

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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 4C-35H-O367					
Well Position	+N/-S	0.0 ft	Northing:	1,307,458.47 ft	Latitude:	40.175556
	+E/-W	0.0 ft	Easting:	3,180,575.66 ft	Longitude:	-104.853794
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)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,044.8	6.45	233.61	1,043.4	-21.5	-29.2	1.00	1.00	0.00	233.61	
6,405.5	6.45	233.61	6,370.2	-378.7	-513.8	0.00	0.00	0.00	0.00	
7,577.3	90.00	359.20	7,130.0	335.0	-593.6	8.00	7.13	10.72	125.42	
11,582.3	90.00	359.20	7,130.0	4,339.6	-649.5	0.00	0.00	0.00	0.00	Interp @ 7130.0 (Kiyc

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site:	S35-T3N-R67W (Kiyota)	North Reference:	True
Well:	Kiyota 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
248.0	0.00	0.00	248.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	1.00	233.61	500.0	-0.5	-0.7	-0.5	1.00	1.00	
600.0	2.00	233.61	600.0	-2.1	-2.8	-2.1	1.00	1.00	
700.0	3.00	233.61	699.9	-4.7	-6.3	-4.7	1.00	1.00	
800.0	4.00	233.61	799.7	-8.3	-11.2	-8.3	1.00	1.00	
900.0	5.00	233.61	899.4	-12.9	-17.6	-12.9	1.00	1.00	
1,000.0	6.00	233.61	998.9	-18.6	-25.3	-18.6	1.00	1.00	
1,044.8	6.45	233.61	1,043.4	-21.5	-29.2	-21.5	1.00	1.00	EOB; Inc=6.45°
1,100.0	6.45	233.61	1,098.3	-25.2	-34.2	-25.2	0.00	0.00	
1,200.0	6.45	233.61	1,197.7	-31.8	-43.2	-31.8	0.00	0.00	
1,300.0	6.45	233.61	1,297.0	-38.5	-52.2	-38.5	0.00	0.00	
1,400.0	6.45	233.61	1,396.4	-45.2	-61.3	-45.2	0.00	0.00	
1,500.0	6.45	233.61	1,495.8	-51.8	-70.3	-51.8	0.00	0.00	
1,600.0	6.45	233.61	1,595.1	-58.5	-79.4	-58.5	0.00	0.00	
1,700.0	6.45	233.61	1,694.5	-65.2	-88.4	-65.2	0.00	0.00	
1,800.0	6.45	233.61	1,793.9	-71.8	-97.4	-71.8	0.00	0.00	
1,900.0	6.45	233.61	1,893.2	-78.5	-106.5	-78.5	0.00	0.00	
2,000.0	6.45	233.61	1,992.6	-85.1	-115.5	-85.1	0.00	0.00	
2,100.0	6.45	233.61	2,092.0	-91.8	-124.6	-91.8	0.00	0.00	
2,200.0	6.45	233.61	2,191.3	-98.5	-133.6	-98.5	0.00	0.00	
2,300.0	6.45	233.61	2,290.7	-105.1	-142.6	-105.1	0.00	0.00	
2,400.0	6.45	233.61	2,390.1	-111.8	-151.7	-111.8	0.00	0.00	
2,500.0	6.45	233.61	2,489.4	-118.5	-160.7	-118.5	0.00	0.00	
2,600.0	6.45	233.61	2,588.8	-125.1	-169.8	-125.1	0.00	0.00	
2,700.0	6.45	233.61	2,688.2	-131.8	-178.8	-131.8	0.00	0.00	
2,800.0	6.45	233.61	2,787.5	-138.4	-187.8	-138.4	0.00	0.00	
2,900.0	6.45	233.61	2,886.9	-145.1	-196.9	-145.1	0.00	0.00	
3,000.0	6.45	233.61	2,986.3	-151.8	-205.9	-151.8	0.00	0.00	
3,100.0	6.45	233.61	3,085.6	-158.4	-215.0	-158.4	0.00	0.00	
3,200.0	6.45	233.61	3,185.0	-165.1	-224.0	-165.1	0.00	0.00	
3,300.0	6.45	233.61	3,284.4	-171.8	-233.0	-171.8	0.00	0.00	
3,400.0	6.45	233.61	3,383.7	-178.4	-242.1	-178.4	0.00	0.00	
3,500.0	6.45	233.61	3,483.1	-185.1	-251.1	-185.1	0.00	0.00	
3,600.0	6.45	233.61	3,582.5	-191.7	-260.2	-191.7	0.00	0.00	
3,700.0	6.45	233.61	3,681.9	-198.4	-269.2	-198.4	0.00	0.00	
3,800.0	6.45	233.61	3,781.2	-205.1	-278.2	-205.1	0.00	0.00	
3,900.0	6.45	233.61	3,880.6	-211.7	-287.3	-211.7	0.00	0.00	
4,000.0	6.45	233.61	3,980.0	-218.4	-296.3	-218.4	0.00	0.00	
4,100.0	6.45	233.61	4,079.3	-225.1	-305.4	-225.1	0.00	0.00	
4,153.0	6.45	233.61	4,132.0	-228.6	-310.1	-228.6	0.00	0.00	Sussex
4,200.0	6.45	233.61	4,178.7	-231.7	-314.4	-231.7	0.00	0.00	
4,300.0	6.45	233.61	4,278.1	-238.4	-323.4	-238.4	0.00	0.00	
4,400.0	6.45	233.61	4,377.4	-245.0	-332.5	-245.0	0.00	0.00	
4,444.9	6.45	233.61	4,422.0	-248.0	-336.5	-248.0	0.00	0.00	Shannon
4,500.0	6.45	233.61	4,476.8	-251.7	-341.5	-251.7	0.00	0.00	
4,600.0	6.45	233.61	4,576.2	-258.4	-350.6	-258.4	0.00	0.00	
4,700.0	6.45	233.61	4,675.5	-265.0	-359.6	-265.0	0.00	0.00	

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Well:	Kiyota 4C-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
4,746.8	6.45	233.61	4,722.0	-268.2	-363.8	-268.2	0.00	0.00	Teepee Buttes (*if present)
4,800.0	6.45	233.61	4,774.9	-271.7	-368.6	-271.7	0.00	0.00	
4,900.0	6.45	233.61	4,874.3	-278.4	-377.7	-278.4	0.00	0.00	
5,000.0	6.45	233.61	4,973.6	-285.0	-386.7	-285.0	0.00	0.00	
5,100.0	6.45	233.61	5,073.0	-291.7	-395.7	-291.7	0.00	0.00	
5,200.0	6.45	233.61	5,172.4	-298.3	-404.8	-298.3	0.00	0.00	
5,300.0	6.45	233.61	5,271.7	-305.0	-413.8	-305.0	0.00	0.00	
5,400.0	6.45	233.61	5,371.1	-311.7	-422.9	-311.7	0.00	0.00	
5,500.0	6.45	233.61	5,470.5	-318.3	-431.9	-318.3	0.00	0.00	
5,600.0	6.45	233.61	5,569.8	-325.0	-440.9	-325.0	0.00	0.00	
5,700.0	6.45	233.61	5,669.2	-331.7	-450.0	-331.7	0.00	0.00	Start build/turn @ 6405' MD
5,800.0	6.45	233.61	5,768.6	-338.3	-459.0	-338.3	0.00	0.00	
5,900.0	6.45	233.61	5,867.9	-345.0	-468.1	-345.0	0.00	0.00	
6,000.0	6.45	233.61	5,967.3	-351.6	-477.1	-351.6	0.00	0.00	
6,100.0	6.45	233.61	6,066.7	-358.3	-486.1	-358.3	0.00	0.00	
6,200.0	6.45	233.61	6,166.0	-365.0	-495.2	-365.0	0.00	0.00	
6,300.0	6.45	233.61	6,265.4	-371.6	-504.2	-371.6	0.00	0.00	
6,400.0	6.45	233.61	6,364.8	-378.3	-513.3	-378.3	0.00	0.00	
6,405.5	6.45	233.61	6,370.2	-378.7	-513.8	-378.7	0.00	0.00	
6,500.0	6.49	305.28	6,464.3	-378.7	-522.4	-378.7	8.00	0.04	Sharon Springs
6,600.0	12.91	335.57	6,562.9	-365.3	-531.7	-365.3	8.00	6.43	
6,700.0	20.47	344.95	6,658.6	-338.2	-540.8	-338.2	8.00	7.56	
6,800.0	28.27	349.36	6,749.6	-297.9	-549.8	-297.9	8.00	7.80	
6,900.0	36.15	351.97	6,834.2	-245.4	-558.3	-245.4	8.00	7.88	
7,000.0	44.06	353.75	6,910.6	-181.5	-566.2	-181.5	8.00	7.92	
7,100.0	52.00	355.08	6,977.4	-107.6	-573.4	-107.6	8.00	7.94	
7,132.8	54.61	355.46	6,997.0	-81.3	-575.5	-81.3	8.00	7.95	
7,200.0	59.95	356.15	7,033.3	-25.0	-579.6	-25.0	8.00	7.95	
7,300.0	67.91	357.06	7,077.2	64.6	-584.9	64.6	8.00	7.96	Niobrara
7,321.5	69.63	357.24	7,085.0	84.7	-585.9	84.7	8.01	7.97	
7,400.0	75.88	357.87	7,108.3	159.5	-589.1	159.5	8.00	7.96	
7,451.4	79.97	358.27	7,119.0	209.7	-590.8	209.7	8.00	7.97	
7,500.0	83.84	358.63	7,125.9	257.8	-592.1	257.8	8.00	7.96	
7,577.3	90.00	359.20	7,130.0	335.0	-593.6	335.0	8.00	7.97	
7,600.0	90.00	359.20	7,130.0	357.7	-593.9	357.7	0.00	0.00	
7,700.0	90.00	359.20	7,130.0	457.6	-595.3	457.6	0.00	0.00	
7,800.0	90.00	359.20	7,130.0	557.6	-596.7	557.6	0.00	0.00	
7,900.0	90.00	359.20	7,130.0	657.6	-598.1	657.6	0.00	0.00	
8,000.0	90.00	359.20	7,130.0	757.6	-599.5	757.6	0.00	0.00	LP @ 7130' TVD; 90°
8,100.0	90.00	359.20	7,130.0	857.6	-600.9	857.6	0.00	0.00	
8,200.0	90.00	359.20	7,130.0	957.6	-602.2	957.6	0.00	0.00	
8,300.0	90.00	359.20	7,130.0	1,057.6	-603.6	1,057.6	0.00	0.00	
8,400.0	90.00	359.20	7,130.0	1,157.6	-605.0	1,157.6	0.00	0.00	
8,500.0	90.00	359.20	7,130.0	1,257.6	-606.4	1,257.6	0.00	0.00	
8,600.0	90.00	359.20	7,130.0	1,357.6	-607.8	1,357.6	0.00	0.00	
8,700.0	90.00	359.20	7,130.0	1,457.5	-609.2	1,457.5	0.00	0.00	
8,800.0	90.00	359.20	7,130.0	1,557.5	-610.6	1,557.5	0.00	0.00	
8,900.0	90.00	359.20	7,130.0	1,657.5	-612.0	1,657.5	0.00	0.00	
9,000.0	90.00	359.20	7,130.0	1,757.5	-613.4	1,757.5	0.00	0.00	
9,100.0	90.00	359.20	7,130.0	1,857.5	-614.8	1,857.5	0.00	0.00	
9,200.0	90.00	359.20	7,130.0	1,957.5	-616.2	1,957.5	0.00	0.00	
9,300.0	90.00	359.20	7,130.0	2,057.5	-617.6	2,057.5	0.00	0.00	

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Well:	Kiyota 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,400.0	90.00	359.20	7,130.0	2,157.5	-619.0	2,157.5	0.00	0.00	
9,500.0	90.00	359.20	7,130.0	2,257.5	-620.4	2,257.5	0.00	0.00	
9,600.0	90.00	359.20	7,130.0	2,357.5	-621.8	2,357.5	0.00	0.00	
9,700.0	90.00	359.20	7,130.0	2,457.5	-623.2	2,457.5	0.00	0.00	
9,800.0	90.00	359.20	7,130.0	2,557.4	-624.6	2,557.4	0.00	0.00	
9,900.0	90.00	359.20	7,130.0	2,657.4	-626.0	2,657.4	0.00	0.00	
10,000.0	90.00	359.20	7,130.0	2,757.4	-627.4	2,757.4	0.00	0.00	
10,100.0	90.00	359.20	7,130.0	2,857.4	-628.8	2,857.4	0.00	0.00	
10,200.0	90.00	359.20	7,130.0	2,957.4	-630.2	2,957.4	0.00	0.00	
10,300.0	90.00	359.20	7,130.0	3,057.4	-631.6	3,057.4	0.00	0.00	
10,400.0	90.00	359.20	7,130.0	3,157.4	-633.0	3,157.4	0.00	0.00	
10,500.0	90.00	359.20	7,130.0	3,257.4	-634.4	3,257.4	0.00	0.00	
10,600.0	90.00	359.20	7,130.0	3,357.4	-635.8	3,357.4	0.00	0.00	
10,700.0	90.00	359.20	7,130.0	3,457.4	-637.2	3,457.4	0.00	0.00	
10,800.0	90.00	359.20	7,130.0	3,557.3	-638.6	3,557.3	0.00	0.00	
10,900.0	90.00	359.20	7,130.0	3,657.3	-639.9	3,657.3	0.00	0.00	
11,000.0	90.00	359.20	7,130.0	3,757.3	-641.3	3,757.3	0.00	0.00	
11,100.0	90.00	359.20	7,130.0	3,857.3	-642.7	3,857.3	0.00	0.00	
11,200.0	90.00	359.20	7,130.0	3,957.3	-644.1	3,957.3	0.00	0.00	
11,300.0	90.00	359.20	7,130.0	4,057.3	-645.5	4,057.3	0.00	0.00	
11,400.0	90.00	359.20	7,130.0	4,157.3	-646.9	4,157.3	0.00	0.00	
11,500.0	90.00	359.20	7,130.0	4,257.3	-648.3	4,257.3	0.00	0.00	
11,582.3	90.00	359.20	7,130.0	4,339.6	-649.5	4,339.6	0.00	0.00	TD at 11582.3 - Interp @ 7130.0 (Kiyota 4C-35H-O367)

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									
Interp @ 7130.0 (Kiyota 4C-35H-O367)	0.00	0.00	7,130.0	4,339.6	-649.5	1,311,793.19	3,179,894.58	40.187469	-104.856119
- plan hits target center									
- Point									
Kiyota 4C-35H-O367 PB	0.00	0.00	7,130.0	4,434.4	-653.5	1,311,888.04	3,179,889.89	40.187729	-104.856133
- plan misses target center by 95.0ft at 11582.3ft MD (7130.0 TVD, 4339.6 N, -649.5 E)									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
248.0	248.0	Fox Hills - BASE			
4,153.0	4,132.0	Sussex			
4,444.9	4,422.0	Shannon			
4,746.8	4,722.0	Teepee Buttes (*if present)			
7,132.8	6,997.0	Sharon Springs			
7,321.5	7,085.0	Niobrara			
7,451.4	7,119.0	B Chalk			

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4848.0ft (Original Well Elev)
Site:	S35-T3N-R67W (Kiyota)	North Reference:	True
Well:	Kiyota 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400'
1,044.8	1,043.4	-21.5	-29.2	EOB; Inc=6.45°
6,405.5	6,370.2	-378.7	-513.8	Start build/turn @ 6405' MD
7,577.3	7,130.0	335.0	-593.6	LP @ 7130' TVD; 90°
11,582.3	7,130.0	4,339.6	-649.5	TD at 11582.3

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S35-T3N-R67W (Kiyota)

Kiyota 4C-35H-O367

Hz

Plan #1

Anticollision Report

19 May, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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	11,582.3	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S35-T3N-R67W (Kiyota)						
KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURV	10,795.2	7,102.0	910.1	832.4	11.710	CC
KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURV	10,800.0	7,102.0	910.2	832.3	11.698	ES
KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURV	11,000.0	7,102.0	932.9	851.6	11.481	SF
KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURV	11,582.3	7,099.3	113.1	21.9	1.240	Level 2, CC, ES, SF
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - NO S	10,135.4	7,094.0	78.7	12.3	1.186	Level 2, CC, ES, SF
KAWAKAMI 4-0-35 (EXISTING) - ENCANA WELL - SUR	11,582.3	7,175.9	719.6	626.4	7.726	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	10,825.8	7,189.6	441.2	356.6	5.216	CC, ES
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR	10,900.0	7,189.5	447.4	361.5	5.211	SF
KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SUR	11,582.3	7,193.5	952.1	859.0	10.230	CC, ES, SF
KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURV	8,981.8	7,117.0	73.6	26.6	1.565	CC, ES, SF
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,460.6	7,106.0	467.9	429.2	12.083	CC, ES
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,600.0	7,106.0	488.2	447.3	11.938	SF
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	7,454.6	7,105.6	119.8	93.7	4.586	CC, ES, SF
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV	9,024.9	7,109.0	293.6	245.8	6.148	CC, ES, SF
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	400.0	375.0	688.5	687.2	517.642	CC, ES
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	3,600.0	3,557.5	993.6	981.0	78.557	SF
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY	8,127.9	7,249.7	453.5	412.1	10.938	CC, ES
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY	8,200.0	7,249.5	459.2	416.7	10.806	SF
Kiyota 4A-35H-O367 - Hz - Plan #1	200.0	200.0	15.1	14.4	23.117	CC, ES
Kiyota 4A-35H-O367 - Hz - Plan #1	11,582.3	11,713.1	460.0	303.8	2.945	SF
Kiyota 4B-35H-O367 - Hz - Plan #1	300.0	300.0	7.5	6.5	7.531	CC, ES
Kiyota 4B-35H-O367 - Hz - Plan #1	11,582.3	11,834.7	317.9	201.4	2.728	SF
Kiyota 4D-35H-O367 - Hz - Plan #1	400.0	400.0	7.5	6.2	5.585	CC, ES
Kiyota 4D-35H-O367 - Hz - Plan #1	11,582.3	11,653.2	232.7	81.7	1.541	SF
Kiyota 4E-35H-O367 - Hz - Plan #1	400.0	400.0	15.1	13.7	11.170	CC, ES
Kiyota 4E-35H-O367 - Hz - Plan #1	11,582.3	11,784.3	494.3	352.3	3.481	SF
Kiyota 4F-35H-O367 - Hz - Plan #1	400.0	400.0	22.6	21.3	16.755	CC, ES
Kiyota 4F-35H-O367 - Hz - Plan #1	11,582.3	11,596.7	672.9	515.0	4.262	SF
Kiyota 4G-35H-O367 - Hz - Plan #1	400.0	400.0	29.9	28.5	22.133	CC, ES
Kiyota 4G-35H-O367 - Hz - Plan #1	11,582.3	11,485.0	889.8	734.0	5.709	SF
Kiyota 4H-35H-O367 - Hz - Plan #1	400.0	400.0	37.4	36.1	27.719	CC, ES
Kiyota 4H-35H-O367 - Hz - Plan #1	700.0	699.4	44.5	42.1	18.547	SF
Kiyota 4I-35H-O367 - Hz - Plan #1	400.0	400.0	45.0	43.6	33.304	CC, ES
Kiyota 4I-35H-O367 - Hz - Plan #1	700.0	698.4	54.2	51.8	22.598	SF
Kiyota 4J-35H-O367 - Hz - Plan #1	400.0	400.0	52.5	51.2	38.889	CC, ES
Kiyota 4J-35H-O367 - Hz - Plan #1	700.0	697.0	65.6	63.2	27.345	SF
Kiyota 4K-35H-O367 - Hz - Plan #1	300.0	300.0	60.1	59.1	59.970	CC, ES
Kiyota 4K-35H-O367 - Hz - Plan #1	700.0	695.2	79.0	76.6	32.947	SF
Kiyota 4L-35H-O367 - Hz - Plan #1	200.0	200.0	67.6	67.0	103.598	CC, ES
Kiyota 4L-35H-O367 - Hz - Plan #1	800.0	790.2	107.9	105.1	39.176	SF
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	2,968.8	3,006.5	106.6	92.4	7.535	CC, ES
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	3,000.0	3,036.6	106.9	92.6	7.457	SF
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,279.0	7,098.0	615.1	563.2	11.844	CC, ES
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,400.0	7,098.0	626.9	573.0	11.619	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		S35-T3N-R67W (Kiyota) - KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURVEYS										Offset Site Error:		0.0 ft	
Survey Program:		7882-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance								
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)					
10,400.0	7,130.0	7,102.0	7,102.0	59.4	12.4	90.00	3,565.2	271.6	992.2	921.3	70.93	13.989			
10,500.0	7,130.0	7,102.0	7,102.0	61.1	12.4	90.00	3,565.2	271.6	956.8	884.2	72.65	13.171			
10,600.0	7,130.0	7,102.0	7,102.0	62.8	12.4	90.00	3,565.2	271.6	930.8	856.5	74.36	12.517			
10,700.0	7,130.0	7,102.0	7,102.0	64.5	12.4	90.00	3,565.2	271.6	915.1	839.0	76.08	12.028			
10,795.2	7,130.0	7,102.0	7,102.0	66.1	12.4	90.00	3,565.2	271.6	910.1	832.4	77.72	11.710	CC		
10,800.0	7,130.0	7,102.0	7,102.0	66.2	12.4	90.00	3,565.2	271.6	910.2	832.3	77.81	11.698	ES		
10,900.0	7,130.0	7,102.0	7,102.0	67.9	12.4	90.00	3,565.2	271.6	916.2	836.6	79.53	11.520			
11,000.0	7,130.0	7,102.0	7,102.0	69.6	12.4	90.00	3,565.2	271.6	932.9	851.6	81.25	11.481	SF		
11,100.0	7,130.0	7,102.0	7,102.0	71.3	12.4	90.00	3,565.2	271.6	959.8	876.8	82.98	11.567			
11,200.0	7,130.0	7,102.0	7,102.0	73.0	12.4	90.00	3,565.2	271.6	996.1	911.4	84.71	11.760			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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 Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,700.0	7,130.0	7,111.3	7,110.0	64.5	12.5	111.86	4,447.3	-616.0	990.3	919.0	71.32	13.885		
10,800.0	7,130.0	7,110.0	7,108.8	66.2	12.5	110.04	4,447.4	-616.0	890.4	816.7	73.70	12.082		
10,900.0	7,130.0	7,108.7	7,107.5	67.9	12.5	108.15	4,447.4	-616.0	790.5	714.4	76.07	10.391		
11,000.0	7,130.0	7,107.4	7,106.2	69.6	12.5	106.18	4,447.4	-615.9	690.6	612.2	78.44	8.805		
11,100.0	7,130.0	7,106.1	7,104.8	71.3	12.5	104.14	4,447.4	-615.9	590.8	510.0	80.78	7.314		
11,200.0	7,130.0	7,104.7	7,103.5	73.0	12.5	102.03	4,447.4	-615.9	491.0	407.9	83.08	5.910		
11,300.0	7,130.0	7,103.3	7,102.1	74.8	12.5	99.85	4,447.4	-615.9	391.3	306.0	85.32	4.587		
11,400.0	7,130.0	7,101.9	7,100.7	76.5	12.5	97.61	4,447.5	-615.9	291.9	204.4	87.49	3.336		
11,500.0	7,130.0	7,100.0	7,098.8	78.2	12.5	94.51	4,447.5	-615.8	193.0	103.4	89.66	2.153		
11,582.3	7,130.0	7,099.3	7,098.1	79.6	12.5	93.34	4,447.5	-615.8	113.1	21.9	91.19	1.240	Level 2, CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,200.0	7,130.0	7,094.0	7,094.0	39.6	12.4	-90.00	2,891.7	-708.0	938.7	888.1	50.62	18.546		
9,300.0	7,130.0	7,094.0	7,094.0	41.2	12.4	-90.00	2,891.7	-708.0	839.1	786.8	52.28	16.051		
9,400.0	7,130.0	7,094.0	7,094.0	42.8	12.4	-90.00	2,891.7	-708.0	739.6	685.7	53.95	13.710		
9,500.0	7,130.0	7,094.0	7,094.0	44.5	12.4	-90.00	2,891.7	-708.0	640.3	584.6	55.63	11.510		
9,600.0	7,130.0	7,094.0	7,094.0	46.1	12.4	-90.00	2,891.7	-708.0	541.2	483.9	57.31	9.443		
9,700.0	7,130.0	7,094.0	7,094.0	47.8	12.4	-90.00	2,891.7	-708.0	442.5	383.5	59.00	7.500		
9,800.0	7,130.0	7,094.0	7,094.0	49.4	12.4	-90.00	2,891.7	-708.0	344.5	283.8	60.69	5.677		
9,900.0	7,130.0	7,094.0	7,094.0	51.1	12.4	-90.00	2,891.7	-708.0	248.2	185.8	62.38	3.979		
10,000.0	7,130.0	7,094.0	7,094.0	52.7	12.4	-90.00	2,891.7	-708.0	156.6	92.6	64.08	2.444		
10,100.0	7,130.0	7,094.0	7,094.0	54.4	12.4	-90.00	2,891.7	-708.0	86.3	20.5	65.79	1.312 Level 3		
10,135.4	7,130.0	7,094.0	7,094.0	55.0	12.4	-90.00	2,891.7	-708.0	78.7	12.3	66.39	1.186 Level 2, CC, ES, SF		
10,200.0	7,130.0	7,094.0	7,094.0	56.1	12.4	-90.00	2,891.7	-708.0	101.8	34.3	67.50	1.509		
10,300.0	7,130.0	7,094.0	7,094.0	57.8	12.4	-90.00	2,891.7	-708.0	182.5	113.2	69.21	2.636		
10,400.0	7,130.0	7,094.0	7,094.0	59.4	12.4	-90.00	2,891.7	-708.0	276.1	205.1	70.92	3.893		
10,500.0	7,130.0	7,094.0	7,094.0	61.1	12.4	-90.00	2,891.7	-708.0	373.0	300.4	72.63	5.135		
10,600.0	7,130.0	7,094.0	7,094.0	62.8	12.4	-90.00	2,891.7	-708.0	471.2	396.9	74.35	6.338		
10,700.0	7,130.0	7,094.0	7,094.0	64.5	12.4	-90.00	2,891.7	-708.0	570.1	494.0	76.07	7.494		
10,800.0	7,130.0	7,094.0	7,094.0	66.2	12.4	-90.00	2,891.7	-708.0	669.2	591.4	77.79	8.603		
10,900.0	7,130.0	7,094.0	7,094.0	67.9	12.4	-90.00	2,891.7	-708.0	768.6	689.1	79.51	9.667		
11,000.0	7,130.0	7,094.0	7,094.0	69.6	12.4	-90.00	2,891.7	-708.0	868.2	786.9	81.24	10.687		
11,100.0	7,130.0	7,094.0	7,094.0	71.3	12.4	-90.00	2,891.7	-708.0	967.8	884.8	82.96	11.665		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis						
11,300.0	7,130.0	7,176.1	7,107.5	74.8	17.8	-89.56	4,858.2	-1,148.2	945.6	857.4	88.25	10.715	CC, ES, SF				
11,400.0	7,130.0	7,176.0	7,107.4	76.5	17.8	-89.55	4,858.2	-1,148.2	861.8	771.8	89.98	9.577					
11,500.0	7,130.0	7,176.0	7,107.4	78.2	17.8	-89.54	4,858.2	-1,148.2	781.7	690.0	91.71	8.524					
11,582.3	7,130.0	7,175.9	7,107.3	79.6	17.8	-89.54	4,858.2	-1,148.2	719.6	626.4	93.14						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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		
10,000.0	7,130.0	7,190.8	7,106.6	52.7	21.1	-89.38	3,576.9	-1,080.0	936.2	865.8	70.44	13.292		
10,100.0	7,130.0	7,190.6	7,106.5	54.4	21.1	-89.36	3,576.9	-1,080.0	849.4	777.2	72.14	11.774		
10,200.0	7,130.0	7,190.5	7,106.3	56.1	21.1	-89.34	3,576.9	-1,080.0	765.7	691.8	73.85	10.368		
10,300.0	7,130.0	7,190.3	7,106.2	57.8	21.1	-89.32	3,576.9	-1,080.0	686.4	610.8	75.56	9.084		
10,400.0	7,130.0	7,190.2	7,106.0	59.4	21.1	-89.30	3,576.9	-1,080.0	613.1	535.9	77.27	7.935		
10,500.0	7,130.0	7,190.0	7,105.9	61.1	21.1	-89.28	3,576.9	-1,080.0	548.4	469.5	78.98	6.944		
10,600.0	7,130.0	7,189.9	7,105.7	62.8	21.1	-89.26	3,576.9	-1,080.0	495.6	414.9	80.70	6.141		
10,700.0	7,130.0	7,189.8	7,105.6	64.5	21.1	-89.25	3,576.9	-1,080.0	458.8	376.4	82.42	5.566		
10,800.0	7,130.0	7,189.6	7,105.5	66.2	21.1	-89.23	3,576.9	-1,080.0	441.9	357.8	84.14	5.253		
10,825.8	7,130.0	7,189.6	7,105.4	66.7	21.1	-89.22	3,576.9	-1,080.0	441.2	356.6	84.58	5.216 CC, ES		
10,900.0	7,130.0	7,189.5	7,105.3	67.9	21.1	-89.21	3,576.9	-1,080.0	447.4	361.5	85.86	5.211 SF		
11,000.0	7,130.0	7,189.3	7,105.2	69.6	21.1	-89.19	3,576.9	-1,080.0	474.3	386.8	87.58	5.416		
11,100.0	7,130.0	7,189.2	7,105.0	71.3	21.1	-89.17	3,576.9	-1,080.0	519.5	430.2	89.31	5.816		
11,200.0	7,130.0	7,189.1	7,104.9	73.0	21.1	-89.16	3,576.9	-1,080.0	578.5	487.5	91.04	6.355		
11,300.0	7,130.0	7,188.9	7,104.8	74.8	21.1	-89.14	3,576.9	-1,080.0	647.7	555.0	92.76	6.982		
11,400.0	7,130.0	7,188.8	7,104.6	76.5	21.1	-89.12	3,576.9	-1,080.0	724.1	629.6	94.49	7.663		
11,500.0	7,130.0	7,188.7	7,104.5	78.2	21.1	-89.10	3,576.9	-1,080.0	805.7	709.5	96.22	8.374		
11,582.3	7,130.0	7,188.6	7,104.4	79.6	21.1	-89.09	3,576.9	-1,080.0	875.8	778.1	97.65	8.969		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												S35-T3N-R67W (Kiyota) - KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:				528-Geolink MWD								Offset Well Error:		0.0 ft			
Reference		Offset		Semi Major Axis			Distance						Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)		(ft)	Axis	Factor					
11,500.0	7,130.0	7,194.2	7,128.9	78.2	19.2	91.21	4,821.6	171.4	995.3	903.7	91.65	10.861					
11,582.3	7,130.0	7,193.5	7,128.2	79.6	19.2	91.16	4,821.6	171.4	952.1	859.0	93.07	10.230			CC, ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,000.0	7,130.0	7,117.0	7,117.0	22.2	12.4	-90.00	1,738.4	-686.8	984.7	952.7	32.01	30.766		
8,100.0	7,130.0	7,117.0	7,117.0	23.4	12.4	-90.00	1,738.4	-686.8	885.0	851.6	33.39	26.507		
8,200.0	7,130.0	7,117.0	7,117.0	24.7	12.4	-90.00	1,738.4	-686.8	785.4	750.5	34.82	22.555		
8,300.0	7,130.0	7,117.0	7,117.0	26.0	12.4	-90.00	1,738.4	-686.8	685.9	649.6	36.30	18.896		
8,400.0	7,130.0	7,117.0	7,117.0	27.4	12.4	-90.00	1,738.4	-686.8	586.5	548.7	37.81	15.513		
8,500.0	7,130.0	7,117.0	7,117.0	28.9	12.4	-90.00	1,738.4	-686.8	487.5	448.1	39.35	12.389		
8,600.0	7,130.0	7,117.0	7,117.0	30.3	12.4	-90.00	1,738.4	-686.8	388.9	348.0	40.92	9.506		
8,700.0	7,130.0	7,117.0	7,117.0	31.8	12.4	-90.00	1,738.4	-686.8	291.4	248.9	42.50	6.855		
8,800.0	7,130.0	7,117.0	7,117.0	33.3	12.4	-90.00	1,738.4	-686.8	196.2	152.1	44.11	4.449		
8,900.0	7,130.0	7,117.0	7,117.0	34.9	12.4	-90.00	1,738.4	-686.8	110.1	64.4	45.73	2.409		
8,981.8	7,130.0	7,117.0	7,117.0	36.2	12.4	-90.00	1,738.4	-686.8	73.6	26.6	47.06	1.565 CC, ES, SF		
9,000.0	7,130.0	7,117.0	7,117.0	36.4	12.4	-90.00	1,738.4	-686.8	75.8	28.5	47.36	1.601		
9,100.0	7,130.0	7,117.0	7,117.0	38.0	12.4	-90.00	1,738.4	-686.8	139.2	90.2	49.00	2.840		
9,200.0	7,130.0	7,117.0	7,117.0	39.6	12.4	-90.00	1,738.4	-686.8	230.2	179.5	50.66	4.544		
9,300.0	7,130.0	7,117.0	7,117.0	41.2	12.4	-90.00	1,738.4	-686.8	326.5	274.2	52.32	6.241		
9,400.0	7,130.0	7,117.0	7,117.0	42.8	12.4	-90.00	1,738.4	-686.8	424.5	370.5	53.99	7.863		
9,500.0	7,130.0	7,117.0	7,117.0	44.5	12.4	-90.00	1,738.4	-686.8	523.3	467.6	55.67	9.401		
9,600.0	7,130.0	7,117.0	7,117.0	46.1	12.4	-90.00	1,738.4	-686.8	622.5	565.1	57.35	10.854		
9,700.0	7,130.0	7,117.0	7,117.0	47.8	12.4	-90.00	1,738.4	-686.8	721.9	662.8	59.04	12.228		
9,800.0	7,130.0	7,117.0	7,117.0	49.4	12.4	-90.00	1,738.4	-686.8	821.4	760.7	60.73	13.526		
9,900.0	7,130.0	7,117.0	7,117.0	51.1	12.4	-90.00	1,738.4	-686.8	921.0	858.6	62.42	14.755		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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)				
7,600.0	7,130.0	7,106.0	7,106.0	18.1	12.4	90.00	1,224.7	-138.0	979.6	952.3	27.27	35.925		
7,700.0	7,130.0	7,106.0	7,106.0	19.0	12.4	90.00	1,224.7	-138.0	893.0	864.7	28.29	31.568		
7,800.0	7,130.0	7,106.0	7,106.0	19.9	12.4	90.00	1,224.7	-138.0	809.6	780.1	29.43	27.508		
7,900.0	7,130.0	7,106.0	7,106.0	21.0	12.4	90.00	1,224.7	-138.0	730.2	699.6	30.67	23.811		
8,000.0	7,130.0	7,106.0	7,106.0	22.2	12.4	90.00	1,224.7	-138.0	656.6	624.6	31.99	20.528		
8,100.0	7,130.0	7,106.0	7,106.0	23.4	12.4	90.00	1,224.7	-138.0	590.8	557.4	33.37	17.705		
8,200.0	7,130.0	7,106.0	7,106.0	24.7	12.4	90.00	1,224.7	-138.0	535.6	500.8	34.80	15.390		
8,300.0	7,130.0	7,106.0	7,106.0	26.0	12.4	90.00	1,224.7	-138.0	494.7	458.4	36.28	13.637		
8,400.0	7,130.0	7,106.0	7,106.0	27.4	12.4	90.00	1,224.7	-138.0	471.8	434.0	37.79	12.485		
8,460.6	7,130.0	7,106.0	7,106.0	28.3	12.4	90.00	1,224.7	-138.0	467.9	429.2	38.72	12.083 CC, ES		
8,500.0	7,130.0	7,106.0	7,106.0	28.9	12.4	90.00	1,224.7	-138.0	469.6	430.2	39.33	11.938		
8,600.0	7,130.0	7,106.0	7,106.0	30.3	12.4	90.00	1,224.7	-138.0	488.2	447.3	40.90	11.938 SF		
8,700.0	7,130.0	7,106.0	7,106.0	31.8	12.4	90.00	1,224.7	-138.0	525.6	483.1	42.48	12.371		
8,800.0	7,130.0	7,106.0	7,106.0	33.3	12.4	90.00	1,224.7	-138.0	578.0	533.9	44.09	13.110		
8,900.0	7,130.0	7,106.0	7,106.0	34.9	12.4	90.00	1,224.7	-138.0	641.8	596.1	45.71	14.042		
9,000.0	7,130.0	7,106.0	7,106.0	36.4	12.4	90.00	1,224.7	-138.0	714.0	666.7	47.34	15.083		
9,100.0	7,130.0	7,106.0	7,106.0	38.0	12.4	90.00	1,224.7	-138.0	792.3	743.3	48.98	16.174		
9,200.0	7,130.0	7,106.0	7,106.0	39.6	12.4	90.00	1,224.7	-138.0	875.0	824.3	50.64	17.279		
9,300.0	7,130.0	7,106.0	7,106.0	41.2	12.4	90.00	1,224.7	-138.0	961.0	908.7	52.30	18.374		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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 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	-65.33	216.4	-471.1	518.6					
100.0	100.0	86.0	86.0	0.2	0.2	-65.33	216.4	-471.1	518.4	518.1	0.30	1,716.000		
200.0	200.0	186.0	186.0	0.3	0.3	-65.33	216.4	-471.1	518.4	517.8	0.65	796.152		
300.0	300.0	286.0	286.0	0.5	0.5	-65.33	216.4	-471.1	518.4	517.4	1.00	518.314		
400.0	400.0	386.0	386.0	0.7	0.7	-65.33	216.4	-471.1	518.4	517.1	1.35	384.227		
500.0	500.0	486.0	486.0	0.9	0.8	61.15	216.4	-471.1	518.0	516.3	1.70	304.943		
600.0	600.0	585.9	585.9	1.0	1.0	61.42	216.4	-471.1	516.8	514.7	2.05	252.038		
700.0	699.9	685.9	685.9	1.2	1.2	61.86	216.4	-471.1	514.7	512.3	2.41	213.861		
800.0	799.7	785.7	785.7	1.4	1.4	62.49	216.4	-471.1	511.8	509.1	2.77	184.739		
900.0	899.4	885.4	885.4	1.6	1.5	63.30	216.4	-471.1	508.3	505.1	3.15	161.591		
1,000.0	998.9	984.9	984.9	1.8	1.7	64.31	216.4	-471.1	504.0	500.5	3.53	142.612		
1,100.0	1,098.3	1,084.3	1,084.3	2.1	1.9	65.47	216.4	-471.1	499.3	495.4	3.93	126.886		
1,200.0	1,197.7	1,183.6	1,183.6	2.3	2.1	66.64	216.4	-471.1	494.7	490.4	4.34	113.910		
1,300.0	1,297.0	1,283.0	1,283.0	2.6	2.2	67.84	216.4	-471.1	490.3	485.6	4.76	103.087		
1,400.0	1,396.4	1,382.4	1,382.4	2.8	2.4	69.06	216.4	-471.1	486.2	481.0	5.17	93.953		
1,500.0	1,495.8	1,481.8	1,481.8	3.1	2.6	70.30	216.4	-471.1	482.3	476.7	5.60	86.165		
1,600.0	1,595.1	1,581.1	1,581.1	3.3	2.8	71.56	216.4	-471.1	478.6	472.6	6.02	79.462		
1,700.0	1,694.5	1,680.5	1,680.5	3.6	2.9	72.84	216.4	-471.1	475.1	468.7	6.45	73.648		
1,800.0	1,793.9	1,779.9	1,779.9	3.8	3.1	74.13	216.4	-471.1	471.9	465.0	6.88	68.569		
1,900.0	1,893.2	1,879.2	1,879.2	4.1	3.3	75.44	216.4	-471.1	469.0	461.6	7.32	64.103		
2,000.0	1,992.6	1,978.6	1,978.6	4.3	3.5	76.77	216.4	-471.1	466.2	458.5	7.75	60.156		
2,100.0	2,092.0	2,078.0	2,078.0	4.6	3.6	78.11	216.4	-471.1	463.8	455.6	8.19	56.649		
2,200.0	2,191.3	2,177.3	2,177.3	4.9	3.8	79.47	216.4	-471.1	461.6	453.0	8.62	53.521		
2,300.0	2,290.7	2,276.7	2,276.7	5.1	4.0	80.84	216.4	-471.1	459.7	450.6	9.06	50.719		
2,400.0	2,390.1	2,376.1	2,376.1	5.4	4.1	82.22	216.4	-471.1	458.0	448.5	9.50	48.202		
2,500.0	2,489.4	2,475.4	2,475.4	5.6	4.3	83.60	216.4	-471.1	456.6	446.7	9.94	45.934		
2,600.0	2,588.8	2,574.8	2,574.8	5.9	4.5	85.00	216.4	-471.1	455.5	445.1	10.38	43.885		
2,700.0	2,688.2	2,674.2	2,674.2	6.2	4.7	86.40	216.4	-471.1	454.6	443.8	10.82	42.030		
2,800.0	2,787.5	2,773.5	2,773.5	6.4	4.8	87.80	216.4	-471.1	454.1	442.8	11.25	40.347		
2,900.0	2,886.9	2,872.9	2,872.9	6.7	5.0	89.21	216.4	-471.1	453.8	442.1	11.69	38.817		
2,955.9	2,942.4	2,928.4	2,928.4	6.8	5.1	90.00	216.4	-471.1	453.7	441.8	11.93	38.023		
3,000.0	2,986.3	2,972.3	2,972.3	6.9	5.2	90.62	216.4	-471.1	453.7	441.6	12.12	37.425		
3,100.0	3,085.6	3,071.6	3,071.6	7.2	5.4	92.03	216.4	-471.1	454.0	441.4	12.56	36.156		
3,200.0	3,185.0	3,171.0	3,171.0	7.5	5.5	93.44	216.4	-471.1	454.5	441.6	12.99	34.999		
3,300.0	3,284.4	3,270.4	3,270.4	7.7	5.7	94.84	216.4	-471.1	455.4	441.9	13.42	33.942		
3,400.0	3,383.7	3,369.7	3,369.7	8.0	5.9	96.23	216.4	-471.1	456.4	442.6	13.84	32.977		
3,500.0	3,483.1	3,469.1	3,469.1	8.2	6.1	97.62	216.4	-471.1	457.8	443.5	14.26	32.094		
3,600.0	3,582.5	3,568.5	3,568.5	8.5	6.2	99.00	216.4	-471.1	459.4	444.8	14.68	31.287		
3,700.0	3,681.8	3,667.8	3,667.8	8.8	6.4	100.37	216.4	-471.1	461.3	446.2	15.10	30.549		
3,800.0	3,781.2	3,767.2	3,767.2	9.0	6.6	101.73	216.4	-471.1	463.5	448.0	15.52	29.874		
3,900.0	3,880.6	3,866.6	3,866.6	9.3	6.7	103.07	216.4	-471.1	465.9	450.0	15.93	29.257		
4,000.0	3,979.9	3,965.9	3,965.9	9.6	6.9	104.40	216.4	-471.1	468.6	452.3	16.33	28.692		
4,100.0	4,079.3	4,065.3	4,065.3	9.8	7.1	105.72	216.4	-471.1	471.6	454.8	16.74	28.176		
4,200.0	4,178.7	4,164.7	4,164.7	10.1	7.3	107.01	216.4	-471.1	474.7	457.6	17.14	27.704		
4,300.0	4,278.0	4,264.0	4,264.0	10.3	7.4	108.29	216.4	-471.1	478.2	460.6	17.53	27.273		
4,400.0	4,377.4	4,363.4	4,363.4	10.6	7.6	109.55	216.4	-471.1	481.8	463.9	17.93	26.880		
4,500.0	4,476.8	4,462.8	4,462.8	10.9	7.8	110.79	216.4	-471.1	485.7	467.4	18.31	26.521		
4,600.0	4,576.2	4,562.1	4,562.1	11.1	8.0	112.02	216.4	-471.1	489.8	471.1	18.70	26.195		
4,700.0	4,675.5	4,661.5	4,661.5	11.4	8.1	113.22	216.4	-471.1	494.2	475.1	19.08	25.898		
4,800.0	4,774.9	4,760.9	4,760.9	11.6	8.3	114.40	216.4	-471.1	498.7	479.3	19.46	25.628		
4,900.0	4,874.3	4,860.2	4,860.2	11.9	8.5	115.55	216.4	-471.1	503.5	483.7	19.84	25.383		
5,000.0	4,973.6	4,959.6	4,959.6	12.2	8.7	116.69	216.4	-471.1	508.5	488.3	20.21	25.162		

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 4C-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 4C-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						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
5,100.0	5,073.0	5,059.0	5,059.0	12.4	8.8	117.80	216.4	-471.1	513.6	493.1	20.58	24.962		
5,200.0	5,172.4	5,158.3	5,158.3	12.7	9.0	118.90	216.4	-471.1	519.0	498.1	20.94	24.781		
5,300.0	5,271.7	5,257.7	5,257.7	13.0	9.2	119.96	216.4	-471.1	524.5	503.2	21.31	24.619		
5,400.0	5,371.1	5,357.1	5,357.1	13.2	9.3	121.01	216.4	-471.1	530.3	508.6	21.67	24.474		
5,500.0	5,470.5	5,456.5	5,456.5	13.5	9.5	122.03	216.4	-471.1	536.2	514.1	22.02	24.344		
5,600.0	5,569.8	5,555.8	5,555.8	13.7	9.7	123.04	216.4	-471.1	542.2	519.9	22.38	24.229		
5,700.0	5,669.2	5,655.2	5,655.2	14.0	9.9	124.01	216.4	-471.1	548.5	525.7	22.73	24.127		
5,800.0	5,768.6	5,754.6	5,754.6	14.3	10.0	124.97	216.4	-471.1	554.9	531.8	23.08	24.037		
5,900.0	5,867.9	5,853.9	5,853.9	14.5	10.2	125.91	216.4	-471.1	561.4	538.0	23.43	23.959		
6,000.0	5,967.3	5,953.3	5,953.3	14.8	10.4	126.82	216.4	-471.1	568.1	544.3	23.78	23.891		
6,100.0	6,066.7	6,052.7	6,052.7	15.1	10.6	127.71	216.4	-471.1	574.9	550.8	24.12	23.833		
6,200.0	6,166.0	6,152.0	6,152.0	15.3	10.7	128.58	216.4	-471.1	581.9	557.4	24.47	23.783		
6,300.0	6,265.4	6,251.4	6,251.4	15.6	10.9	129.44	216.4	-471.1	589.0	564.2	24.81	23.742		
6,400.0	6,364.8	6,350.8	6,350.8	15.8	11.1	130.27	216.4	-471.1	596.2	571.0	25.15	23.709		
6,500.0	6,464.3	6,450.3	6,450.3	16.0	11.3	59.81	216.4	-471.1	597.3	571.9	25.41	23.512		
6,600.0	6,562.8	6,548.8	6,548.8	16.1	11.4	31.01	216.4	-471.1	584.8	559.5	25.30	23.111		
6,700.0	6,658.6	6,644.6	6,644.6	16.2	11.6	23.55	216.4	-471.1	558.9	534.1	24.85	22.492		
6,800.0	6,749.6	6,735.6	6,735.6	16.1	11.8	21.72	216.4	-471.1	520.3	496.2	24.09	21.601		
6,900.0	6,834.2	6,820.1	6,820.1	16.1	11.9	22.76	216.4	-471.1	469.9	446.8	23.11	20.336		
7,000.0	6,910.6	6,896.6	6,896.6	16.0	12.0	26.47	216.4	-471.1	409.1	387.0	22.11	18.504		
7,100.0	6,977.4	6,963.4	6,963.4	16.1	12.2	33.84	216.4	-471.1	339.7	318.2	21.52	15.786		
7,200.0	7,033.3	7,019.3	7,019.3	16.2	12.3	46.79	216.4	-471.1	264.7	242.6	22.10	11.975		
7,300.0	7,077.2	7,063.2	7,063.2	16.4	12.3	65.71	216.4	-471.1	189.7	165.7	24.06	7.886		
7,400.0	7,108.3	7,094.3	7,094.3	16.8	12.4	83.91	216.4	-471.1	131.0	105.3	25.66	5.106		
7,454.6	7,119.6	7,105.6	7,105.6	17.1	12.4	90.00	216.4	-471.1	119.8	93.7	26.13	4.586 CC, ES, SF		
7,500.0	7,125.9	7,111.9	7,111.9	17.4	12.4	92.27	216.4	-471.1	127.9	101.4	26.44	4.837		
7,600.0	7,130.0	7,116.0	7,116.0	18.1	12.4	90.00	216.4	-471.1	187.1	159.8	27.29	6.858		
7,700.0	7,130.0	7,116.0	7,116.0	19.0	12.4	90.00	216.4	-471.1	271.3	243.0	28.31	9.584		
7,800.0	7,130.0	7,116.0	7,116.0	19.9	12.4	90.00	216.4	-471.1	363.6	334.1	29.45	12.347		
7,900.0	7,130.0	7,116.0	7,116.0	21.0	12.4	90.00	216.4	-471.1	459.1	428.4	30.69	14.961		
8,000.0	7,130.0	7,116.0	7,116.0	22.2	12.4	90.00	216.4	-471.1	556.2	524.2	32.00	17.380		
8,100.0	7,130.0	7,116.0	7,116.0	23.4	12.4	90.00	216.4	-471.1	654.2	620.8	33.38	19.595		
8,200.0	7,130.0	7,116.0	7,116.0	24.7	12.4	90.00	216.4	-471.1	752.7	717.9	34.82	21.617		
8,300.0	7,130.0	7,116.0	7,116.0	26.0	12.4	90.00	216.4	-471.1	851.5	815.2	36.30	23.462		
8,400.0	7,130.0	7,116.0	7,116.0	27.4	12.4	90.00	216.4	-471.1	950.6	912.8	37.81	25.144		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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)				
8,100.0	7,130.0	7,109.0	7,109.0	23.4	12.4	90.00	1,786.5	-320.2	970.3	937.0	33.37	29.076		
8,200.0	7,130.0	7,109.0	7,109.0	24.7	12.4	90.00	1,786.5	-320.2	875.6	840.7	34.81	25.155		
8,300.0	7,130.0	7,109.0	7,109.0	26.0	12.4	90.00	1,786.5	-320.2	782.1	745.8	36.28	21.554		
8,400.0	7,130.0	7,109.0	7,109.0	27.4	12.4	90.00	1,786.5	-320.2	690.4	652.6	37.79	18.267		
8,500.0	7,130.0	7,109.0	7,109.0	28.9	12.4	90.00	1,786.5	-320.2	601.4	562.1	39.34	15.288		
8,600.0	7,130.0	7,109.0	7,109.0	30.3	12.4	90.00	1,786.5	-320.2	516.4	475.5	40.90	12.626		
8,700.0	7,130.0	7,109.0	7,109.0	31.8	12.4	90.00	1,786.5	-320.2	437.9	395.4	42.49	10.305		
8,800.0	7,130.0	7,109.0	7,109.0	33.3	12.4	90.00	1,786.5	-320.2	369.8	325.7	44.09	8.387		
8,900.0	7,130.0	7,109.0	7,109.0	34.9	12.4	90.00	1,786.5	-320.2	319.0	273.3	45.71	6.979		
9,000.0	7,130.0	7,109.0	7,109.0	36.4	12.4	90.00	1,786.5	-320.2	294.6	247.3	47.35	6.223		
9,024.9	7,130.0	7,109.0	7,109.0	36.8	12.4	90.00	1,786.5	-320.2	293.6	245.8	47.75	6.148	CC, ES, SF	
9,100.0	7,130.0	7,109.0	7,109.0	38.0	12.4	90.00	1,786.5	-320.2	303.0	254.1	48.99	6.186		
9,200.0	7,130.0	7,109.0	7,109.0	39.6	12.4	90.00	1,786.5	-320.2	341.9	291.2	50.64	6.750		
9,300.0	7,130.0	7,109.0	7,109.0	41.2	12.4	90.00	1,786.5	-320.2	402.4	350.1	52.31	7.693		
9,400.0	7,130.0	7,109.0	7,109.0	42.8	12.4	90.00	1,786.5	-320.2	476.4	422.4	53.97	8.826		
9,500.0	7,130.0	7,109.0	7,109.0	44.5	12.4	90.00	1,786.5	-320.2	558.5	502.9	55.65	10.036		
9,600.0	7,130.0	7,109.0	7,109.0	46.1	12.4	90.00	1,786.5	-320.2	645.7	588.4	57.33	11.263		
9,700.0	7,130.0	7,109.0	7,109.0	47.8	12.4	90.00	1,786.5	-320.2	736.2	677.2	59.02	12.474		
9,800.0	7,130.0	7,109.0	7,109.0	49.4	12.4	90.00	1,786.5	-320.2	828.9	768.2	60.71	13.652		
9,900.0	7,130.0	7,109.0	7,109.0	51.1	12.4	90.00	1,786.5	-320.2	923.1	860.7	62.41	14.790		

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 4C-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 4C-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	76.91	155.9	670.6	689.0				
100.0	100.0	75.0	75.0	0.2	0.1	76.91	155.9	670.6	688.5	688.2	0.28	2,433.599	517.642 CC, ES
200.0	200.0	175.0	175.0	0.3	0.3	76.91	155.9	670.6	688.5	687.9	0.63	1,089.459	
300.0	300.0	275.0	275.0	0.5	0.5	76.91	155.9	670.6	688.5	687.5	0.98	701.824	
400.0	400.0	375.0	375.0	0.7	0.7	76.91	155.9	670.6	688.5	687.2	1.33		
500.0	500.0	475.0	475.0	0.9	0.8	-156.72	155.9	670.6	689.3	687.6	1.68	410.529	
600.0	600.0	574.9	574.9	1.0	1.0	-156.80	155.9	670.6	691.7	689.7	2.03	341.057	
700.0	699.9	674.9	674.9	1.2	1.2	-156.93	155.9	670.6	695.7	693.4	2.38	292.612	
800.0	799.7	774.7	774.7	1.4	1.4	-157.10	155.9	670.6	701.4	698.6	2.73	257.102	
900.0	899.4	874.4	874.4	1.6	1.5	-157.32	155.9	670.6	708.6	705.5	3.08	230.118	
1,000.0	998.9	973.9	973.9	1.8	1.7	-157.58	155.9	670.6	717.5	714.0	3.43	209.054	
1,100.0	1,098.3	1,073.3	1,073.3	2.1	1.9	-157.89	155.9	670.6	727.7	723.9	3.79	192.156	
1,200.0	1,197.7	1,172.6	1,172.6	2.3	2.0	-158.22	155.9	670.6	738.1	734.0	4.14	178.121	
1,300.0	1,297.0	1,272.0	1,272.0	2.6	2.2	-158.54	155.9	670.6	748.6	744.1	4.50	166.309	
1,400.0	1,396.4	1,371.4	1,371.4	2.8	2.4	-158.85	155.9	670.6	759.0	754.2	4.86	156.238	
1,500.0	1,495.8	1,470.8	1,470.8	3.1	2.6	-159.15	155.9	670.6	769.5	764.3	5.22	147.554	
1,600.0	1,595.1	1,570.1	1,570.1	3.3	2.7	-159.44	155.9	670.6	780.0	774.5	5.57	139.991	
1,700.0	1,694.5	1,669.5	1,669.5	3.6	2.9	-159.73	155.9	670.6	790.6	784.7	5.93	133.347	
1,800.0	1,793.9	1,768.9	1,768.9	3.8	3.1	-160.01	155.9	670.6	801.1	794.8	6.29	127.466	
1,900.0	1,893.2	1,868.2	1,868.2	4.1	3.3	-160.28	155.9	670.6	811.7	805.1	6.64	122.225	
2,000.0	1,992.6	1,967.6	1,967.6	4.3	3.4	-160.54	155.9	670.6	822.3	815.3	7.00	117.524	
2,100.0	2,092.0	2,067.0	2,067.0	4.6	3.6	-160.80	155.9	670.6	832.9	825.5	7.35	113.286	
2,200.0	2,191.3	2,166.3	2,166.3	4.9	3.8	-161.05	155.9	670.6	843.5	835.8	7.71	109.445	
2,300.0	2,290.7	2,265.7	2,265.7	5.1	4.0	-161.29	155.9	670.6	854.2	846.1	8.06	105.948	
2,400.0	2,390.1	2,365.1	2,365.1	5.4	4.1	-161.53	155.9	670.6	864.8	856.4	8.42	102.752	
2,500.0	2,489.4	2,464.4	2,464.4	5.6	4.3	-161.77	155.9	670.6	875.5	866.7	8.77	99.819	
2,600.0	2,588.8	2,563.8	2,563.8	5.9	4.5	-161.99	155.9	670.6	886.1	877.0	9.12	97.119	
2,700.0	2,688.2	2,663.2	2,663.2	6.2	4.6	-162.21	155.9	670.6	896.8	887.4	9.48	94.625	
2,800.0	2,787.5	2,762.5	2,762.5	6.4	4.8	-162.43	155.9	670.6	907.5	897.7	9.83	92.313	
2,900.0	2,886.9	2,861.9	2,861.9	6.7	5.0	-162.64	155.9	670.6	918.3	908.1	10.18	90.166	
3,000.0	2,986.3	2,961.3	2,961.3	6.9	5.2	-162.85	155.9	670.6	929.0	918.5	10.54	88.166	
3,100.0	3,085.6	3,060.6	3,060.6	7.2	5.3	-163.05	155.9	670.6	939.7	928.8	10.89	86.299	
3,200.0	3,185.0	3,160.0	3,160.0	7.5	5.5	-163.25	155.9	670.6	950.5	939.2	11.24	84.552	
3,300.0	3,284.4	3,259.4	3,259.4	7.7	5.7	-163.44	155.9	670.6	961.3	949.7	11.59	82.913	
3,400.0	3,383.7	3,358.7	3,358.7	8.0	5.9	-163.63	155.9	670.6	972.0	960.1	11.95	81.373	
3,500.0	3,483.1	3,458.1	3,458.1	8.2	6.0	-163.81	155.9	670.6	982.8	970.5	12.30	79.924	
3,600.0	3,582.5	3,557.5	3,557.5	8.5	6.2	-163.99	155.9	670.6	993.6	981.0	12.65	78.557 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
7,300.0	7,077.2	7,208.2	7,079.8	16.4	23.7	-54.12	879.4	-1,054.3	940.4	909.5	30.89	30.443		
7,400.0	7,108.3	7,232.4	7,104.1	16.8	23.7	-67.69	879.2	-1,054.5	857.1	824.6	32.47	26.395		
7,500.0	7,125.9	7,247.0	7,118.6	17.4	23.7	-80.98	879.1	-1,054.7	774.6	740.6	33.97	22.800		
7,600.0	7,130.0	7,250.8	7,122.5	18.1	23.7	-89.55	879.1	-1,054.7	695.9	661.0	34.97	19.902		
7,700.0	7,130.0	7,250.6	7,122.2	19.0	23.7	-89.53	879.1	-1,054.7	623.5	587.5	35.99	17.325		
7,800.0	7,130.0	7,250.4	7,122.0	19.9	23.7	-89.50	879.1	-1,054.7	559.6	522.5	37.13	15.072		
7,900.0	7,130.0	7,250.2	7,121.8	21.0	23.7	-89.47	879.1	-1,054.7	507.6	469.2	38.37	13.229		
8,000.0	7,130.0	7,250.0	7,121.6	22.2	23.7	-89.44	879.1	-1,054.7	471.2	431.5	39.68	11.874		
8,100.0	7,130.0	7,249.7	7,121.4	23.4	23.7	-89.42	879.1	-1,054.7	454.4	413.3	41.07	11.065		
8,127.9	7,130.0	7,249.7	7,121.3	23.7	23.7	-89.41	879.1	-1,054.7	453.5	412.1	41.47	10.938 CC, ES		
8,200.0	7,130.0	7,249.5	7,121.2	24.7	23.7	-89.39	879.1	-1,054.7	459.2	416.7	42.50	10.806 SF		
8,300.0	7,130.0	7,249.3	7,120.9	26.0	23.7	-89.36	879.1	-1,054.7	485.1	441.1	43.98	11.031		
8,400.0	7,130.0	7,249.1	7,120.7	27.4	23.7	-89.33	879.1	-1,054.7	528.9	483.4	45.49	11.628		
8,500.0	7,130.0	7,248.9	7,120.5	28.9	23.7	-89.30	879.1	-1,054.7	586.7	539.6	47.03	12.475		
8,600.0	7,130.0	7,248.6	7,120.3	30.3	23.7	-89.28	879.1	-1,054.7	654.7	606.1	48.59	13.473		
8,700.0	7,130.0	7,248.4	7,120.1	31.8	23.7	-89.25	879.1	-1,054.7	730.1	679.9	50.18	14.549		
8,800.0	7,130.0	7,248.2	7,119.8	33.3	23.7	-89.22	879.1	-1,054.7	810.8	759.1	51.78	15.658		
8,900.0	7,130.0	7,247.9	7,119.6	34.9	23.7	-89.19	879.1	-1,054.7	895.5	842.1	53.40	16.768		
9,000.0	7,130.0	7,247.7	7,119.4	36.4	23.7	-89.16	879.1	-1,054.7	983.0	928.0	55.04	17.862		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.94	0.0	-15.1	15.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-15.1	15.1	14.8	0.30	49.687		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-15.1	15.1	14.4	0.65	23.117 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	-91.09	-0.3	-15.9	15.9	14.9	1.00	15.876		
400.0	400.0	399.4	399.4	0.7	0.7	-93.92	-1.3	-18.3	18.4	17.0	1.35	13.588		
500.0	500.0	499.0	498.9	0.9	0.9	30.24	-2.8	-22.3	21.8	20.1	1.70	12.824		
600.0	600.0	598.6	598.3	1.0	1.1	29.57	-5.1	-28.0	25.4	23.4	2.05	12.393		
700.0	699.9	698.0	697.4	1.2	1.3	29.88	-7.9	-35.2	29.2	26.8	2.40	12.142		
800.0	799.7	797.4	796.4	1.4	1.5	30.84	-11.4	-44.0	33.1	30.4	2.76	11.994		
900.0	899.4	896.8	895.1	1.6	1.8	32.23	-15.5	-54.5	37.3	34.1	3.13	11.905		
1,000.0	998.9	996.0	993.5	1.8	2.0	33.89	-20.2	-66.5	41.6	38.1	3.51	11.848		
1,100.0	1,098.3	1,095.2	1,091.5	2.1	2.3	35.55	-25.5	-80.0	46.4	42.5	3.91	11.867		
1,200.0	1,197.7	1,194.2	1,189.2	2.3	2.6	36.32	-31.5	-95.1	52.6	48.3	4.31	12.212		
1,300.0	1,297.0	1,293.7	1,287.1	2.6	3.0	36.47	-37.9	-111.5	60.1	55.4	4.71	12.750		
1,400.0	1,396.4	1,393.4	1,385.2	2.8	3.3	36.56	-44.4	-128.0	67.6	62.5	5.12	13.208		
1,500.0	1,495.8	1,493.1	1,483.4	3.1	3.7	36.63	-50.9	-144.5	75.2	69.6	5.53	13.593		
1,600.0	1,595.1	1,592.8	1,581.5	3.3	4.0	36.69	-57.4	-160.9	82.7	76.8	5.94	13.921		
1,700.0	1,694.5	1,692.5	1,679.6	3.6	4.4	36.74	-63.9	-177.4	90.2	83.9	6.35	14.202		
1,800.0	1,793.9	1,792.2	1,777.8	3.8	4.7	36.78	-70.4	-193.9	97.8	91.0	6.77	14.447		
1,900.0	1,893.2	1,892.0	1,875.9	4.1	5.1	36.82	-76.9	-210.4	105.3	98.1	7.18	14.662		
2,000.0	1,992.6	1,991.7	1,974.0	4.3	5.4	36.85	-83.3	-226.8	112.9	105.3	7.60	14.851		
2,100.0	2,092.0	2,091.4	2,072.2	4.6	5.8	36.87	-89.8	-243.3	120.4	112.4	8.02	15.019		
2,200.0	2,191.3	2,191.1	2,170.3	4.9	6.1	36.90	-96.3	-259.8	127.9	119.5	8.43	15.170		
2,300.0	2,290.7	2,290.8	2,268.4	5.1	6.5	36.92	-102.8	-276.3	135.5	126.6	8.85	15.305		
2,400.0	2,390.1	2,390.5	2,366.6	5.4	6.8	36.94	-109.3	-292.7	143.0	133.7	9.27	15.428		
2,500.0	2,489.4	2,490.2	2,464.7	5.6	7.2	36.96	-115.8	-309.2	150.6	140.9	9.69	15.539		
2,600.0	2,588.8	2,590.0	2,562.8	5.9	7.5	36.97	-122.3	-325.7	158.1	148.0	10.11	15.641		
2,700.0	2,688.2	2,689.7	2,660.9	6.2	7.9	36.99	-128.7	-342.1	165.6	155.1	10.53	15.734		
2,800.0	2,787.5	2,789.4	2,759.1	6.4	8.2	37.00	-135.2	-358.6	173.2	162.2	10.95	15.819		
2,900.0	2,886.9	2,889.1	2,857.2	6.7	8.6	37.01	-141.7	-375.1	180.7	169.3	11.37	15.898		
3,000.0	2,986.3	2,988.8	2,955.3	6.9	9.0	37.02	-148.2	-391.6	188.2	176.5	11.79	15.971		
3,100.0	3,085.6	3,088.5	3,053.5	7.2	9.3	37.03	-154.7	-408.0	195.8	183.6	12.21	16.038		
3,200.0	3,185.0	3,188.3	3,151.6	7.5	9.7	37.04	-161.2	-424.5	203.3	190.7	12.63	16.101		
3,300.0	3,284.4	3,288.0	3,249.7	7.7	10.0	37.05	-167.7	-441.0	210.9	197.8	13.05	16.160		
3,400.0	3,383.7	3,387.7	3,347.9	8.0	10.4	37.06	-174.1	-457.5	218.4	204.9	13.47	16.215		
3,500.0	3,483.1	3,487.4	3,446.0	8.2	10.7	37.06	-180.6	-473.9	225.9	212.0	13.89	16.266		
3,600.0	3,582.5	3,587.1	3,544.1	8.5	11.1	37.07	-187.1	-490.4	233.5	219.2	14.31	16.314		
3,700.0	3,681.8	3,686.8	3,642.3	8.8	11.5	37.08	-193.6	-506.9	241.0	226.3	14.73	16.360		
3,800.0	3,781.2	3,786.5	3,740.4	9.0	11.8	37.08	-200.1	-523.4	248.5	233.4	15.15	16.402		
3,900.0	3,880.6	3,886.3	3,838.5	9.3	12.2	37.09	-206.6	-539.8	256.1	240.5	15.57	16.443		
4,000.0	3,979.9	3,986.0	3,936.7	9.6	12.5	37.10	-213.1	-556.3	263.6	247.6	16.00	16.481		
4,100.0	4,079.3	4,085.7	4,034.8	9.8	12.9	37.10	-219.5	-572.8	271.2	254.7	16.42	16.517		
4,200.0	4,178.7	4,185.4	4,132.9	10.1	13.2	37.11	-226.0	-589.2	278.7	261.9	16.84	16.551		
4,300.0	4,278.0	4,285.1	4,231.0	10.3	13.6	37.11	-232.5	-605.7	286.2	269.0	17.26	16.584		
4,400.0	4,377.4	4,384.8	4,329.2	10.6	14.0	37.12	-239.0	-622.2	293.8	276.1	17.68	16.614		
4,500.0	4,476.8	4,484.6	4,427.3	10.9	14.3	37.12	-245.5	-638.7	301.3	283.2	18.10	16.644		
4,600.0	4,576.2	4,584.3	4,525.4	11.1	14.7	37.12	-252.0	-655.1	308.8	290.3	18.53	16.672		
4,700.0	4,675.5	4,684.0	4,623.6	11.4	15.0	37.13	-258.5	-671.6	316.4	297.4	18.95	16.698		
4,800.0	4,774.9	4,783.7	4,721.7	11.6	15.4	37.13	-264.9	-688.1	323.9	304.6	19.37	16.724		
4,900.0	4,874.3	4,883.4	4,819.8	11.9	15.7	37.13	-271.4	-704.6	331.5	311.7	19.79	16.748		
5,000.0	4,973.6	4,983.1	4,918.0	12.2	16.1	37.14	-277.9	-721.0	339.0	318.8	20.21	16.771		
5,100.0	5,073.0	5,082.9	5,016.1	12.4	16.5	37.14	-284.4	-737.5	346.5	325.9	20.63	16.794		

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 4C-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 4C-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)				
5,200.0	5,172.4	5,182.6	5,114.2	12.7	16.8	37.14	-290.9	-754.0	354.1	333.0	21.06	16.815		
5,300.0	5,271.7	5,282.3	5,212.4	13.0	17.2	37.15	-297.4	-770.5	361.6	340.1	21.48	16.836		
5,400.0	5,371.1	5,382.0	5,310.5	13.2	17.5	37.15	-303.9	-786.9	369.2	347.3	21.90	16.855		
5,500.0	5,470.5	5,481.7	5,408.6	13.5	17.9	37.15	-310.3	-803.4	376.7	354.4	22.32	16.874		
5,600.0	5,569.8	5,581.4	5,506.8	13.7	18.2	37.15	-316.8	-819.9	384.2	361.5	22.75	16.893		
5,700.0	5,669.2	5,681.1	5,604.9	14.0	18.6	37.16	-323.3	-836.3	391.8	368.6	23.17	16.910		
5,800.0	5,768.6	5,780.9	5,703.0	14.3	19.0	37.16	-329.8	-852.8	399.3	375.7	23.59	16.927		
5,900.0	5,867.9	5,880.6	5,801.1	14.5	19.3	37.16	-336.3	-869.3	406.8	382.8	24.01	16.943		
6,000.0	5,967.3	5,980.3	5,899.3	14.8	19.7	37.16	-342.8	-885.8	414.4	389.9	24.43	16.959		
6,100.0	6,066.7	6,080.0	5,997.4	15.1	20.0	37.17	-349.3	-902.2	421.9	397.1	24.86	16.974		
6,200.0	6,166.0	6,179.7	6,095.5	15.3	20.4	37.17	-355.7	-918.7	429.5	404.2	25.28	16.989		
6,300.0	6,265.4	6,279.4	6,193.7	15.6	20.7	37.17	-362.2	-935.2	437.0	411.3	25.70	17.003		
6,400.0	6,364.8	6,379.2	6,291.8	15.8	21.1	37.17	-368.7	-951.7	444.5	418.4	26.12	17.017		
6,500.0	6,464.3	6,478.6	6,389.7	16.0	21.5	-34.38	-375.2	-968.1	451.9	425.5	26.41	17.114		
6,600.0	6,562.8	6,577.1	6,486.7	16.1	21.8	-66.04	-380.5	-984.4	459.3	433.1	26.20	17.533		
6,700.0	6,658.6	6,678.3	6,586.2	16.2	22.1	-77.03	-374.4	-1,001.1	467.3	441.5	25.79	18.123		
6,800.0	6,749.6	6,782.7	6,686.9	16.1	22.3	-82.97	-353.2	-1,018.0	475.6	450.3	25.33	18.777		
6,900.0	6,834.2	6,890.7	6,786.8	16.1	22.4	-87.00	-315.9	-1,034.8	484.0	459.1	24.93	19.416		
7,000.0	6,910.6	7,002.4	6,883.1	16.0	22.5	-90.04	-261.9	-1,050.9	492.1	467.5	24.68	19.941		
7,100.0	6,977.4	7,117.8	6,972.6	16.1	22.6	-92.44	-190.8	-1,065.9	499.6	474.9	24.67	20.249		
7,200.0	7,033.3	7,236.7	7,051.8	16.2	22.8	-94.35	-103.3	-1,079.2	506.0	481.1	24.97	20.268		
7,300.0	7,077.2	7,358.9	7,117.2	16.4	23.0	-95.83	-0.9	-1,090.2	511.1	485.5	25.60	19.967		
7,400.0	7,108.3	7,483.5	7,165.2	16.8	23.3	-96.90	113.7	-1,098.3	514.4	487.8	26.59	19.346		
7,500.0	7,125.9	7,610.0	7,193.2	17.4	23.8	-97.57	236.7	-1,103.0	515.7	487.8	27.90	18.485		
7,600.0	7,130.0	7,731.2	7,200.0	18.1	24.4	-97.81	357.6	-1,104.1	515.0	485.5	29.55	17.432		
7,700.0	7,130.0	7,831.2	7,200.0	19.0	25.1	-97.83	457.6	-1,104.1	513.6	482.1	31.58	16.263		
7,800.0	7,130.0	7,931.2	7,200.0	19.9	25.8	-97.85	557.6	-1,104.1	512.3	478.4	33.85	15.132		
7,900.0	7,130.0	8,031.2	7,200.0	21.0	26.6	-97.87	657.6	-1,104.1	510.9	474.6	36.31	14.069		
8,000.0	7,130.0	8,131.2	7,200.0	22.2	27.5	-97.90	757.6	-1,104.1	509.5	470.6	38.93	13.089		
8,100.0	7,130.0	8,231.1	7,200.0	23.4	28.5	-97.92	857.6	-1,104.1	508.1	466.4	41.67	12.195		
8,200.0	7,130.0	8,331.1	7,200.0	24.7	29.5	-97.94	957.6	-1,104.1	506.7	462.2	44.51	11.385		
8,300.0	7,130.0	8,431.1	7,200.0	26.0	30.7	-97.96	1,057.6	-1,104.1	505.3	457.9	47.44	10.653		
8,400.0	7,130.0	8,531.1	7,200.0	27.4	31.8	-97.98	1,157.6	-1,104.1	504.0	453.5	50.43	9.993		
8,500.0	7,130.0	8,631.1	7,200.0	28.9	33.1	-98.01	1,257.5	-1,104.1	502.6	449.1	53.48	9.397		
8,600.0	7,130.0	8,731.1	7,200.0	30.3	34.3	-98.03	1,357.5	-1,104.1	501.2	444.6	56.59	8.857		
8,700.0	7,130.0	8,831.1	7,200.0	31.8	35.7	-98.05	1,457.5	-1,104.1	499.8	440.1	59.73	8.368		
8,800.0	7,130.0	8,931.1	7,200.0	33.3	37.0	-98.07	1,557.5	-1,104.1	498.4	435.5	62.90	7.924		
8,900.0	7,130.0	9,031.1	7,200.0	34.9	38.4	-98.10	1,657.5	-1,104.1	497.1	430.9	66.11	7.519		
9,000.0	7,130.0	9,131.1	7,200.0	36.4	39.8	-98.12	1,757.5	-1,104.1	495.7	426.3	69.34	7.149		
9,100.0	7,130.0	9,231.1	7,200.0	38.0	41.3	-98.14	1,857.5	-1,104.1	494.3	421.7	72.59	6.809		
9,200.0	7,130.0	9,331.0	7,200.0	39.6	42.7	-98.16	1,957.5	-1,104.1	492.9	417.0	75.86	6.498		
9,300.0	7,130.0	9,431.0	7,200.0	41.2	44.2	-98.19	2,057.5	-1,104.1	491.5	412.4	79.15	6.210		
9,400.0	7,130.0	9,531.0	7,200.0	42.8	45.7	-98.21	2,157.5	-1,104.1	490.1	407.7	82.45	5.945		
9,500.0	7,130.0	9,631.0	7,200.0	44.5	47.2	-98.23	2,257.5	-1,104.1	488.8	403.0	85.76	5.699		
9,600.0	7,130.0	9,731.0	7,200.0	46.1	48.8	-98.26	2,357.4	-1,104.1	487.4	398.3	89.09	5.471		
9,700.0	7,130.0	9,831.0	7,200.0	47.8	50.3	-98.28	2,457.4	-1,104.1	486.0	393.6	92.43	5.258		
9,800.0	7,130.0	9,931.0	7,200.0	49.4	51.9	-98.30	2,557.4	-1,104.1	484.6	388.8	95.77	5.060		
9,900.0	7,130.0	10,031.0	7,200.0	51.1	53.5	-98.33	2,657.4	-1,104.1	483.2	384.1	99.12	4.875		
10,000.0	7,130.0	10,131.0	7,200.0	52.7	55.1	-98.35	2,757.4	-1,104.1	481.9	379.4	102.48	4.702		
10,100.0	7,130.0	10,231.0	7,200.0	54.4	56.7	-98.38	2,857.4	-1,104.1	480.5	374.6	105.85	4.539		
10,200.0	7,130.0	10,330.9	7,200.0	56.1	58.3	-98.40	2,957.4	-1,104.1	479.1	369.9	109.22	4.386		
10,300.0	7,130.0	10,430.9	7,200.0	57.8	59.9	-98.43	3,057.4	-1,104.1	477.7	365.1	112.60	4.243		

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 4C-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 4C-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					
10,400.0	7,130.0	10,530.9	7,200.0	59.4	61.5	-98.45	3,157.4	-1,104.1	476.3	360.3	115.98	4.107					
10,500.0	7,130.0	10,630.9	7,200.0	61.1	63.1	-98.47	3,257.4	-1,104.1	474.9	355.6	119.37	3.979					
10,600.0	7,130.0	10,730.9	7,200.0	62.8	64.8	-98.50	3,357.3	-1,104.1	473.6	350.8	122.75	3.858					
10,700.0	7,130.0	10,830.9	7,200.0	64.5	66.4	-98.52	3,457.3	-1,104.1	472.2	346.0	126.15	3.743					
10,800.0	7,130.0	10,930.9	7,200.0	66.2	68.1	-98.55	3,557.3	-1,104.1	470.8	341.3	129.54	3.634					
10,900.0	7,130.0	11,030.9	7,200.0	67.9	69.7	-98.57	3,657.3	-1,104.1	469.4	336.5	132.94	3.531					
11,000.0	7,130.0	11,130.9	7,200.0	69.6	71.4	-98.60	3,757.3	-1,104.1	468.0	331.7	136.35	3.433					
11,100.0	7,130.0	11,230.9	7,200.0	71.3	73.0	-98.63	3,857.3	-1,104.1	466.7	326.9	139.75	3.339					
11,200.0	7,130.0	11,330.8	7,200.0	73.0	74.7	-98.65	3,957.3	-1,104.1	465.3	322.1	143.16	3.250					
11,300.0	7,130.0	11,430.8	7,200.0	74.8	76.4	-98.68	4,057.3	-1,104.1	463.9	317.3	146.56	3.165					
11,400.0	7,130.0	11,530.8	7,200.0	76.5	78.1	-98.70	4,157.3	-1,104.1	462.5	312.5	149.97	3.084					
11,500.0	7,130.0	11,630.8	7,200.0	78.2	79.7	-98.73	4,257.3	-1,104.1	461.1	307.8	153.39	3.006					
11,582.3	7,130.0	11,713.1	7,200.0	79.6	81.1	-98.75	4,339.6	-1,104.1	460.0	303.8	156.19	2.945 SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4B-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.94	0.0	-7.5	7.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-7.5	7.5	7.2	0.30	24.843		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-7.5	7.5	6.9	0.65	11.558		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-7.5	7.5	6.5	1.00	7.531 CC, ES		
400.0	400.0	399.9	399.9	0.7	0.7	-92.60	-0.4	-8.3	8.3	7.0	1.35	6.169		
500.0	500.0	499.7	499.7	0.9	0.9	30.53	-1.5	-10.7	10.0	8.3	1.70	5.892		
600.0	600.0	599.5	599.4	1.0	1.0	29.56	-3.5	-14.6	11.8	9.8	2.05	5.775		
700.0	699.9	699.3	699.0	1.2	1.2	30.01	-6.2	-20.0	13.8	11.4	2.40	5.738		
800.0	799.7	799.0	798.4	1.4	1.4	31.34	-9.6	-27.0	15.9	13.1	2.76	5.745		
900.0	899.4	898.7	897.6	1.6	1.7	33.21	-13.9	-35.5	18.1	15.0	3.13	5.777		
1,000.0	998.9	998.4	996.6	1.8	1.9	35.41	-18.9	-45.6	20.5	17.0	3.52	5.823		
1,100.0	1,098.3	1,098.0	1,095.4	2.1	2.2	37.39	-24.7	-57.2	23.3	19.3	3.92	5.932		
1,200.0	1,197.7	1,197.8	1,194.2	2.3	2.5	37.76	-31.0	-70.1	27.1	22.8	4.33	6.274		
1,300.0	1,297.0	1,297.7	1,293.0	2.6	2.8	37.95	-37.5	-83.1	31.1	26.4	4.73	6.575		
1,400.0	1,396.4	1,397.6	1,391.9	2.8	3.0	38.09	-43.9	-96.1	35.1	30.0	5.15	6.824		
1,500.0	1,495.8	1,497.5	1,490.8	3.1	3.3	38.20	-50.4	-109.1	39.1	33.5	5.56	7.032		
1,600.0	1,595.1	1,597.5	1,589.6	3.3	3.6	38.29	-56.8	-122.1	43.1	37.1	5.98	7.210		
1,700.0	1,694.5	1,697.4	1,688.5	3.6	3.9	38.36	-63.3	-135.1	47.1	40.7	6.40	7.362		
1,800.0	1,793.9	1,797.3	1,787.3	3.8	4.2	38.43	-69.7	-148.1	51.1	44.3	6.81	7.494		
1,900.0	1,893.2	1,897.2	1,886.2	4.1	4.5	38.48	-76.2	-161.0	55.1	47.8	7.24	7.609		
2,000.0	1,992.6	1,997.1	1,985.1	4.3	4.8	38.53	-82.6	-174.0	59.0	51.4	7.66	7.711		
2,100.0	2,092.0	2,097.1	2,083.9	4.6	5.1	38.57	-89.1	-187.0	63.0	55.0	8.08	7.802		
2,200.0	2,191.3	2,197.0	2,182.8	4.9	5.5	38.61	-95.5	-200.0	67.0	58.5	8.50	7.883		
2,300.0	2,290.7	2,296.9	2,281.7	5.1	5.8	38.64	-102.0	-213.0	71.0	62.1	8.93	7.956		
2,400.0	2,390.1	2,396.8	2,380.5	5.4	6.1	38.67	-108.4	-226.0	75.0	65.6	9.35	8.021		
2,500.0	2,489.4	2,496.7	2,479.4	5.6	6.4	38.70	-114.8	-239.0	79.0	69.2	9.77	8.081		
2,600.0	2,588.8	2,596.7	2,578.2	5.9	6.7	38.72	-121.3	-252.0	83.0	72.8	10.20	8.135		
2,700.0	2,688.2	2,696.6	2,677.1	6.2	7.0	38.74	-127.7	-265.0	87.0	76.3	10.62	8.185		
2,800.0	2,787.5	2,796.5	2,776.0	6.4	7.3	38.76	-134.2	-277.9	90.9	79.9	11.05	8.231		
2,900.0	2,886.9	2,896.4	2,874.8	6.7	7.6	38.78	-140.6	-290.9	94.9	83.5	11.48	8.273		
3,000.0	2,986.3	2,996.4	2,973.7	6.9	7.9	38.79	-147.1	-303.9	98.9	87.0	11.90	8.312		
3,100.0	3,085.6	3,096.3	3,072.6	7.2	8.2	38.81	-153.5	-316.9	102.9	90.6	12.33	8.348		
3,200.0	3,185.0	3,196.2	3,171.4	7.5	8.5	38.82	-160.0	-329.9	106.9	94.1	12.75	8.382		
3,300.0	3,284.4	3,296.1	3,270.3	7.7	8.8	38.84	-166.4	-342.9	110.9	97.7	13.18	8.413		
3,400.0	3,383.7	3,396.0	3,369.1	8.0	9.1	38.85	-172.9	-355.9	114.9	101.3	13.61	8.443		
3,500.0	3,483.1	3,496.0	3,468.0	8.2	9.4	38.86	-179.3	-368.9	118.9	104.8	14.03	8.470		
3,600.0	3,582.5	3,595.9	3,566.9	8.5	9.7	38.87	-185.8	-381.9	122.9	108.4	14.46	8.496		
3,700.0	3,681.8	3,695.8	3,665.7	8.8	10.1	38.88	-192.2	-394.9	126.8	112.0	14.89	8.520		
3,800.0	3,781.2	3,795.7	3,764.6	9.0	10.4	38.89	-198.6	-407.8	130.8	115.5	15.31	8.543		
3,900.0	3,880.6	3,895.6	3,863.5	9.3	10.7	38.90	-205.1	-420.8	134.8	119.1	15.74	8.564		
4,000.0	3,979.9	3,995.6	3,962.3	9.6	11.0	38.91	-211.5	-433.8	138.8	122.6	16.17	8.584		
4,100.0	4,079.3	4,095.5	4,061.2	9.8	11.3	38.91	-218.0	-446.8	142.8	126.2	16.60	8.604		
4,200.0	4,178.7	4,195.4	4,160.0	10.1	11.6	38.92	-224.4	-459.8	146.8	129.8	17.02	8.622		
4,300.0	4,278.0	4,295.3	4,258.9	10.3	11.9	38.93	-230.9	-472.8	150.8	133.3	17.45	8.639		
4,400.0	4,377.4	4,395.2	4,357.8	10.6	12.2	38.93	-237.3	-485.8	154.8	136.9	17.88	8.655		
4,500.0	4,476.8	4,495.2	4,456.6	10.9	12.5	38.94	-243.8	-498.8	158.7	140.4	18.31	8.671		
4,600.0	4,576.2	4,595.1	4,555.5	11.1	12.8	38.95	-250.2	-511.8	162.7	144.0	18.74	8.686		
4,700.0	4,675.5	4,695.0	4,654.4	11.4	13.1	38.95	-256.7	-524.8	166.7	147.6	19.16	8.700		
4,800.0	4,774.9	4,794.9	4,753.2	11.6	13.4	38.96	-263.1	-537.7	170.7	151.1	19.59	8.714		
4,900.0	4,874.3	4,894.8	4,852.1	11.9	13.7	38.96	-269.6	-550.7	174.7	154.7	20.02	8.727		
5,000.0	4,973.6	4,994.8	4,950.9	12.2	14.1	38.97	-276.0	-563.7	178.7	158.2	20.45	8.739		
5,100.0	5,073.0	5,094.7	5,049.8	12.4	14.4	38.97	-282.5	-576.7	182.7	161.8	20.88	8.751		

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 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4B-35H-O367 - Hz - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (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	5,172.4	5,194.6	5,148.7	12.7	14.7	38.98	-288.9	-589.7	186.7	165.4	21.30	8.762	
5,300.0	5,271.7	5,294.5	5,247.5	13.0	15.0	38.98	-295.3	-602.7	190.7	168.9	21.73	8.773	
5,400.0	5,371.1	5,394.4	5,346.4	13.2	15.3	38.98	-301.8	-615.7	194.6	172.5	22.16	8.784	
5,500.0	5,470.5	5,494.4	5,445.3	13.5	15.6	38.99	-308.2	-628.7	198.6	176.0	22.59	8.794	
5,600.0	5,569.8	5,594.3	5,544.1	13.7	15.9	38.99	-314.7	-641.7	202.6	179.6	23.02	8.803	
5,700.0	5,669.2	5,694.2	5,643.0	14.0	16.2	39.00	-321.1	-654.7	206.6	183.2	23.44	8.813	
5,800.0	5,768.6	5,794.1	5,741.8	14.3	16.5	39.00	-327.6	-667.6	210.6	186.7	23.87	8.822	
5,900.0	5,867.9	5,894.0	5,840.7	14.5	16.8	39.00	-334.0	-680.6	214.6	190.3	24.30	8.830	
6,000.0	5,967.3	5,994.0	5,939.6	14.8	17.1	39.01	-340.5	-693.6	218.6	193.8	24.73	8.839	
6,100.0	6,066.7	6,093.9	6,038.4	15.1	17.5	39.01	-346.9	-706.6	222.6	197.4	25.16	8.847	
6,200.0	6,166.0	6,193.8	6,137.3	15.3	17.8	39.01	-353.4	-719.6	226.5	201.0	25.59	8.854	
6,300.0	6,265.4	6,293.7	6,236.2	15.6	18.1	39.02	-359.8	-732.6	230.5	204.5	26.01	8.862	
6,400.0	6,364.8	6,393.6	6,335.0	15.8	18.4	39.02	-366.3	-745.6	234.5	208.1	26.44	8.869	
6,500.0	6,464.3	6,493.3	6,433.6	16.0	18.7	-33.52	-372.7	-758.5	238.2	211.7	26.53	8.977	
6,600.0	6,562.8	6,591.2	6,530.5	16.1	19.0	-67.74	-379.0	-771.3	242.2	216.3	25.92	9.344	
6,700.0	6,658.6	6,687.4	6,625.7	16.2	19.3	-83.37	-384.5	-783.8	249.5	224.5	24.95	10.000	
6,800.0	6,749.6	6,790.1	6,727.3	16.1	19.5	-94.33	-379.2	-797.1	261.3	237.2	24.16	10.817	
6,900.0	6,834.2	6,898.9	6,832.9	16.1	19.6	-102.83	-357.7	-811.0	276.6	252.9	23.72	11.662	
7,000.0	6,910.6	7,014.8	6,940.5	16.0	19.7	-109.72	-317.3	-825.1	293.9	270.4	23.54	12.488	
7,100.0	6,977.4	7,138.7	7,046.7	16.1	19.7	-115.33	-255.4	-839.1	311.9	288.4	23.50	13.272	
7,200.0	7,033.3	7,270.9	7,146.6	16.2	19.8	-119.82	-170.2	-852.2	329.0	305.4	23.55	13.971	
7,300.0	7,077.2	7,411.3	7,233.9	16.4	19.9	-123.28	-61.0	-863.7	343.5	319.9	23.67	14.512	
7,400.0	7,108.3	7,559.1	7,301.0	16.8	20.2	-125.73	70.1	-872.5	354.2	330.3	23.90	14.819	
7,500.0	7,125.9	7,712.0	7,340.9	17.4	20.8	-127.19	217.3	-877.7	359.8	335.5	24.36	14.770	
7,600.0	7,130.0	7,852.8	7,350.0	18.1	21.6	-127.66	357.6	-878.9	360.1	334.8	25.25	14.262	
7,700.0	7,130.0	7,952.8	7,350.0	19.0	22.3	-127.80	457.6	-878.9	359.0	332.1	26.88	13.357	
7,800.0	7,130.0	8,052.8	7,350.0	19.9	23.1	-127.93	557.6	-878.9	357.9	329.2	28.67	12.485	
7,900.0	7,130.0	8,152.8	7,350.0	21.0	24.0	-128.07	657.6	-878.9	356.8	326.2	30.59	11.663	
8,000.0	7,130.0	8,252.8	7,350.0	22.2	25.0	-128.21	757.6	-878.9	355.7	323.1	32.63	10.901	
8,100.0	7,130.0	8,352.8	7,350.0	23.4	26.1	-128.35	857.6	-878.9	354.6	319.8	34.75	10.203	
8,200.0	7,130.0	8,452.8	7,350.0	24.7	27.3	-128.49	957.6	-878.9	353.5	316.5	36.95	9.568	
8,300.0	7,130.0	8,552.7	7,350.0	26.0	28.5	-128.63	1,057.6	-878.9	352.4	313.2	39.20	8.991	
8,400.0	7,130.0	8,652.7	7,350.0	27.4	29.8	-128.77	1,157.6	-878.9	351.3	309.8	41.49	8.467	
8,500.0	7,130.0	8,752.7	7,350.0	28.9	31.1	-128.92	1,257.5	-878.9	350.2	306.4	43.82	7.992	
8,600.0	7,130.0	8,852.7	7,350.0	30.3	32.4	-129.06	1,357.5	-878.9	349.1	303.0	46.18	7.560	
8,700.0	7,130.0	8,952.7	7,350.0	31.8	33.8	-129.21	1,457.5	-878.9	348.1	299.5	48.56	7.167	
8,800.0	7,130.0	9,052.7	7,350.0	33.3	35.3	-129.35	1,557.5	-878.9	347.0	296.0	50.96	6.809	
8,900.0	7,130.0	9,152.7	7,350.0	34.9	36.7	-129.50	1,657.5	-878.9	345.9	292.5	53.37	6.481	
9,000.0	7,130.0	9,252.7	7,350.0	36.4	38.2	-129.65	1,757.5	-878.9	344.8	289.0	55.79	6.181	
9,100.0	7,130.0	9,352.7	7,350.0	38.0	39.7	-129.79	1,857.5	-878.9	343.7	285.5	58.21	5.905	
9,200.0	7,130.0	9,452.7	7,350.0	39.6	41.2	-129.94	1,957.5	-878.9	342.7	282.0	60.64	5.651	
9,300.0	7,130.0	9,552.6	7,350.0	41.2	42.8	-130.09	2,057.5	-878.9	341.6	278.5	63.07	5.416	
9,400.0	7,130.0	9,652.6	7,350.0	42.8	44.3	-130.25	2,157.5	-878.9	340.5	275.0	65.50	5.199	
9,500.0	7,130.0	9,752.6	7,350.0	44.5	45.9	-130.40	2,257.5	-878.9	339.5	271.5	67.93	4.997	
9,600.0	7,130.0	9,852.6	7,350.0	46.1	47.5	-130.55	2,357.4	-878.9	338.4	268.1	70.36	4.810	
9,700.0	7,130.0	9,952.6	7,350.0	47.8	49.1	-130.71	2,457.4	-878.9	337.3	264.6	72.78	4.635	
9,800.0	7,130.0	10,052.6	7,350.0	49.4	50.7	-130.86	2,557.4	-878.9	336.3	261.1	75.19	4.472	
9,900.0	7,130.0	10,152.6	7,350.0	51.1	52.3	-131.02	2,657.4	-878.9	335.2	257.6	77.60	4.320	
10,000.0	7,130.0	10,252.6	7,350.0	52.7	53.9	-131.17	2,757.4	-878.9	334.2	254.2	80.00	4.177	
10,100.0	7,130.0	10,352.6	7,350.0	54.4	55.6	-131.33	2,857.4	-878.9	333.1	250.7	82.40	4.043	
10,200.0	7,130.0	10,452.6	7,350.0	56.1	57.2	-131.49	2,957.4	-878.9	332.1	247.3	84.78	3.917	
10,300.0	7,130.0	10,552.5	7,350.0	57.8	58.8	-131.65	3,057.4	-878.9	331.0	243.9	87.15	3.798	

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 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S35-T3N-R67W (Kiyota) - Kiyota 4B-35H-O367 - Hz - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
10,400.0	7,130.0	10,652.5	7,350.0	59.4	60.5	-131.81	3,157.4	-878.9	330.0	240.5	89.52	3.686						
10,500.0	7,130.0	10,752.5	7,350.0	61.1	62.2	-131.97	3,257.4	-878.9	329.0	237.1	91.87	3.581						
10,600.0	7,130.0	10,852.5	7,350.0	62.8	63.8	-132.14	3,357.3	-878.9	327.9	233.7	94.22	3.481						
10,700.0	7,130.0	10,952.5	7,350.0	64.5	65.5	-132.30	3,457.3	-878.9	326.9	230.3	96.55	3.386						
10,800.0	7,130.0	11,052.5	7,350.0	66.2	67.2	-132.47	3,557.3	-878.9	325.9	227.0	98.87	3.296						
10,900.0	7,130.0	11,152.5	7,350.0	67.9	68.8	-132.63	3,657.3	-878.9	324.8	223.7	101.17	3.211						
11,000.0	7,130.0	11,252.5	7,350.0	69.6	70.5	-132.80	3,757.3	-878.9	323.8	220.3	103.47	3.130						
11,100.0	7,130.0	11,352.5	7,350.0	71.3	72.2	-132.97	3,857.3	-878.9	322.8	217.0	105.74	3.052						
11,200.0	7,130.0	11,452.5	7,350.0	73.0	73.9	-133.14	3,957.3	-878.9	321.8	213.8	108.01	2.979						
11,300.0	7,130.0	11,552.5	7,350.0	74.8	75.6	-133.31	4,057.3	-878.9	320.7	210.5	110.26	2.909						
11,400.0	7,130.0	11,652.4	7,350.0	76.5	77.3	-133.48	4,157.3	-878.9	319.7	207.2	112.50	2.842						
11,500.0	7,130.0	11,752.4	7,350.0	78.2	79.0	-133.65	4,257.3	-878.9	318.7	204.0	114.72	2.778						
11,582.3	7,130.0	11,834.7	7,350.0	79.6	80.4	-133.80	4,339.6	-878.9	317.9	201.4	116.54	2.728 SF						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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		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	90.06	0.0	7.5	7.5					
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	7.5	7.5	7.2	0.30	24.844		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	7.5	7.5	6.9	0.65	11.558		
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	7.5	7.5	6.5	1.00	7.531		
400.0	400.0	400.0	400.0	0.7	0.7	90.06	0.0	7.5	7.5	6.2	1.35	5.585 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-147.14	0.0	7.5	8.3	6.6	1.70	4.861		
600.0	600.0	600.1	600.1	1.0	1.0	-151.80	-0.7	7.0	9.9	7.8	2.05	4.818		
700.0	699.9	700.2	700.2	1.2	1.2	-153.59	-2.6	5.2	11.7	9.3	2.40	4.884		
800.0	799.7	800.4	800.2	1.4	1.4	-153.57	-5.9	2.3	13.8	11.0	2.76	4.999		
900.0	899.4	900.6	900.2	1.6	1.6	-152.44	-10.5	-1.7	16.0	12.9	3.12	5.138		
1,000.0	998.9	1,000.8	1,000.1	1.8	1.8	-150.64	-16.4	-7.0	18.5	15.0	3.50	5.290		
1,100.0	1,098.3	1,100.8	1,099.7	2.1	2.0	-148.98	-23.2	-13.0	21.3	17.4	3.88	5.485		
1,200.0	1,197.7	1,200.7	1,199.3	2.3	2.2	-147.84	-30.1	-19.1	24.2	20.0	4.28	5.662		
1,300.0	1,297.0	1,300.7	1,298.8	2.6	2.4	-146.95	-37.0	-25.2	27.2	22.5	4.68	5.804		
1,400.0	1,396.4	1,400.6	1,398.3	2.8	2.7	-146.23	-43.8	-31.2	30.1	25.0	5.09	5.920		
1,500.0	1,495.8	1,500.6	1,497.9	3.1	2.9	-145.64	-50.7	-37.3	33.1	27.6	5.50	6.015		
1,600.0	1,595.1	1,600.6	1,597.4	3.3	3.1	-145.15	-57.6	-43.4	36.0	30.1	5.91	6.094		
1,700.0	1,694.5	1,700.5	1,696.9	3.6	3.3	-144.73	-64.4	-49.5	39.0	32.7	6.33	6.161		
1,800.0	1,793.9	1,800.5	1,796.5	3.8	3.6	-144.37	-71.3	-55.6	42.0	35.2	6.75	6.218		
1,900.0	1,893.2	1,900.4	1,896.0	4.1	3.8	-144.06	-78.2	-61.7	44.9	37.7	7.17	6.267		
2,000.0	1,992.6	2,000.4	1,995.5	4.3	4.0	-143.78	-85.1	-67.7	47.9	40.3	7.59	6.310		
2,100.0	2,092.0	2,100.3	2,095.1	4.6	4.3	-143.54	-91.9	-73.8	50.8	42.8	8.01	6.348		
2,200.0	2,191.3	2,200.3	2,194.6	4.9	4.5	-143.32	-98.8	-79.9	53.8	45.4	8.43	6.381		
2,300.0	2,290.7	2,300.2	2,294.1	5.1	4.7	-143.13	-105.7	-86.0	56.8	47.9	8.86	6.410		
2,400.0	2,390.1	2,400.2	2,393.7	5.4	5.0	-142.96	-112.5	-92.1	59.7	50.4	9.28	6.436		
2,500.0	2,489.4	2,500.2	2,493.2	5.6	5.2	-142.80	-119.4	-98.1	62.7	53.0	9.71	6.460		
2,600.0	2,588.8	2,600.1	2,592.7	5.9	5.4	-142.66	-126.3	-104.2	65.7	55.5	10.13	6.481		
2,700.0	2,688.2	2,700.1	2,692.3	6.2	5.7	-142.53	-133.1	-110.3	68.6	58.1	10.56	6.500		
2,800.0	2,787.5	2,800.0	2,791.8	6.4	5.9	-142.41	-140.0	-116.4	71.6	60.6	10.98	6.518		
2,900.0	2,886.9	2,900.0	2,891.3	6.7	6.1	-142.30	-146.9	-122.5	74.6	63.1	11.41	6.534		
3,000.0	2,986.3	2,999.9	2,990.9	6.9	6.4	-142.20	-153.8	-128.6	77.5	65.7	11.84	6.549		
3,100.0	3,085.6	3,099.9	3,090.4	7.2	6.6	-142.10	-160.6	-134.6	80.5	68.2	12.27	6.562		
3,200.0	3,185.0	3,199.8	3,189.9	7.5	6.8	-142.01	-167.5	-140.7	83.5	70.8	12.69	6.574		
3,300.0	3,284.4	3,299.8	3,285.5	7.7	7.1	-141.93	-174.4	-146.8	86.4	73.3	13.12	6.586		
3,400.0	3,383.7	3,399.8	3,389.0	8.0	7.3	-141.86	-181.2	-152.9	89.4	75.8	13.55	6.597		
3,500.0	3,483.1	3,499.7	3,488.5	8.2	7.6	-141.78	-188.1	-159.0	92.4	78.4	13.98	6.607		
3,600.0	3,582.5	3,599.7	3,588.1	8.5	7.8	-141.72	-195.0	-165.0	95.3	80.9	14.41	6.616		
3,700.0	3,681.8	3,699.6	3,687.6	8.8	8.0	-141.65	-201.9	-171.1	98.3	83.5	14.84	6.625		
3,800.0	3,781.2	3,799.6	3,787.1	9.0	8.3	-141.60	-208.7	-177.2	101.3	86.0	15.27	6.633		
3,900.0	3,880.6	3,899.5	3,886.7	9.3	8.5	-141.54	-215.6	-183.3	104.2	88.5	15.70	6.640		
4,000.0	3,979.9	3,999.5	3,986.2	9.6	8.7	-141.49	-222.5	-189.4	107.2	91.1	16.13	6.647		
4,100.0	4,079.3	4,099.5	4,085.7	9.8	9.0	-141.44	-229.3	-195.5	110.2	93.6	16.56	6.654		
4,200.0	4,178.7	4,199.4	4,185.3	10.1	9.2	-141.39	-236.2	-201.5	113.1	96.1	16.99	6.661		
4,300.0	4,278.0	4,299.4	4,284.8	10.3	9.4	-141.35	-243.1	-207.6	116.1	98.7	17.42	6.667		
4,400.0	4,377.4	4,399.3	4,384.3	10.6	9.7	-141.30	-249.9	-213.7	119.1	101.2	17.85	6.672		
4,500.0	4,476.8	4,499.3	4,483.9	10.9	9.9	-141.26	-256.8	-219.8	122.0	103.8	18.28	6.678		
4,600.0	4,576.2	4,599.2	4,583.4	11.1	10.1	-141.22	-263.7	-225.9	125.0	106.3	18.71	6.683		
4,700.0	4,675.5	4,699.2	4,682.9	11.4	10.4	-141.19	-270.6	-232.0	128.0	108.8	19.14	6.688		
4,800.0	4,774.9	4,799.1	4,782.5	11.6	10.6	-141.15	-277.4	-238.0	130.9	111.4	19.57	6.692		
4,900.0	4,874.3	4,899.1	4,882.0	11.9	10.9	-141.12	-284.3	-244.1	133.9	113.9	20.00	6.697		
5,000.0	4,973.6	4,999.1	4,981.5	12.2	11.1	-141.09	-291.2	-250.2	136.9	116.5	20.43	6.701		
5,100.0	5,073.0	5,099.0	5,081.1	12.4	11.3	-141.06	-298.0	-256.3	139.8	119.0	20.86	6.705		

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 4C-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 4C-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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,172.4	5,199.0	5,180.6	12.7	11.6	-141.03	-304.9	-262.4	142.8	121.5	21.29	6.709		
5,300.0	5,271.7	5,298.9	5,280.1	13.0	11.8	-141.00	-311.8	-268.4	145.8	124.1	21.72	6.712		
5,400.0	5,371.1	5,398.9	5,379.7	13.2	12.0	-140.97	-318.7	-274.5	148.8	126.6	22.15	6.716		
5,500.0	5,470.5	5,498.8	5,479.2	13.5	12.3	-140.94	-325.5	-280.6	151.7	129.1	22.58	6.719		
5,600.0	5,569.8	5,598.8	5,578.7	13.7	12.5	-140.92	-332.4	-286.7	154.7	131.7	23.01	6.722		
5,700.0	5,669.2	5,698.7	5,678.3	14.0	12.7	-140.90	-339.3	-292.8	157.7	134.2	23.44	6.725		
5,800.0	5,768.6	5,798.7	5,777.8	14.3	13.0	-140.87	-346.1	-298.9	160.6	136.8	23.87	6.728		
5,900.0	5,867.9	5,898.7	5,877.3	14.5	13.2	-140.85	-353.0	-304.9	163.6	139.3	24.30	6.731		
6,000.0	5,967.3	5,998.6	5,976.9	14.8	13.5	-140.83	-359.9	-311.0	166.6	141.8	24.74	6.734		
6,100.0	6,066.7	6,098.6	6,076.4	15.1	13.7	-140.81	-366.7	-317.1	169.5	144.4	25.17	6.737		
6,200.0	6,166.0	6,198.5	6,175.9	15.3	13.9	-140.79	-373.6	-323.2	172.5	146.9	25.60	6.739		
6,300.0	6,265.4	6,298.5	6,275.5	15.6	14.2	-140.77	-380.5	-329.3	175.5	149.4	26.03	6.742		
6,400.0	6,364.8	6,398.4	6,375.0	15.8	14.4	-140.75	-387.4	-335.3	178.4	152.0	26.46	6.744		
6,500.0	6,464.3	6,499.0	6,475.2	16.0	14.6	149.34	-393.2	-341.5	181.8	154.9	26.96	6.744		
6,600.0	6,562.8	6,601.5	6,577.3	16.1	14.7	121.49	-387.4	-347.8	185.7	158.4	27.26	6.813		
6,700.0	6,658.6	6,705.2	6,678.6	16.2	14.7	114.35	-366.7	-354.3	189.8	162.6	27.22	6.973		
6,800.0	6,749.6	6,810.0	6,776.9	16.1	14.7	111.93	-331.1	-360.6	193.9	167.0	26.88	7.214		
6,900.0	6,834.2	6,915.9	6,869.8	16.1	14.5	111.06	-281.0	-366.8	198.0	171.6	26.33	7.520		
7,000.0	6,910.6	7,022.7	6,955.1	16.0	14.4	110.76	-217.1	-372.6	201.8	176.1	25.68	7.856		
7,100.0	6,977.4	7,130.3	7,030.4	16.1	14.3	110.66	-140.5	-377.9	205.1	180.0	25.12	8.166		
7,200.0	7,033.3	7,238.6	7,093.8	16.2	14.4	110.56	-53.0	-382.6	208.0	183.2	24.84	8.375		
7,300.0	7,077.2	7,347.4	7,143.5	16.4	14.6	110.38	43.5	-386.5	210.2	185.2	25.02	8.403		
7,400.0	7,108.3	7,456.3	7,178.1	16.8	15.0	110.07	146.7	-389.6	211.8	186.0	25.80	8.209		
7,500.0	7,125.9	7,565.3	7,196.7	17.4	15.7	109.62	253.9	-391.7	212.6	185.4	27.20	7.816		
7,600.0	7,130.0	7,670.9	7,200.0	18.1	16.5	109.19	359.4	-392.8	212.9	183.9	29.06	7.328		
7,700.0	7,130.0	7,770.9	7,200.0	19.0	17.4	109.15	459.4	-393.6	213.4	182.5	30.97	6.892		
7,800.0	7,130.0	7,870.9	7,200.0	19.9	18.5	109.10	559.4	-394.5	213.9	180.8	33.10	6.463		
7,900.0	7,130.0	7,970.9	7,200.0	21.0	19.6	109.05	659.4	-395.4	214.4	179.0	35.42	6.054		
8,000.0	7,130.0	8,070.9	7,200.0	22.2	20.8	109.01	759.4	-396.3	214.9	177.0	37.88	5.673		
8,100.0	7,130.0	8,170.9	7,200.0	23.4	22.1	108.96	859.4	-397.1	215.4	174.9	40.47	5.322		
8,200.0	7,130.0	8,270.9	7,200.0	24.7	23.5	108.92	959.4	-398.0	215.9	172.7	43.17	5.002		
8,300.0	7,130.0	8,370.9	7,200.0	26.0	24.9	108.87	1,059.4	-398.9	216.4	170.5	45.95	4.710		
8,400.0	7,130.0	8,470.9	7,200.0	27.4	26.4	108.83	1,159.3	-399.8	216.9	168.1	48.80	4.445		
8,500.0	7,130.0	8,570.9	7,200.0	28.9	27.8	108.78	1,259.3	-400.6	217.4	165.7	51.70	4.205		
8,600.0	7,130.0	8,670.9	7,200.0	30.3	29.4	108.74	1,359.3	-401.5	217.9	163.2	54.66	3.986		
8,700.0	7,130.0	8,770.9	7,200.0	31.8	30.9	108.70	1,459.3	-402.4	218.4	160.7	57.66	3.787		
8,800.0	7,130.0	8,870.9	7,200.0	33.3	32.5	108.65	1,559.3	-403.2	218.9	158.2	60.70	3.606		
8,900.0	7,130.0	8,970.9	7,200.0	34.9	34.0	108.61	1,659.3	-404.1	219.4	155.6	63.77	3.440		
9,000.0	7,130.0	9,070.9	7,200.0	36.4	35.6	108.56	1,759.3	-405.0	219.9	153.0	66.87	3.288		
9,100.0	7,130.0	9,170.9	7,200.0	38.0	37.2	108.52	1,859.3	-405.9	220.4	150.4	69.99	3.149		
9,200.0	7,130.0	9,270.9	7,200.0	39.6	38.9	108.48	1,959.3	-406.7	220.9	147.7	73.13	3.020		
9,300.0	7,130.0	9,370.9	7,200.0	41.2	40.5	108.43	2,059.3	-407.6	221.4	145.1	76.29	2.902		
9,400.0	7,130.0	9,470.9	7,200.0	42.8	42.1	108.39	2,159.3	-408.5	221.9	142.4	79.47	2.792		
9,500.0	7,130.0	9,570.9	7,200.0	44.5	43.8	108.35	2,259.3	-409.4	222.4	139.7	82.66	2.690		
9,600.0	7,130.0	9,670.9	7,200.0	46.1	45.5	108.31	2,359.3	-410.2	222.9	137.0	85.86	2.595		
9,700.0	7,130.0	9,770.9	7,200.0	47.8	47.1	108.26	2,459.3	-411.1	223.4	134.3	89.08	2.507		
9,800.0	7,130.0	9,870.9	7,200.0	49.4	48.8	108.22	2,559.3	-412.0	223.8	131.5	92.31	2.425		
9,900.0	7,130.0	9,970.9	7,200.0	51.1	50.5	108.18	2,659.3	-412.8	224.3	128.8	95.55	2.348		
10,000.0	7,130.0	10,070.9	7,200.0	52.7	52.2	108.14	2,759.3	-413.7	224.8	126.0	98.80	2.276		
10,100.0	7,130.0	10,170.9	7,200.0	54.4	53.8	108.10	2,859.3	-414.6	225.3	123.3	102.05	2.208		
10,200.0	7,130.0	10,270.9	7,200.0	56.1	55.5	108.06	2,959.3	-415.5	225.8	120.5	105.32	2.144		
10,300.0	7,130.0	10,370.9	7,200.0	57.8	57.2	108.02	3,059.3	-416.3	226.3	117.7	108.59	2.084		

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 4C-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 4C-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	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Total	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Uncertainty	Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	Axis			
10,400.0	7,130.0	10,470.9	7,200.0	59.4	58.9	107.97	3,159.2	-417.2	226.8	115.0	111.87	2.028		
10,500.0	7,130.0	10,570.9	7,200.0	61.1	60.6	107.93	3,259.2	-418.1	227.3	112.2	115.15	1.974		
10,600.0	7,130.0	10,670.9	7,200.0	62.8	62.3	107.89	3,359.2	-419.0	227.8	109.4	118.44	1.924		
10,700.0	7,130.0	10,770.9	7,200.0	64.5	64.1	107.85	3,459.2	-419.8	228.3	106.6	121.73	1.876		
10,800.0	7,130.0	10,870.8	7,200.0	66.2	65.8	107.81	3,559.2	-420.7	228.8	103.8	125.04	1.830		
10,900.0	7,130.0	10,970.8	7,200.0	67.9	67.5	107.77	3,659.2	-421.6	229.3	101.0	128.34	1.787		
11,000.0	7,130.0	11,070.8	7,200.0	69.6	69.2	107.73	3,759.2	-422.4	229.8	98.2	131.65	1.746		
11,100.0	7,130.0	11,170.8	7,200.0	71.3	70.9	107.69	3,859.2	-423.3	230.3	95.4	134.96	1.707		
11,200.0	7,130.0	11,270.8	7,200.0	73.0	72.6	107.65	3,959.2	-424.2	230.8	92.5	138.28	1.669		
11,300.0	7,130.0	11,370.8	7,200.0	74.8	74.3	107.61	4,059.2	-425.1	231.3	89.7	141.60	1.634		
11,400.0	7,130.0	11,470.8	7,200.0	76.5	76.1	107.58	4,159.2	-425.9	231.8	86.9	144.93	1.600		
11,500.0	7,130.0	11,570.8	7,200.0	78.2	77.8	107.54	4,259.2	-426.8	232.3	84.1	148.26	1.567		
11,582.3	7,130.0	11,653.2	7,200.0	79.6	79.2	107.50	4,341.5	-427.5	232.7	81.7	151.00	1.541 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.06	0.0	15.1	15.1					
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	15.1	15.1	14.8	0.30	49.687		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	15.1	15.1	14.4	0.65	23.117		
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	15.1	15.1	14.1	1.00	15.062		
400.0	400.0	400.0	400.0	0.7	0.7	90.06	0.0	15.1	15.1	13.7	1.35	11.170 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-145.42	0.0	15.1	15.8	14.1	1.70	9.294		
600.0	600.0	600.0	600.0	1.0	1.0	-150.14	0.0	15.1	18.0	16.0	2.05	8.791		
700.0	699.9	700.1	700.1	1.2	1.2	-154.03	-0.8	14.7	21.4	19.0	2.40	8.900		
800.0	799.7	800.3	800.2	1.4	1.4	-155.41	-3.1	13.5	25.2	22.5	2.75	9.168		
900.0	899.4	900.5	900.4	1.6	1.6	-155.20	-7.0	11.4	29.6	26.5	3.11	9.512		
1,000.0	998.9	1,000.7	1,000.4	1.8	1.8	-154.00	-12.4	8.6	34.4	30.9	3.48	9.896		
1,100.0	1,098.3	1,100.8	1,100.1	2.1	1.9	-152.34	-19.2	5.0	39.7	35.8	3.86	10.280		
1,200.0	1,197.7	1,200.6	1,199.7	2.3	2.2	-150.99	-26.1	1.4	45.0	40.8	4.25	10.589		
1,300.0	1,297.0	1,300.5	1,299.2	2.6	2.4	-149.92	-33.0	-2.3	50.3	45.7	4.65	10.837		
1,400.0	1,396.4	1,400.3	1,398.8	2.8	2.6	-149.06	-39.9	-5.9	55.7	50.7	5.05	11.038		
1,500.0	1,495.8	1,500.2	1,498.3	3.1	2.8	-148.35	-46.8	-9.5	61.1	55.6	5.45	11.204		
1,600.0	1,595.1	1,600.0	1,597.9	3.3	3.0	-147.75	-53.7	-13.2	66.4	60.6	5.86	11.342		
1,700.0	1,694.5	1,699.9	1,697.4	3.6	3.2	-147.25	-60.6	-16.8	71.8	65.6	6.27	11.458		
1,800.0	1,793.9	1,799.7	1,797.0	3.8	3.4	-146.81	-67.5	-20.4	77.2	70.5	6.68	11.558		
1,900.0	1,893.2	1,899.6	1,896.5	4.1	3.6	-146.43	-74.4	-24.1	82.6	75.5	7.09	11.644		
2,000.0	1,992.6	1,999.4	1,996.1	4.3	3.8	-146.10	-81.3	-27.7	88.0	80.5	7.51	11.718		
2,100.0	2,092.0	2,099.3	2,095.6	4.6	4.1	-145.80	-88.2	-31.3	93.4	85.5	7.93	11.783		
2,200.0	2,191.3	2,199.1	2,195.2	4.9	4.3	-145.54	-95.1	-35.0	98.8	90.4	8.34	11.840		
2,300.0	2,290.7	2,299.0	2,294.7	5.1	4.5	-145.31	-102.0	-38.6	104.2	95.4	8.76	11.891		
2,400.0	2,390.1	2,398.8	2,394.3	5.4	4.7	-145.09	-108.9	-42.2	109.6	100.4	9.18	11.936		
2,500.0	2,489.4	2,498.7	2,493.8	5.6	4.9	-144.90	-115.8	-45.9	115.0	105.4	9.60	11.977		
2,600.0	2,588.8	2,598.6	2,593.4	5.9	5.2	-144.73	-122.7	-49.5	120.4	110.4	10.02	12.013		
2,700.0	2,688.2	2,698.4	2,692.9	6.2	5.4	-144.57	-129.6	-53.1	125.8	115.3	10.44	12.046		
2,800.0	2,787.5	2,798.3	2,792.5	6.4	5.6	-144.42	-136.5	-56.8	131.2	120.3	10.86	12.076		
2,900.0	2,886.9	2,898.1	2,892.0	6.7	5.8	-144.29	-143.4	-60.4	136.6	125.3	11.29	12.104		
3,000.0	2,986.3	2,998.0	2,991.6	6.9	6.0	-144.16	-150.3	-64.0	142.0	130.3	11.71	12.129		
3,100.0	3,085.6	3,097.8	3,091.1	7.2	6.2	-144.05	-157.2	-67.7	147.4	135.3	12.13	12.152		
3,200.0	3,185.0	3,197.7	3,190.6	7.5	6.5	-143.94	-164.1	-71.3	152.8	140.3	12.55	12.173		
3,300.0	3,284.4	3,297.5	3,290.2	7.7	6.7	-143.84	-171.0	-74.9	158.2	145.2	12.98	12.193		
3,400.0	3,383.7	3,397.4	3,389.7	8.0	6.9	-143.75	-177.9	-78.6	163.6	150.2	13.40	12.211		
3,500.0	3,483.1	3,497.2	3,489.3	8.2	7.1	-143.66	-184.8	-82.2	169.0	155.2	13.82	12.228		
3,600.0	3,582.5	3,597.1	3,588.8	8.5	7.3	-143.58	-191.7	-85.8	174.4	160.2	14.25	12.244		
3,700.0	3,681.8	3,696.9	3,688.4	8.8	7.6	-143.50	-198.6	-89.5	179.9	165.2	14.67	12.258		
3,800.0	3,781.2	3,796.8	3,787.9	9.0	7.8	-143.43	-205.5	-93.1	185.3	170.2	15.10	12.272		
3,900.0	3,880.6	3,896.6	3,887.5	9.3	8.0	-143.36	-212.4	-96.7	190.7	175.2	15.52	12.285		
4,000.0	3,979.9	3,996.5	3,987.0	9.6	8.2	-143.29	-219.4	-100.4	196.1	180.1	15.95	12.297		
4,100.0	4,079.3	4,096.4	4,086.6	9.8	8.4	-143.23	-226.3	-104.0	201.5	185.1	16.37	12.309		
4,200.0	4,178.7	4,196.2	4,186.1	10.1	8.7	-143.17	-233.2	-107.6	206.9	190.1	16.80	12.319		
4,300.0	4,278.0	4,296.1	4,285.7	10.3	8.9	-143.12	-240.1	-111.3	212.3	195.1	17.22	12.330		
4,400.0	4,377.4	4,395.9	4,385.2	10.6	9.1	-143.07	-247.0	-114.9	217.7	200.1	17.65	12.339		
4,500.0	4,476.8	4,495.8	4,484.8	10.9	9.3	-143.02	-253.9	-118.5	223.1	205.1	18.07	12.348		
4,600.0	4,576.2	4,595.6	4,584.3	11.1	9.5	-142.97	-260.8	-122.2	228.5	210.1	18.50	12.357		
4,700.0	4,675.5	4,695.5	4,683.9	11.4	9.8	-142.92	-267.7	-125.8	234.0	215.0	18.92	12.365		
4,800.0	4,774.9	4,795.3	4,783.4	11.6	10.0	-142.88	-274.6	-129.4	239.4	220.0	19.35	12.373		
4,900.0	4,874.3	4,895.2	4,883.0	11.9	10.2	-142.84	-281.5	-133.1	244.8	225.0	19.77	12.380		
5,000.0	4,973.6	4,995.0	4,982.5	12.2	10.4	-142.80	-288.4	-136.7	250.2	230.0	20.20	12.387		
5,100.0	5,073.0	5,094.9	5,082.1	12.4	10.6	-142.76	-295.3	-140.3	255.6	235.0	20.62	12.394		

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 4C-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 4C-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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,172.4	5,194.7	5,181.6	12.7	10.9	-142.73	-302.2	-144.0	261.0	240.0	21.05	12.400		
5,300.0	5,271.7	5,294.6	5,281.2	13.0	11.1	-142.69	-309.1	-147.6	266.4	245.0	21.48	12.406		
5,400.0	5,371.1	5,394.4	5,380.7	13.2	11.3	-142.66	-316.0	-151.2	271.8	249.9	21.90	12.412		
5,500.0	5,470.5	5,494.3	5,480.3	13.5	11.5	-142.63	-322.9	-154.9	277.3	254.9	22.33	12.418		
5,600.0	5,569.8	5,594.2	5,579.8	13.7	11.8	-142.60	-329.8	-158.5	282.7	259.9	22.75	12.423		
5,700.0	5,669.2	5,694.0	5,679.4	14.0	12.0	-142.57	-336.7	-162.1	288.1	264.9	23.18	12.428		
5,800.0	5,768.6	5,793.9	5,778.9	14.3	12.2	-142.54	-343.6	-165.8	293.5	269.9	23.61	12.433		
5,900.0	5,867.9	5,893.7	5,878.4	14.5	12.4	-142.51	-350.5	-169.4	298.9	274.9	24.03	12.438		
6,000.0	5,967.3	5,993.6	5,978.0	14.8	12.6	-142.48	-357.4	-173.0	304.3	279.9	24.46	12.443		
6,100.0	6,066.7	6,093.4	6,077.5	15.1	12.9	-142.46	-364.3	-176.7	309.7	284.8	24.88	12.447		
6,200.0	6,166.0	6,193.3	6,177.1	15.3	13.1	-142.43	-371.2	-180.3	315.1	289.8	25.31	12.451		
6,300.0	6,265.4	6,293.1	6,276.6	15.6	13.3	-142.41	-378.1	-183.9	320.6	294.8	25.74	12.455		
6,400.0	6,364.8	6,393.0	6,376.2	15.8	13.5	-142.39	-385.0	-187.6	326.0	299.8	26.16	12.459		
6,500.0	6,464.3	6,492.5	6,475.4	16.0	13.7	146.95	-391.9	-191.2	331.7	305.1	26.57	12.483		
6,600.0	6,562.8	6,590.2	6,572.8	16.1	14.0	119.79	-398.7	-194.7	338.7	311.7	27.05	12.523		
6,700.0	6,658.6	6,692.1	6,674.6	16.2	14.1	114.73	-400.1	-198.5	348.3	320.9	27.37	12.727		
6,800.0	6,749.6	6,799.4	6,780.7	16.1	14.1	114.40	-386.1	-202.3	359.8	332.5	27.29	13.182		
6,900.0	6,834.2	6,911.8	6,888.5	16.1	14.0	115.51	-354.5	-206.3	372.5	345.7	26.83	13.883		
7,000.0	6,910.6	7,030.0	6,994.9	16.0	13.8	117.02	-303.7	-210.1	385.7	359.6	26.08	14.788		
7,100.0	6,977.4	7,153.8	7,095.9	16.1	13.6	118.53	-232.3	-213.8	398.6	373.4	25.22	15.805		
7,200.0	7,033.3	7,283.3	7,186.7	16.2	13.5	119.79	-140.4	-217.2	410.2	385.7	24.48	16.755		
7,300.0	7,077.2	7,417.7	7,261.9	16.4	13.6	120.68	-29.3	-219.9	419.7	395.6	24.17	17.367		
7,400.0	7,108.3	7,555.9	7,316.2	16.8	14.0	121.11	97.5	-221.9	426.5	402.0	24.57	17.360		
7,500.0	7,125.9	7,696.2	7,345.5	17.4	14.7	121.04	234.5	-222.9	430.2	404.3	25.84	16.649		
7,600.0	7,130.0	7,819.5	7,350.0	18.1	15.7	120.69	357.6	-223.1	431.1	403.4	27.69	15.568		
7,700.0	7,130.0	7,919.4	7,350.0	19.0	16.7	120.59	457.6	-223.1	432.3	402.9	29.42	14.695		
7,800.0	7,130.0	8,019.4	7,350.0	19.9	17.8	120.50	557.6	-223.1	433.5	402.2	31.35	13.828		
7,900.0	7,130.0	8,119.4	7,350.0	21.0	18.9	120.40	657.6	-223.1	434.7	401.3	33.45	12.996		
8,000.0	7,130.0	8,219.4	7,350.0	22.2	20.2	120.31	757.6	-223.1	435.9	400.2	35.69	12.214		
8,100.0	7,130.0	8,319.4	7,350.0	23.4	21.5	120.22	857.6	-223.1	437.1	399.1	38.05	11.489		
8,200.0	7,130.0	8,419.4	7,350.0	24.7	22.9	120.13	957.6	-223.1	438.3	397.8	40.51	10.822		
8,300.0	7,130.0	8,519.4	7,350.0	26.0	24.4	120.04	1,057.6	-223.1	439.6	396.5	43.04	10.212		
8,400.0	7,130.0	8,619.4	7,350.0	27.4	25.8	119.95	1,157.6	-223.1	440.8	395.1	45.65	9.655		
8,500.0	7,130.0	8,719.4	7,350.0	28.9	27.4	119.86	1,257.5	-223.1	442.0	393.7	48.32	9.147		
8,600.0	7,130.0	8,819.4	7,350.0	30.3	28.9	119.77	1,357.5	-223.1	443.2	392.1	51.04	8.684		
8,700.0	7,130.0	8,919.3	7,350.0	31.8	30.4	119.68	1,457.5	-223.1	444.4	390.6	53.80	8.260		
8,800.0	7,130.0	9,019.3	7,350.0	33.3	32.0	119.59	1,557.5	-223.1	445.6	389.0	56.60	7.873		
8,900.0	7,130.0	9,119.3	7,350.0	34.9	33.6	119.50	1,657.5	-223.1	446.8	387.4	59.43	7.518		
9,000.0	7,130.0	9,219.3	7,350.0	36.4	35.2	119.41	1,757.5	-223.1	448.0	385.7	62.30	7.192		
9,100.0	7,130.0	9,319.3	7,350.0	38.0	36.9	119.32	1,857.5	-223.1	449.3	384.1	65.19	6.892		
9,200.0	7,130.0	9,419.3	7,350.0	39.6	38.5	119.24	1,957.5	-223.1	450.5	382.4	68.10	6.615		
9,300.0	7,130.0	9,519.3	7,350.0	41.2	40.1	119.15	2,057.5	-223.1	451.7	380.7	71.03	6.359		
9,400.0	7,130.0	9,619.3	7,350.0	42.8	41.8	119.06	2,157.5	-223.1	452.9	378.9	73.99	6.121		
9,500.0	7,130.0	9,719.3	7,350.0	44.5	43.5	118.98	2,257.5	-223.1	454.1	377.2	76.96	5.901		
9,600.0	7,130.0	9,819.3	7,350.0	46.1	45.1	118.89	2,357.4	-223.1	455.4	375.4	79.95	5.696		
9,700.0	7,130.0	9,919.2	7,350.0	47.8	46.8	118.81	2,457.4	-223.1	456.6	373.6	82.95	5.504		
9,800.0	7,130.0	10,019.2	7,350.0	49.4	48.5	118.72	2,557.4	-223.1	457.8	371.8	85.97	5.325		
9,900.0	7,130.0	10,119.2	7,350.0	51.1	50.2	118.64	2,657.4	-223.1	459.0	370.0	89.00	5.158		
10,000.0	7,130.0	10,219.2	7,350.0	52.7	51.9	118.56	2,757.4	-223.1	460.3	368.2	92.04	5.001		
10,100.0	7,130.0	10,319.2	7,350.0	54.4	53.6	118.47	2,857.4	-223.1	461.5	366.4	95.09	4.853		
10,200.0	7,130.0	10,419.2	7,350.0	56.1	55.3	118.39	2,957.4	-223.1	462.7	364.6	98.15	4.714		
10,300.0	7,130.0	10,519.2	7,350.0	57.8	57.0	118.31	3,057.4	-223.1	463.9	362.7	101.23	4.583		

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 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
10,400.0	7,130.0	10,619.2	7,350.0	59.4	58.7	118.23	3,157.4	-223.1	465.2	360.9	104.31	4.459						
10,500.0	7,130.0	10,719.2	7,350.0	61.1	60.4	118.15	3,257.4	-223.1	466.4	359.0	107.40	4.343						
10,600.0	7,130.0	10,819.2	7,350.0	62.8	62.1	118.07	3,357.3	-223.1	467.6	357.1	110.50	4.232						
10,700.0	7,130.0	10,919.2	7,350.0	64.5	63.8	117.99	3,457.3	-223.1	468.9	355.3	113.61	4.127						
10,800.0	7,130.0	11,019.1	7,350.0	66.2	65.5	117.91	3,557.3	-223.1	470.1	353.4	116.72	4.027						
10,900.0	7,130.0	11,119.1	7,350.0	67.9	67.2	117.83	3,657.3	-223.1	471.3	351.5	119.84	3.933						
11,000.0	7,130.0	11,219.1	7,350.0	69.6	68.9	117.75	3,757.3	-223.1	472.6	349.6	122.97	3.843						
11,100.0	7,130.0	11,319.1	7,350.0	71.3	70.7	117.67	3,857.3	-223.1	473.8	347.7	126.11	3.757						
11,200.0	7,130.0	11,406.6	7,350.0	73.0	72.2	117.53	3,944.8	-221.9	476.3	347.2	129.13	3.689						
11,300.0	7,130.0	11,502.3	7,350.0	74.8	73.8	117.26	4,040.4	-218.2	480.9	348.5	132.43	3.632						
11,400.0	7,130.0	11,602.2	7,350.0	76.5	75.5	116.97	4,140.2	-214.3	485.7	349.8	135.82	3.576						
11,500.0	7,130.0	11,702.1	7,350.0	78.2	77.3	116.69	4,240.0	-210.4	490.4	351.2	139.22	3.523						
11,582.3	7,130.0	11,784.3	7,350.0	79.6	78.7	116.46	4,322.1	-207.1	494.3	352.3	142.03	3.481 SF						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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	89.96	0.0	22.6	22.6					
100.0	100.0	100.0	100.0	0.2	0.2	89.96	0.0	22.6	22.6	22.3	0.30	74.531		
200.0	200.0	200.0	200.0	0.3	0.3	89.96	0.0	22.6	22.6	22.0	0.65	34.675		
300.0	300.0	300.0	300.0	0.5	0.5	89.96	0.0	22.6	22.6	21.6	1.00	22.593		
400.0	400.0	400.0	400.0	0.7	0.7	89.96	0.0	22.6	22.6	21.3	1.35	16.755 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-144.92	0.0	22.6	23.3	21.6	1.70	13.731		
600.0	600.0	600.0	600.0	1.0	1.0	-148.28	0.0	22.6	25.5	23.5	2.05	12.456		
700.0	699.9	699.9	699.9	1.2	1.2	-152.75	0.0	22.6	29.3	26.9	2.40	12.224		
800.0	799.7	799.7	799.7	1.4	1.4	-157.32	0.0	22.6	34.9	32.1	2.75	12.687		
900.0	899.4	899.4	899.4	1.6	1.5	-161.41	0.0	22.6	42.2	39.1	3.10	13.634		
1,000.0	998.9	998.9	998.9	1.8	1.7	-164.79	0.0	22.6	51.4	48.0	3.44	14.929		
1,100.0	1,098.3	1,098.3	1,098.3	2.1	1.9	-167.45	0.0	22.6	62.1	58.3	3.79	16.398		
1,200.0	1,197.7	1,197.7	1,197.7	2.3	2.1	-169.37	0.0	22.6	73.1	69.0	4.14	17.680		
1,300.0	1,297.0	1,297.0	1,297.0	2.6	2.2	-170.78	0.0	22.6	84.2	79.7	4.48	18.777		
1,400.0	1,396.4	1,396.4	1,396.4	2.8	2.4	-171.86	0.0	22.6	95.3	90.5	4.83	19.725		
1,500.0	1,495.8	1,495.8	1,495.8	3.1	2.6	-172.71	0.0	22.6	106.4	101.3	5.18	20.551		
1,600.0	1,595.1	1,595.1	1,595.1	3.3	2.8	-173.41	0.0	22.6	117.6	112.1	5.53	21.277		
1,700.0	1,694.5	1,694.5	1,694.5	3.6	2.9	-173.98	0.0	22.6	128.8	122.9	5.87	21.920		
1,800.0	1,793.9	1,793.9	1,793.9	3.8	3.1	-174.46	0.0	22.6	139.9	133.7	6.22	22.492		
1,900.0	1,893.2	1,893.2	1,893.2	4.1	3.3	-174.87	0.0	22.6	151.1	144.5	6.57	23.005		
2,000.0	1,992.6	1,993.8	1,993.8	4.3	3.5	-174.99	-0.7	22.7	162.0	155.0	6.92	23.409		
2,100.0	2,092.0	2,094.6	2,094.5	4.6	3.6	-174.56	-3.3	22.9	172.0	164.8	7.27	23.657		
2,200.0	2,191.3	2,195.5	2,195.3	4.9	3.8	-173.67	-7.6	23.3	181.3	173.7	7.63	23.770		
2,300.0	2,290.7	2,296.4	2,296.1	5.1	4.0	-172.38	-13.6	23.8	190.0	182.0	7.99	23.767		
2,400.0	2,390.1	2,397.2	2,396.6	5.4	4.2	-170.74	-21.5	24.4	198.0	189.7	8.37	23.663		
2,500.0	2,489.4	2,497.4	2,496.3	5.6	4.4	-168.82	-30.8	25.2	205.7	196.9	8.76	23.491		
2,600.0	2,588.8	2,596.9	2,595.4	5.9	4.6	-167.00	-40.3	26.0	213.5	204.3	9.15	23.328		
2,700.0	2,688.2	2,696.4	2,694.4	6.2	4.8	-165.31	-49.8	26.8	221.5	211.9	9.55	23.181		
2,800.0	2,787.5	2,795.8	2,793.4	6.4	5.0	-163.73	-59.3	27.6	229.6	219.7	9.96	23.046		
2,900.0	2,886.9	2,895.3	2,892.4	6.7	5.2	-162.26	-68.8	28.4	237.9	227.6	10.38	22.924		
3,000.0	2,986.3	2,994.8	2,991.4	6.9	5.4	-160.90	-78.3	29.2	246.4	235.6	10.80	22.812		
3,100.0	3,085.6	3,094.2	3,090.4	7.2	5.6	-159.62	-87.8	30.0	255.0	243.8	11.23	22.710		
3,200.0	3,185.0	3,193.7	3,189.5	7.5	5.8	-158.43	-97.3	30.8	263.7	252.1	11.66	22.617		
3,300.0	3,284.4	3,293.2	3,288.5	7.7	6.0	-157.32	-106.8	31.6	272.6	260.5	12.10	22.532		
3,400.0	3,383.7	3,392.7	3,387.5	8.0	6.3	-156.27	-116.3	32.4	281.5	268.9	12.54	22.454		
3,500.0	3,483.1	3,492.1	3,486.5	8.2	6.5	-155.29	-125.7	33.2	290.5	277.5	12.98	22.383		
3,600.0	3,582.5	3,591.6	3,585.5	8.5	6.7	-154.37	-135.2	34.0	299.6	286.1	13.42	22.318		
3,700.0	3,681.8	3,691.1	3,684.5	8.8	6.9	-153.50	-144.7	34.8	308.7	294.9	13.87	22.258		
3,800.0	3,781.2	3,790.6	3,783.6	9.0	7.2	-152.68	-154.2	35.6	318.0	303.6	14.32	22.204		
3,900.0	3,880.6	3,890.0	3,882.6	9.3	7.4	-151.91	-163.7	36.4	327.2	312.5	14.77	22.154		
4,000.0	3,979.9	3,989.5	3,981.6	9.6	7.6	-151.18	-173.2	37.2	336.6	321.4	15.22	22.108		
4,100.0	4,079.3	4,089.0	4,080.6	9.8	7.8	-150.49	-182.7	38.0	346.0	330.3	15.68	22.066		
4,200.0	4,178.7	4,188.5	4,179.6	10.1	8.1	-149.84	-192.2	38.8	355.4	339.3	16.14	22.027		
4,300.0	4,278.0	4,287.9	4,278.6	10.3	8.3	-149.22	-201.7	39.6	364.9	348.3	16.59	21.992		
4,400.0	4,377.4	4,387.4	4,377.7	10.6	8.5	-148.63	-211.2	40.4	374.4	357.4	17.05	21.960		
4,500.0	4,476.8	4,486.9	4,476.7	10.9	8.7	-148.08	-220.7	41.2	384.0	366.5	17.51	21.930		
4,600.0	4,576.2	4,586.4	4,575.7	11.1	9.0	-147.55	-230.2	42.0	393.6	375.6	17.97	21.903		
4,700.0	4,675.5	4,685.8	4,674.7	11.4	9.2	-147.04	-239.7	42.8	403.2	384.8	18.43	21.878		
4,800.0	4,774.9	4,785.3	4,773.7	11.6	9.4	-146.56	-249.2	43.6	412.9	394.0	18.89	21.855		
4,900.0	4,874.3	4,884.8	4,872.7	11.9	9.7	-146.10	-258.7	44.4	422.5	403.2	19.35	21.834		
5,000.0	4,973.6	4,984.2	4,971.8	12.2	9.9	-145.66	-268.2	45.2	432.3	412.4	19.81	21.814		
5,100.0	5,073.0	5,083.7	5,070.8	12.4	10.1	-145.24	-277.7	46.0	442.0	421.7	20.28	21.797		

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 4C-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 4C-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		
5,200.0	5,172.4	5,183.2	5,169.8	12.7	10.4	-144.83	-287.2	46.8	451.7	431.0	20.74	21.780		
5,300.0	5,271.7	5,282.7	5,268.8	13.0	10.6	-144.45	-296.7	47.6	461.5	440.3	21.20	21.765		
5,400.0	5,371.1	5,382.1	5,367.8	13.2	10.8	-144.08	-306.2	48.4	471.3	449.7	21.67	21.751		
5,500.0	5,470.5	5,481.6	5,466.8	13.5	11.1	-143.73	-315.7	49.2	481.1	459.0	22.13	21.739		
5,600.0	5,569.8	5,581.1	5,565.8	13.7	11.3	-143.39	-325.1	50.0	491.0	468.4	22.60	21.727		
5,700.0	5,669.2	5,680.6	5,664.9	14.0	11.5	-143.06	-334.6	50.8	500.8	477.8	23.06	21.716		
5,800.0	5,768.6	5,780.0	5,763.9	14.3	11.8	-142.74	-344.1	51.6	510.7	487.2	23.53	21.706		
5,900.0	5,867.9	5,879.5	5,862.9	14.5	12.0	-142.44	-353.6	52.4	520.6	496.6	23.99	21.697		
6,000.0	5,967.3	5,979.0	5,961.9	14.8	12.2	-142.15	-363.1	53.2	530.5	506.0	24.46	21.689		
6,100.0	6,066.7	6,078.5	6,060.9	15.1	12.5	-141.87	-372.6	54.0	540.4	515.4	24.92	21.681		
6,200.0	6,166.0	6,177.9	6,159.9	15.3	12.7	-141.60	-382.1	54.8	550.3	524.9	25.39	21.674		
6,300.0	6,265.4	6,277.4	6,259.0	15.6	12.9	-141.34	-391.6	55.6	560.2	534.4	25.85	21.668		
6,400.0	6,364.8	6,377.3	6,358.4	15.8	13.2	-141.10	-401.0	56.4	570.2	543.8	26.31	21.667		
6,500.0	6,464.3	6,480.1	6,461.1	16.0	13.3	146.80	-401.6	57.2	580.1	553.6	26.50	21.891		
6,600.0	6,562.8	6,582.9	6,562.8	16.1	13.3	116.01	-387.5	58.1	590.1	563.7	26.43	22.329		
6,700.0	6,658.6	6,685.6	6,661.4	16.2	13.2	106.12	-359.0	58.9	600.0	573.9	26.16	22.937		
6,800.0	6,749.6	6,788.3	6,754.9	16.1	13.0	101.20	-316.8	59.6	609.7	583.9	25.77	23.656		
6,900.0	6,834.2	6,890.8	6,841.3	16.1	12.8	98.11	-261.6	60.3	618.8	593.5	25.36	24.402		
7,000.0	6,910.6	6,993.2	6,918.8	16.0	12.6	95.90	-194.9	60.9	627.3	602.3	25.03	25.060		
7,100.0	6,977.4	7,095.5	6,985.9	16.1	12.5	94.21	-117.8	61.5	635.0	610.1	24.91	25.494		
7,200.0	7,033.3	7,197.5	7,041.3	16.2	12.6	92.87	-32.2	61.9	641.6	616.6	25.09	25.578		
7,300.0	7,077.2	7,299.3	7,083.9	16.4	12.8	91.80	60.1	62.3	647.2	621.6	25.65	25.238		
7,400.0	7,108.3	7,400.8	7,112.9	16.8	13.3	90.96	157.3	62.5	651.6	625.0	26.62	24.483		
7,500.0	7,125.9	7,502.0	7,127.8	17.4	14.0	90.32	257.2	62.6	654.7	626.7	27.97	23.404		
7,600.0	7,130.0	7,602.4	7,130.0	18.1	14.8	90.00	357.6	62.6	656.5	626.8	29.67	22.123		
7,700.0	7,130.0	7,702.4	7,130.0	19.0	15.8	90.00	457.6	62.6	657.9	626.2	31.70	20.753		
7,800.0	7,130.0	7,802.4	7,130.0	19.9	17.0	90.00	557.6	62.6	659.3	625.3	33.97	19.408		
7,900.0	7,130.0	7,902.4	7,130.0	21.0	18.2	90.00	657.6	62.6	660.7	624.3	36.44	18.133		
8,000.0	7,130.0	8,002.4	7,130.0	22.2	19.5	90.00	757.6	62.6	662.1	623.0	39.06	16.950		
8,100.0	7,130.0	8,102.4	7,130.0	23.4	20.9	90.00	857.6	62.6	663.5	621.7	41.82	15.867		
8,200.0	7,130.0	8,202.4	7,130.0	24.7	22.3	90.00	957.6	62.6	664.9	620.2	44.68	14.882		
8,300.0	7,130.0	8,302.3	7,130.0	26.0	23.8	90.00	1,057.6	62.6	666.3	618.7	47.62	13.990		
8,400.0	7,130.0	8,402.3	7,130.0	27.4	25.3	90.00	1,157.6	62.6	667.7	617.0	50.64	13.184		
8,500.0	7,130.0	8,502.3	7,130.0	28.9	26.8	90.00	1,257.5	62.6	669.1	615.3	53.72	12.454		
8,600.0	7,130.0	8,602.3	7,130.0	30.3	28.4	90.00	1,357.5	62.6	670.5	613.6	56.85	11.794		
8,700.0	7,130.0	8,702.3	7,130.0	31.8	30.0	90.00	1,457.5	62.6	671.9	611.8	60.02	11.194		
8,800.0	7,130.0	8,802.3	7,130.0	33.3	31.6	90.00	1,557.5	62.6	673.3	610.0	63.23	10.648		
8,900.0	7,130.0	8,902.3	7,130.0	34.9	33.2	90.00	1,657.5	62.6	674.7	608.2	66.46	10.151		
9,000.0	7,130.0	9,002.3	7,130.0	36.4	34.8	90.00	1,757.5	62.6	676.1	606.3	69.73	9.696		
9,100.0	7,130.0	9,102.3	7,130.0	38.0	36.4	90.00	1,857.5	62.6	677.4	604.4	73.01	9.279		
9,200.0	7,130.0	9,202.3	7,130.0	39.6	38.1	90.00	1,957.5	62.6	678.8	602.5	76.32	8.895		
9,300.0	7,130.0	9,302.2	7,130.0	41.2	39.8	90.00	2,057.5	62.6	680.2	600.6	79.64	8.542		
9,400.0	7,130.0	9,410.0	7,130.0	42.8	41.6	90.00	2,165.2	62.3	681.3	598.2	83.11	8.198		
9,500.0	7,130.0	9,514.4	7,130.0	44.5	43.3	90.00	2,269.6	60.5	681.0	594.5	86.53	7.870		
9,600.0	7,130.0	9,614.4	7,130.0	46.1	45.0	90.00	2,369.6	58.7	680.6	590.7	89.90	7.571		
9,700.0	7,130.0	9,714.4	7,130.0	47.8	46.7	90.00	2,469.6	56.9	680.2	587.0	93.27	7.293		
9,800.0	7,130.0	9,814.4	7,130.0	49.4	48.4	90.00	2,569.6	55.2	679.8	583.2	96.66	7.034		
9,900.0	7,130.0	9,914.4	7,130.0	51.1	50.1	90.00	2,669.6	53.4	679.5	579.4	100.05	6.791		
10,000.0	7,130.0	10,014.4	7,130.0	52.7	51.8	90.00	2,769.5	51.6	679.1	575.6	103.45	6.564		
10,100.0	7,130.0	10,114.4	7,130.0	54.4	53.5	90.00	2,869.5	49.8	678.7	571.8	106.86	6.351		
10,200.0	7,130.0	10,214.4	7,130.0	56.1	55.2	90.00	2,969.5	48.0	678.3	568.0	110.27	6.151		
10,300.0	7,130.0	10,314.4	7,130.0	57.8	56.9	90.00	3,069.5	46.2	677.9	564.2	113.69	5.963		

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 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,130.0	10,414.4	7,130.0	59.4	58.6	90.00	3,169.5	44.4	677.5	560.4	117.12	5.785		
10,500.0	7,130.0	10,514.4	7,130.0	61.1	60.3	90.00	3,269.5	42.6	677.1	556.6	120.55	5.617		
10,600.0	7,130.0	10,614.4	7,130.0	62.8	62.0	90.00	3,369.4	40.8	676.7	552.7	123.98	5.458		
10,700.0	7,130.0	10,714.4	7,130.0	64.5	63.7	90.00	3,469.4	39.1	676.3	548.9	127.42	5.308		
10,800.0	7,130.0	10,814.4	7,130.0	66.2	65.5	90.00	3,569.4	37.3	675.9	545.1	130.86	5.165		
10,900.0	7,130.0	10,914.4	7,130.0	67.9	67.2	90.00	3,669.4	35.5	675.5	541.2	134.31	5.030		
11,000.0	7,130.0	11,014.4	7,130.0	69.6	68.9	90.00	3,769.4	33.7	675.1	537.4	137.75	4.901		
11,100.0	7,130.0	11,114.4	7,130.0	71.3	70.6	90.00	3,869.4	31.9	674.8	533.5	141.21	4.778		
11,200.0	7,130.0	11,214.4	7,130.0	73.0	72.4	90.00	3,969.3	30.1	674.4	529.7	144.66	4.662		
11,300.0	7,130.0	11,314.4	7,130.0	74.8	74.1	90.00	4,069.3	28.3	674.0	525.8	148.12	4.550		
11,400.0	7,130.0	11,414.4	7,130.0	76.5	75.8	90.00	4,169.3	26.5	673.6	522.0	151.58	4.444		
11,500.0	7,130.0	11,514.4	7,130.0	78.2	77.5	90.00	4,269.3	24.8	673.2	518.1	155.04	4.342		
11,582.3	7,130.0	11,596.7	7,130.0	79.6	79.0	90.00	4,351.6	23.3	672.9	515.0	157.89	4.262 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	89.98	0.0	29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	89.98	0.0	29.9	29.9	29.6	0.30	98.454		
200.0	200.0	200.0	200.0	0.3	0.3	89.98	0.0	29.9	29.9	29.2	0.65	45.805		
300.0	300.0	300.0	300.0	0.5	0.5	89.98	0.0	29.9	29.9	28.9	1.00	29.845		
400.0	400.0	400.0	400.0	0.7	0.7	89.98	0.0	29.9	29.9	28.5	1.35	22.133 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-144.59	0.0	29.9	30.6	28.9	1.70	18.004		
600.0	600.0	600.0	600.0	1.0	1.0	-147.23	0.0	29.9	32.8	30.7	2.05	15.991		
700.0	699.9	699.9	699.9	1.2	1.2	-150.92	0.0	29.9	36.5	34.1	2.40	15.218		
800.0	799.7	799.5	799.5	1.4	1.4	-153.79	-0.8	30.3	42.2	39.4	2.75	15.329		
900.0	899.4	899.0	899.0	1.6	1.5	-154.84	-3.1	31.3	49.8	46.7	3.10	16.053		
1,000.0	998.9	998.3	998.2	1.8	1.7	-154.65	-7.1	33.1	59.5	56.0	3.47	17.161		
1,100.0	1,098.3	1,097.6	1,097.3	2.1	1.9	-153.80	-12.4	35.5	70.8	67.0	3.84	18.451		
1,200.0	1,197.7	1,196.9	1,196.4	2.3	2.1	-153.06	-18.0	38.0	82.3	78.1	4.22	19.535		
1,300.0	1,297.0	1,296.2	1,295.5	2.6	2.3	-152.51	-23.7	40.5	93.9	89.3	4.60	20.425		
1,400.0	1,396.4	1,395.5	1,394.7	2.8	2.5	-152.08	-29.3	43.0	105.5	100.5	4.98	21.166		
1,500.0	1,495.8	1,494.9	1,493.8	3.1	2.7	-151.73	-34.9	45.5	117.1	111.7	5.37	21.792		
1,600.0	1,595.1	1,594.2	1,592.9	3.3	2.9	-151.45	-40.5	48.0	128.7	122.9	5.76	22.327		
1,700.0	1,694.5	1,693.5	1,692.1	3.6	3.1	-151.21	-46.1	50.5	140.2	134.1	6.15	22.788		
1,800.0	1,793.9	1,792.8	1,791.2	3.8	3.3	-151.01	-51.7	53.0	151.8	145.3	6.55	23.190		
1,900.0	1,893.2	1,892.2	1,890.3	4.1	3.5	-150.84	-57.3	55.5	163.4	156.5	6.94	23.543		
2,000.0	1,992.6	1,991.5	1,989.5	4.3	3.7	-150.69	-62.9	58.0	175.0	167.7	7.34	23.855		
2,100.0	2,092.0	2,090.8	2,088.6	4.6	3.9	-150.56	-68.5	60.5	186.6	178.9	7.73	24.133		
2,200.0	2,191.3	2,190.1	2,187.7	4.9	4.1	-150.44	-74.2	63.1	198.2	190.1	8.13	24.382		
2,300.0	2,290.7	2,289.5	2,286.9	5.1	4.3	-150.34	-79.8	65.6	209.8	201.3	8.53	24.606		
2,400.0	2,390.1	2,388.8	2,386.0	5.4	4.5	-150.25	-85.4	68.1	221.4	212.5	8.92	24.809		
2,500.0	2,489.4	2,488.1	2,485.1	5.6	4.7	-150.16	-91.0	70.6	233.0	223.6	9.32	24.994		
2,600.0	2,588.8	2,587.4	2,584.3	5.9	4.9	-150.09	-96.6	73.1	244.6	234.8	9.72	25.163		
2,700.0	2,688.2	2,686.8	2,683.4	6.2	5.1	-150.02	-102.2	75.6	256.2	246.0	10.12	25.317		
2,800.0	2,787.5	2,786.1	2,782.5	6.4	5.3	-149.96	-107.8	78.1	267.8	257.2	10.52	25.459		
2,900.0	2,886.9	2,885.4	2,881.7	6.7	5.5	-149.90	-113.4	80.6	279.3	268.4	10.92	25.591		
3,000.0	2,986.3	2,984.7	2,980.8	6.9	5.7	-149.85	-119.0	83.1	290.9	279.6	11.32	25.712		
3,100.0	3,085.6	3,084.1	3,079.9	7.2	5.9	-149.80	-124.7	85.6	302.5	290.8	11.72	25.825		
3,200.0	3,185.0	3,183.4	3,179.1	7.5	6.1	-149.76	-130.3	88.1	314.1	302.0	12.11	25.929		
3,300.0	3,284.4	3,282.7	3,278.2	7.7	6.3	-149.71	-135.9	90.7	325.7	313.2	12.51	26.027		
3,400.0	3,383.7	3,382.0	3,377.3	8.0	6.5	-149.67	-141.5	93.2	337.3	324.4	12.92	26.119		
3,500.0	3,483.1	3,481.4	3,476.5	8.2	6.7	-149.64	-147.1	95.7	348.9	335.6	13.32	26.205		
3,600.0	3,582.5	3,580.7	3,575.6	8.5	6.9	-149.60	-152.7	98.2	360.5	346.8	13.72	26.285		
3,700.0	3,681.8	3,680.0	3,674.8	8.8	7.1	-149.57	-158.3	100.7	372.1	358.0	14.12	26.361		
3,800.0	3,781.2	3,779.3	3,773.9	9.0	7.3	-149.54	-163.9	103.2	383.7	369.2	14.52	26.432		
3,900.0	3,880.6	3,878.7	3,873.0	9.3	7.5	-149.51	-169.5	105.7	395.3	380.4	14.92	26.499		
4,000.0	3,979.9	3,978.0	3,972.2	9.6	7.7	-149.49	-175.2	108.2	406.9	391.6	15.32	26.563		
4,100.0	4,079.3	4,077.3	4,071.3	9.8	7.9	-149.46	-180.8	110.7	418.5	402.8	15.72	26.623		
4,200.0	4,178.7	4,176.6	4,170.4	10.1	8.1	-149.44	-186.4	113.2	430.1	414.0	16.12	26.680		
4,300.0	4,278.0	4,276.0	4,269.6	10.3	8.3	-149.42	-192.0	115.7	441.7	425.2	16.52	26.735		
4,400.0	4,377.4	4,375.3	4,368.7	10.6	8.5	-149.39	-197.6	118.2	453.3	436.4	16.92	26.786		
4,500.0	4,476.8	4,474.6	4,467.8	10.9	8.7	-149.37	-203.2	120.8	464.9	447.6	17.32	26.835		
4,600.0	4,576.2	4,573.9	4,567.0	11.1	8.9	-149.36	-208.8	123.3	476.5	458.8	17.73	26.882		
4,700.0	4,675.5	4,673.3	4,666.1	11.4	9.1	-149.34	-214.4	125.8	488.1	470.0	18.13	26.927		
4,800.0	4,774.9	4,772.6	4,765.2	11.6	9.3	-149.32	-220.0	128.3	499.7	481.2	18.53	26.969		
4,900.0	4,874.3	4,871.9	4,864.4	11.9	9.5	-149.30	-225.7	130.8	511.3	492.4	18.93	27.010		
5,000.0	4,973.6	4,971.2	4,963.5	12.2	9.7	-149.29	-231.3	133.3	522.9	503.5	19.33	27.049		
5,100.0	5,073.0	5,070.6	5,062.6	12.4	9.9	-149.27	-236.9	135.8	534.5	514.7	19.73	27.086		

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 4C-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 4C-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: 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	5,172.4	5,169.9	5,161.8	12.7	10.1	-149.26	-242.5	138.3	546.1	525.9	20.13	27.122		
5,300.0	5,271.7	5,269.2	5,260.9	13.0	10.4	-149.24	-248.1	140.8	557.7	537.1	20.54	27.157		
5,400.0	5,371.1	5,368.5	5,360.0	13.2	10.6	-149.23	-253.7	143.3	569.3	548.3	20.94	27.190		
5,500.0	5,470.5	5,467.9	5,459.2	13.5	10.8	-149.22	-259.3	145.8	580.9	559.5	21.34	27.221		
5,600.0	5,569.8	5,567.2	5,558.3	13.7	11.0	-149.20	-264.9	148.4	592.5	570.7	21.74	27.252		
5,700.0	5,669.2	5,666.5	5,657.4	14.0	11.2	-149.19	-270.5	150.9	604.1	581.9	22.14	27.281		
5,800.0	5,768.6	5,765.8	5,756.6	14.3	11.4	-149.18	-276.2	153.4	615.7	593.1	22.54	27.310		
5,900.0	5,867.9	5,865.2	5,855.7	14.5	11.6	-149.17	-281.8	155.9	627.3	604.3	22.95	27.337		
6,000.0	5,967.3	5,964.5	5,954.9	14.8	11.8	-149.16	-287.4	158.4	638.9	615.5	23.35	27.363		
6,100.0	6,066.7	6,063.8	6,054.0	15.1	12.0	-149.15	-293.0	160.9	650.5	626.7	23.75	27.389		
6,200.0	6,166.0	6,163.1	6,153.1	15.3	12.2	-149.14	-298.6	163.4	662.1	637.9	24.15	27.413		
6,300.0	6,265.4	6,262.5	6,252.3	15.6	12.4	-149.13	-304.2	165.9	673.7	649.1	24.55	27.437		
6,400.0	6,364.8	6,361.8	6,351.4	15.8	12.6	-149.12	-309.8	168.4	685.2	660.3	24.95	27.460		
6,500.0	6,464.3	6,460.3	6,449.8	16.0	12.8	139.23	-315.4	170.9	696.4	671.1	25.27	27.556		
6,600.0	6,562.8	6,550.0	6,539.3	16.1	12.9	109.40	-314.1	173.2	707.1	681.7	25.42	27.811		
6,700.0	6,658.6	6,644.2	6,632.5	16.2	12.9	100.59	-300.6	175.5	717.8	692.4	25.41	28.246		
6,800.0	6,749.6	6,738.5	6,723.1	16.1	12.9	96.82	-275.1	177.8	728.4	703.2	25.28	28.820		
6,900.0	6,834.2	6,834.5	6,811.2	16.1	12.8	94.92	-237.1	180.1	738.7	713.7	25.07	29.463		
7,000.0	6,910.6	6,932.6	6,895.1	16.0	12.7	93.94	-186.4	182.2	748.5	723.6	24.89	30.076		
7,100.0	6,977.4	7,032.9	6,972.9	16.1	12.7	93.50	-123.3	184.2	757.7	732.9	24.82	30.525		
7,200.0	7,033.3	7,135.6	7,042.6	16.2	12.7	93.40	-48.0	185.9	766.0	741.0	24.98	30.659		
7,300.0	7,077.2	7,240.8	7,102.2	16.4	13.0	93.55	38.6	187.4	773.2	747.7	25.48	30.346		
7,400.0	7,108.3	7,348.6	7,149.3	16.8	13.4	93.89	135.3	188.6	779.2	752.8	26.39	29.529		
7,500.0	7,125.9	7,458.8	7,182.0	17.4	14.1	94.37	240.5	189.4	783.7	756.0	27.75	28.243		
7,600.0	7,130.0	7,571.3	7,198.4	18.1	15.0	94.99	351.7	189.9	786.7	757.2	29.54	26.634		
7,700.0	7,130.0	7,677.3	7,200.0	19.0	16.0	95.10	457.6	189.9	788.3	756.7	31.61	24.935		
7,800.0	7,130.0	7,777.3	7,200.0	19.9	17.2	95.09	557.6	189.9	789.7	755.8	33.87	23.313		
7,900.0	7,130.0	7,877.3	7,200.0	21.0	18.4	95.08	657.6	189.9	791.1	754.7	36.33	21.776		
8,000.0	7,130.0	7,977.2	7,200.0	22.2	19.7	95.07	757.6	189.9	792.5	753.5	38.94	20.350		
8,100.0	7,130.0	8,077.2	7,200.0	23.4	21.0	95.06	857.6	189.9	793.8	752.2	41.68	19.045		
8,200.0	7,130.0	8,177.2	7,200.0	24.7	22.5	95.05	957.6	189.9	795.2	750.7	44.53	17.858		
8,300.0	7,130.0	8,277.2	7,200.0	26.0	23.9	95.04	1,057.6	189.9	796.6	749.2	47.47	16.783		
8,400.0	7,130.0	8,377.2	7,200.0	27.4	25.4	95.03	1,157.6	189.9	798.0	747.5	50.47	15.811		
8,500.0	7,130.0	8,477.2	7,200.0	28.9	26.9	95.02	1,257.5	189.9	799.4	745.9	53.54	14.931		
8,600.0	7,130.0	8,577.2	7,200.0	30.3	28.5	95.02	1,357.5	189.9	800.8	744.1	56.66	14.135		
8,700.0	7,130.0	8,677.2	7,200.0	31.8	30.1	95.01	1,457.5	189.9	802.2	742.4	59.81	13.411		
8,800.0	7,130.0	8,777.2	7,200.0	33.3	31.7	95.00	1,557.5	189.9	803.6	740.6	63.01	12.754		
8,900.0	7,130.0	8,877.2	7,200.0	34.9	33.3	94.99	1,657.5	189.9	805.0	738.7	66.23	12.154		
9,000.0	7,130.0	8,977.1	7,200.0	36.4	34.9	94.98	1,757.5	189.9	806.4	736.9	69.48	11.605		
9,100.0	7,130.0	9,077.1	7,200.0	38.0	36.5	94.97	1,857.5	189.9	807.8	735.0	72.76	11.102		
9,200.0	7,130.0	9,177.1	7,200.0	39.6	38.2	94.96	1,957.5	189.9	809.1	733.1	76.05	10.640		
9,300.0	7,130.0	9,277.1	7,200.0	41.2	39.9	94.95	2,057.5	189.9	810.5	731.2	79.36	10.213		
9,400.0	7,130.0	9,377.1	7,200.0	42.8	41.5	94.95	2,157.5	189.9	811.9	729.2	82.69	9.819		
9,500.0	7,130.0	9,477.1	7,200.0	44.5	43.2	94.94	2,257.5	189.9	813.3	727.3	86.03	9.454		
9,600.0	7,130.0	9,577.1	7,200.0	46.1	44.9	94.93	2,357.4	189.9	814.7	725.3	89.38	9.115		
9,700.0	7,130.0	9,677.1	7,200.0	47.8	46.6	94.92	2,457.4	189.9	816.1	723.4	92.74	8.800		
9,800.0	7,130.0	9,777.1	7,200.0	49.4	48.2	94.91	2,557.4	189.9	817.5	721.4	96.11	8.506		
9,900.0	7,130.0	9,877.1	7,200.0	51.1	49.9	94.90	2,657.4	189.9	818.9	719.4	99.49	8.231		
10,000.0	7,130.0	9,977.1	7,200.0	52.7	51.6	94.90	2,757.4	189.9	820.3	717.4	102.88	7.973		
10,100.0	7,130.0	10,077.0	7,200.0	54.4	53.3	94.89	2,857.4	189.9	821.7	715.4	106.28	7.731		
10,200.0	7,130.0	10,177.0	7,200.0	56.1	55.0	94.88	2,957.4	189.9	823.1	713.4	109.68	7.504		
10,300.0	7,130.0	10,277.0	7,200.0	57.8	56.7	94.87	3,057.4	189.9	824.4	711.4	113.09	7.290		

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 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S35-T3N-R67W (Kiyota) - Kiyota 4G-35H-O367 - Hz - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
10,400.0	7,130.0	10,377.0	7,200.0	59.4	58.5	94.86	3,157.4	189.9	825.8	709.3	116.50	7.089						
10,500.0	7,130.0	10,477.0	7,200.0	61.1	60.2	94.85	3,257.4	189.9	827.2	707.3	119.92	6.898						
10,600.0	7,130.0	10,577.0	7,200.0	62.8	61.9	94.85	3,357.3	189.9	828.6	705.3	123.34	6.718						
10,700.0	7,130.0	10,677.0	7,200.0	64.5	63.6	94.84	3,457.3	189.9	830.0	703.2	126.77	6.548						
10,800.0	7,130.0	10,769.7	7,200.0	66.2	65.2	94.83	3,550.1	190.1	831.6	701.6	130.07	6.394						
10,900.0	7,130.0	10,857.0	7,200.0	67.9	66.7	94.81	3,637.4	191.5	834.7	701.4	133.29	6.262						
11,000.0	7,130.0	10,944.2	7,200.0	69.6	68.2	94.79	3,724.5	194.3	839.2	702.7	136.51	6.148						
11,100.0	7,130.0	11,031.3	7,200.0	71.3	69.7	94.76	3,811.5	198.4	845.3	705.5	139.72	6.049						
11,200.0	7,130.0	11,118.2	7,200.0	73.0	71.2	94.72	3,898.2	203.7	852.8	709.9	142.94	5.966						
11,300.0	7,130.0	11,209.9	7,200.0	74.8	72.8	94.68	3,989.6	210.9	861.9	715.7	146.25	5.893						
11,400.0	7,130.0	11,303.6	7,200.0	76.5	74.4	94.63	4,083.0	218.9	871.8	722.2	149.59	5.828						
11,500.0	7,130.0	11,403.1	7,200.0	78.2	76.1	94.58	4,182.1	227.4	881.7	728.7	153.03	5.761						
11,582.3	7,130.0	11,485.0	7,200.0	79.6	77.5	94.53	4,263.8	234.4	889.8	734.0	155.87	5.709 SF						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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 (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	90.53	-0.3	37.4	37.4					
100.0	100.0	100.0	100.0	0.2	0.2	90.53	-0.3	37.4	37.4	37.1	0.30	123.303		
200.0	200.0	200.0	200.0	0.3	0.3	90.53	-0.3	37.4	37.4	36.8	0.65	57.366		
300.0	300.0	300.0	300.0	0.5	0.5	90.53	-0.3	37.4	37.4	36.4	1.00	37.378		
400.0	400.0	400.0	400.0	0.7	0.7	90.53	-0.3	37.4	37.4	36.1	1.35	27.719 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-143.86	-0.3	37.4	38.1	36.4	1.70	22.439		
600.0	600.0	600.0	600.0	1.0	1.0	-146.04	-0.3	37.4	40.3	38.2	2.05	19.657		
700.0	699.9	699.4	699.4	1.2	1.2	-148.30	-1.0	38.0	44.5	42.1	2.40	18.547 SF		
800.0	799.7	798.6	798.6	1.4	1.4	-149.57	-2.9	39.8	51.3	48.6	2.75	18.647		
900.0	899.4	897.6	897.5	1.6	1.6	-150.01	-6.0	42.7	60.7	57.6	3.11	19.513		
1,000.0	998.9	996.2	995.9	1.8	1.7	-149.90	-10.4	46.8	72.6	69.1	3.48	20.878		
1,100.0	1,098.3	1,094.4	1,093.8	2.1	1.9	-149.42	-15.9	52.0	86.8	82.9	3.86	22.510		
1,200.0	1,197.7	1,192.5	1,191.5	2.3	2.1	-148.42	-22.6	58.3	102.1	97.9	4.25	24.052		
1,300.0	1,297.0	1,291.3	1,289.8	2.6	2.4	-147.52	-29.7	64.9	117.7	113.1	4.64	25.355		
1,400.0	1,396.4	1,390.1	1,388.1	2.8	2.6	-146.83	-36.8	71.5	133.3	128.3	5.04	26.436		
1,500.0	1,495.8	1,488.8	1,486.4	3.1	2.8	-146.29	-43.9	78.1	149.0	143.5	5.45	27.345		
1,600.0	1,595.1	1,587.6	1,584.6	3.3	3.0	-145.85	-50.9	84.7	164.6	158.8	5.85	28.118		
1,700.0	1,694.5	1,686.3	1,682.9	3.6	3.3	-145.49	-58.0	91.3	180.3	174.0	6.26	28.783		
1,800.0	1,793.9	1,785.1	1,781.2	3.8	3.5	-145.18	-65.1	98.0	195.9	189.3	6.67	29.361		
1,900.0	1,893.2	1,883.9	1,879.5	4.1	3.7	-144.92	-72.1	104.6	211.6	204.5	7.08	29.866		
2,000.0	1,992.6	1,982.6	1,977.8	4.3	4.0	-144.70	-79.2	111.2	227.3	219.8	7.50	30.312		
2,100.0	2,092.0	2,081.4	2,076.1	4.6	4.2	-144.50	-86.3	117.8	242.9	235.0	7.91	30.708		
2,200.0	2,191.3	2,180.2	2,174.4	4.9	4.4	-144.33	-93.3	124.4	258.6	250.3	8.33	31.062		
2,300.0	2,290.7	2,278.9	2,272.6	5.1	4.7	-144.18	-100.4	131.0	274.3	265.5	8.74	31.381		
2,400.0	2,390.1	2,377.7	2,370.9	5.4	4.9	-144.04	-107.5	137.6	290.0	280.8	9.16	31.669		
2,500.0	2,489.4	2,476.4	2,469.2	5.6	5.1	-143.92	-114.5	144.2	305.6	296.1	9.57	31.930		
2,600.0	2,588.8	2,575.2	2,567.5	5.9	5.4	-143.81	-121.6	150.8	321.3	311.3	9.99	32.168		
2,700.0	2,688.2	2,674.0	2,665.8	6.2	5.6	-143.71	-128.7	157.4	337.0	326.6	10.41	32.386		
2,800.0	2,787.5	2,772.7	2,764.1	6.4	5.9	-143.62	-135.7	164.1	352.7	341.9	10.82	32.586		
2,900.0	2,886.9	2,871.5	2,862.4	6.7	6.1	-143.54	-142.8	170.7	368.4	357.1	11.24	32.771		
3,000.0	2,986.3	2,970.2	2,960.6	6.9	6.3	-143.46	-149.9	177.3	384.0	372.4	11.66	32.941		
3,100.0	3,085.6	3,069.0	3,058.9	7.2	6.6	-143.39	-156.9	183.9	399.7	387.7	12.08	33.100		
3,200.0	3,185.0	3,167.8	3,157.2	7.5	6.8	-143.33	-164.0	190.5	415.4	402.9	12.50	33.247		
3,300.0	3,284.4	3,266.5	3,255.5	7.7	7.0	-143.27	-171.1	197.1	431.1	418.2	12.91	33.384		
3,400.0	3,383.7	3,365.3	3,353.8	8.0	7.3	-143.21	-178.1	203.7	446.8	433.5	13.33	33.512		
3,500.0	3,483.1	3,464.0	3,452.1	8.2	7.5	-143.16	-185.2	210.3	462.5	448.7	13.75	33.632		
3,600.0	3,582.5	3,562.8	3,550.4	8.5	7.8	-143.11	-192.3	216.9	478.2	464.0	14.17	33.744		
3,700.0	3,681.8	3,661.6	3,648.6	8.8	8.0	-143.06	-199.3	223.5	493.8	479.3	14.59	33.850		
3,800.0	3,781.2	3,760.3	3,746.9	9.0	8.2	-143.02	-206.4	230.1	509.5	494.5	15.01	33.949		
3,900.0	3,880.6	3,859.1	3,845.2	9.3	8.5	-142.98	-213.5	236.8	525.2	509.8	15.43	34.043		
4,000.0	3,979.9	3,957.9	3,943.5	9.6	8.7	-142.94	-220.5	243.4	540.9	525.1	15.85	34.132		
4,100.0	4,079.3	4,056.6	4,041.8	9.8	9.0	-142.91	-227.6	250.0	556.6	540.3	16.27	34.216		
4,200.0	4,178.7	4,155.4	4,140.1	10.1	9.2	-142.87	-234.7	256.6	572.3	555.6	16.69	34.296		
4,300.0	4,278.0	4,254.1	4,238.4	10.3	9.4	-142.84	-241.7	263.2	588.0	570.9	17.11	34.371		
4,400.0	4,377.4	4,352.9	4,336.6	10.6	9.7	-142.81	-248.8	269.8	603.7	586.1	17.53	34.443		
4,500.0	4,476.8	4,451.7	4,434.9	10.9	9.9	-142.78	-255.9	276.4	619.4	601.4	17.95	34.511		
4,600.0	4,576.2	4,550.4	4,533.2	11.1	10.2	-142.76	-262.9	283.0	635.0	616.7	18.37	34.576		
4,700.0	4,675.5	4,649.2	4,631.5	11.4	10.4	-142.73	-270.0	289.6	650.7	631.9	18.79	34.638		
4,800.0	4,774.9	4,747.9	4,729.8	11.6	10.6	-142.70	-277.1	296.2	666.4	647.2	19.21	34.697		
4,900.0	4,874.3	4,846.7	4,828.1	11.9	10.9	-142.68	-284.1	302.9	682.1	662.5	19.63	34.754		
5,000.0	4,973.6	4,945.5	4,926.4	12.2	11.1	-142.66	-291.2	309.5	697.8	677.8	20.05	34.808		
5,100.0	5,073.0	5,044.2	5,024.6	12.4	11.4	-142.64	-298.3	316.1	713.5	693.0	20.47	34.860		

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 4C-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 4C-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	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Total	Separation		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Uncertainty Axis	Factor		
5,200.0	5,172.4	5,143.0	5,122.9	12.7	11.6	-142.62	-305.3	322.7	729.2	708.3	20.89	34.910		
5,300.0	5,271.7	5,241.8	5,221.2	13.0	11.8	-142.60	-312.4	329.3	744.9	723.6	21.31	34.957		
5,400.0	5,371.1	5,340.5	5,319.5	13.2	12.1	-142.58	-319.5	335.9	760.6	738.8	21.73	35.003		
5,500.0	5,470.5	5,439.3	5,417.8	13.5	12.3	-142.56	-326.5	342.5	776.2	754.1	22.15	35.047		
5,600.0	5,569.8	5,538.0	5,516.1	13.7	12.6	-142.54	-333.6	349.1	791.9	769.4	22.57	35.089		
5,700.0	5,669.2	5,636.8	5,614.4	14.0	12.8	-142.52	-340.7	355.7	807.6	784.6	22.99	35.130		
5,800.0	5,768.6	5,735.6	5,712.6	14.3	13.1	-142.51	-347.7	362.3	823.3	799.9	23.41	35.169		
5,900.0	5,867.9	5,834.3	5,810.9	14.5	13.3	-142.49	-354.8	368.9	839.0	815.2	23.83	35.207		
6,000.0	5,967.3	5,933.1	5,909.2	14.8	13.5	-142.48	-361.9	375.6	854.7	830.4	24.25	35.243		
6,100.0	6,066.7	6,031.8	6,007.5	15.1	13.8	-142.46	-369.0	382.2	870.4	845.7	24.67	35.278		
6,200.0	6,166.0	6,130.6	6,105.8	15.3	14.0	-142.45	-376.0	388.8	886.1	861.0	25.09	35.312		
6,300.0	6,265.4	6,229.4	6,204.1	15.6	14.3	-142.44	-383.1	395.4	901.8	876.3	25.51	35.345		
6,400.0	6,364.8	6,328.1	6,302.4	15.8	14.5	-142.42	-390.2	402.0	917.5	891.5	25.93	35.377		
6,500.0	6,464.3	6,426.6	6,400.3	16.0	14.7	145.44	-397.2	408.6	933.4	907.1	26.25	35.562		
6,600.0	6,562.8	6,523.1	6,496.4	16.1	15.0	115.38	-404.1	415.0	949.8	923.4	26.45	35.911		
6,700.0	6,658.6	6,616.3	6,589.2	16.2	15.2	106.84	-410.8	421.3	967.3	940.8	26.55	36.439		
6,800.0	6,749.6	6,720.4	6,692.9	16.1	15.4	103.69	-409.9	428.3	986.0	959.6	26.48	37.241		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.45	-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	148.146		
200.0	200.0	200.0	200.0	0.3	0.3	90.45	-0.4	45.0	45.0	44.3	0.65	68.924		
300.0	300.0	300.0	300.0	0.5	0.5	90.45	-0.4	45.0	45.0	44.0	1.00	44.908		
400.0	400.0	400.0	400.0	0.7	0.7	90.45	-0.4	45.0	45.0	43.6	1.35	33.304 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-143.81	-0.4	45.0	45.7	44.0	1.70	26.877		
600.0	600.0	599.3	599.3	1.0	1.0	-145.03	-0.8	45.7	48.5	46.5	2.05	23.688		
700.0	699.9	698.4	698.4	1.2	1.2	-146.03	-2.3	47.8	54.2	51.8	2.40	22.598 SF		
800.0	799.7	797.2	797.1	1.4	1.4	-146.74	-4.7	51.4	62.8	60.0	2.75	22.787		
900.0	899.4	895.6	895.3	1.6	1.6	-147.16	-8.0	56.3	74.1	71.0	3.11	23.796		
1,000.0	998.9	993.5	992.9	1.8	1.8	-147.37	-12.3	62.6	88.3	84.8	3.48	25.346		
1,100.0	1,098.3	1,090.9	1,089.8	2.1	2.0	-147.39	-17.5	70.2	105.0	101.1	3.86	27.197		
1,200.0	1,197.7	1,187.7	1,186.0	2.3	2.2	-147.00	-23.5	79.1	123.1	118.9	4.25	28.995		
1,300.0	1,297.0	1,284.3	1,281.9	2.6	2.5	-146.31	-30.5	89.3	142.6	137.9	4.64	30.722		
1,400.0	1,396.4	1,382.3	1,379.0	2.8	2.7	-145.66	-37.8	100.1	162.5	157.4	5.04	32.223		
1,500.0	1,495.8	1,480.3	1,476.1	3.1	3.0	-145.15	-45.2	110.9	182.4	177.0	5.45	33.487		
1,600.0	1,595.1	1,578.3	1,573.2	3.3	3.2	-144.74	-52.5	121.7	202.4	196.5	5.85	34.564		
1,700.0	1,694.5	1,676.3	1,670.3	3.6	3.5	-144.40	-59.8	132.5	222.3	216.1	6.26	35.493		
1,800.0	1,793.9	1,774.2	1,767.4	3.8	3.8	-144.12	-67.2	143.3	242.3	235.6	6.67	36.300		
1,900.0	1,893.2	1,872.2	1,864.5	4.1	4.1	-143.88	-74.5	154.1	262.2	255.1	7.09	37.007		
2,000.0	1,992.6	1,970.2	1,961.6	4.3	4.3	-143.68	-81.9	165.0	282.2	274.7	7.50	37.633		
2,100.0	2,092.0	2,068.2	2,058.7	4.6	4.6	-143.50	-89.2	175.8	302.2	294.3	7.91	38.189		
2,200.0	2,191.3	2,166.2	2,155.8	4.9	4.9	-143.35	-96.6	186.6	322.1	313.8	8.33	38.687		
2,300.0	2,290.7	2,264.1	2,252.9	5.1	5.2	-143.21	-103.9	197.4	342.1	333.4	8.74	39.135		
2,400.0	2,390.1	2,362.1	2,350.1	5.4	5.4	-143.09	-111.3	208.2	362.1	352.9	9.16	39.540		
2,500.0	2,489.4	2,460.1	2,447.2	5.6	5.7	-142.98	-118.6	219.0	382.1	372.5	9.57	39.909		
2,600.0	2,588.8	2,558.1	2,544.3	5.9	6.0	-142.88	-125.9	229.8	402.0	392.0	9.99	40.245		
2,700.0	2,688.2	2,656.1	2,641.4	6.2	6.3	-142.79	-133.3	240.6	422.0	411.6	10.41	40.553		
2,800.0	2,787.5	2,754.1	2,738.5	6.4	6.6	-142.71	-140.6	251.4	442.0	431.2	10.82	40.836		
2,900.0	2,886.9	2,852.0	2,835.6	6.7	6.8	-142.64	-148.0	262.2	462.0	450.7	11.24	41.097		
3,000.0	2,986.3	2,950.0	2,932.7	6.9	7.1	-142.57	-155.3	273.0	481.9	470.3	11.66	41.338		
3,100.0	3,085.6	3,048.0	3,029.8	7.2	7.4	-142.51	-162.7	283.8	501.9	489.9	12.08	41.562		
3,200.0	3,185.0	3,146.0	3,126.9	7.5	7.7	-142.45	-170.0	294.6	521.9	509.4	12.49	41.771		
3,300.0	3,284.4	3,244.0	3,224.0	7.7	8.0	-142.40	-177.4	305.5	541.9	529.0	12.91	41.965		
3,400.0	3,383.7	3,341.9	3,321.1	8.0	8.3	-142.35	-184.7	316.3	561.9	548.5	13.33	42.147		
3,500.0	3,483.1	3,439.9	3,418.2	8.2	8.5	-142.30	-192.0	327.1	581.9	568.1	13.75	42.317		
3,600.0	3,582.5	3,537.9	3,515.3	8.5	8.8	-142.26	-199.4	337.9	601.8	587.7	14.17	42.477		
3,700.0	3,681.8	3,635.9	3,612.4	8.8	9.1	-142.22	-206.7	348.7	621.8	607.2	14.59	42.627		
3,800.0	3,781.2	3,733.9	3,709.6	9.0	9.4	-142.18	-214.1	359.5	641.8	626.8	15.01	42.769		
3,900.0	3,880.6	3,831.9	3,806.7	9.3	9.7	-142.14	-221.4	370.3	661.8	646.4	15.43	42.902		
4,000.0	3,979.9	3,929.8	3,903.8	9.6	10.0	-142.11	-228.8	381.1	681.8	665.9	15.84	43.029		
4,100.0	4,079.3	4,027.8	4,000.9	9.8	10.2	-142.08	-236.1	391.9	701.8	685.5	16.26	43.148		
4,200.0	4,178.7	4,125.8	4,098.0	10.1	10.5	-142.05	-243.5	402.7	721.7	705.1	16.68	43.261		
4,300.0	4,278.0	4,223.8	4,195.1	10.3	10.8	-142.02	-250.8	413.5	741.7	724.6	17.10	43.369		
4,400.0	4,377.4	4,321.8	4,292.2	10.6	11.1	-141.99	-258.1	424.3	761.7	744.2	17.52	43.471		
4,500.0	4,476.8	4,419.8	4,389.3	10.9	11.4	-141.97	-265.5	435.1	781.7	763.8	17.94	43.569		
4,600.0	4,576.2	4,517.7	4,486.4	11.1	11.7	-141.94	-272.8	446.0	801.7	783.3	18.36	43.661		
4,700.0	4,675.5	4,615.7	4,583.5	11.4	12.0	-141.92	-280.2	456.8	821.7	802.9	18.78	43.750		
4,800.0	4,774.9	4,713.7	4,680.6	11.6	12.2	-141.90	-287.5	467.6	841.6	822.4	19.20	43.834		
4,900.0	4,874.3	4,811.7	4,777.7	11.9	12.5	-141.88	-294.9	478.4	861.6	842.0	19.62	43.915		
5,000.0	4,973.6	4,909.7	4,874.8	12.2	12.8	-141.86	-302.2	489.2	881.6	861.6	20.04	43.992		
5,100.0	5,073.0	5,007.6	4,971.9	12.4	13.1	-141.84	-309.6	500.0	901.6	881.1	20.46	44.066		

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 4C-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 4C-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						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis			
5,200.0	5,172.4	5,105.6	5,069.1	12.7	13.4	-141.82	-316.9	510.8	921.6	900.7	20.88	44.137		
5,300.0	5,271.7	5,203.6	5,166.2	13.0	13.7	-141.80	-324.2	521.6	941.6	920.3	21.30	44.206		
5,400.0	5,371.1	5,301.6	5,263.3	13.2	13.9	-141.79	-331.6	532.4	961.6	939.8	21.72	44.271		
5,500.0	5,470.5	5,399.6	5,360.4	13.5	14.2	-141.77	-338.9	543.2	981.5	959.4	22.14	44.334		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	90.40	-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	172.989		
200.0	200.0	200.0	200.0	0.3	0.3	90.40	-0.4	52.5	52.5	51.9	0.65	80.482		
300.0	300.0	300.0	300.0	0.5	0.5	90.40	-0.4	52.5	52.5	51.5	1.00	52.439		
400.0	400.0	400.0	400.0	0.7	0.7	90.40	-0.4	52.5	52.5	51.2	1.35	38.889 CC, ES		
500.0	500.0	499.2	499.2	0.9	0.8	-143.31	-0.8	53.3	54.0	52.3	1.70	31.782		
600.0	600.0	598.2	598.2	1.0	1.0	-143.57	-2.1	55.5	58.4	56.3	2.05	28.495		
700.0	699.9	697.0	696.9	1.2	1.2	-143.93	-4.2	59.2	65.6	63.2	2.40	27.345 SF		
800.0	799.7	795.5	795.2	1.4	1.4	-144.30	-7.1	64.4	75.8	73.0	2.76	27.497		
900.0	899.4	893.4	892.8	1.6	1.6	-144.65	-10.8	71.0	88.8	85.7	3.12	28.483		
1,000.0	998.9	990.7	989.7	1.8	1.8	-144.94	-15.4	79.0	104.7	101.2	3.49	30.019		
1,100.0	1,098.3	1,087.4	1,085.7	2.1	2.0	-145.17	-20.7	88.4	123.3	119.4	3.87	31.866		
1,200.0	1,197.7	1,183.4	1,181.0	2.3	2.3	-145.06	-26.7	99.1	143.3	139.1	4.26	33.681		
1,300.0	1,297.0	1,279.6	1,276.1	2.6	2.6	-144.70	-33.6	111.1	164.7	160.1	4.65	35.435		
1,400.0	1,396.4	1,377.1	1,372.6	2.8	2.8	-144.34	-40.7	123.7	186.5	181.5	5.05	36.937		
1,500.0	1,495.8	1,474.7	1,469.1	3.1	3.1	-144.07	-47.8	136.2	208.3	202.9	5.45	38.202		
1,600.0	1,595.1	1,572.3	1,565.7	3.3	3.4	-143.84	-54.9	148.8	230.1	224.2	5.86	39.280		
1,700.0	1,694.5	1,669.9	1,662.2	3.6	3.7	-143.65	-62.1	161.4	251.9	245.6	6.26	40.208		
1,800.0	1,793.9	1,767.5	1,758.7	3.8	4.0	-143.49	-69.2	174.0	273.7	267.0	6.67	41.014		
1,900.0	1,893.2	1,865.1	1,855.2	4.1	4.3	-143.36	-76.3	186.5	295.5	288.4	7.08	41.722		
2,000.0	1,992.6	1,962.7	1,951.7	4.3	4.6	-143.24	-83.4	199.1	317.3	309.8	7.49	42.347		
2,100.0	2,092.0	2,060.3	2,048.3	4.6	4.9	-143.14	-90.6	211.7	339.1	331.2	7.90	42.903		
2,200.0	2,191.3	2,157.9	2,144.8	4.9	5.2	-143.06	-97.7	224.3	360.9	352.6	8.32	43.401		
2,300.0	2,290.7	2,255.5	2,241.3	5.1	5.5	-142.98	-104.8	236.8	382.7	373.9	8.73	43.849		
2,400.0	2,390.1	2,353.1	2,337.8	5.4	5.8	-142.91	-111.9	249.4	404.5	395.3	9.14	44.254		
2,500.0	2,489.4	2,450.7	2,434.3	5.6	6.1	-142.84	-119.1	262.0	426.3	416.7	9.55	44.622		
2,600.0	2,588.8	2,548.3	2,530.8	5.9	6.4	-142.79	-126.2	274.6	448.1	438.1	9.97	44.958		
2,700.0	2,688.2	2,645.9	2,627.4	6.2	6.7	-142.74	-133.3	287.1	469.9	459.5	10.38	45.266		
2,800.0	2,787.5	2,743.5	2,723.9	6.4	7.0	-142.69	-140.4	299.7	491.7	480.9	10.79	45.549		
2,900.0	2,886.9	2,841.1	2,820.4	6.7	7.3	-142.65	-147.6	312.3	513.5	502.3	11.21	45.810		
3,000.0	2,986.3	2,938.6	2,916.9	6.9	7.6	-142.61	-154.7	324.8	535.3	523.7	11.62	46.052		
3,100.0	3,085.6	3,036.2	3,013.4	7.2	7.9	-142.57	-161.8	337.4	557.1	545.1	12.04	46.276		
3,200.0	3,185.0	3,133.8	3,109.9	7.5	8.2	-142.54	-168.9	350.0	578.9	566.4	12.45	46.485		
3,300.0	3,284.4	3,231.4	3,206.5	7.7	8.5	-142.50	-176.1	362.6	600.7	587.8	12.87	46.679		
3,400.0	3,383.7	3,329.0	3,303.0	8.0	8.8	-142.48	-183.2	375.1	622.5	609.2	13.28	46.861		
3,500.0	3,483.1	3,426.6	3,399.5	8.2	9.1	-142.45	-190.3	387.7	644.3	630.6	13.70	47.031		
3,600.0	3,582.5	3,524.2	3,496.0	8.5	9.4	-142.42	-197.4	400.3	666.1	652.0	14.12	47.191		
3,700.0	3,681.8	3,621.8	3,592.5	8.8	9.7	-142.40	-204.6	412.9	687.9	673.4	14.53	47.341		
3,800.0	3,781.2	3,719.4	3,689.1	9.0	10.0	-142.38	-211.7	425.4	709.7	694.8	14.95	47.483		
3,900.0	3,880.6	3,817.0	3,785.6	9.3	10.3	-142.36	-218.8	438.0	731.5	716.2	15.36	47.617		
4,000.0	3,979.9	3,914.6	3,882.1	9.6	10.6	-142.34	-225.9	450.6	753.3	737.5	15.78	47.743		
4,100.0	4,079.3	4,012.2	3,978.6	9.8	10.9	-142.32	-233.1	463.2	775.1	758.9	16.19	47.863		
4,200.0	4,178.7	4,109.8	4,075.1	10.1	11.2	-142.30	-240.2	475.7	796.9	780.3	16.61	47.976		
4,300.0	4,278.0	4,207.4	4,171.6	10.3	11.6	-142.28	-247.3	488.3	818.7	801.7	17.03	48.084		
4,400.0	4,377.4	4,305.0	4,268.2	10.6	11.9	-142.27	-254.5	500.9	840.5	823.1	17.44	48.187		
4,500.0	4,476.8	4,402.5	4,364.7	10.9	12.2	-142.25	-261.6	513.5	862.3	844.5	17.86	48.284		
4,600.0	4,576.2	4,500.1	4,461.2	11.1	12.5	-142.24	-268.7	526.0	884.1	865.9	18.28	48.377		
4,700.0	4,675.5	4,597.7	4,557.7	11.4	12.8	-142.23	-275.8	538.6	906.0	887.3	18.69	48.465		
4,800.0	4,774.9	4,695.3	4,654.2	11.6	13.1	-142.21	-283.0	551.2	927.8	908.6	19.11	48.550		
4,900.0	4,874.3	4,792.9	4,750.7	11.9	13.4	-142.20	-290.1	563.8	949.6	930.0	19.53	48.631		
5,000.0	4,973.6	4,890.5	4,847.3	12.2	13.7	-142.19	-297.2	576.3	971.4	951.4	19.94	48.708		
5,100.0	5,073.0	4,988.1	4,943.8	12.4	14.0	-142.18	-304.3	588.9	993.2	972.8	20.36	48.783		

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 4C-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 4C-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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-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		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	90.36	-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	197.832		
200.0	200.0	200.0	200.0	0.3	0.3	90.36	-0.4	60.1	60.1	59.4	0.65	92.040		
300.0	300.0	300.0	300.0	0.5	0.5	90.36	-0.4	60.1	60.1	59.1	1.00	59.970 CC, ES		
400.0	400.0	399.0	399.0	0.7	0.7	90.68	-0.7	60.9	60.9	59.5	1.35	45.096		
500.0	500.0	498.0	498.0	0.9	0.9	-142.48	-1.8	63.2	64.0	62.3	1.70	37.682		
600.0	600.0	596.7	596.6	1.0	1.0	-142.38	-3.5	67.1	70.0	68.0	2.05	34.209		
700.0	699.9	695.2	694.8	1.2	1.2	-142.57	-5.9	72.5	79.0	76.6	2.40	32.947 SF		
800.0	799.7	793.1	792.5	1.4	1.4	-142.94	-8.9	79.5	91.0	88.2	2.76	33.030		
900.0	899.4	890.4	889.4	1.6	1.7	-143.38	-12.6	87.9	105.9	102.8	3.12	33.974		
1,000.0	998.9	987.1	985.4	1.8	1.9	-143.84	-17.0	97.7	123.7	120.3	3.49	35.490		
1,100.0	1,098.3	1,082.9	1,080.5	2.1	2.1	-144.27	-21.9	108.9	144.2	140.4	3.86	37.333		
1,200.0	1,197.7	1,178.1	1,174.7	2.3	2.4	-144.43	-27.5	121.5	166.4	162.1	4.25	39.168		
1,300.0	1,297.0	1,272.6	1,267.9	2.6	2.7	-144.35	-33.6	135.4	190.0	185.3	4.64	40.971		
1,400.0	1,396.4	1,367.6	1,361.4	2.8	3.0	-144.11	-40.4	150.7	214.9	209.9	5.03	42.721		
1,500.0	1,495.8	1,464.4	1,456.6	3.1	3.4	-143.89	-47.4	166.6	240.1	234.7	5.43	44.218		
1,600.0	1,595.1	1,561.1	1,551.8	3.3	3.7	-143.71	-54.3	182.4	265.4	259.5	5.83	45.495		
1,700.0	1,694.5	1,657.9	1,647.0	3.6	4.0	-143.56	-61.3	198.3	290.6	284.4	6.24	46.595		
1,800.0	1,793.9	1,754.6	1,742.2	3.8	4.4	-143.44	-68.3	214.1	315.8	309.2	6.64	47.553		
1,900.0	1,893.2	1,851.4	1,837.4	4.1	4.7	-143.33	-75.3	230.0	341.1	334.0	7.05	48.394		
2,000.0	1,992.6	1,948.2	1,932.6	4.3	5.0	-143.24	-82.3	245.8	366.3	358.9	7.45	49.137		
2,100.0	2,092.0	2,044.9	2,027.8	4.6	5.4	-143.16	-89.3	261.7	391.5	383.7	7.86	49.799		
2,200.0	2,191.3	2,141.7	2,123.0	4.9	5.7	-143.09	-96.3	277.5	416.8	408.5	8.27	50.392		
2,300.0	2,290.7	2,238.4	2,218.2	5.1	6.1	-143.03	-103.3	293.4	442.0	433.3	8.68	50.926		
2,400.0	2,390.1	2,335.2	2,313.4	5.4	6.4	-142.97	-110.3	309.2	467.3	458.2	9.09	51.409		
2,500.0	2,489.4	2,432.0	2,408.6	5.6	6.7	-142.92	-117.3	325.1	492.5	483.0	9.50	51.848		
2,600.0	2,588.8	2,528.7	2,503.8	5.9	7.1	-142.88	-124.3	341.0	517.7	507.8	9.91	52.249		
2,700.0	2,688.2	2,625.5	2,599.0	6.2	7.4	-142.84	-131.3	356.8	543.0	532.7	10.32	52.617		
2,800.0	2,787.5	2,722.3	2,694.2	6.4	7.8	-142.80	-138.3	372.7	568.2	557.5	10.73	52.955		
2,900.0	2,886.9	2,819.0	2,789.4	6.7	8.1	-142.77	-145.3	388.5	593.5	582.3	11.14	53.267		
3,000.0	2,986.3	2,915.8	2,884.6	6.9	8.5	-142.74	-152.3	404.4	618.7	607.1	11.55	53.556		
3,100.0	3,085.6	3,012.5	2,979.8	7.2	8.8	-142.71	-159.3	420.2	643.9	632.0	11.96	53.824		
3,200.0	3,185.0	3,109.3	3,075.0	7.5	9.2	-142.68	-166.2	436.1	669.2	656.8	12.38	54.074		
3,300.0	3,284.4	3,206.1	3,170.2	7.7	9.5	-142.66	-173.2	451.9	694.4	681.6	12.79	54.307		
3,400.0	3,383.7	3,302.8	3,265.4	8.0	9.9	-142.63	-180.2	467.8	719.7	706.5	13.20	54.524		
3,500.0	3,483.1	3,399.6	3,360.6	8.2	10.2	-142.61	-187.2	483.6	744.9	731.3	13.61	54.728		
3,600.0	3,582.5	3,496.3	3,455.8	8.5	10.6	-142.59	-194.2	499.5	770.1	756.1	14.02	54.920		
3,700.0	3,681.8	3,593.1	3,551.0	8.8	10.9	-142.57	-201.2	515.3	795.4	780.9	14.44	55.100		
3,800.0	3,781.2	3,689.9	3,646.2	9.0	11.3	-142.56	-208.2	531.2	820.6	805.8	14.85	55.270		
3,900.0	3,880.6	3,786.6	3,741.4	9.3	11.6	-142.54	-215.2	547.0	845.9	830.6	15.26	55.430		
4,000.0	3,979.9	3,883.4	3,836.6	9.6	12.0	-142.52	-222.2	562.9	871.1	855.4	15.67	55.581		
4,100.0	4,079.3	3,980.2	3,931.8	9.8	12.3	-142.51	-229.2	578.8	896.3	880.3	16.09	55.725		
4,200.0	4,178.7	4,076.9	4,027.0	10.1	12.6	-142.50	-236.2	594.6	921.6	905.1	16.50	55.861		
4,300.0	4,278.0	4,173.7	4,122.2	10.3	13.0	-142.48	-243.2	610.5	946.8	929.9	16.91	55.990		
4,400.0	4,377.4	4,270.4	4,217.4	10.6	13.3	-142.47	-250.2	626.3	972.1	954.7	17.32	56.113		
4,500.0	4,476.8	4,367.2	4,312.6	10.9	13.7	-142.46	-257.2	642.2	997.3	979.6	17.74	56.230		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4L-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
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	222.676		
200.0	200.0	200.0	200.0	0.3	0.3	90.32	-0.4	67.6	67.6	67.0	0.65	103.598 CC, ES		
300.0	300.0	298.9	298.9	0.5	0.5	90.57	-0.7	68.4	68.4	67.4	1.00	68.385		
400.0	400.0	397.7	397.7	0.7	0.7	91.27	-1.6	70.8	70.9	69.5	1.35	52.406		
500.0	500.0	496.4	496.3	0.9	0.9	-141.65	-3.1	74.8	75.6	73.9	1.70	44.610		
600.0	600.0	594.8	594.5	1.0	1.1	-141.40	-5.1	80.4	83.4	81.4	2.05	40.787		
700.0	699.9	692.8	692.2	1.2	1.3	-141.51	-7.8	87.5	94.2	91.8	2.40	39.279		
800.0	799.7	790.2	789.2	1.4	1.5	-141.86	-11.0	96.1	107.9	105.1	2.75	39.176 SF		
900.0	899.4	887.0	885.3	1.6	1.7	-142.32	-14.7	106.2	124.5	121.4	3.12	39.974		
1,000.0	998.9	982.9	980.5	1.8	2.0	-142.83	-19.0	117.7	144.1	140.6	3.48	41.369		
1,100.0	1,098.3	1,078.0	1,074.5	2.1	2.3	-143.35	-23.8	130.5	166.4	162.6	3.86	43.113		
1,200.0	1,197.7	1,172.3	1,167.6	2.3	2.6	-143.66	-29.1	144.7	190.4	186.1	4.24	44.874		
1,300.0	1,297.0	1,265.9	1,259.8	2.6	2.9	-143.74	-34.9	160.3	215.8	211.2	4.63	46.627		
1,400.0	1,396.4	1,358.8	1,350.9	2.8	3.2	-143.67	-41.1	177.1	242.7	237.7	5.02	48.371		
1,500.0	1,495.8	1,451.0	1,441.1	3.1	3.6	-143.50	-47.9	195.1	271.0	265.6	5.41	50.112		
1,600.0	1,595.1	1,546.7	1,534.5	3.3	4.0	-143.31	-55.1	214.5	300.0	294.2	5.81	51.646		
1,700.0	1,694.5	1,642.4	1,628.0	3.6	4.4	-143.15	-62.3	233.8	329.0	322.8	6.21	52.971		
1,800.0	1,793.9	1,738.1	1,721.4	3.8	4.8	-143.01	-69.5	253.2	358.0	351.4	6.61	54.124		
1,900.0	1,893.2	1,833.8	1,814.9	4.1	5.2	-142.90	-76.7	272.5	387.0	380.0	7.02	55.137		
2,000.0	1,992.6	1,929.5	1,908.3	4.3	5.5	-142.80	-83.9	291.9	416.0	408.6	7.42	56.033		
2,100.0	2,092.0	2,025.2	2,001.8	4.6	5.9	-142.71	-91.1	311.2	445.0	437.2	7.83	56.831		
2,200.0	2,191.3	2,120.9	2,095.2	4.9	6.3	-142.64	-98.3	330.6	474.0	465.8	8.24	57.546		
2,300.0	2,290.7	2,216.6	2,188.6	5.1	6.7	-142.57	-105.5	349.9	503.0	494.4	8.64	58.190		
2,400.0	2,390.1	2,312.3	2,282.1	5.4	7.1	-142.51	-112.7	369.3	532.0	523.0	9.05	58.773		
2,500.0	2,489.4	2,408.0	2,375.5	5.6	7.5	-142.46	-120.0	388.6	561.1	551.6	9.46	59.304		
2,600.0	2,588.8	2,503.7	2,469.0	5.9	7.9	-142.41	-127.2	408.0	590.1	580.2	9.87	59.788		
2,700.0	2,688.2	2,599.4	2,562.4	6.2	8.3	-142.37	-134.4	427.4	619.1	608.8	10.28	60.233		
2,800.0	2,787.5	2,695.1	2,655.9	6.4	8.7	-142.33	-141.6	446.7	648.1	637.4	10.69	60.641		
2,900.0	2,886.9	2,790.8	2,749.3	6.7	9.1	-142.29	-148.8	466.1	677.1	666.0	11.10	61.018		
3,000.0	2,986.3	2,886.5	2,842.7	6.9	9.5	-142.26	-156.0	485.4	706.1	694.6	11.51	61.368		
3,100.0	3,085.6	2,982.2	2,936.2	7.2	9.9	-142.23	-163.2	504.8	735.1	723.2	11.92	61.692		
3,200.0	3,185.0	3,077.9	3,029.6	7.5	10.3	-142.20	-170.4	524.1	764.1	751.8	12.33	61.994		
3,300.0	3,284.4	3,173.6	3,123.1	7.7	10.7	-142.18	-177.6	543.5	793.1	780.4	12.74	62.275		
3,400.0	3,383.7	3,269.3	3,216.5	8.0	11.1	-142.15	-184.8	562.8	822.1	809.0	13.15	62.539		
3,500.0	3,483.1	3,365.0	3,310.0	8.2	11.5	-142.13	-192.1	582.2	851.1	837.6	13.56	62.786		
3,600.0	3,582.5	3,460.7	3,403.4	8.5	11.9	-142.11	-199.3	601.6	880.2	866.2	13.97	63.018		
3,700.0	3,681.8	3,556.4	3,496.9	8.8	12.3	-142.09	-206.5	620.9	909.2	894.8	14.38	63.236		
3,800.0	3,781.2	3,652.1	3,590.3	9.0	12.7	-142.07	-213.7	640.3	938.2	923.4	14.79	63.441		
3,900.0	3,880.6	3,747.8	3,683.7	9.3	13.1	-142.05	-220.9	659.6	967.2	952.0	15.20	63.635		
4,000.0	3,979.9	3,843.5	3,777.2	9.6	13.5	-142.04	-228.1	679.0	996.2	980.6	15.61	63.819		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 843-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	1.1	1.1	0.0	0.0	-68.02	192.0	-475.6	512.9						
100.0	100.0	101.3	101.3	0.2	0.2	-68.01	192.1	-475.5	512.9	512.5	0.33	1,569.665			
200.0	200.0	201.5	201.5	0.3	0.4	-67.98	192.2	-475.4	512.8	512.1	0.67	760.533			
300.0	300.0	301.7	301.7	0.5	0.5	-67.95	192.5	-475.2	512.7	511.7	1.02	501.767			
400.0	400.0	401.9	401.9	0.7	0.7	-67.89	192.9	-474.9	512.6	511.2	1.37	374.321			
500.0	500.0	502.1	502.1	0.9	0.9	58.66	193.4	-474.5	511.9	510.2	1.72	297.239			
600.0	600.0	602.2	602.2	1.0	1.0	59.01	194.1	-474.0	510.4	508.3	2.07	246.175			
700.0	699.9	702.2	702.2	1.2	1.2	59.56	194.8	-473.4	507.9	505.5	2.43	209.135			
800.0	799.7	802.1	802.1	1.4	1.4	60.31	195.7	-472.8	504.6	501.8	2.79	180.769			
900.0	899.4	911.7	911.6	1.6	1.6	61.37	196.6	-471.3	499.9	496.7	3.18	157.036			
1,000.0	998.9	1,022.1	1,022.0	1.8	1.8	62.52	195.0	-467.9	492.0	488.4	3.59	137.137			
1,100.0	1,098.3	1,136.4	1,136.1	2.1	2.0	63.75	190.6	-462.0	480.6	476.6	4.01	119.860			
1,200.0	1,197.7	1,247.3	1,246.5	2.3	2.2	64.82	183.9	-454.5	466.9	462.5	4.43	105.324			
1,300.0	1,297.0	1,356.6	1,355.0	2.6	2.5	65.71	174.4	-445.4	450.7	445.8	4.86	92.768			
1,400.0	1,396.4	1,459.3	1,456.7	2.8	2.7	66.60	164.5	-435.6	433.1	427.8	5.28	82.055			
1,500.0	1,495.8	1,562.6	1,558.9	3.1	3.0	67.75	155.0	-423.9	414.3	408.6	5.70	72.628			
1,600.0	1,595.1	1,672.0	1,666.8	3.3	3.3	69.06	143.8	-410.1	394.1	387.9	6.14	64.134			
1,700.0	1,694.5	1,775.7	1,768.6	3.6	3.6	70.38	131.0	-394.6	370.9	364.3	6.58	56.376			
1,800.0	1,793.9	1,879.1	1,869.8	3.8	4.0	71.83	117.4	-378.3	346.8	339.8	7.02	49.432			
1,900.0	1,893.2	1,977.5	1,965.7	4.1	4.3	73.40	103.3	-361.4	321.2	313.7	7.45	43.118			
2,000.0	1,992.6	2,076.2	2,061.9	4.3	4.7	75.30	89.4	-344.3	295.7	287.9	7.89	37.496			
2,100.0	2,092.0	2,175.5	2,158.4	4.6	5.1	77.61	74.5	-325.9	269.2	260.9	8.34	32.293			
2,200.0	2,191.3	2,269.8	2,249.8	4.9	5.5	80.31	60.3	-308.1	242.8	234.0	8.79	27.614			
2,300.0	2,290.7	2,363.9	2,341.4	5.1	5.9	83.69	46.9	-290.7	218.0	208.7	9.27	23.511			
2,400.0	2,390.1	2,459.2	2,434.1	5.4	6.3	87.96	33.8	-273.4	194.6	184.8	9.80	19.865			
2,500.0	2,489.4	2,557.2	2,529.6	5.6	6.7	93.46	20.1	-255.7	172.5	162.1	10.39	16.598			
2,600.0	2,588.8	2,655.0	2,624.4	5.9	7.2	100.43	5.1	-237.2	150.6	139.6	11.08	13.591			
2,700.0	2,688.2	2,749.3	2,715.8	6.2	7.6	109.09	-9.7	-219.5	131.4	119.5	11.87	11.065			
2,800.0	2,787.5	2,845.2	2,809.1	6.4	8.0	119.87	-24.3	-202.6	116.9	104.2	12.75	9.171			
2,900.0	2,886.9	2,940.3	2,901.6	6.7	8.4	132.97	-38.3	-185.4	108.2	94.6	13.63	7.940			
2,968.8	2,955.2	3,006.5	2,965.9	6.9	8.7	143.01	-47.9	-173.0	106.6	92.4	14.14	7.535 CC, ES			
3,000.0	2,986.3	3,036.6	2,995.2	6.9	8.8	147.56	-52.3	-167.6	106.9	92.6	14.34	7.457 SF			
3,100.0	3,085.6	3,132.4	3,088.4	7.2	9.3	161.39	-66.3	-150.2	112.6	97.8	14.81	7.605			
3,200.0	3,185.0	3,228.2	3,181.6	7.5	9.7	173.29	-80.0	-132.9	124.7	109.6	15.13	8.243			
3,300.0	3,284.4	3,324.9	3,275.8	7.7	10.1	-177.32	-93.5	-115.9	141.3	125.8	15.41	9.165			
3,400.0	3,383.7	3,420.7	3,369.2	8.0	10.5	-170.03	-106.9	-99.1	160.7	144.9	15.71	10.224			
3,500.0	3,483.1	3,517.2	3,463.1	8.2	10.9	-164.17	-120.6	-82.0	182.2	166.2	16.03	11.365			
3,600.0	3,582.5	3,612.6	3,556.1	8.5	11.3	-159.71	-133.9	-65.2	205.2	188.9	16.36	12.544			
3,700.0	3,681.8	3,708.2	3,649.2	8.8	11.7	-156.08	-147.4	-48.0	229.6	212.8	16.72	13.727			
3,800.0	3,781.2	3,801.9	3,740.3	9.0	12.2	-153.11	-160.8	-30.5	255.1	238.0	17.09	14.932			
3,900.0	3,880.6	3,894.1	3,829.7	9.3	12.6	-150.68	-174.0	-12.4	282.3	264.8	17.47	16.163			
4,000.0	3,979.9	3,993.3	3,925.9	9.6	13.0	-148.45	-188.6	6.9	309.6	291.7	17.87	17.327			
4,100.0	4,079.3	4,084.6	4,014.3	9.8	13.5	-146.64	-202.5	24.9	337.6	319.3	18.26	18.483			
4,200.0	4,178.7	4,187.0	4,113.7	10.1	13.9	-145.00	-217.6	44.5	365.2	346.5	18.68	19.555			
4,300.0	4,278.0	4,282.4	4,206.4	10.3	14.4	-143.83	-230.9	62.2	392.5	373.4	19.08	20.568			
4,400.0	4,377.4	4,381.1	4,302.5	10.6	14.8	-142.86	-244.0	80.5	419.9	400.4	19.50	21.529			
4,500.0	4,476.8	4,488.4	4,407.6	10.9	15.2	-142.08	-257.3	98.4	445.5	425.5	19.94	22.338			
4,600.0	4,576.2	4,584.0	4,501.2	11.1	15.6	-141.47	-268.9	113.4	470.3	449.9	20.36	23.094			
4,700.0	4,675.5	4,687.6	4,602.9	11.4	16.0	-140.89	-281.5	129.2	494.6	473.8	20.80	23.777			
4,800.0	4,774.9	4,786.9	4,700.5	11.6	16.3	-140.44	-293.0	142.9	517.5	496.3	21.23	24.373			
4,900.0	4,874.3	4,888.4	4,800.3	11.9	16.7	-140.03	-304.7	157.1	540.6	519.0	21.67	24.950			
5,000.0	4,973.6	4,993.4	4,903.8	12.2	17.0	-139.70	-316.1	170.3	562.4	540.3	22.11	25.433			

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 4C-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 4C-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	5,073.0	5,092.6	5,001.8	12.4	17.4	-139.49	-326.1	182.0	583.3	560.8	22.53	25.888		
5,200.0	5,172.4	5,197.9	5,106.1	12.7	17.7	-139.49	-334.7	193.9	603.6	580.6	22.96	26.283		
5,300.0	5,271.7	5,300.8	5,208.3	13.0	17.9	-139.58	-341.9	204.6	622.8	599.4	23.40	26.616		
5,400.0	5,371.1	5,405.9	5,312.5	13.2	18.2	-139.61	-349.8	214.4	641.2	617.3	23.83	26.901		
5,500.0	5,470.5	5,505.4	5,411.5	13.5	18.5	-139.71	-356.6	223.3	659.1	634.9	24.25	27.175		
5,600.0	5,569.8	5,610.2	5,515.7	13.7	18.7	-139.86	-363.0	231.6	675.9	651.2	24.68	27.380		
5,700.0	5,669.2	5,710.7	5,615.7	14.0	19.0	-140.02	-368.7	239.5	692.6	667.5	25.10	27.595		
5,800.0	5,768.6	5,813.0	5,717.6	14.3	19.2	-140.24	-373.9	247.0	708.9	683.4	25.52	27.778		
5,900.0	5,867.9	5,922.5	5,826.8	14.5	19.4	-140.53	-378.5	254.0	724.1	698.2	25.94	27.920		
6,000.0	5,967.3	6,033.6	5,937.7	14.8	19.6	-140.98	-380.9	259.5	737.8	711.5	26.35	27.997		
6,100.0	6,066.7	6,139.4	6,043.4	15.1	19.7	-141.36	-383.7	263.1	750.1	723.3	26.76	28.026		
6,200.0	6,166.0	6,256.7	6,160.7	15.3	19.9	-141.79	-386.3	265.6	761.1	733.9	27.19	27.990		
6,300.0	6,265.4	6,363.1	6,267.0	15.6	20.0	-142.28	-387.2	265.9	770.3	742.7	27.58	27.930		
6,400.0	6,364.8	6,461.2	6,365.2	15.8	20.1	-142.77	-387.2	265.9	779.2	751.3	27.95	27.875		
6,500.0	6,464.3	6,561.7	6,465.7	16.0	20.2	145.16	-387.0	265.9	788.3	760.1	28.26	27.898		
6,600.0	6,562.8	6,660.0	6,563.9	16.1	20.3	115.41	-386.9	266.0	797.9	769.5	28.37	28.124		
6,700.0	6,658.6	6,758.4	6,662.3	16.2	20.4	107.45	-386.5	265.7	808.0	779.7	28.31	28.542		
6,800.0	6,749.6	6,849.4	6,753.4	16.1	20.4	104.99	-386.1	265.5	820.0	791.9	28.11	29.170		
6,900.0	6,834.2	6,936.7	6,840.7	16.1	20.5	104.68	-386.0	265.1	835.3	807.4	27.83	30.015		
7,000.0	6,910.6	7,011.8	6,915.7	16.0	20.6	104.90	-385.9	264.7	855.6	828.0	27.56	31.043		
7,100.0	6,977.4	7,077.4	6,981.4	16.1	20.7	104.99	-385.8	264.4	882.7	855.3	27.43	32.183		
7,200.0	7,033.3	7,132.4	7,036.3	16.2	20.7	104.42	-385.7	264.3	917.8	890.2	27.57	33.284		
7,300.0	7,077.2	7,175.6	7,079.6	16.4	20.8	102.75	-385.6	264.2	961.1	933.0	28.11	34.190		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4C-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 4C-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

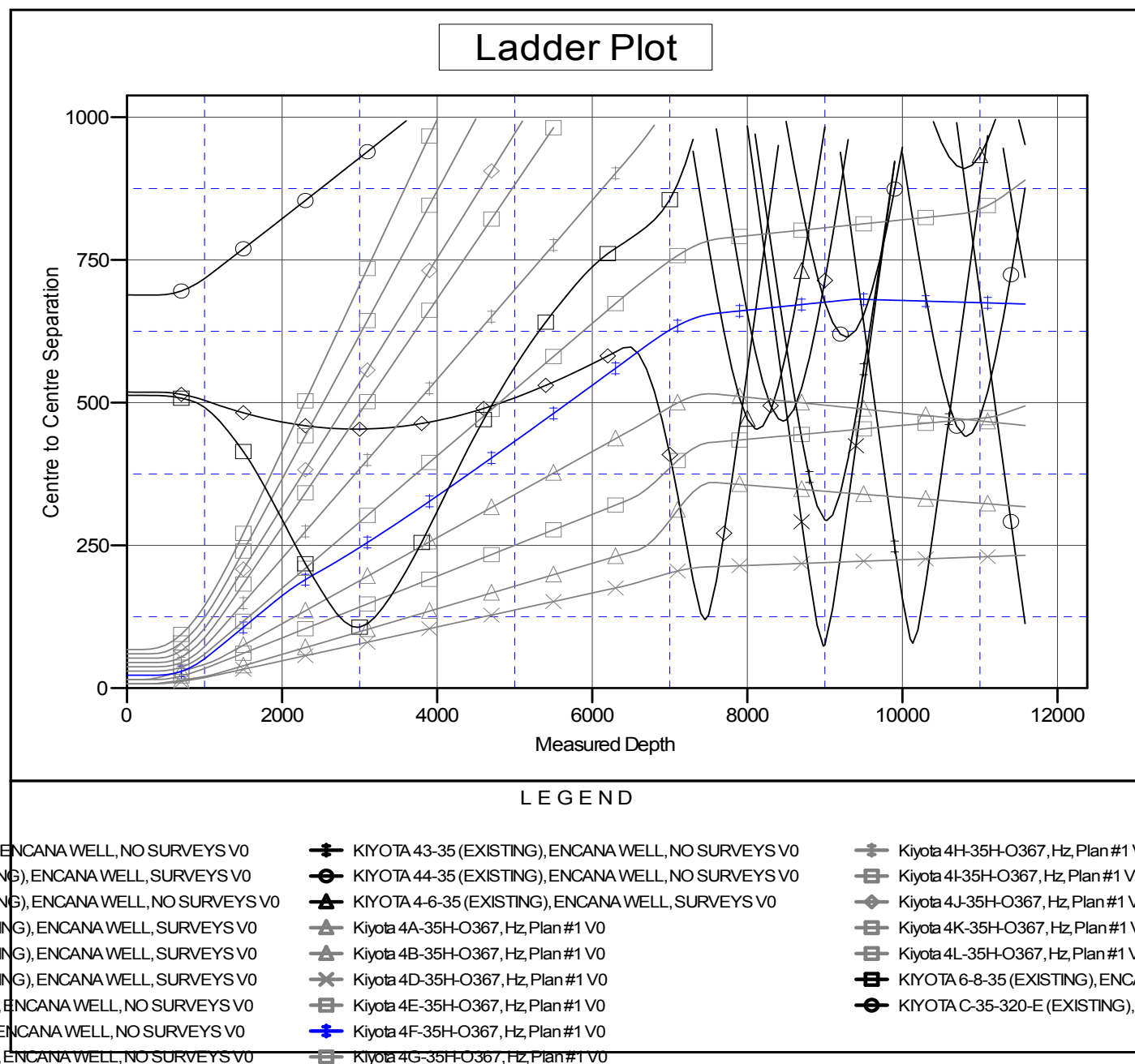
Offset Design S35-T3N-R67W (Kiyota) - KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7915-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,500.0	7,130.0	7,098.0	7,098.0	28.9	12.4	90.00	2,045.1	-2.2	992.6	953.3	39.32	25.247		
8,600.0	7,130.0	7,098.0	7,098.0	30.3	12.4	90.00	2,045.1	-2.2	916.2	875.4	40.88	22.411		
8,700.0	7,130.0	7,098.0	7,098.0	31.8	12.4	90.00	2,045.1	-2.2	844.8	802.3	42.47	19.892		
8,800.0	7,130.0	7,098.0	7,098.0	33.3	12.4	90.00	2,045.1	-2.2	779.7	735.6	44.07	17.690		
8,900.0	7,130.0	7,098.0	7,098.0	34.9	12.4	90.00	2,045.1	-2.2	722.5	676.8	45.69	15.813		
9,000.0	7,130.0	7,098.0	7,098.0	36.4	12.4	90.00	2,045.1	-2.2	675.5	628.1	47.33	14.273		
9,100.0	7,130.0	7,098.0	7,098.0	38.0	12.4	90.00	2,045.1	-2.2	640.7	591.7	48.97	13.083		
9,200.0	7,130.0	7,098.0	7,098.0	39.6	12.4	90.00	2,045.1	-2.2	620.2	569.6	50.62	12.251		
9,279.0	7,130.0	7,098.0	7,098.0	40.9	12.4	90.00	2,045.1	-2.2	615.1	563.2	51.94	11.844 CC, ES		
9,300.0	7,130.0	7,098.0	7,098.0	41.2	12.4	90.00	2,045.1	-2.2	615.5	563.2	52.29	11.772		
9,400.0	7,130.0	7,098.0	7,098.0	42.8	12.4	90.00	2,045.1	-2.2	626.9	573.0	53.96	11.619 SF		
9,500.0	7,130.0	7,098.0	7,098.0	44.5	12.4	90.00	2,045.1	-2.2	653.6	598.0	55.63	11.749		
9,600.0	7,130.0	7,098.0	7,098.0	46.1	12.4	90.00	2,045.1	-2.2	693.8	636.5	57.31	12.106		
9,700.0	7,130.0	7,098.0	7,098.0	47.8	12.4	90.00	2,045.1	-2.2	745.4	686.4	59.00	12.633		
9,800.0	7,130.0	7,098.0	7,098.0	49.4	12.4	90.00	2,045.1	-2.2	806.1	745.4	60.69	13.281		
9,900.0	7,130.0	7,098.0	7,098.0	51.1	12.4	90.00	2,045.1	-2.2	874.1	811.7	62.39	14.009		
10,000.0	7,130.0	7,098.0	7,098.0	52.7	12.4	90.00	2,045.1	-2.2	947.7	883.6	64.09	14.787		

Anticollision Report

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