	500.1	498.0	2.08	240.537		
700.0	699.7	702.0	701.9	1.2	1.2	50.38	194.8	-465.9	496.0	493.5	2.44	203.257		
800.0	799.4	801.7	801.7	1.4	1.4	51.25	195.7	-465.2	490.7	487.9	2.81	174.645		
900.0	898.9	910.6	910.6	1.7	1.6	52.44	196.6	-463.8	484.0	480.8	3.21	150.766		
1,000.0	998.3	1,020.6	1,020.5	1.9	1.8	53.73	195.0	-460.4	473.8	470.2	3.62	130.720		
1,100.0	1,097.4	1,134.0	1,133.7	2.2	2.0	55.20	190.7	-454.6	459.8	455.8	4.06	113.176		
1,200.0	1,196.4	1,243.4	1,242.6	2.5	2.2	56.66	184.2	-447.3	443.0	438.4	4.51	98.209		
1,300.0	1,295.3	1,351.7	1,350.1	2.8	2.4	57.96	174.8	-438.3	423.5	418.6	4.96	85.336		
1,400.0	1,394.2	1,453.0	1,450.5	3.1	2.7	59.27	165.1	-428.7	402.8	397.4	5.41	74.411		
1,500.0	1,493.2	1,555.0	1,551.4	3.4	2.9	60.94	155.6	-417.2	381.1	375.2	5.88	64.857		
1,600.0	1,592.1	1,661.4	1,656.5	3.6	3.2	62.91	145.0	-404.0	358.4	352.0	6.36	56.368		
1,700.0	1,691.1	1,765.0	1,758.2	3.9	3.6	65.07	132.4	-388.7	332.8	325.9	6.84	48.622		
1,800.0	1,790.0	1,865.7	1,856.7	4.2	3.9	67.49	119.3	-373.0	306.5	299.2	7.34	41.779		
1,900.0	1,888.9	1,963.9	1,952.5	4.6	4.3	70.31	105.3	-356.2	279.0	271.1	7.84	35.569		
2,000.0	1,987.9	2,059.9	2,046.1	4.9	4.7	73.71	91.7	-339.7	252.2	243.8	8.37	30.124		
2,100.0	2,086.8	2,158.0	2,141.4	5.2	5.1	78.10	77.2	-321.7	225.1	216.1	8.94	25.167		
2,200.0	2,185.8	2,252.1	2,232.6	5.5	5.5	83.45	62.9	-303.8	198.9	189.3	9.56	20.795		
2,300.0	2,284.7	2,344.9	2,322.9	5.8	5.9	90.16	49.6	-286.7	175.9	165.6	10.25	17.150		
2,400.0	2,383.7	2,439.1	2,414.6	6.1	6.2	98.67	36.5	-269.5	156.6	145.6	11.03	14.201		
2,500.0	2,482.6	2,534.8	2,507.8	6.4	6.6	109.19	23.4	-252.2	142.0	130.1	11.85	11.985		
2,600.0	2,581.5	2,631.4	2,601.6	6.7	7.1	121.84	8.8	-234.2	132.1	119.5	12.62	10.470		
2,683.8	2,664.4	2,710.7	2,678.4	6.9	7.4	133.30	-3.8	-219.0	129.1	116.0	13.10	9.860 CC, ES		
2,700.0	2,680.5	2,725.9	2,693.2	7.0	7.5	135.50	-6.2	-216.2	129.3	116.1	13.17	9.817 SF		
2,800.0	2,779.4	2,820.8	2,785.3	7.3	7.9	148.42	-20.6	-199.3	134.5	121.1	13.46	9.991		
2,900.0	2,878.4	2,914.2	2,876.2	7.6	8.3	159.73	-34.6	-182.7	146.8	133.2	13.63	10.770		
3,000.0	2,977.3	3,009.1	2,968.4	7.9	8.7	169.27	-48.3	-165.0	165.2	151.4	13.78	11.987		
3,100.0	3,076.2	3,104.1	3,060.9	8.2	9.1	176.83	-62.2	-147.9	186.8	172.8	13.99	13.352		
3,200.0	3,175.2	3,198.8	3,153.0	8.5	9.5	-177.23	-75.9	-130.6	211.2	196.9	14.27	14.801		
3,300.0	3,274.1	3,294.7	3,246.4	8.8	9.9	-172.58	-89.3	-113.6	237.1	222.5	14.60	16.247		
3,400.0	3,373.1	3,389.6	3,338.9	9.1	10.4	-168.95	-102.5	-97.1	263.9	248.9	14.96	17.636		
3,500.0	3,472.0	3,484.5	3,431.3	9.4	10.8	-165.89	-116.0	-80.2	291.7	276.4	15.35	19.001		
3,600.0	3,570.9	3,579.2	3,523.5	9.8	11.2	-163.39	-129.4	-63.5	320.1	304.4	15.76	20.319		
3,700.0	3,669.9	3,673.1	3,615.1	10.1	11.6	-161.36	-142.3	-46.8	349.3	333.1	16.18	21.592		
3,800.0	3,768.8	3,765.5	3,704.9	10.4	12.0	-159.56	-155.6	-29.8	379.2	362.6	16.60	22.845		
3,900.0	3,867.8	3,855.8	3,792.6	10.7	12.4	-158.06	-168.5	-12.5	410.2	393.2	17.02	24.097		
4,000.0	3,966.7	3,953.6	3,887.4	11.0	12.9	-156.62	-182.7	6.9	442.1	424.6	17.47	25.304		
4,100.0	4,065.7	4,044.1	3,975.1	11.3	13.3	-155.41	-196.3	24.3	473.6	455.7	17.91	26.439		
4,200.0	4,164.6	4,144.2	4,072.0	11.6	13.7	-154.21	-211.5	44.2	506.0	487.6	18.38	27.535		
4,300.0	4,263.5	4,239.4	4,164.6	11.9	14.2	-153.33	-225.0	61.8	537.1	518.2	18.82	28.539		
4,400.0	4,362.5	4,334.3	4,257.0	12.2	14.6	-152.60	-237.9	79.4	568.4	549.1	19.26	29.509		
4,500.0	4,461.4	4,442.4	4,362.5	12.5	15.0	-151.95	-251.7	98.6	599.0	579.2	19.73	30.359		
4,600.0	4,560.4	4,542.0	4,460.0	12.8	15.4	-151.48	-263.8	114.3	627.5	607.4	20.18	31.098		
4,700.0	4,659.3	4,641.4	4,557.5	13.1	15.8	-151.04	-275.9	129.8	656.1	635.5	20.63	31.804		
4,800.0	4,758.2	4,748.5	4,662.7	13.5	16.2	-150.63	-288.6	145.1	683.3	662.2	21.10	32.391		
4,900.0	4,857.2	4,841.6	4,754.3	13.8	16.5	-150.33	-299.4	158.2	710.4	688.8	21.53	32.994		
5,000.0	4,956.1	4,949.5	4,860.5	14.1	16.9	-150.04	-311.4	172.5	736.6	714.6	21.99	33.490		

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 4B-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 4B-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		
5,100.0	5,055.1	5,052.6	4,962.3	14.4	17.2	-149.82	-322.4	184.9	761.6	739.1	22.44	33.939		
5,200.0	5,154.0	5,155.6	5,064.2	14.7	17.5	-149.76	-331.4	196.9	786.1	763.3	22.87	34.373		
5,300.0	5,253.0	5,260.2	5,168.0	15.0	17.8	-149.82	-338.9	208.0	809.6	786.3	23.30	34.747		
5,400.0	5,351.9	5,366.1	5,273.0	15.3	18.1	-149.84	-346.9	218.4	832.3	808.5	23.74	35.060		
5,500.0	5,450.8	5,465.1	5,371.4	15.6	18.4	-149.89	-353.9	227.2	854.1	830.0	24.15	35.360		
5,600.0	5,549.8	5,575.7	5,481.3	15.9	18.6	-150.00	-360.9	236.5	875.3	850.7	24.59	35.597		
5,700.0	5,648.7	5,671.4	5,576.6	16.2	18.9	-150.10	-366.7	244.0	896.0	871.0	24.99	35.853		
5,800.0	5,747.7	5,774.7	5,679.4	16.5	19.1	-150.27	-372.0	251.8	916.4	891.0	25.40	36.074		
5,900.0	5,846.6	5,883.5	5,787.9	16.9	19.3	-150.46	-377.1	259.3	936.0	910.2	25.81	36.263		
6,000.0	5,945.5	5,997.8	5,902.0	17.2	19.5	-150.79	-380.3	265.5	954.2	928.0	26.21	36.406		
6,100.0	6,044.5	6,109.6	6,013.7	17.5	19.7	-151.11	-382.9	269.7	970.8	944.1	26.62	36.471		
6,200.0	6,143.4	6,225.3	6,129.3	17.8	19.8	-151.44	-385.6	272.8	986.3	959.3	27.02	36.498		
6,300.0	6,242.4	6,340.1	6,244.0	18.1	20.0	-151.81	-387.2	273.4	999.7	972.3	27.40	36.478		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4B-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 4B-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

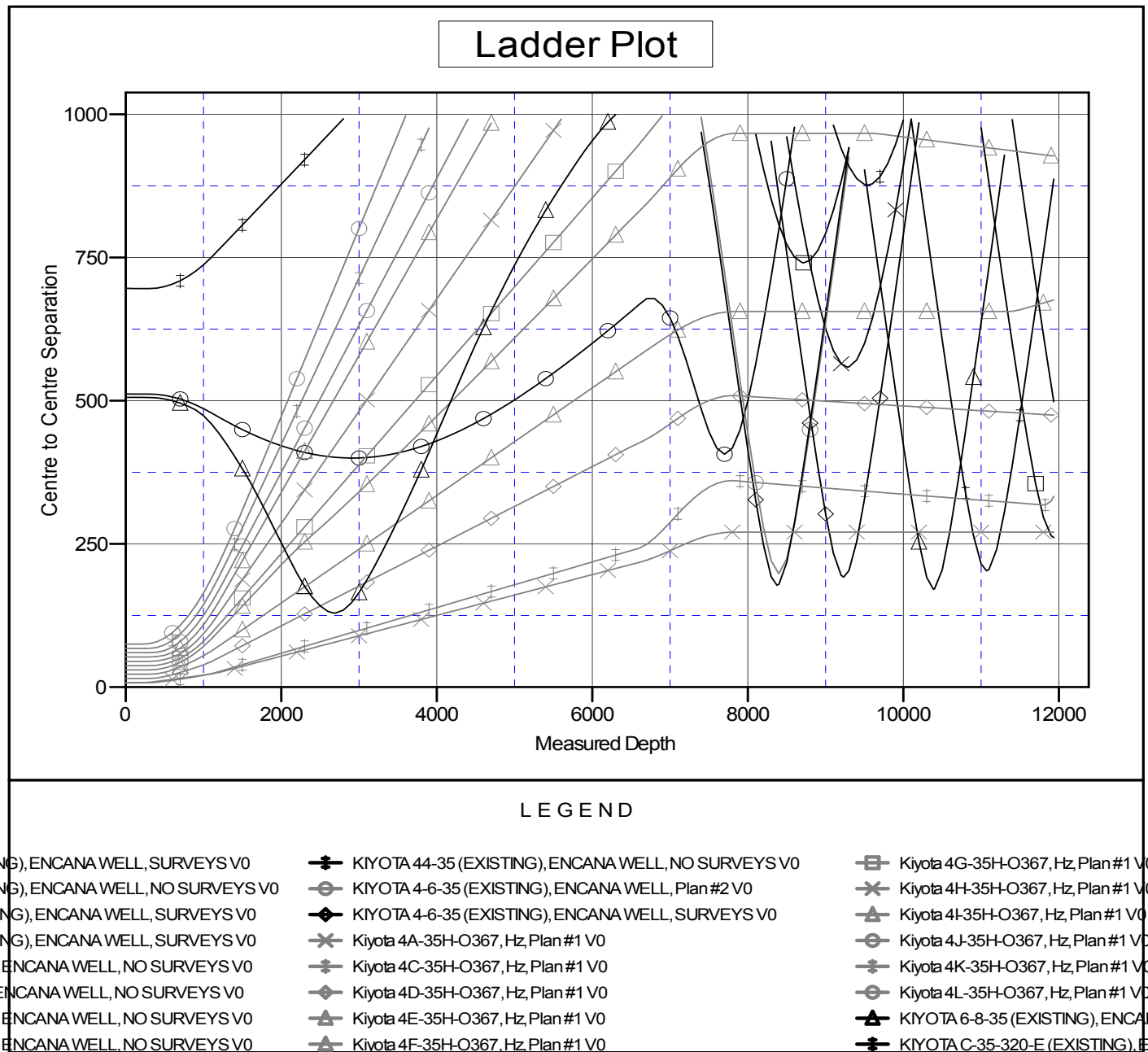
Offset Design S35-T3N-R67W (Kiyota) - KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 7915-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured 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		
9,100.0	7,350.0	7,318.0	7,318.0	36.0	12.8	90.00	2,045.1	5.3	981.0	935.8	45.29	21.659			
9,200.0	7,350.0	7,318.0	7,318.0	37.4	12.8	90.00	2,045.1	5.3	940.4	893.5	46.91	20.047			
9,300.0	7,350.0	7,318.0	7,318.0	38.9	12.8	90.00	2,045.1	5.3	909.0	860.5	48.54	18.727			
9,400.0	7,350.0	7,318.0	7,318.0	40.4	12.8	90.00	2,045.1	5.3	887.9	837.7	50.18	17.692			
9,500.0	7,350.0	7,318.0	7,318.0	42.0	12.8	90.00	2,045.1	5.3	877.6	825.8	51.83	16.932			
9,540.3	7,350.0	7,318.0	7,318.0	42.6	12.8	90.00	2,045.1	5.3	876.7	824.2	52.50	16.699	CC, ES		
9,600.0	7,350.0	7,318.0	7,318.0	43.5	12.8	90.00	2,045.1	5.3	878.7	825.2	53.49	16.427			
9,700.0	7,350.0	7,318.0	7,318.0	45.1	12.8	90.00	2,045.1	5.3	891.1	836.0	55.16	16.155			
9,800.0	7,350.0	7,318.0	7,318.0	46.7	12.8	90.00	2,045.1	5.3	914.4	857.5	56.83	16.088	SF		
9,900.0	7,350.0	7,318.0	7,318.0	48.2	12.8	90.00	2,045.1	5.3	947.6	889.1	58.51	16.195			
10,000.0	7,350.0	7,318.0	7,318.0	49.8	12.8	90.00	2,045.1	5.3	989.9	929.7	60.20	16.444			

Anticollision Report

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



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