



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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

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

Well	Kiyota 4J-35H-O367					
Well Position	+N/-S	0.0 ft	Northing:	1,307,458.49 ft	Latitude:	40.175555
	+E/-W	0.0 ft	Easting:	3,180,628.19 ft	Longitude:	-104.853606
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,835.0 ft

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

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,284.7	8.85	118.40	1,281.2	-32.4	60.0	1.00	1.00	0.00	118.40	
6,504.1	8.85	118.40	6,438.5	-414.3	766.0	0.00	0.00	0.00	0.00	
7,681.6	90.00	0.00	7,200.0	300.0	870.3	8.00	6.89	-10.06	-118.12	
9,981.6	90.00	0.00	7,200.0	2,600.0	870.3	0.00	0.00	0.00	0.00	Kiyota 4J-35H-O367 1
9,998.2	90.00	359.67	7,200.0	2,616.7	870.3	2.00	0.00	-2.00	-90.00	
11,700.7	90.00	359.67	7,200.0	4,319.1	860.3	0.00	0.00	0.00	0.00	Kiyota 4J-35H-O367 I

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
248.0	0.00	0.00	248.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	1.00	118.40	500.0	-0.4	0.8	-0.4	1.00	1.00	
600.0	2.00	118.40	600.0	-1.7	3.1	-1.7	1.00	1.00	
700.0	3.00	118.40	699.9	-3.7	6.9	-3.7	1.00	1.00	
800.0	4.00	118.40	799.7	-6.6	12.3	-6.6	1.00	1.00	
900.0	5.00	118.40	899.4	-10.4	19.2	-10.4	1.00	1.00	
1,000.0	6.00	118.40	998.9	-14.9	27.6	-14.9	1.00	1.00	
1,100.0	7.00	118.40	1,098.3	-20.3	37.6	-20.3	1.00	1.00	
1,200.0	8.00	118.40	1,197.4	-26.5	49.0	-26.5	1.00	1.00	
1,284.7	8.85	118.40	1,281.2	-32.4	60.0	-32.4	1.00	1.00	EOB; Inc=8.85°
1,300.0	8.85	118.40	1,296.3	-33.5	62.0	-33.5	0.00	0.00	
1,400.0	8.85	118.40	1,395.1	-40.9	75.6	-40.9	0.00	0.00	
1,500.0	8.85	118.40	1,493.9	-48.2	89.1	-48.2	0.00	0.00	
1,600.0	8.85	118.40	1,592.7	-55.5	102.6	-55.5	0.00	0.00	
1,700.0	8.85	118.40	1,691.5	-62.8	116.1	-62.8	0.00	0.00	
1,800.0	8.85	118.40	1,790.4	-70.1	129.7	-70.1	0.00	0.00	
1,900.0	8.85	118.40	1,889.2	-77.4	143.2	-77.4	0.00	0.00	
2,000.0	8.85	118.40	1,988.0	-84.8	156.7	-84.8	0.00	0.00	
2,100.0	8.85	118.40	2,086.8	-92.1	170.3	-92.1	0.00	0.00	
2,200.0	8.85	118.40	2,185.6	-99.4	183.8	-99.4	0.00	0.00	
2,300.0	8.85	118.40	2,284.4	-106.7	197.3	-106.7	0.00	0.00	
2,400.0	8.85	118.40	2,383.2	-114.0	210.8	-114.0	0.00	0.00	
2,500.0	8.85	118.40	2,482.0	-121.3	224.4	-121.3	0.00	0.00	
2,600.0	8.85	118.40	2,580.8	-128.7	237.9	-128.7	0.00	0.00	
2,700.0	8.85	118.40	2,679.7	-136.0	251.4	-136.0	0.00	0.00	
2,800.0	8.85	118.40	2,778.5	-143.3	265.0	-143.3	0.00	0.00	
2,900.0	8.85	118.40	2,877.3	-150.6	278.5	-150.6	0.00	0.00	
3,000.0	8.85	118.40	2,976.1	-157.9	292.0	-157.9	0.00	0.00	
3,100.0	8.85	118.40	3,074.9	-165.2	305.5	-165.2	0.00	0.00	
3,200.0	8.85	118.40	3,173.7	-172.5	319.1	-172.5	0.00	0.00	
3,300.0	8.85	118.40	3,272.5	-179.9	332.6	-179.9	0.00	0.00	
3,400.0	8.85	118.40	3,371.3	-187.2	346.1	-187.2	0.00	0.00	
3,500.0	8.85	118.40	3,470.1	-194.5	359.6	-194.5	0.00	0.00	
3,600.0	8.85	118.40	3,568.9	-201.8	373.2	-201.8	0.00	0.00	
3,700.0	8.85	118.40	3,667.8	-209.1	386.7	-209.1	0.00	0.00	
3,800.0	8.85	118.40	3,766.6	-216.4	400.2	-216.4	0.00	0.00	
3,900.0	8.85	118.40	3,865.4	-223.8	413.8	-223.8	0.00	0.00	
4,000.0	8.85	118.40	3,964.2	-231.1	427.3	-231.1	0.00	0.00	
4,100.0	8.85	118.40	4,063.0	-238.4	440.8	-238.4	0.00	0.00	
4,157.7	8.85	118.40	4,120.0	-242.6	448.6	-242.6	0.00	0.00	Sussex
4,200.0	8.85	118.40	4,161.8	-245.7	454.3	-245.7	0.00	0.00	
4,300.0	8.85	118.40	4,260.6	-253.0	467.9	-253.0	0.00	0.00	
4,400.0	8.85	118.40	4,359.4	-260.3	481.4	-260.3	0.00	0.00	
4,451.2	8.85	118.40	4,410.0	-264.1	488.3	-264.1	0.00	0.00	Shannon
4,500.0	8.85	118.40	4,458.2	-267.7	494.9	-267.7	0.00	0.00	
4,600.0	8.85	118.40	4,557.0	-275.0	508.5	-275.0	0.00	0.00	
4,700.0	8.85	118.40	4,655.9	-282.3	522.0	-282.3	0.00	0.00	

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,754.8	8.85	118.40	4,710.0	-286.3	529.4	-286.3	0.00	0.00	Teepee Buttes (*if present)
4,800.0	8.85	118.40	4,754.7	-289.6	535.5	-289.6	0.00	0.00	
4,900.0	8.85	118.40	4,853.5	-296.9	549.0	-296.9	0.00	0.00	
5,000.0	8.85	118.40	4,952.3	-304.2	562.6	-304.2	0.00	0.00	
5,100.0	8.85	118.40	5,051.1	-311.6	576.1	-311.6	0.00	0.00	
5,200.0	8.85	118.40	5,149.9	-318.9	589.6	-318.9	0.00	0.00	
5,300.0	8.85	118.40	5,248.7	-326.2	603.2	-326.2	0.00	0.00	
5,400.0	8.85	118.40	5,347.5	-333.5	616.7	-333.5	0.00	0.00	
5,500.0	8.85	118.40	5,446.3	-340.8	630.2	-340.8	0.00	0.00	
5,600.0	8.85	118.40	5,545.1	-348.1	643.7	-348.1	0.00	0.00	
5,700.0	8.85	118.40	5,644.0	-355.4	657.3	-355.4	0.00	0.00	Start build/turn @ 6504' MD
5,800.0	8.85	118.40	5,742.8	-362.8	670.8	-362.8	0.00	0.00	
5,900.0	8.85	118.40	5,841.6	-370.1	684.3	-370.1	0.00	0.00	
6,000.0	8.85	118.40	5,940.4	-377.4	697.8	-377.4	0.00	0.00	
6,100.0	8.85	118.40	6,039.2	-384.7	711.4	-384.7	0.00	0.00	
6,200.0	8.85	118.40	6,138.0	-392.0	724.9	-392.0	0.00	0.00	
6,300.0	8.85	118.40	6,236.8	-399.3	738.4	-399.3	0.00	0.00	
6,400.0	8.85	118.40	6,335.6	-406.7	752.0	-406.7	0.00	0.00	
6,500.0	8.85	118.40	6,434.4	-414.0	765.5	-414.0	0.00	0.00	
6,504.1	8.85	118.40	6,438.5	-414.3	766.0	-414.3	0.00	0.00	
6,600.0	8.53	65.89	6,533.4	-414.9	779.0	-414.9	8.00	-0.33	Sharon Springs
6,700.0	13.84	33.75	6,631.6	-401.9	792.5	-401.9	8.00	5.31	
6,800.0	20.92	20.99	6,727.0	-375.2	805.5	-375.2	8.00	7.08	
6,900.0	28.48	14.62	6,817.8	-335.4	818.0	-335.4	8.00	7.56	
7,000.0	36.21	10.78	6,902.2	-283.3	829.5	-283.3	8.00	7.73	
7,100.0	44.03	8.14	6,978.6	-219.7	840.0	-219.7	8.00	7.82	
7,108.9	44.73	7.94	6,985.0	-213.6	840.9	-213.6	8.00	7.85	
7,200.0	51.89	6.16	7,045.6	-146.1	849.2	-146.1	8.00	7.87	
7,246.4	55.55	5.39	7,073.0	-108.9	852.9	-108.9	8.00	7.89	
7,300.0	59.79	4.57	7,101.7	-63.8	856.8	-63.8	8.00	7.90	Niobrara
7,310.8	60.64	4.42	7,107.0	-54.5	857.6	-54.5	8.00	7.90	
7,384.9	66.50	3.41	7,140.0	11.8	862.1	11.8	8.00	7.91	
7,400.0	67.69	3.22	7,145.9	25.6	862.9	25.6	8.00	7.91	
7,472.6	73.44	2.33	7,170.0	94.0	866.2	94.0	8.00	7.92	
7,500.0	75.61	2.01	7,177.3	120.4	867.2	120.4	8.00	7.92	
7,600.0	83.53	0.89	7,195.4	218.6	869.7	218.6	8.00	7.92	
7,681.6	90.00	0.00	7,200.0	300.0	870.3	300.0	8.00	7.93	
7,700.0	90.00	0.00	7,200.0	318.4	870.3	318.4	0.00	0.00	
7,800.0	90.00	0.00	7,200.0	418.4	870.3	418.4	0.00	0.00	C Chalk
7,900.0	90.00	0.00	7,200.0	518.4	870.3	518.4	0.00	0.00	
8,000.0	90.00	0.00	7,200.0	618.4	870.3	618.4	0.00	0.00	
8,100.0	90.00	0.00	7,200.0	718.4	870.3	718.4	0.00	0.00	
8,200.0	90.00	0.00	7,200.0	818.4	870.3	818.4	0.00	0.00	
8,300.0	90.00	0.00	7,200.0	918.4	870.3	918.4	0.00	0.00	
8,400.0	90.00	0.00	7,200.0	1,018.4	870.3	1,018.4	0.00	0.00	
8,500.0	90.00	0.00	7,200.0	1,118.4	870.3	1,118.4	0.00	0.00	
8,600.0	90.00	0.00	7,200.0	1,218.4	870.3	1,218.4	0.00	0.00	
8,700.0	90.00	0.00	7,200.0	1,318.4	870.3	1,318.4	0.00	0.00	LP @ 7200' TVD; 90°
8,800.0	90.00	0.00	7,200.0	1,418.4	870.3	1,418.4	0.00	0.00	
8,900.0	90.00	0.00	7,200.0	1,518.4	870.3	1,518.4	0.00	0.00	
9,000.0	90.00	0.00	7,200.0	1,618.4	870.3	1,618.4	0.00	0.00	
9,100.0	90.00	0.00	7,200.0	1,718.4	870.3	1,718.4	0.00	0.00	

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	0.00	7,200.0	1,818.4	870.3	1,818.4	0.00	0.00	
9,300.0	90.00	0.00	7,200.0	1,918.4	870.3	1,918.4	0.00	0.00	
9,400.0	90.00	0.00	7,200.0	2,018.4	870.3	2,018.4	0.00	0.00	
9,500.0	90.00	0.00	7,200.0	2,118.4	870.3	2,118.4	0.00	0.00	
9,600.0	90.00	0.00	7,200.0	2,218.4	870.3	2,218.4	0.00	0.00	
9,700.0	90.00	0.00	7,200.0	2,318.4	870.3	2,318.4	0.00	0.00	
9,800.0	90.00	0.00	7,200.0	2,418.4	870.3	2,418.4	0.00	0.00	
9,900.0	90.00	0.00	7,200.0	2,518.4	870.3	2,518.4	0.00	0.00	
9,981.6	90.00	0.00	7,200.0	2,600.0	870.3	2,600.0	0.00	0.00	Start turn @ 9981' MD
9,998.2	90.00	359.67	7,200.0	2,616.7	870.3	2,616.7	2.00	0.00	End of turn @ 9998' MD
10,000.0	90.00	359.67	7,200.0	2,618.4	870.2	2,618.4	0.00	0.00	
10,100.0	90.00	359.67	7,200.0	2,718.4	869.7	2,718.4	0.00	0.00	
10,200.0	90.00	359.67	7,200.0	2,818.4	869.1	2,818.4	0.00	0.00	
10,300.0	90.00	359.67	7,200.0	2,918.4	868.5	2,918.4	0.00	0.00	
10,400.0	90.00	359.67	7,200.0	3,018.4	867.9	3,018.4	0.00	0.00	
10,500.0	90.00	359.67	7,200.0	3,118.4	867.3	3,118.4	0.00	0.00	
10,600.0	90.00	359.67	7,200.0	3,218.4	866.7	3,218.4	0.00	0.00	
10,700.0	90.00	359.67	7,200.0	3,318.4	866.2	3,318.4	0.00	0.00	
10,800.0	90.00	359.67	7,200.0	3,418.4	865.6	3,418.4	0.00	0.00	
10,900.0	90.00	359.67	7,200.0	3,518.4	865.0	3,518.4	0.00	0.00	
11,000.0	90.00	359.67	7,200.0	3,618.4	864.4	3,618.4	0.00	0.00	
11,100.0	90.00	359.67	7,200.0	3,718.4	863.8	3,718.4	0.00	0.00	
11,200.0	90.00	359.67	7,200.0	3,818.4	863.3	3,818.4	0.00	0.00	
11,300.0	90.00	359.67	7,200.0	3,918.4	862.7	3,918.4	0.00	0.00	
11,400.0	90.00	359.67	7,200.0	4,018.4	862.1	4,018.4	0.00	0.00	
11,500.0	90.00	359.67	7,200.0	4,118.4	861.5	4,118.4	0.00	0.00	
11,600.0	90.00	359.67	7,200.0	4,218.4	860.9	4,218.4	0.00	0.00	
11,700.0	90.00	359.67	7,200.0	4,318.4	860.3	4,318.4	0.00	0.00	
11,700.7	90.00	359.67	7,200.0	4,319.1	860.3	4,319.1	0.00	0.00	TD at 11700.7

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Kiyota 4J-35H-O367 TG - plan hits target center - Point	0.00	0.00	7,200.0	2,600.0	870.3	1,310,064.76	3,181,479.52	40.182692	-104.850491
Kiyota 4J-35H-O367 PB - plan misses target center by 80.0ft at 11700.7ft MD (7200.0 TVD, 4319.1 N, 860.3 E) - Point	0.00	0.00	7,200.0	4,399.1	860.5	1,311,863.76	3,181,456.61	40.187631	-104.850526
Kiyota 4J-35H-O367 Drill - plan hits target center - Point	0.00	0.00	7,200.0	4,319.1	860.3	1,311,783.75	3,181,457.03	40.187411	-104.850527

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
248.0	248.0	Fox Hills - BASE				
4,157.7	4,120.0	Sussex				
4,451.2	4,410.0	Shannon				
4,754.8	4,710.0	Teepee Buttes (*if present)				
7,108.9	6,985.0	Sharon Springs				
7,246.4	7,073.0	Niobrara				
7,310.8	7,107.0	B Chalk				
7,384.9	7,140.0	B Marl				
7,472.6	7,170.0	C Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP @ 400'	
1,284.7	1,281.2	-32.4	60.0	EOB; Inc=8.85°	
6,504.1	6,438.5	-414.3	766.0	Start build/turn @ 6504' MD	
7,681.6	7,200.0	300.0	870.3	LP @ 7200' TVD; 90°	
9,981.6	7,200.0	2,600.0	870.3	Start turn @ 9981' MD	
9,998.2	7,200.0	2,616.7	870.3	End of turn @ 9998' MD	
11,700.7	7,200.0	4,319.1	860.3	TD at 11700.7	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S35-T3N-R67W (Kiyota)

Kiyota 4J-35H-O367

Hz

Plan #2

Anticollision Report

24 June, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	6/24/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,700.7	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
S35-T3N-R67W (Kiyota)						
KAWAKAMI 1 (EXISTING) - ENCANA WELL - GYRO	10,950.2	7,170.6	692.0	614.1	8.878	CC, ES
KAWAKAMI 1 (EXISTING) - ENCANA WELL - GYRO	11,100.0	7,170.0	708.0	627.5	8.793	SF
KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURV						Out of range
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - GYRO						Out of range
KAWAKAMI 4-0-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - GYRO	11,700.7	7,160.4	103.5	12.7	1.140	Level 2, CC, ES, SF
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - GYRO	10,072.2	7,163.1	64.5	1.6	1.025	Level 2, CC, ES, SF
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SUR	11,700.7	7,237.0	896.3	803.8	9.684	CC, ES, SF
KIYOTA 33-35 (EXISTING) - ENCANA WELL - GYRO						Out of range
KIYOTA 3-35 (EXISTING) - ENCANA WELL - GYRO						Out of range
KIYOTA 34-35 (EXISTING) - ENCANA WELL - GYRO	0.0	0.0	566.9			
KIYOTA 34-35 (EXISTING) - ENCANA WELL - GYRO	100.0	83.6	566.9	566.6	1,900.998	ES
KIYOTA 34-35 (EXISTING) - ENCANA WELL - GYRO	3,300.0	3,236.7	984.8	973.4	86.532	SF
KIYOTA 43-35 (EXISTING) - ENCANA WELL - GYRO	9,047.1	7,635.3	351.9	309.7	8.347	CC, ES
KIYOTA 43-35 (EXISTING) - ENCANA WELL - GYRO	9,100.0	7,632.4	355.8	312.8	8.270	SF
KIYOTA 44-35 (EXISTING) - ENCANA WELL - GYRO	7,545.7	7,161.0	268.4	242.3	10.271	CC, ES, SF
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Kiyota 4A-35H-O367 - Hz - Plan #1	200.0	200.0	67.6	67.0	103.598	CC, ES
Kiyota 4A-35H-O367 - Hz - Plan #1	700.0	692.7	94.8	92.4	39.583	SF
Kiyota 4B-35H-O367 - Hz - Plan #1	300.0	300.0	60.1	59.1	59.970	CC, ES
Kiyota 4B-35H-O367 - Hz - Plan #1	700.0	695.2	79.4	77.0	33.099	SF
Kiyota 4C-35H-O367 - Hz - Plan #2	400.0	400.0	52.5	51.2	38.889	CC, ES
Kiyota 4C-35H-O367 - Hz - Plan #2	700.0	697.4	65.4	63.0	27.235	SF
Kiyota 4D-35H-O367 - Hz - Plan #1	400.0	400.0	45.0	43.6	33.304	CC, ES
Kiyota 4D-35H-O367 - Hz - Plan #1	700.0	698.7	54.2	51.8	22.597	SF
Kiyota 4E-35H-O367 - Hz - Plan #1	400.0	400.0	37.4	36.1	27.719	CC, ES
Kiyota 4E-35H-O367 - Hz - Plan #1	700.0	699.6	44.9	42.5	18.711	SF
Kiyota 4F-35H-O367 - Hz - Plan #1	400.0	400.0	29.9	28.6	22.135	CC, ES
Kiyota 4F-35H-O367 - Hz - Plan #1	11,700.7	11,548.0	891.6	735.6	5.714	SF
Kiyota 4G-35H-O367 - Hz - Plan #2	400.0	400.0	22.6	21.3	16.757	CC, ES
Kiyota 4G-35H-O367 - Hz - Plan #2	11,700.7	11,489.9	655.4	499.5	4.206	SF
Kiyota 4H-35H-O367 - Hz - Plan #1	400.0	400.0	15.1	13.7	11.170	CC, ES
Kiyota 4H-35H-O367 - Hz - Plan #1	11,700.7	11,802.5	465.3	316.2	3.122	SF
Kiyota 4I-35H-O367 - Hz - Plan #1	400.0	400.0	7.5	6.2	5.585	CC, ES
Kiyota 4I-35H-O367 - Hz - Plan #1	11,700.7	11,608.8	225.6	76.3	1.511	SF
Kiyota 4K-35H-O367 - Hz - Plan #1	300.0	300.0	7.5	6.5	7.531	CC, ES
Kiyota 4K-35H-O367 - Hz - Plan #1	11,700.7	11,890.5	278.9	145.5	2.091	SF
Kiyota 4L-35H-O367 - Hz - Plan #1	200.0	200.0	15.1	14.4	23.117	CC, ES
Kiyota 4L-35H-O367 - Hz - Plan #1	11,700.7	11,717.1	465.9	310.8	3.003	SF
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	4,768.3	4,869.7	433.3	410.9	19.396	CC
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	4,800.0	4,899.5	433.4	410.8	19.241	ES
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	5,600.0	5,676.3	461.2	435.0	17.662	SF
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,427.0	7,168.0	925.1	872.9	17.735	CC, ES
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,700.0	7,168.0	964.5	907.8	17.004	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 1 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,200.0	7,173.2	7,172.8	56.5	12.5	-90.06	3,564.5	172.7	949.5	882.7	66.81	14.212		
10,400.0	7,200.0	7,172.8	7,172.4	58.1	12.5	-90.03	3,564.5	172.7	884.0	815.5	68.51	12.903		
10,500.0	7,200.0	7,172.4	7,172.0	59.8	12.5	-90.00	3,564.5	172.7	825.5	755.3	70.22	11.756		
10,600.0	7,200.0	7,172.0	7,171.6	61.4	12.5	-89.96	3,564.5	172.7	775.5	703.6	71.93	10.781		
10,700.0	7,200.0	7,171.6	7,171.1	63.1	12.5	-89.93	3,564.5	172.7	735.8	662.2	73.65	9.991		
10,800.0	7,200.0	7,171.2	7,170.7	64.7	12.5	-89.90	3,564.5	172.7	708.1	632.7	75.36	9.396		
10,900.0	7,200.0	7,170.8	7,170.3	66.4	12.5	-89.86	3,564.5	172.7	693.8	616.7	77.08	9.001		
10,950.2	7,200.0	7,170.6	7,170.1	67.3	12.5	-89.85	3,564.5	172.7	692.0	614.1	77.94	8.878 CC, ES		
11,000.0	7,200.0	7,170.4	7,169.9	68.1	12.5	-89.83	3,564.5	172.7	693.8	615.0	78.80	8.804		
11,100.0	7,200.0	7,170.0	7,169.5	69.8	12.5	-89.80	3,564.5	172.7	708.0	627.5	80.52	8.793 SF		
11,200.0	7,200.0	7,169.6	7,169.1	71.5	12.5	-89.76	3,564.5	172.7	735.7	653.5	82.25	8.945		
11,300.0	7,200.0	7,169.2	7,168.7	73.1	12.5	-89.73	3,564.5	172.7	775.4	691.4	83.97	9.234		
11,400.0	7,200.0	7,168.8	7,168.3	74.8	12.5	-89.70	3,564.5	172.7	825.4	739.7	85.70	9.631		
11,500.0	7,200.0	7,168.4	7,167.9	76.5	12.5	-89.66	3,564.5	172.7	883.8	796.4	87.42	10.110		
11,600.0	7,200.0	7,168.0	7,167.5	78.2	12.5	-89.63	3,564.6	172.7	949.3	860.1	89.15	10.648		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,800.0	7,200.0	7,169.8	7,168.3	64.7	12.7	-93.14	4,358.4	764.2	945.4	870.1	75.32	12.552		
10,900.0	7,200.0	7,168.9	7,167.3	66.4	12.7	-92.58	4,358.4	764.3	846.0	768.9	77.07	10.977		
11,000.0	7,200.0	7,167.9	7,166.4	68.1	12.7	-92.01	4,358.4	764.3	746.7	667.9	78.81	9.475		
11,100.0	7,200.0	7,167.0	7,165.4	69.8	12.7	-91.42	4,358.4	764.4	647.7	567.1	80.55	8.041		
11,200.0	7,200.0	7,165.9	7,164.4	71.5	12.7	-90.82	4,358.4	764.4	549.0	466.7	82.29	6.672		
11,300.0	7,200.0	7,164.9	7,163.3	73.1	12.7	-90.19	4,358.4	764.5	450.8	366.8	84.02	5.366		
11,400.0	7,200.0	7,163.8	7,162.2	74.8	12.7	-89.54	4,358.4	764.5	353.8	268.0	85.74	4.126		
11,500.0	7,200.0	7,162.7	7,161.1	76.5	12.7	-88.88	4,358.4	764.6	258.9	171.4	87.45	2.960		
11,600.0	7,200.0	7,161.6	7,160.0	78.2	12.7	-88.19	4,358.5	764.6	170.0	80.9	89.15	1.907		
11,700.0	7,200.0	7,160.4	7,158.8	79.9	12.7	-87.48	4,358.5	764.7	103.8	13.0	90.84	1.143 Level 2		
11,700.7	7,200.0	7,160.4	7,158.8	79.9	12.7	-87.48	4,358.5	764.7	103.5	12.7	90.85	1.140 Level 2, CC, ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,200.0	7,165.0	7,163.6	37.5	12.6	-91.44	2,690.2	805.3	974.0	927.2	46.77	20.826		
9,200.0	7,200.0	7,164.8	7,163.4	39.0	12.6	-91.27	2,690.2	805.3	874.2	825.8	48.40	18.062		
9,300.0	7,200.0	7,164.6	7,163.2	40.5	12.6	-91.10	2,690.2	805.3	774.5	724.5	50.05	15.476		
9,400.0	7,200.0	7,164.5	7,163.1	42.1	12.6	-90.92	2,690.2	805.3	674.9	623.2	51.70	13.054		
9,500.0	7,200.0	7,164.3	7,162.9	43.6	12.6	-90.75	2,690.2	805.3	575.5	522.1	53.37	10.783		
9,600.0	7,200.0	7,164.1	7,162.7	45.2	12.6	-90.57	2,690.2	805.3	476.2	421.2	55.04	8.653		
9,700.0	7,200.0	7,163.9	7,162.4	46.8	12.6	-90.39	2,690.2	805.3	377.4	320.7	56.71	6.655		
9,800.0	7,200.0	7,163.6	7,162.2	48.4	12.6	-90.21	2,690.2	805.3	279.4	221.0	58.40	4.785		
9,900.0	7,200.0	7,163.4	7,162.0	50.0	12.6	-90.04	2,690.2	805.3	183.7	123.6	60.08	3.057		
10,000.0	7,200.0	7,163.2	7,161.8	51.6	12.6	-89.86	2,690.2	805.3	96.8	35.1	61.69	1.569		
10,072.2	7,200.0	7,163.1	7,161.7	52.8	12.6	-89.73	2,690.2	805.3	64.5	1.6	62.91	1.025	Level 2, CC, ES, SF	
10,100.0	7,200.0	7,163.0	7,161.6	53.2	12.6	-89.68	2,690.2	805.3	70.2	6.8	63.39	1.108	Level 2	
10,200.0	7,200.0	7,162.8	7,161.4	54.8	12.6	-89.50	2,690.2	805.3	143.2	78.1	65.08	2.200		
10,300.0	7,200.0	7,162.6	7,161.2	56.5	12.6	-89.32	2,690.2	805.3	236.8	170.0	66.78	3.545		
10,400.0	7,200.0	7,162.4	7,161.0	58.1	12.6	-89.13	2,690.2	805.3	334.1	265.6	68.49	4.878		
10,500.0	7,200.0	7,162.2	7,160.8	59.8	12.6	-88.95	2,690.2	805.4	432.7	362.5	70.19	6.164		
10,600.0	7,200.0	7,162.0	7,160.6	61.4	12.6	-88.77	2,690.2	805.4	531.8	459.9	71.90	7.396		
10,700.0	7,200.0	7,161.8	7,160.4	63.1	12.6	-88.59	2,690.2	805.4	631.1	557.5	73.61	8.574		
10,800.0	7,200.0	7,161.6	7,160.2	64.7	12.6	-88.40	2,690.2	805.4	730.7	655.4	75.32	9.701		
10,900.0	7,200.0	7,161.4	7,160.0	66.4	12.6	-88.22	2,690.2	805.4	830.3	753.3	77.03	10.780		
11,000.0	7,200.0	7,161.2	7,159.8	68.1	12.6	-88.03	2,690.2	805.4	930.1	851.3	78.74	11.812		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S35-T3N-R67W (Kiyota) - KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SURVEYS		Offset Site Error:		0.0 ft
Survey Program:													528-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	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)							
11,600.0	7,200.0	7,237.4	7,172.0	78.2	19.2	-89.27	4,821.6	118.2	956.9	866.1	90.81	10.537					
11,700.0	7,200.0	7,237.0	7,171.7	79.9	19.2	-89.24	4,821.6	118.2	896.7	804.2	92.54	9.690					
11,700.7	7,200.0	7,237.0	7,171.7	79.9	19.2	-89.24	4,821.6	118.2	896.3	803.8	92.55	9.684	CC, ES, SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 34-35 (EXISTING) - ENCANA WELL - GYRO														Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-67.51	216.8	-523.7	566.9						
100.0	100.0	83.6	83.6	0.2	0.1	-67.54	216.6	-523.9	566.9	0.30	1,900.998 ES				
200.0	200.0	182.0	182.0	0.3	0.3	-67.60	216.2	-524.7	567.5	0.65	879.590				
300.0	300.0	281.3	281.3	0.5	0.5	-67.67	215.9	-525.6	568.3	0.99	571.705				
400.0	400.0	382.6	382.6	0.7	0.7	-67.72	215.7	-526.5	569.0	1.35	422.819				
500.0	500.0	484.3	484.3	0.9	0.8	173.84	215.5	-527.1	570.3	1.70	336.203				
600.0	600.0	584.5	584.4	1.0	1.0	173.81	215.1	-527.6	573.2	2.05	280.237				
700.0	699.9	682.9	682.9	1.2	1.2	173.80	214.8	-528.1	577.9	2.39	241.701				
800.0	799.7	783.8	783.8	1.4	1.4	173.81	214.5	-528.7	584.4	2.74	213.273				
900.0	899.4	881.8	881.8	1.6	1.5	173.83	214.2	-529.3	592.6	3.08	192.176				
1,000.0	998.9	980.9	980.8	1.8	1.7	173.89	214.1	-530.0	602.8	3.43	175.832				
1,100.0	1,098.3	1,078.3	1,078.3	2.1	1.9	173.94	214.0	-530.9	614.9	3.77	163.112				
1,200.0	1,197.4	1,177.1	1,177.0	2.3	2.1	173.99	213.7	-532.1	628.9	4.11	152.917				
1,300.0	1,296.3	1,275.9	1,275.8	2.6	2.2	174.03	213.3	-533.4	644.6	4.46	144.661				
1,400.0	1,395.1	1,373.9	1,373.9	2.9	2.4	174.09	212.8	-534.6	660.9	4.80	137.604				
1,500.0	1,493.9	1,473.2	1,473.1	3.2	2.6	174.14	212.3	-536.0	677.2	5.15	131.455				
1,600.0	1,592.7	1,573.4	1,573.3	3.5	2.8	174.21	211.9	-537.1	693.4	5.50	126.024				
1,700.0	1,691.5	1,672.6	1,672.5	3.8	2.9	174.28	211.6	-538.0	709.4	5.85	121.257				
1,800.0	1,790.4	1,770.4	1,770.3	4.1	3.1	174.38	211.7	-538.8	725.5	6.20	117.086				
1,900.0	1,889.2	1,867.6	1,867.5	4.5	3.3	174.49	212.0	-539.7	741.7	6.54	113.402				
2,000.0	1,988.0	1,963.0	1,962.9	4.8	3.4	174.58	212.2	-540.8	758.2	6.88	110.173				
2,100.0	2,086.8	2,059.2	2,059.1	5.1	3.6	174.64	212.3	-542.5	775.2	7.23	107.284				
2,200.0	2,185.6	2,156.9	2,156.7	5.4	3.8	174.68	212.2	-544.5	792.3	7.57	104.641				
2,300.0	2,284.4	2,254.1	2,253.9	5.7	4.0	174.70	211.9	-546.7	809.5	7.92	102.250				
2,400.0	2,383.2	2,351.4	2,351.2	6.0	4.1	174.71	211.6	-549.1	826.9	8.26	100.077				
2,500.0	2,482.0	2,450.8	2,450.6	6.3	4.3	174.71	211.2	-551.6	844.4	8.61	98.039				
2,600.0	2,580.8	2,551.1	2,550.9	6.7	4.5	174.71	210.6	-553.9	861.6	8.96	96.120				
2,700.0	2,679.7	2,648.4	2,648.1	7.0	4.7	174.73	210.3	-556.1	878.8	9.31	94.396				
2,800.0	2,778.5	2,744.9	2,744.6	7.3	4.8	174.76	210.4	-558.3	896.2	9.65	92.842				
2,900.0	2,877.3	2,841.4	2,841.1	7.6	5.0	174.80	210.6	-560.6	913.8	10.00	91.409				
3,000.0	2,976.1	2,938.4	2,938.0	7.9	5.2	174.85	211.1	-563.1	931.6	10.34	90.097				
3,100.0	3,074.9	3,038.3	3,037.9	8.2	5.4	174.91	211.6	-565.6	949.4	10.69	88.822				
3,200.0	3,173.7	3,136.6	3,136.2	8.6	5.5	175.00	212.7	-567.7	967.1	11.03	87.652				
3,300.0	3,272.5	3,236.7	3,236.3	8.9	5.7	175.11	214.1	-569.7	984.8	11.38	86.532 SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 43-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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)				
8,200.0	7,200.0	7,693.6	7,413.0	25.6	23.9	-130.91	1,661.4	600.3	915.5	886.1	29.41	31.125		
8,300.0	7,200.0	7,685.3	7,405.9	26.7	23.9	-129.61	1,662.0	596.1	824.4	793.6	30.75	26.809		
8,400.0	7,200.0	7,677.5	7,399.2	27.9	23.8	-128.36	1,662.6	592.2	735.4	703.2	32.14	22.879		
8,500.0	7,200.0	7,670.1	7,392.8	29.2	23.7	-127.17	1,663.1	588.4	649.5	615.9	33.59	19.339		
8,600.0	7,200.0	7,663.0	7,386.7	30.5	23.7	-126.04	1,663.6	584.8	568.2	533.2	35.08	16.200		
8,700.0	7,200.0	7,656.3	7,381.0	31.8	23.6	-124.95	1,664.1	581.3	493.8	457.2	36.61	13.488		
8,800.0	7,200.0	7,649.9	7,375.5	33.2	23.5	-123.92	1,664.5	578.0	429.7	391.5	38.17	11.257		
8,900.0	7,200.0	7,643.8	7,370.3	34.6	23.5	-122.92	1,664.9	574.8	381.3	341.5	39.77	9.588		
9,000.0	7,200.0	7,638.0	7,365.4	36.1	23.4	-121.98	1,665.3	571.8	355.0	313.6	41.39	8.578		
9,047.1	7,200.0	7,635.3	7,363.1	36.7	23.4	-121.54	1,665.5	570.4	351.9	309.7	42.16	8.347 CC, ES		
9,100.0	7,200.0	7,632.4	7,360.6	37.5	23.4	-121.07	1,665.7	568.9	355.8	312.8	43.03	8.270 SF		
9,200.0	7,200.0	7,627.0	7,356.1	39.0	23.3	-120.20	1,666.0	566.1	383.6	338.9	44.69	8.583		
9,300.0	7,200.0	7,621.9	7,351.7	40.5	23.3	-119.37	1,666.3	563.4	433.1	386.7	46.37	9.341		
9,400.0	7,200.0	7,617.0	7,347.6	42.1	23.2	-118.58	1,666.6	560.8	498.0	449.9	48.06	10.362		
9,500.0	7,200.0	7,612.3	7,343.6	43.6	23.2	-117.82	1,666.9	558.3	573.0	523.2	49.77	11.514		
9,600.0	7,200.0	7,600.0	7,333.2	45.2	23.1	-115.83	1,667.5	551.8	654.7	602.8	51.89	12.618		
9,700.0	7,200.0	7,600.0	7,333.2	46.8	23.1	-115.83	1,667.5	551.8	740.9	687.5	53.39	13.875		
9,800.0	7,200.0	7,600.0	7,333.2	48.4	23.1	-115.83	1,667.5	551.8	830.1	775.2	54.90	15.119		
9,900.0	7,200.0	7,600.0	7,333.2	50.0	23.1	-115.83	1,667.5	551.8	921.5	865.1	56.42	16.334		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 44-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	75.81	156.3	618.1	638.0					
100.0	100.0	74.3	74.3	0.2	0.1	75.80	156.5	618.1	637.6	637.3	0.28	2,263.485		
200.0	200.0	173.7	173.7	0.3	0.3	75.75	157.0	618.1	637.8	637.1	0.63	1,012.537		
300.0	300.0	274.7	274.6	0.5	0.5	75.70	157.5	618.1	637.9	636.9	0.98	650.513		
400.0	400.0	372.1	372.1	0.7	0.7	75.62	158.5	618.1	638.1	636.8	1.33	481.227		
500.0	500.0	468.2	468.2	0.9	0.8	-42.97	160.1	618.4	638.2	636.5	1.67	381.961		
600.0	600.0	564.0	564.0	1.0	1.0	-43.23	161.6	619.4	637.7	635.7	2.01	316.550		
700.0	699.9	660.1	660.0	1.2	1.2	-43.52	162.3	621.2	636.5	634.2	2.36	269.735		
800.0	799.7	759.5	759.4	1.4	1.3	-43.83	162.1	623.8	634.6	631.9	2.72	233.720		
900.0	899.4	861.3	861.1	1.6	1.5	-44.23	161.3	626.4	631.2	628.1	3.08	204.812		
1,000.0	998.9	961.8	961.6	1.8	1.7	-44.77	160.7	628.7	626.3	622.9	3.46	181.249		
1,100.0	1,098.3	1,061.5	1,061.3	2.1	1.9	-45.44	160.1	630.9	620.3	616.4	3.84	161.537		
1,200.0	1,197.4	1,163.2	1,163.0	2.3	2.0	-46.29	159.7	632.9	612.9	608.7	4.24	144.493		
1,300.0	1,296.3	1,263.9	1,263.7	2.6	2.2	-47.28	159.3	634.5	604.1	599.5	4.66	129.672		
1,400.0	1,395.1	1,363.0	1,362.7	2.9	2.4	-48.28	158.9	635.9	594.9	589.9	5.08	117.026		
1,500.0	1,493.9	1,466.9	1,466.6	3.2	2.6	-49.38	158.5	637.1	585.7	580.2	5.53	105.991		
1,600.0	1,592.7	1,570.1	1,569.9	3.5	2.8	-50.58	158.5	637.1	575.7	569.7	5.98	96.337		
1,700.0	1,691.5	1,668.6	1,668.4	3.8	2.9	-51.82	158.7	636.5	565.6	559.1	6.42	88.029		
1,800.0	1,790.4	1,765.7	1,765.5	4.1	3.1	-53.11	159.3	636.1	555.9	549.1	6.88	80.818		
1,900.0	1,889.2	1,862.6	1,862.3	4.5	3.3	-54.47	160.3	635.8	546.9	539.6	7.34	74.507		
2,000.0	1,988.0	1,958.4	1,958.1	4.8	3.4	-55.87	161.6	635.7	538.7	530.9	7.81	68.989		
2,100.0	2,086.8	2,054.9	2,054.6	5.1	3.6	-57.32	163.1	636.2	531.3	523.0	8.28	64.139		
2,200.0	2,185.6	2,152.1	2,151.8	5.4	3.8	-58.81	164.7	637.0	524.6	515.8	8.77	59.836		
2,300.0	2,284.4	2,250.2	2,249.9	5.7	3.9	-60.37	166.6	637.9	518.6	509.3	9.26	56.004		
2,400.0	2,383.2	2,351.1	2,350.8	6.0	4.1	-61.93	167.9	639.1	512.8	503.0	9.76	52.530		
2,500.0	2,482.0	2,452.0	2,451.6	6.3	4.3	-63.53	168.9	639.9	506.9	496.6	10.27	49.359		
2,600.0	2,580.8	2,551.2	2,550.9	6.7	4.5	-65.10	169.5	640.7	501.2	490.4	10.78	46.500		
2,700.0	2,679.7	2,650.6	2,650.3	7.0	4.7	-66.69	170.0	641.6	495.8	484.5	11.29	43.913		
2,800.0	2,778.5	2,750.0	2,749.7	7.3	4.8	-68.29	170.2	642.4	490.7	478.9	11.81	41.559		
2,900.0	2,877.3	2,851.8	2,851.4	7.6	5.0	-69.96	170.3	643.1	485.8	473.4	12.33	39.394		
3,000.0	2,976.1	2,957.0	2,956.6	7.9	5.2	-71.66	169.2	643.4	480.2	467.3	12.86	37.329		
3,100.0	3,074.9	3,059.2	3,058.8	8.2	5.4	-73.26	166.9	643.4	473.8	460.4	13.39	35.386		
3,200.0	3,173.7	3,157.7	3,157.3	8.6	5.5	-74.93	164.9	642.7	467.6	453.7	13.91	33.614		
3,300.0	3,272.5	3,256.1	3,255.7	8.9	5.7	-76.69	163.3	641.8	462.0	447.6	14.43	32.009		
3,400.0	3,371.3	3,352.5	3,352.1	9.2	5.9	-78.48	162.0	640.9	457.0	442.1	14.95	30.565		
3,500.0	3,470.1	3,448.1	3,447.7	9.5	6.0	-80.35	161.6	640.1	453.3	437.8	15.47	29.305		
3,600.0	3,568.9	3,545.9	3,545.5	9.8	6.2	-82.34	161.8	639.2	450.5	434.6	15.99	28.184		
3,700.0	3,667.8	3,644.8	3,644.4	10.2	6.4	-84.40	162.1	638.1	448.4	431.9	16.50	27.172		
3,800.0	3,766.6	3,744.9	3,744.5	10.5	6.5	-86.52	162.5	636.8	446.7	429.7	17.01	26.256		
3,900.0	3,865.4	3,845.9	3,845.5	10.8	6.7	-88.72	162.5	635.0	445.1	427.6	17.52	25.408		
4,000.0	3,964.2	3,945.8	3,945.3	11.1	6.9	-90.91	162.1	632.9	443.8	425.7	18.01	24.634		
4,100.0	4,063.0	4,044.2	4,043.7	11.4	7.1	-93.13	161.8	630.5	442.9	424.4	18.50	23.947		
4,152.6	4,115.0	4,095.7	4,095.1	11.6	7.2	-94.31	161.8	629.1	442.8	424.1	18.74	23.623		
4,200.0	4,161.8	4,141.6	4,141.0	11.8	7.2	-95.37	161.8	627.8	442.9	424.0	18.96	23.355		
4,300.0	4,260.6	4,238.7	4,238.1	12.1	7.4	-97.70	162.3	624.6	443.9	424.5	19.42	22.862		
4,400.0	4,359.4	4,335.5	4,334.9	12.4	7.6	-100.01	163.1	621.3	445.9	426.1	19.86	22.457		
4,500.0	4,458.2	4,430.9	4,430.2	12.7	7.7	-102.26	164.3	618.3	449.3	429.0	20.28	22.151		
4,600.0	4,557.0	4,527.0	4,526.2	13.1	7.9	-104.48	166.1	615.5	453.9	433.2	20.69	21.935		
4,700.0	4,655.9	4,625.2	4,624.4	13.4	8.1	-106.61	168.0	613.4	459.5	438.4	21.09	21.783		
4,800.0	4,754.7	4,726.6	4,725.8	13.7	8.3	-108.66	169.4	612.0	465.3	443.8	21.49	21.653		
4,900.0	4,853.5	4,827.4	4,826.5	14.0	8.4	-110.62	170.2	610.7	471.2	449.3	21.88	21.538		
5,000.0	4,952.3	4,927.6	4,926.8	14.3	8.6	-112.49	170.6	609.6	477.2	454.9	22.25	21.446		

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 44-35 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,051.1	5,028.8	5,028.0	14.7	8.8	-114.34	170.5	608.4	483.2	460.6	22.61	21.366		
5,200.0	5,149.9	5,129.1	5,128.3	15.0	9.0	-116.11	170.1	607.3	489.3	466.3	22.97	21.302		
5,300.0	5,248.7	5,229.4	5,228.5	15.3	9.1	-117.83	169.2	606.4	495.4	472.1	23.31	21.249		
5,400.0	5,347.5	5,327.6	5,326.7	15.6	9.3	-119.46	168.3	605.4	501.9	478.3	23.65	21.223		
5,500.0	5,446.3	5,425.4	5,424.5	15.9	9.5	-121.03	167.5	604.6	509.0	485.0	23.98	21.227		
5,600.0	5,545.1	5,522.7	5,521.7	16.3	9.6	-122.54	167.0	603.9	516.7	492.4	24.30	21.263		
5,700.0	5,644.0	5,619.9	5,619.0	16.6	9.8	-123.98	166.8	603.3	525.0	500.4	24.62	21.327		
5,800.0	5,742.8	5,716.2	5,715.3	16.9	10.0	-125.32	167.0	603.2	534.1	509.2	24.94	21.419		
5,900.0	5,841.6	5,813.9	5,813.0	17.2	10.2	-126.54	167.7	603.9	543.8	518.5	25.26	21.529		
6,000.0	5,940.4	5,912.0	5,911.1	17.5	10.3	-127.69	168.6	604.7	553.9	528.3	25.58	21.653		
6,100.0	6,039.2	6,011.8	6,010.8	17.9	10.5	-128.88	169.3	605.1	564.1	538.2	25.89	21.787		
6,200.0	6,138.0	6,110.3	6,109.4	18.2	10.7	-130.05	169.9	605.2	574.6	548.4	26.20	21.933		
6,300.0	6,236.8	6,209.0	6,208.1	18.5	10.8	-131.18	170.6	605.2	585.3	558.8	26.50	22.086		
6,400.0	6,335.6	6,307.9	6,306.9	18.8	11.0	-132.26	171.3	605.3	596.3	569.5	26.80	22.245		
6,500.0	6,434.4	6,408.4	6,407.4	19.2	11.2	-133.34	171.7	605.3	607.2	580.1	27.10	22.404		
6,600.0	6,533.4	6,505.8	6,504.9	19.4	11.4	-82.44	172.1	605.0	612.3	584.9	27.35	22.386		
6,700.0	6,631.6	6,603.5	6,602.6	19.6	11.5	-52.59	172.7	604.7	604.5	577.3	27.17	22.246		
6,800.0	6,727.0	6,699.7	6,698.7	19.7	11.7	-43.00	173.1	604.3	584.1	557.5	26.60	21.962		
6,900.0	6,817.8	6,793.0	6,792.1	19.7	11.9	-41.05	173.3	603.8	552.0	526.2	25.71	21.469		
7,000.0	6,902.2	6,876.8	6,875.8	19.7	12.0	-43.15	173.1	603.1	509.5	484.8	24.70	20.623		
7,100.0	6,978.6	6,952.7	6,951.7	19.7	12.1	-48.58	173.0	602.3	459.1	435.2	23.90	19.206		
7,200.0	7,045.6	7,019.6	7,018.6	19.7	12.3	-57.19	172.9	601.6	403.8	380.1	23.72	17.024		
7,300.0	7,101.7	7,076.2	7,075.2	19.8	12.4	-68.19	172.7	601.0	348.4	324.1	24.30	14.338		
7,400.0	7,145.9	7,120.1	7,119.1	20.0	12.4	-79.17	172.5	600.6	300.6	275.5	25.16	11.950		
7,500.0	7,177.3	7,151.1	7,150.1	20.3	12.5	-87.29	172.4	600.3	271.9	246.1	25.84	10.523		
7,545.7	7,187.3	7,161.0	7,160.0	20.5	12.5	-89.50	172.4	600.2	268.4	242.3	26.14	10.271	CC, ES, SF	
7,600.0	7,195.4	7,169.0	7,168.1	20.7	12.5	-90.71	172.4	600.2	273.4	247.0	26.45	10.337		
7,700.0	7,200.0	7,173.5	7,172.6	21.2	12.5	-89.48	172.4	600.1	307.1	280.0	27.16	11.309		
7,800.0	7,200.0	7,173.4	7,172.5	21.9	12.5	-89.46	172.4	600.1	365.4	337.3	28.10	13.003		
7,900.0	7,200.0	7,173.3	7,172.3	22.7	12.5	-89.44	172.4	600.1	439.0	409.9	29.18	15.046		
8,000.0	7,200.0	7,173.2	7,172.2	23.5	12.5	-89.41	172.4	600.1	521.5	491.1	30.36	17.176		
8,100.0	7,200.0	7,173.1	7,172.1	24.5	12.5	-89.39	172.4	600.1	609.3	577.6	31.63	19.259		
8,200.0	7,200.0	7,173.0	7,172.0	25.6	12.5	-89.37	172.4	600.1	700.3	667.3	32.98	21.235		
8,300.0	7,200.0	7,172.9	7,171.9	26.7	12.5	-89.35	172.4	600.1	793.5	759.1	34.38	23.081		
8,400.0	7,200.0	7,172.8	7,171.8	27.9	12.5	-89.32	172.4	600.1	888.2	852.3	35.83	24.790		
8,500.0	7,200.0	7,172.7	7,171.7	29.2	12.5	-89.30	172.4	600.1	983.9	946.6	37.32	26.367		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4A-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 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	-89.68	0.4	-67.6	67.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.68	0.4	-67.6	67.6	67.3	0.30	222.676		
200.0	200.0	200.0	200.0	0.3	0.3	-89.68	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	-89.93	0.1	-68.4	68.4	67.4	1.00	68.380		
400.0	400.0	397.7	397.7	0.7	0.7	-90.64	-0.8	-70.8	70.9	69.5	1.35	52.386		
500.0	500.0	496.4	496.3	0.9	0.9	150.18	-2.3	-74.8	75.7	74.0	1.70	44.648		
600.0	600.0	594.8	594.5	1.0	1.1	149.71	-4.3	-80.4	83.7	81.6	2.04	40.935		
700.0	699.9	692.7	692.1	1.2	1.3	149.52	-6.9	-87.5	94.8	92.4	2.39	39.583 SF		
800.0	799.7	790.1	789.0	1.4	1.5	149.54	-10.0	-96.1	109.0	106.2	2.75	39.669		
900.0	899.4	886.7	885.0	1.6	1.7	149.68	-13.7	-106.2	126.3	123.2	3.10	40.684		
1,000.0	998.9	982.4	980.0	1.8	2.0	149.89	-17.9	-117.7	146.6	143.1	3.46	42.319		
1,100.0	1,098.3	1,077.2	1,073.8	2.1	2.3	150.12	-22.6	-130.6	169.9	166.1	3.83	44.379		
1,200.0	1,197.4	1,170.8	1,166.2	2.3	2.6	150.34	-27.8	-144.7	196.2	192.0	4.20	46.729		
1,300.0	1,296.3	1,263.3	1,257.2	2.6	2.9	150.58	-33.4	-160.0	225.5	220.9	4.58	49.273		
1,400.0	1,395.1	1,357.7	1,349.9	2.9	3.2	150.85	-39.5	-176.6	256.2	251.3	4.97	51.596		
1,500.0	1,493.9	1,452.8	1,443.3	3.2	3.6	151.06	-45.6	-193.4	287.0	281.7	5.36	53.546		
1,600.0	1,592.7	1,547.9	1,536.8	3.5	3.9	151.23	-51.7	-210.2	317.8	312.1	5.76	55.207		
1,700.0	1,691.5	1,643.1	1,630.2	3.8	4.2	151.38	-57.9	-227.0	348.6	342.5	6.16	56.636		
1,800.0	1,790.4	1,738.2	1,723.7	4.1	4.6	151.49	-64.0	-243.8	379.4	372.9	6.56	57.878		
1,900.0	1,889.2	1,833.3	1,817.1	4.5	4.9	151.59	-70.1	-260.6	410.2	403.3	6.96	58.967		
2,000.0	1,988.0	1,928.5	1,910.5	4.8	5.3	151.68	-76.3	-277.4	441.0	433.7	7.36	59.929		
2,100.0	2,086.8	2,023.6	2,004.0	5.1	5.6	151.76	-82.4	-294.2	471.8	464.1	7.76	60.784		
2,200.0	2,185.6	2,118.8	2,097.4	5.4	6.0	151.82	-88.6	-310.9	502.6	494.5	8.17	61.548		
2,300.0	2,284.4	2,213.9	2,190.9	5.7	6.3	151.88	-94.7	-327.7	533.4	524.9	8.57	62.236		
2,400.0	2,383.2	2,309.0	2,284.3	6.0	6.7	151.93	-100.8	-344.5	564.2	555.3	8.98	62.858		
2,500.0	2,482.0	2,404.2	2,377.8	6.3	7.1	151.98	-107.0	-361.3	595.1	585.7	9.38	63.423		
2,600.0	2,580.8	2,499.3	2,471.2	6.7	7.4	152.02	-113.1	-378.1	625.9	616.1	9.79	63.938		
2,700.0	2,679.7	2,594.4	2,564.6	7.0	7.8	152.06	-119.2	-394.9	656.7	646.5	10.20	64.410		
2,800.0	2,778.5	2,689.6	2,658.1	7.3	8.1	152.09	-125.4	-411.7	687.5	676.9	10.60	64.844		
2,900.0	2,877.3	2,784.7	2,751.5	7.6	8.5	152.13	-131.5	-428.4	718.3	707.3	11.01	65.244		
3,000.0	2,976.1	2,879.8	2,845.0	7.9	8.8	152.16	-137.6	-445.2	749.1	737.7	11.42	65.613		
3,100.0	3,074.9	2,975.0	2,938.4	8.2	9.2	152.18	-143.8	-462.0	779.9	768.1	11.82	65.956		
3,200.0	3,173.7	3,070.1	3,031.8	8.6	9.5	152.21	-149.9	-478.8	810.7	798.5	12.23	66.275		
3,300.0	3,272.5	3,165.2	3,125.3	8.9	9.9	152.23	-156.0	-495.6	841.5	828.9	12.64	66.573		
3,400.0	3,371.3	3,260.4	3,218.7	9.2	10.2	152.25	-162.2	-512.4	872.3	859.3	13.05	66.851		
3,500.0	3,470.1	3,355.5	3,312.2	9.5	10.6	152.27	-168.3	-529.2	903.1	889.7	13.46	67.111		
3,600.0	3,568.9	3,450.7	3,405.6	9.8	11.0	152.29	-174.4	-546.0	933.9	920.1	13.87	67.355		
3,700.0	3,667.8	3,545.8	3,499.1	10.2	11.3	152.31	-180.6	-562.7	964.7	950.5	14.27	67.584		
3,800.0	3,766.6	3,640.9	3,592.5	10.5	11.7	152.32	-186.7	-579.5	995.5	980.9	14.68	67.801		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4B-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.64	0.4	-60.1	60.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.64	0.4	-60.1	60.1	59.8	0.30	197.831		
200.0	200.0	200.0	200.0	0.3	0.3	-89.64	0.4	-60.1	60.1	59.4	0.65	92.040		
300.0	300.0	300.0	300.0	0.5	0.5	-89.64	0.4	-60.1	60.1	59.1	1.00	59.970 CC, ES		
400.0	400.0	399.1	399.0	0.7	0.7	-90.01	0.0	-60.8	60.9	59.5	1.35	45.078		
500.0	500.0	498.0	498.0	0.9	0.9	150.92	-1.1	-63.1	63.9	62.2	1.70	37.673		
600.0	600.0	596.8	596.7	1.0	1.0	150.40	-3.0	-67.0	70.1	68.1	2.05	34.264		
700.0	699.9	695.2	694.9	1.2	1.2	150.06	-5.7	-72.3	79.4	77.0	2.40	33.099 SF		
800.0	799.7	793.1	792.5	1.4	1.4	149.86	-9.1	-79.1	91.7	88.9	2.75	33.303		
900.0	899.4	890.4	889.4	1.6	1.7	149.78	-13.1	-87.3	107.0	103.9	3.11	34.385		
1,000.0	998.9	986.9	985.3	1.8	1.9	149.76	-17.9	-96.9	125.3	121.8	3.48	36.053		
1,100.0	1,098.3	1,082.6	1,080.2	2.1	2.1	149.78	-23.3	-107.9	146.6	142.8	3.85	38.115		
1,200.0	1,197.4	1,178.4	1,175.0	2.3	2.4	149.84	-29.4	-120.1	170.7	166.4	4.22	40.402		
1,300.0	1,296.3	1,275.0	1,270.6	2.6	2.7	150.10	-35.7	-132.7	196.4	191.8	4.61	42.591		
1,400.0	1,395.1	1,371.5	1,366.0	2.9	3.0	150.46	-41.9	-145.2	222.7	217.7	5.01	44.474		
1,500.0	1,493.9	1,468.0	1,461.5	3.2	3.3	150.75	-48.1	-157.8	249.0	243.6	5.41	46.058		
1,600.0	1,592.7	1,564.4	1,556.9	3.5	3.5	150.99	-54.3	-170.3	275.3	269.5	5.81	47.409		
1,700.0	1,691.5	1,660.9	1,652.4	3.8	3.8	151.18	-60.6	-182.9	301.6	295.3	6.21	48.572		
1,800.0	1,790.4	1,757.4	1,747.9	4.1	4.1	151.34	-66.8	-195.4	327.8	321.2	6.61	49.583		
1,900.0	1,889.2	1,853.9	1,843.3	4.5	4.4	151.48	-73.0	-207.9	354.1	347.1	7.02	50.471		
2,000.0	1,988.0	1,950.4	1,938.8	4.8	4.7	151.60	-79.2	-220.5	380.4	373.0	7.42	51.255		
2,100.0	2,086.8	2,046.8	2,034.2	5.1	5.0	151.70	-85.5	-233.0	406.7	398.9	7.83	51.952		
2,200.0	2,185.6	2,143.3	2,129.7	5.4	5.3	151.80	-91.7	-245.6	433.0	424.8	8.24	52.576		
2,300.0	2,284.4	2,239.8	2,225.1	5.7	5.6	151.88	-97.9	-258.1	459.3	450.7	8.64	53.138		
2,400.0	2,383.2	2,336.3	2,320.6	6.0	5.9	151.95	-104.1	-270.6	485.6	476.6	9.05	53.647		
2,500.0	2,482.0	2,432.7	2,416.0	6.3	6.2	152.01	-110.4	-283.2	511.9	502.5	9.46	54.109		
2,600.0	2,580.8	2,529.2	2,511.5	6.7	6.5	152.07	-116.6	-295.7	538.2	528.4	9.87	54.530		
2,700.0	2,679.7	2,625.7	2,607.0	7.0	6.8	152.12	-122.8	-308.3	564.6	554.3	10.28	54.917		
2,800.0	2,778.5	2,722.2	2,702.4	7.3	7.1	152.17	-129.0	-320.8	590.9	580.2	10.69	55.272		
2,900.0	2,877.3	2,818.6	2,797.9	7.6	7.4	152.22	-135.2	-333.4	617.2	606.1	11.10	55.600		
3,000.0	2,976.1	2,915.1	2,893.3	7.9	7.7	152.26	-141.5	-345.9	643.5	632.0	11.51	55.903		
3,100.0	3,074.9	3,011.6	2,988.8	8.2	7.9	152.29	-147.7	-358.4	669.8	657.8	11.92	56.184		
3,200.0	3,173.7	3,108.1	3,084.2	8.6	8.2	152.33	-153.9	-371.0	696.1	683.7	12.33	56.446		
3,300.0	3,272.5	3,204.6	3,179.7	8.9	8.5	152.36	-160.1	-383.5	722.4	709.6	12.74	56.690		
3,400.0	3,371.3	3,301.0	3,275.2	9.2	8.8	152.39	-166.4	-396.1	748.7	735.5	13.15	56.918		
3,500.0	3,470.1	3,397.5	3,370.6	9.5	9.1	152.42	-172.6	-408.6	775.0	761.4	13.56	57.132		
3,600.0	3,568.9	3,494.0	3,466.1	9.8	9.4	152.44	-178.8	-421.2	801.3	787.3	13.98	57.332		
3,700.0	3,667.8	3,590.5	3,561.5	10.2	9.7	152.47	-185.0	-433.7	827.6	813.2	14.39	57.521		
3,800.0	3,766.6	3,686.9	3,657.0	10.5	10.0	152.49	-191.3	-446.2	853.9	839.1	14.80	57.699		
3,900.0	3,865.4	3,783.4	3,752.4	10.8	10.3	152.51	-197.5	-458.8	880.2	865.0	15.21	57.866		
4,000.0	3,964.2	3,879.9	3,847.9	11.1	10.6	152.53	-203.7	-471.3	906.5	890.9	15.62	58.025		
4,100.0	4,063.0	3,976.4	3,943.3	11.4	10.9	152.55	-209.9	-483.9	932.8	916.8	16.03	58.175		
4,200.0	4,161.8	4,072.9	4,038.8	11.8	11.2	152.57	-216.2	-496.4	959.1	942.7	16.45	58.317		
4,300.0	4,260.6	4,169.3	4,134.3	12.1	11.5	152.59	-222.4	-509.0	985.4	968.6	16.86	58.453		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4C-35H-O367 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.60	0.4	-52.5	52.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.60	0.4	-52.5	52.5	52.2	0.30	172.989		
200.0	200.0	200.0	200.0	0.3	0.3	-89.60	0.4	-52.5	52.5	51.9	0.65	80.482		
300.0	300.0	300.0	300.0	0.5	0.5	-89.60	0.4	-52.5	52.5	51.5	1.00	52.439		
400.0	400.0	400.0	400.0	0.7	0.7	-89.60	0.4	-52.5	52.5	51.2	1.35	38.889 CC, ES		
500.0	500.0	499.3	499.3	0.9	0.8	151.82	-0.2	-53.2	54.0	52.3	1.70	31.763		
600.0	600.0	598.5	598.4	1.0	1.0	151.36	-1.9	-55.2	58.2	56.2	2.05	28.436		
700.0	699.9	697.4	697.2	1.2	1.2	150.72	-4.6	-58.4	65.4	63.0	2.40	27.235 SF		
800.0	799.7	795.9	795.6	1.4	1.4	150.03	-8.5	-63.0	75.4	72.6	2.76	27.329		
900.0	899.4	894.0	893.4	1.6	1.6	149.36	-13.4	-68.8	88.2	85.1	3.12	28.252		
1,000.0	998.9	991.5	990.4	1.8	1.8	148.75	-19.4	-75.8	103.8	100.4	3.49	29.719		
1,100.0	1,098.3	1,089.6	1,088.0	2.1	2.0	148.37	-26.1	-83.7	121.9	118.0	3.88	31.444		
1,200.0	1,197.4	1,187.6	1,185.5	2.3	2.3	148.43	-32.8	-91.7	141.4	137.1	4.26	33.152		
1,300.0	1,296.3	1,285.4	1,282.7	2.6	2.5	148.78	-39.6	-99.6	162.3	157.7	4.66	34.834		
1,400.0	1,395.1	1,383.1	1,379.8	2.9	2.7	149.22	-46.3	-107.5	183.8	178.8	5.06	36.303		
1,500.0	1,493.9	1,480.7	1,476.9	3.2	3.0	149.58	-53.0	-115.5	205.3	199.8	5.47	37.538		
1,600.0	1,592.7	1,578.4	1,574.0	3.5	3.2	149.86	-59.7	-123.4	226.8	220.9	5.88	38.591		
1,700.0	1,691.5	1,676.0	1,671.1	3.8	3.5	150.10	-66.4	-131.3	248.3	242.0	6.29	39.497		
1,800.0	1,790.4	1,773.7	1,768.2	4.1	3.7	150.30	-73.1	-139.2	269.8	263.1	6.70	40.285		
1,900.0	1,889.2	1,871.3	1,865.3	4.5	4.0	150.47	-79.9	-147.2	291.3	284.2	7.11	40.975		
2,000.0	1,988.0	1,969.0	1,962.4	4.8	4.2	150.61	-86.6	-155.1	312.9	305.3	7.52	41.586		
2,100.0	2,086.8	2,066.7	2,059.5	5.1	4.4	150.74	-93.3	-163.0	334.4	326.4	7.94	42.129		
2,200.0	2,185.6	2,164.3	2,156.6	5.4	4.7	150.85	-100.0	-170.9	355.9	347.5	8.35	42.615		
2,300.0	2,284.4	2,262.0	2,253.7	5.7	4.9	150.95	-106.7	-178.9	377.4	368.6	8.77	43.052		
2,400.0	2,383.2	2,359.6	2,350.8	6.0	5.2	151.04	-113.4	-186.8	398.9	389.8	9.18	43.448		
2,500.0	2,482.0	2,457.3	2,447.9	6.3	5.4	151.12	-120.2	-194.7	420.5	410.9	9.60	43.808		
2,600.0	2,580.8	2,554.9	2,545.0	6.7	5.7	151.19	-126.9	-202.6	442.0	432.0	10.01	44.136		
2,700.0	2,679.7	2,652.6	2,642.1	7.0	5.9	151.26	-133.6	-210.5	463.5	453.1	10.43	44.437		
2,800.0	2,778.5	2,750.2	2,739.2	7.3	6.2	151.32	-140.3	-218.5	485.0	474.2	10.85	44.713		
2,900.0	2,877.3	2,847.9	2,836.3	7.6	6.4	151.37	-147.0	-226.4	506.5	495.3	11.26	44.968		
3,000.0	2,976.1	2,945.6	2,933.4	7.9	6.7	151.42	-153.7	-234.3	528.1	516.4	11.68	45.205		
3,100.0	3,074.9	3,043.2	3,030.5	8.2	6.9	151.47	-160.5	-242.2	549.6	537.5	12.10	45.424		
3,200.0	3,173.7	3,140.9	3,127.6	8.6	7.2	151.51	-167.2	-250.2	571.1	558.6	12.52	45.627		
3,300.0	3,272.5	3,238.5	3,224.7	8.9	7.4	151.55	-173.9	-258.1	592.6	579.7	12.93	45.817		
3,400.0	3,371.3	3,336.2	3,321.8	9.2	7.7	151.58	-180.6	-266.0	614.2	600.8	13.35	45.995		
3,500.0	3,470.1	3,433.8	3,418.9	9.5	7.9	151.62	-187.3	-273.9	635.7	621.9	13.77	46.162		
3,600.0	3,568.9	3,531.5	3,516.0	9.8	8.1	151.65	-194.1	-281.9	657.2	643.0	14.19	46.318		
3,700.0	3,667.8	3,629.1	3,613.1	10.2	8.4	151.68	-200.8	-289.8	678.7	664.1	14.61	46.465		
3,800.0	3,766.6	3,726.8	3,710.2	10.5	8.6	151.71	-207.5	-297.7	700.3	685.2	15.03	46.603		
3,900.0	3,865.4	3,824.5	3,807.3	10.8	8.9	151.73	-214.2	-305.6	721.8	706.3	15.44	46.734		
4,000.0	3,964.2	3,922.1	3,904.4	11.1	9.1	151.76	-220.9	-313.5	743.3	727.4	15.86	46.858		
4,100.0	4,063.0	4,019.8	4,001.5	11.4	9.4	151.78	-227.6	-321.5	764.8	748.5	16.28	46.975		
4,200.0	4,161.8	4,117.4	4,098.6	11.8	9.6	151.80	-234.4	-329.4	786.4	769.7	16.70	47.086		
4,300.0	4,260.6	4,215.1	4,195.7	12.1	9.9	151.83	-241.1	-337.3	807.9	790.8	17.12	47.191		
4,400.0	4,359.4	4,312.7	4,292.8	12.4	10.1	151.85	-247.8	-345.2	829.4	811.9	17.54	47.291		
4,500.0	4,458.2	4,410.4	4,389.9	12.7	10.4	151.86	-254.5	-353.2	850.9	833.0	17.96	47.386		
4,600.0	4,557.0	4,508.0	4,487.0	13.1	10.6	151.88	-261.2	-361.1	872.5	854.1	18.38	47.477		
4,700.0	4,655.9	4,605.7	4,584.1	13.4	10.9	151.90	-267.9	-369.0	894.0	875.2	18.80	47.564		
4,800.0	4,754.7	4,703.4	4,681.2	13.7	11.1	151.92	-274.7	-376.9	915.5	896.3	19.21	47.647		
4,900.0	4,853.5	4,801.0	4,778.4	14.0	11.4	151.93	-281.4	-384.9	937.0	917.4	19.63	47.726		
5,000.0	4,952.3	4,898.7	4,875.5	14.3	11.6	151.95	-288.1	-392.8	958.6	938.5	20.05	47.802		
5,100.0	5,051.1	4,996.3	4,972.6	14.7	11.9	151.96	-294.8	-400.7	980.1	959.6	20.47	47.874		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4D-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 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	-89.55	0.4	-45.0	45.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.55	0.4	-45.0	45.0	44.7	0.30	148.146		
200.0	200.0	200.0	200.0	0.3	0.3	-89.55	0.4	-45.0	45.0	44.3	0.65	68.924		
300.0	300.0	300.0	300.0	0.5	0.5	-89.55	0.4	-45.0	45.0	44.0	1.00	44.908		
400.0	400.0	400.0	400.0	0.7	0.7	-89.55	0.4	-45.0	45.0	43.6	1.35	33.304 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	152.56	0.4	-45.0	45.8	44.1	1.70	26.920		
600.0	600.0	599.4	599.4	1.0	1.0	153.19	-0.3	-45.6	48.7	46.6	2.05	23.750		
700.0	699.9	698.7	698.7	1.2	1.2	153.13	-2.2	-47.3	54.2	51.8	2.40	22.597 SF		
800.0	799.7	797.7	797.6	1.4	1.4	152.58	-5.4	-50.1	62.4	59.7	2.75	22.671		
900.0	899.4	896.3	896.0	1.6	1.6	151.76	-9.9	-54.1	73.3	70.2	3.12	23.533		
1,000.0	998.9	994.5	993.9	1.8	1.8	150.84	-15.6	-59.1	86.9	83.4	3.49	24.916		
1,100.0	1,098.3	1,092.9	1,091.9	2.1	2.0	150.08	-22.3	-65.1	102.8	99.0	3.87	26.590		
1,200.0	1,197.4	1,191.3	1,189.9	2.3	2.2	149.89	-29.1	-71.0	120.3	116.1	4.26	28.281		
1,300.0	1,296.3	1,289.5	1,287.7	2.6	2.4	150.09	-35.8	-77.0	139.3	134.7	4.65	29.963		
1,400.0	1,395.1	1,387.6	1,385.3	2.9	2.6	150.42	-42.6	-83.0	158.9	153.8	5.05	31.442		
1,500.0	1,493.9	1,485.6	1,483.0	3.2	2.9	150.67	-49.3	-88.9	178.4	172.9	5.46	32.687		
1,600.0	1,592.7	1,583.7	1,580.6	3.5	3.1	150.88	-56.0	-94.9	197.9	192.0	5.86	33.747		
1,700.0	1,691.5	1,681.8	1,678.3	3.8	3.3	151.05	-62.8	-100.9	217.4	211.2	6.27	34.659		
1,800.0	1,790.4	1,779.9	1,775.9	4.1	3.5	151.19	-69.5	-106.9	237.0	230.3	6.68	35.453		
1,900.0	1,889.2	1,877.9	1,873.6	4.5	3.8	151.31	-76.3	-112.8	256.5	249.4	7.10	36.148		
2,000.0	1,988.0	1,976.0	1,971.3	4.8	4.0	151.41	-83.0	-118.8	276.0	268.5	7.51	36.763		
2,100.0	2,086.8	2,074.1	2,068.9	5.1	4.2	151.50	-89.8	-124.8	295.6	287.6	7.92	37.309		
2,200.0	2,185.6	2,172.2	2,166.6	5.4	4.4	151.58	-96.5	-130.7	315.1	306.8	8.34	37.798		
2,300.0	2,284.4	2,270.2	2,264.2	5.7	4.7	151.65	-103.2	-136.7	334.6	325.9	8.75	38.238		
2,400.0	2,383.2	2,368.3	2,361.9	6.0	4.9	151.71	-110.0	-142.7	354.2	345.0	9.17	38.636		
2,500.0	2,482.0	2,466.4	2,459.6	6.3	5.1	151.77	-116.7	-148.6	373.7	364.1	9.58	38.998		
2,600.0	2,580.8	2,564.5	2,557.2	6.7	5.4	151.82	-123.5	-154.6	393.2	383.2	10.00	39.328		
2,700.0	2,679.7	2,662.5	2,654.9	7.0	5.6	151.86	-130.2	-160.6	412.8	402.4	10.42	39.630		
2,800.0	2,778.5	2,760.6	2,752.5	7.3	5.8	151.90	-136.9	-166.5	432.3	421.5	10.83	39.908		
2,900.0	2,877.3	2,858.7	2,850.2	7.6	6.0	151.94	-143.7	-172.5	451.8	440.6	11.25	40.165		
3,000.0	2,976.1	2,956.7	2,947.9	7.9	6.3	151.98	-150.4	-178.5	471.4	459.7	11.67	40.402		
3,100.0	3,074.9	3,054.8	3,045.5	8.2	6.5	152.01	-157.2	-184.4	490.9	478.8	12.08	40.622		
3,200.0	3,173.7	3,152.9	3,143.2	8.6	6.7	152.04	-163.9	-190.4	510.4	497.9	12.50	40.826		
3,300.0	3,272.5	3,251.0	3,240.8	8.9	7.0	152.06	-170.6	-196.4	530.0	517.1	12.92	41.017		
3,400.0	3,371.3	3,349.0	3,338.5	9.2	7.2	152.09	-177.4	-202.3	549.5	536.2	13.34	41.195		
3,500.0	3,470.1	3,447.1	3,436.1	9.5	7.4	152.11	-184.1	-208.3	569.1	555.3	13.76	41.362		
3,600.0	3,568.9	3,545.2	3,533.8	9.8	7.7	152.13	-190.9	-214.3	588.6	574.4	14.18	41.519		
3,700.0	3,667.8	3,643.3	3,631.5	10.2	7.9	152.15	-197.6	-220.2	608.1	593.5	14.60	41.667		
3,800.0	3,766.6	3,741.3	3,729.1	10.5	8.1	152.17	-204.4	-226.2	627.7	612.7	15.01	41.806		
3,900.0	3,865.4	3,839.4	3,826.8	10.8	8.4	152.19	-211.1	-232.2	647.2	631.8	15.43	41.937		
4,000.0	3,964.2	3,937.5	3,924.4	11.1	8.6	152.21	-217.8	-238.1	666.7	650.9	15.85	42.061		
4,100.0	4,063.0	4,035.5	4,022.1	11.4	8.8	152.22	-224.6	-244.1	686.3	670.0	16.27	42.178		
4,200.0	4,161.8	4,133.6	4,119.8	11.8	9.0	152.24	-231.3	-250.1	705.8	689.1	16.69	42.289		
4,300.0	4,260.6	4,231.7	4,217.4	12.1	9.3	152.25	-238.1	-256.0	725.4	708.2	17.11	42.395		
4,400.0	4,359.4	4,329.8	4,315.1	12.4	9.5	152.27	-244.8	-262.0	744.9	727.4	17.53	42.495		
4,500.0	4,458.2	4,427.8	4,412.7	12.7	9.7	152.28	-251.5	-268.0	764.4	746.5	17.95	42.591		
4,600.0	4,557.0	4,525.9	4,510.4	13.1	10.0	152.29	-258.3	-273.9	784.0	765.6	18.37	42.682		
4,700.0	4,655.9	4,624.0	4,608.0	13.4	10.2	152.30	-265.0	-279.9	803.5	784.7	18.79	42.768		
4,800.0	4,754.7	4,722.1	4,705.7	13.7	10.4	152.31	-271.8	-285.9	823.0	803.8	19.21	42.851		
4,900.0	4,853.5	4,820.1	4,803.4	14.0	10.7	152.32	-278.5	-291.8	842.6	823.0	19.63	42.931		
5,000.0	4,952.3	4,918.2	4,901.0	14.3	10.9	152.33	-285.2	-297.8	862.1	842.1	20.05	43.006		
5,100.0	5,051.1	5,016.3	4,998.7	14.7	11.1	152.34	-292.0	-303.8	881.7	861.2	20.47	43.079		

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

Offset Design												S35-T3N-R67W (Kiyota) - Kiyota 4D-35H-O367 - Hz - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:												0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)							
5,200.0	5,149.9	5,114.3	5,096.3	15.0	11.4	152.35	-298.7	-309.7	901.2	880.3	20.89	43.149					
5,300.0	5,248.7	5,212.4	5,194.0	15.3	11.6	152.36	-305.5	-315.7	920.7	899.4	21.31	43.215					
5,400.0	5,347.5	5,310.5	5,291.7	15.6	11.8	152.37	-312.2	-321.7	940.3	918.5	21.73	43.280					
5,500.0	5,446.3	5,408.6	5,389.3	15.9	12.1	152.38	-319.0	-327.7	959.8	937.7	22.15	43.341					
5,600.0	5,545.1	5,506.6	5,487.0	16.3	12.3	152.39	-325.7	-333.6	979.3	956.8	22.57	43.401					
5,700.0	5,644.0	5,604.7	5,584.6	16.6	12.5	152.39	-332.4	-339.6	998.9	975.9	22.99	43.458					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.47	0.3	-37.4	37.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.47	0.3	-37.4	37.4	37.1	0.30	123.303		
200.0	200.0	200.0	200.0	0.3	0.3	-89.47	0.3	-37.4	37.4	36.8	0.65	57.366		
300.0	300.0	300.0	300.0	0.5	0.5	-89.47	0.3	-37.4	37.4	36.4	1.00	37.378		
400.0	400.0	400.0	400.0	0.7	0.7	-89.47	0.3	-37.4	37.4	36.1	1.35	27.719 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	152.74	0.3	-37.4	38.2	36.5	1.70	22.483		
600.0	600.0	600.0	600.0	1.0	1.0	154.42	0.3	-37.4	40.6	38.5	2.05	19.796		
700.0	699.9	699.6	699.6	1.2	1.2	155.80	-0.4	-37.8	44.9	42.5	2.40	18.711 SF		
800.0	799.7	799.0	799.0	1.4	1.4	155.90	-2.7	-39.1	51.5	48.7	2.75	18.718		
900.0	899.4	898.2	898.1	1.6	1.6	155.13	-6.5	-41.1	60.4	57.3	3.11	19.421		
1,000.0	998.9	997.1	996.8	1.8	1.7	153.88	-11.8	-43.9	71.6	68.1	3.48	20.584		
1,100.0	1,098.3	1,095.9	1,095.3	2.1	1.9	152.56	-18.5	-47.3	85.0	81.1	3.85	22.044		
1,200.0	1,197.4	1,194.7	1,193.8	2.3	2.1	151.94	-25.3	-50.9	100.1	95.8	4.24	23.589		
1,300.0	1,296.3	1,293.4	1,292.2	2.6	2.3	151.87	-32.1	-54.5	116.6	112.0	4.63	25.166		
1,400.0	1,395.1	1,391.9	1,390.4	2.9	2.5	152.00	-38.9	-58.1	133.8	128.7	5.04	26.565		
1,500.0	1,493.9	1,490.4	1,488.6	3.2	2.8	152.10	-45.7	-61.7	150.9	145.5	5.44	27.742		
1,600.0	1,592.7	1,588.9	1,586.8	3.5	3.0	152.18	-52.5	-65.3	168.0	162.2	5.85	28.744		
1,700.0	1,691.5	1,687.4	1,685.0	3.8	3.2	152.24	-59.4	-68.9	185.2	178.9	6.25	29.605		
1,800.0	1,790.4	1,786.0	1,783.3	4.1	3.4	152.29	-66.2	-72.5	202.3	195.6	6.66	30.354		
1,900.0	1,889.2	1,884.5	1,881.5	4.5	3.6	152.34	-73.0	-76.0	219.4	212.3	7.08	31.010		
2,000.0	1,988.0	1,983.0	1,979.7	4.8	3.8	152.38	-79.8	-79.6	236.5	229.1	7.49	31.588		
2,100.0	2,086.8	2,081.5	2,077.9	5.1	4.0	152.41	-86.6	-83.2	253.7	245.8	7.90	32.103		
2,200.0	2,185.6	2,180.1	2,176.1	5.4	4.2	152.44	-93.4	-86.8	270.8	262.5	8.32	32.563		
2,300.0	2,284.4	2,278.6	2,274.4	5.7	4.5	152.46	-100.2	-90.4	287.9	279.2	8.73	32.976		
2,400.0	2,383.2	2,377.1	2,372.6	6.0	4.7	152.49	-107.0	-94.0	305.1	295.9	9.15	33.350		
2,500.0	2,482.0	2,475.6	2,470.8	6.3	4.9	152.51	-113.8	-97.5	322.2	312.6	9.56	33.689		
2,600.0	2,580.8	2,574.1	2,569.0	6.7	5.1	152.53	-120.7	-101.1	339.3	329.3	9.98	33.999		
2,700.0	2,679.7	2,672.7	2,667.2	7.0	5.3	152.54	-127.5	-104.7	356.5	346.1	10.40	34.282		
2,800.0	2,778.5	2,771.2	2,765.5	7.3	5.5	152.56	-134.3	-108.3	373.6	362.8	10.82	34.543		
2,900.0	2,877.3	2,869.7	2,863.7	7.6	5.7	152.57	-141.1	-111.9	390.7	379.5	11.23	34.783		
3,000.0	2,976.1	2,968.2	2,961.9	7.9	6.0	152.58	-147.9	-115.5	407.8	396.2	11.65	35.005		
3,100.0	3,074.9	3,066.8	3,060.1	8.2	6.2	152.59	-154.7	-119.1	425.0	412.9	12.07	35.211		
3,200.0	3,173.7	3,165.3	3,158.3	8.6	6.4	152.61	-161.5	-122.6	442.1	429.6	12.49	35.402		
3,300.0	3,272.5	3,263.8	3,256.6	8.9	6.6	152.61	-168.3	-126.2	459.2	446.3	12.91	35.580		
3,400.0	3,371.3	3,362.3	3,354.8	9.2	6.8	152.62	-175.1	-129.8	476.4	463.0	13.33	35.747		
3,500.0	3,470.1	3,460.8	3,453.0	9.5	7.0	152.63	-182.0	-133.4	493.5	479.8	13.75	35.903		
3,600.0	3,568.9	3,559.4	3,551.2	9.8	7.3	152.64	-188.8	-137.0	510.6	496.5	14.16	36.050		
3,700.0	3,667.8	3,657.9	3,649.4	10.2	7.5	152.65	-195.6	-140.6	527.8	513.2	14.58	36.187		
3,800.0	3,766.6	3,756.4	3,747.7	10.5	7.7	152.65	-202.4	-144.2	544.9	529.9	15.00	36.317		
3,900.0	3,865.4	3,854.9	3,845.9	10.8	7.9	152.66	-209.2	-147.7	562.0	546.6	15.42	36.439		
4,000.0	3,964.2	3,953.4	3,944.1	11.1	8.1	152.67	-216.0	-151.3	579.2	563.3	15.84	36.555		
4,100.0	4,063.0	4,052.0	4,042.3	11.4	8.3	152.67	-222.8	-154.9	596.3	580.0	16.26	36.664		
4,200.0	4,161.8	4,150.5	4,140.6	11.8	8.6	152.68	-229.6	-158.5	613.4	596.7	16.68	36.768		
4,300.0	4,260.6	4,249.0	4,238.8	12.1	8.8	152.68	-236.4	-162.1	630.5	613.4	17.10	36.866		
4,400.0	4,359.4	4,347.5	4,337.0	12.4	9.0	152.69	-243.3	-165.7	647.7	630.2	17.52	36.960		
4,500.0	4,458.2	4,446.1	4,435.2	12.7	9.2	152.69	-250.1	-169.3	664.8	646.9	17.94	37.049		
4,600.0	4,557.0	4,544.6	4,533.4	13.1	9.4	152.70	-256.9	-172.8	681.9	663.6	18.36	37.133		
4,700.0	4,655.9	4,643.1	4,631.7	13.4	9.7	152.70	-263.7	-176.4	699.1	680.3	18.79	37.214		
4,800.0	4,754.7	4,741.6	4,729.9	13.7	9.9	152.71	-270.5	-180.0	716.2	697.0	19.21	37.291		
4,900.0	4,853.5	4,840.1	4,828.1	14.0	10.1	152.71	-277.3	-183.6	733.3	713.7	19.63	37.365		
5,000.0	4,952.3	4,938.7	4,926.3	14.3	10.3	152.71	-284.1	-187.2	750.5	730.4	20.05	37.436		
5,100.0	5,051.1	5,037.2	5,024.5	14.7	10.5	152.72	-290.9	-190.8	767.6	747.1	20.47	37.503		

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

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Reference Well:	Kiyota 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
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Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,149.9	5,135.7	5,122.8	15.0	10.7	152.72	-297.7	-194.3	784.7	763.8	20.89	37.568		
5,300.0	5,248.7	5,234.2	5,221.0	15.3	11.0	152.72	-304.6	-197.9	801.9	780.5	21.31	37.630		
5,400.0	5,347.5	5,332.8	5,319.2	15.6	11.2	152.73	-311.4	-201.5	819.0	797.3	21.73	37.690		
5,500.0	5,446.3	5,431.3	5,417.4	15.9	11.4	152.73	-318.2	-205.1	836.1	814.0	22.15	37.747		
5,600.0	5,545.1	5,529.8	5,515.6	16.3	11.6	152.73	-325.0	-208.7	853.2	830.7	22.57	37.802		
5,700.0	5,644.0	5,628.3	5,613.9	16.6	11.8	152.73	-331.8	-212.3	870.4	847.4	22.99	37.855		
5,800.0	5,742.8	5,726.8	5,712.1	16.9	12.0	152.74	-338.6	-215.9	887.5	864.1	23.41	37.906		
5,900.0	5,841.6	5,825.4	5,810.3	17.2	12.3	152.74	-345.4	-219.4	904.6	880.8	23.83	37.956		
6,000.0	5,940.4	5,923.9	5,908.5	17.5	12.5	152.74	-352.2	-223.0	921.8	897.5	24.26	38.003		
6,100.0	6,039.2	6,022.4	6,006.7	17.9	12.7	152.74	-359.0	-226.6	938.9	914.2	24.68	38.049		
6,200.0	6,138.0	6,120.9	6,105.0	18.2	12.9	152.75	-365.9	-230.2	956.0	930.9	25.10	38.093		
6,300.0	6,236.8	6,219.4	6,203.2	18.5	13.1	152.75	-372.7	-233.8	973.2	947.6	25.52	38.136		
6,400.0	6,335.6	6,318.0	6,301.4	18.8	13.4	152.75	-379.5	-237.4	990.3	964.4	25.94	38.177		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-89.27	0.4	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.27	0.4	-29.9	29.9	29.6	0.30	98.462		
200.0	200.0	200.0	200.0	0.3	0.3	-89.27	0.4	-29.9	29.9	29.2	0.65	45.809		
300.0	300.0	300.0	300.0	0.5	0.5	-89.27	0.4	-29.9	29.9	28.9	1.00	29.847		
400.0	400.0	400.0	400.0	0.7	0.7	-89.27	0.4	-29.9	29.9	28.6	1.35	22.135 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	153.08	0.4	-29.9	30.7	29.0	1.70	18.046		
600.0	600.0	600.0	600.0	1.0	1.0	155.12	0.4	-29.9	33.0	31.0	2.05	16.121		
700.0	699.9	699.9	699.9	1.2	1.2	157.95	0.4	-29.9	37.0	34.6	2.40	15.443		
800.0	799.7	799.7	799.7	1.4	1.4	161.00	0.4	-29.9	42.8	40.0	2.75	15.565		
900.0	899.4	899.4	899.4	1.6	1.5	163.89	0.4	-29.9	50.2	47.1	3.09	16.234		
1,000.0	998.9	998.9	998.9	1.8	1.7	166.43	0.4	-29.9	59.5	56.1	3.44	17.294		
1,100.0	1,098.3	1,098.3	1,098.3	2.1	1.9	168.57	0.4	-29.9	70.6	66.8	3.79	18.640		
1,200.0	1,197.4	1,197.4	1,197.4	2.3	2.1	170.32	0.4	-29.9	83.4	79.3	4.13	20.202		
1,300.0	1,296.3	1,296.3	1,296.3	2.6	2.2	171.76	0.4	-29.9	98.0	93.5	4.47	21.920		
1,400.0	1,395.1	1,395.1	1,395.1	2.9	2.4	172.87	0.4	-29.9	113.2	108.4	4.82	23.508		
1,500.0	1,493.9	1,493.9	1,493.9	3.2	2.6	173.72	0.4	-29.9	128.5	123.3	5.16	24.891		
1,600.0	1,592.7	1,592.7	1,592.7	3.5	2.8	174.39	0.4	-29.9	143.8	138.3	5.51	26.104		
1,700.0	1,691.5	1,691.5	1,691.5	3.8	2.9	174.93	0.4	-29.9	159.1	153.3	5.86	27.176		
1,800.0	1,790.4	1,790.4	1,790.4	4.1	3.1	175.38	0.4	-29.9	174.5	168.3	6.20	28.131		
1,900.0	1,889.2	1,889.2	1,889.2	4.5	3.3	175.75	0.4	-29.9	189.8	183.2	6.55	28.986		
2,000.0	1,988.0	1,989.5	1,989.5	4.8	3.4	175.90	-0.3	-29.8	204.8	197.9	6.90	29.693		
2,100.0	2,086.8	2,090.3	2,090.3	5.1	3.6	175.63	-2.8	-29.6	219.0	211.7	7.25	30.202		
2,200.0	2,185.6	2,191.3	2,191.2	5.4	3.8	175.00	-7.0	-29.3	232.3	224.7	7.61	30.538		
2,300.0	2,284.4	2,292.4	2,292.1	5.7	4.0	174.07	-13.0	-28.8	244.9	236.9	7.97	30.718		
2,400.0	2,383.2	2,393.6	2,393.0	6.0	4.2	172.87	-20.8	-28.1	256.7	248.3	8.35	30.758		
2,500.0	2,482.0	2,493.9	2,492.8	6.3	4.4	171.47	-30.1	-27.3	267.9	259.2	8.73	30.694		
2,600.0	2,580.8	2,593.0	2,591.5	6.7	4.6	170.16	-39.6	-26.5	279.2	270.1	9.12	30.616		
2,700.0	2,679.7	2,692.2	2,690.2	7.0	4.8	168.95	-49.0	-25.7	290.7	281.2	9.52	30.535		
2,800.0	2,778.5	2,791.3	2,788.9	7.3	5.0	167.82	-58.5	-24.9	302.2	292.3	9.92	30.451		
2,900.0	2,877.3	2,890.5	2,887.6	7.6	5.2	166.79	-68.0	-24.1	313.9	303.5	10.34	30.366		
3,000.0	2,976.1	2,989.7	2,986.3	7.9	5.4	165.82	-77.4	-23.4	325.6	314.9	10.75	30.281		
3,100.0	3,074.9	3,088.8	3,085.1	8.2	5.6	164.92	-86.9	-22.6	337.5	326.3	11.18	30.196		
3,200.0	3,173.7	3,188.0	3,183.8	8.6	5.8	164.09	-96.3	-21.8	349.4	337.8	11.60	30.112		
3,300.0	3,272.5	3,287.2	3,282.5	8.9	6.0	163.31	-105.8	-21.0	361.4	349.3	12.03	30.029		
3,400.0	3,371.3	3,386.3	3,381.2	9.2	6.3	162.58	-115.3	-20.2	373.4	360.9	12.47	29.947		
3,500.0	3,470.1	3,485.5	3,479.9	9.5	6.5	161.89	-124.7	-19.4	385.5	372.6	12.91	29.868		
3,600.0	3,568.9	3,584.7	3,578.6	9.8	6.7	161.25	-134.2	-18.6	397.7	384.3	13.35	29.790		
3,700.0	3,667.8	3,683.8	3,677.3	10.2	6.9	160.64	-143.7	-17.8	409.8	396.1	13.79	29.715		
3,800.0	3,766.6	3,783.0	3,776.0	10.5	7.1	160.07	-153.1	-17.0	422.1	407.8	14.24	29.643		
3,900.0	3,865.4	3,882.1	3,874.7	10.8	7.4	159.53	-162.6	-16.2	434.4	419.7	14.69	29.572		
4,000.0	3,964.2	3,981.3	3,973.4	11.1	7.6	159.02	-172.1	-15.4	446.7	431.5	15.14	29.504		
4,100.0	4,063.0	4,080.5	4,072.1	11.4	7.8	158.54	-181.5	-14.6	459.0	443.4	15.59	29.439		
4,200.0	4,161.8	4,179.6	4,170.8	11.8	8.0	158.09	-191.0	-13.8	471.4	455.4	16.05	29.376		
4,300.0	4,260.6	4,278.8	4,269.5	12.1	8.3	157.65	-200.5	-13.0	483.8	467.3	16.50	29.315		
4,400.0	4,359.4	4,378.0	4,368.2	12.4	8.5	157.24	-209.9	-12.2	496.2	479.3	16.96	29.256		
4,500.0	4,458.2	4,477.1	4,467.0	12.7	8.7	156.85	-219.4	-11.4	508.7	491.3	17.42	29.200		
4,600.0	4,557.0	4,576.3	4,565.7	13.1	9.0	156.48	-228.9	-10.6	521.2	503.3	17.88	29.146		
4,700.0	4,655.9	4,675.4	4,664.4	13.4	9.2	156.12	-238.3	-9.8	533.7	515.3	18.34	29.094		
4,800.0	4,754.7	4,774.6	4,763.1	13.7	9.4	155.79	-247.8	-9.0	546.2	527.4	18.81	29.043		
4,900.0	4,853.5	4,873.8	4,861.8	14.0	9.6	155.46	-257.3	-8.2	558.7	539.5	19.27	28.995		
5,000.0	4,952.3	4,972.9	4,960.5	14.3	9.9	155.15	-266.7	-7.4	571.3	551.5	19.73	28.949		
5,100.0	5,051.1	5,072.1	5,059.2	14.7	10.1	154.86	-276.2	-6.6	583.8	563.6	20.20	28.904		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 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	5,149.9	5,171.3	5,157.9	15.0	10.3	154.57	-285.7	-5.8	596.4	575.8	20.67	28.861		
5,300.0	5,248.7	5,270.4	5,256.6	15.3	10.6	154.30	-295.1	-5.0	609.0	587.9	21.13	28.819		
5,400.0	5,347.5	5,369.6	5,355.3	15.6	10.8	154.04	-304.6	-4.2	621.6	600.0	21.60	28.779		
5,500.0	5,446.3	5,468.7	5,454.0	15.9	11.0	153.79	-314.1	-3.4	634.2	612.2	22.07	28.740		
5,600.0	5,545.1	5,567.9	5,552.7	16.3	11.3	153.55	-323.5	-2.6	646.9	624.3	22.54	28.703		
5,700.0	5,644.0	5,667.1	5,651.4	16.6	11.5	153.32	-333.0	-1.8	659.5	636.5	23.01	28.673		
5,800.0	5,742.8	5,766.2	5,750.1	16.9	11.7	153.10	-342.5	-1.0	672.2	648.7	23.48	28.632		
5,900.0	5,841.6	5,865.4	5,848.8	17.2	12.0	152.88	-351.9	-0.2	684.8	660.9	23.95	28.599		
6,000.0	5,940.4	5,964.6	5,947.6	17.5	12.2	152.67	-361.4	0.6	697.5	673.1	24.42	28.566		
6,100.0	6,039.2	6,063.7	6,046.3	17.9	12.4	152.47	-370.9	1.4	710.2	685.3	24.89	28.535		
6,200.0	6,138.0	6,162.9	6,145.0	18.2	12.7	152.28	-380.3	2.1	722.9	697.5	25.36	28.505		
6,300.0	6,236.8	6,262.0	6,243.7	18.5	12.9	152.10	-389.8	2.9	735.6	709.7	25.83	28.476		
6,400.0	6,335.6	6,361.2	6,342.4	18.8	13.1	151.92	-399.2	3.7	748.3	722.0	26.30	28.447		
6,500.0	6,434.4	6,459.1	6,440.2	19.2	13.3	152.22	-402.3	4.5	761.1	734.4	26.62	28.588		
6,600.0	6,533.4	6,555.3	6,535.8	19.4	13.3	-153.98	-392.4	5.3	774.1	747.5	26.54	29.166		
6,700.0	6,631.6	6,650.0	6,627.7	19.6	13.2	-120.64	-370.1	6.0	787.1	760.8	26.28	29.948		
6,800.0	6,727.0	6,744.0	6,715.4	19.7	13.1	-106.78	-336.3	6.8	799.8	773.9	25.92	30.857		
6,900.0	6,817.8	6,836.8	6,796.8	19.7	12.9	-99.48	-291.8	7.4	812.0	786.5	25.54	31.796		
7,000.0	6,902.2	6,928.8	6,871.1	19.7	12.7	-94.87	-237.8	8.0	823.4	798.2	25.21	32.663		
7,100.0	6,978.6	7,020.2	6,937.5	19.7	12.6	-91.68	-175.1	8.5	833.7	808.7	25.00	33.343		
7,200.0	7,045.6	7,111.1	6,995.1	19.7	12.5	-89.37	-104.9	9.0	842.7	817.7	24.98	33.728		
7,300.0	7,101.7	7,200.0	7,042.5	19.8	12.6	-87.69	-29.7	9.4	850.2	825.0	25.20	33.737		
7,400.0	7,145.9	7,291.8	7,081.2	20.0	12.8	-86.50	53.5	9.7	856.1	830.4	25.71	33.303		
7,500.0	7,177.3	7,382.0	7,108.5	20.3	13.2	-85.74	139.3	9.9	860.2	833.7	26.50	32.460		
7,600.0	7,195.4	7,472.1	7,124.9	20.7	13.8	-85.37	227.9	10.1	862.5	835.0	27.58	31.273		
7,700.0	7,200.0	7,562.8	7,130.0	21.2	14.5	-85.35	318.4	10.1	863.0	834.1	28.96	29.802		
7,800.0	7,200.0	7,662.8	7,130.0	21.9	15.4	-85.35	418.4	10.1	863.0	832.2	30.87	27.960		
7,900.0	7,200.0	7,762.8	7,130.0	22.7	16.5	-85.35	518.4	10.1	863.0	830.0	33.02	26.136		
8,000.0	7,200.0	7,862.8	7,130.0	23.5	17.7	-85.35	618.4	10.1	863.0	827.7	35.39	24.387		
8,100.0	7,200.0	7,962.8	7,130.0	24.5	19.0	-85.35	718.4	10.1	863.0	825.1	37.93	22.751		
8,200.0	7,200.0	8,062.8	7,130.0	25.6	20.3	-85.35	818.4	10.1	863.0	822.4	40.62	21.247		
8,300.0	7,200.0	8,162.8	7,130.0	26.7	21.7	-85.35	918.4	10.1	863.0	819.6	43.42	19.876		
8,400.0	7,200.0	8,262.8	7,130.0	27.9	23.2	-85.35	1,018.4	10.1	863.0	816.7	46.32	18.633		
8,500.0	7,200.0	8,362.8	7,130.0	29.2	24.7	-85.35	1,118.4	10.1	863.0	813.7	49.29	17.509		
8,600.0	7,200.0	8,462.8	7,130.0	30.5	26.2	-85.35	1,218.4	10.1	863.0	810.7	52.33	16.492		
8,700.0	7,200.0	8,562.8	7,130.0	31.8	27.8	-85.35	1,318.4	10.1	863.0	807.6	55.42	15.572		
8,800.0	7,200.0	8,662.8	7,130.0	33.2	29.3	-85.35	1,418.4	10.1	863.0	804.5	58.56	14.737		
8,900.0	7,200.0	8,762.8	7,130.0	34.6	30.9	-85.35	1,518.4	10.1	863.0	801.3	61.74	13.979		
9,000.0	7,200.0	8,862.8	7,130.0	36.1	32.5	-85.35	1,618.4	10.1	863.0	798.1	64.95	13.288		
9,100.0	7,200.0	8,962.8	7,130.0	37.5	34.2	-85.35	1,718.4	10.1	863.0	794.9	68.19	12.657		
9,200.0	7,200.0	9,062.8	7,130.0	39.0	35.8	-85.35	1,818.4	10.1	863.0	791.6	71.45	12.079		
9,300.0	7,200.0	9,162.8	7,130.0	40.5	37.4	-85.35	1,918.4	10.1	863.0	788.3	74.73	11.548		
9,400.0	7,200.0	9,262.8	7,130.0	42.1	39.1	-85.35	2,018.4	10.1	863.0	785.0	78.04	11.059		
9,464.4	7,200.0	9,327.2	7,130.0	43.1	40.2	-85.35	2,082.8	10.1	863.0	782.9	80.17	10.765		
9,500.0	7,200.0	9,360.5	7,130.0	43.6	40.7	-85.35	2,116.1	10.1	863.1	781.7	81.32	10.614		
9,600.0	7,200.0	9,447.4	7,130.0	45.2	42.2	-85.35	2,203.0	9.2	864.1	779.7	84.43	10.234		
9,700.0	7,200.0	9,547.4	7,130.0	46.8	43.9	-85.36	2,303.0	7.4	865.9	778.1	87.78	9.864		
9,800.0	7,200.0	9,647.4	7,130.0	48.4	45.5	-85.37	2,403.0	5.6	867.7	776.5	91.13	9.521		
9,900.0	7,200.0	9,747.4	7,130.0	50.0	47.2	-85.38	2,502.9	3.8	869.4	774.9	94.50	9.200		
10,000.0	7,200.0	9,847.4	7,130.0	51.6	48.9	-85.39	2,602.9	2.0	871.2	773.4	97.79	8.909		
10,100.0	7,200.0	9,947.4	7,130.0	53.2	50.6	-85.40	2,702.9	0.2	872.4	771.2	101.17	8.622		
10,200.0	7,200.0	10,047.4	7,130.0	54.8	52.3	-85.40	2,802.9	-1.5	873.6	769.0	104.57	8.354		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,200.0	10,147.4	7,130.0	56.5	54.0	-85.41	2,902.8	-3.3	874.8	766.8	107.96	8.102		
10,400.0	7,200.0	10,247.3	7,130.0	58.1	55.7	-85.42	3,002.8	-5.1	876.0	764.6	111.37	7.865		
10,500.0	7,200.0	10,347.3	7,130.0	59.8	57.4	-85.42	3,102.8	-6.9	877.2	762.4	114.78	7.642		
10,600.0	7,200.0	10,447.3	7,130.0	61.4	59.2	-85.43	3,202.8	-8.7	878.4	760.2	118.20	7.432		
10,700.0	7,200.0	10,547.3	7,130.0	63.1	60.9	-85.44	3,302.7	-10.5	879.6	758.0	121.62	7.232		
10,800.0	7,200.0	10,647.3	7,130.0	64.7	62.6	-85.44	3,402.7	-12.3	880.8	755.7	125.04	7.044		
10,900.0	7,200.0	10,747.3	7,130.0	66.4	64.3	-85.45	3,502.7	-14.1	882.0	753.5	128.47	6.865		
11,000.0	7,200.0	10,847.3	7,130.0	68.1	66.0	-85.45	3,602.7	-15.8	883.2	751.3	131.90	6.696		
11,100.0	7,200.0	10,947.3	7,130.0	69.8	67.7	-85.46	3,702.6	-17.6	884.4	749.1	135.34	6.535		
11,200.0	7,200.0	11,047.3	7,130.0	71.5	69.5	-85.47	3,802.6	-19.4	885.6	746.8	138.78	6.381		
11,300.0	7,200.0	11,147.3	7,130.0	73.1	71.2	-85.47	3,902.6	-21.2	886.8	744.6	142.22	6.235		
11,400.0	7,200.0	11,247.3	7,130.0	74.8	72.9	-85.48	4,002.6	-23.0	888.0	742.3	145.66	6.096		
11,500.0	7,200.0	11,347.3	7,130.0	76.5	74.7	-85.48	4,102.5	-24.8	889.2	740.1	149.11	5.963		
11,600.0	7,200.0	11,447.3	7,130.0	78.2	76.4	-85.49	4,202.5	-26.6	890.4	737.8	152.56	5.836		
11,700.0	7,200.0	11,547.3	7,130.0	79.9	78.1	-85.50	4,302.5	-28.4	891.6	735.6	156.01	5.715		
11,700.7	7,200.0	11,548.0	7,130.0	79.9	78.1	-85.50	4,303.2	-28.4	891.6	735.6	156.04	5.714 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4G-35H-O367 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.06	0.4	-22.6	22.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.06	0.4	-22.6	22.6	22.3	0.30	74.541		
200.0	200.0	200.0	200.0	0.3	0.3	-89.06	0.4	-22.6	22.6	22.0	0.65	34.679		
300.0	300.0	300.0	300.0	0.5	0.5	-89.06	0.4	-22.6	22.6	21.6	1.00	22.596		
400.0	400.0	400.0	400.0	0.7	0.7	-89.06	0.4	-22.6	22.6	21.3	1.35	16.757 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	153.52	0.4	-22.6	23.4	21.7	1.70	13.774		
600.0	600.0	600.0	600.0	1.0	1.0	156.10	0.4	-22.6	25.8	23.7	2.05	12.584		
700.0	699.9	699.9	699.9	1.2	1.2	159.49	0.4	-22.6	29.8	27.4	2.40	12.438		
800.0	799.7	800.1	800.1	1.4	1.4	161.99	-0.3	-22.1	35.0	32.2	2.75	12.721		
900.0	899.4	900.5	900.4	1.6	1.6	162.95	-2.4	-20.5	40.5	37.4	3.10	13.057		
1,000.0	998.9	1,000.9	1,000.7	1.8	1.7	162.89	-5.8	-17.8	46.3	42.9	3.45	13.411		
1,100.0	1,098.3	1,101.3	1,101.0	2.1	1.9	162.15	-10.7	-14.0	52.5	48.7	3.81	13.766		
1,200.0	1,197.4	1,201.2	1,200.6	2.3	2.1	161.41	-16.4	-9.6	59.6	55.4	4.18	14.250		
1,300.0	1,296.3	1,300.8	1,300.0	2.6	2.3	161.29	-22.0	-5.1	68.2	63.7	4.55	15.005		
1,400.0	1,395.1	1,400.4	1,399.3	2.9	2.5	161.36	-27.7	-0.7	77.5	72.6	4.92	15.748		
1,500.0	1,493.9	1,499.9	1,498.6	3.2	2.7	161.42	-33.3	3.7	86.8	81.5	5.30	16.381		
1,600.0	1,592.7	1,599.5	1,597.9	3.5	2.9	161.47	-39.0	8.1	96.1	90.4	5.68	16.926		
1,700.0	1,691.5	1,699.1	1,697.2	3.8	3.1	161.51	-44.6	12.5	105.3	99.3	6.05	17.400		
1,800.0	1,790.4	1,798.6	1,796.5	4.1	3.3	161.54	-50.3	17.0	114.6	108.2	6.43	17.815		
1,900.0	1,889.2	1,898.2	1,895.8	4.5	3.5	161.57	-55.9	21.4	123.9	117.1	6.81	18.182		
2,000.0	1,988.0	1,997.8	1,995.1	4.8	3.7	161.59	-61.6	25.8	133.2	126.0	7.19	18.509		
2,100.0	2,086.8	2,097.3	2,094.4	5.1	4.0	161.61	-67.2	30.2	142.4	134.9	7.58	18.801		
2,200.0	2,185.6	2,196.9	2,193.7	5.4	4.2	161.63	-72.9	34.6	151.7	143.8	7.96	19.065		
2,300.0	2,284.4	2,296.5	2,293.1	5.7	4.4	161.64	-78.5	39.0	161.0	152.6	8.34	19.303		
2,400.0	2,383.2	2,396.1	2,392.4	6.0	4.6	161.66	-84.2	43.5	170.3	161.5	8.72	19.519		
2,500.0	2,482.0	2,495.6	2,491.7	6.3	4.8	161.67	-89.8	47.9	179.5	170.4	9.11	19.717		
2,600.0	2,580.8	2,595.2	2,591.0	6.7	5.0	161.68	-95.5	52.3	188.8	179.3	9.49	19.898		
2,700.0	2,679.7	2,694.8	2,690.3	7.0	5.2	161.69	-101.1	56.7	198.1	188.2	9.87	20.065		
2,800.0	2,778.5	2,794.3	2,789.6	7.3	5.4	161.70	-106.8	61.1	207.4	197.1	10.26	20.218		
2,900.0	2,877.3	2,893.9	2,888.9	7.6	5.6	161.71	-112.4	65.6	216.6	206.0	10.64	20.361		
3,000.0	2,976.1	2,993.5	2,988.2	7.9	5.9	161.72	-118.1	70.0	225.9	214.9	11.02	20.493		
3,100.0	3,074.9	3,093.0	3,087.5	8.2	6.1	161.73	-123.7	74.4	235.2	223.8	11.41	20.616		
3,200.0	3,173.7	3,192.6	3,186.8	8.6	6.3	161.73	-129.4	78.8	244.5	232.7	11.79	20.730		
3,300.0	3,272.5	3,292.2	3,286.2	8.9	6.5	161.74	-135.0	83.2	253.7	241.5	12.18	20.837		
3,400.0	3,371.3	3,391.7	3,385.5	9.2	6.7	161.74	-140.7	87.7	263.0	250.4	12.56	20.938		
3,500.0	3,470.1	3,491.3	3,484.8	9.5	6.9	161.75	-146.3	92.1	272.3	259.3	12.95	21.032		
3,600.0	3,568.9	3,590.9	3,584.1	9.8	7.1	161.76	-152.0	96.5	281.5	268.2	13.33	21.121		
3,700.0	3,667.8	3,690.5	3,683.4	10.2	7.3	161.76	-157.6	100.9	290.8	277.1	13.72	21.205		
3,800.0	3,766.6	3,790.0	3,782.7	10.5	7.6	161.76	-163.3	105.3	300.1	286.0	14.10	21.283		
3,900.0	3,865.4	3,889.6	3,882.0	10.8	7.8	161.77	-168.9	109.7	309.4	294.9	14.48	21.358		
4,000.0	3,964.2	3,989.2	3,981.3	11.1	8.0	161.77	-174.6	114.2	318.6	303.8	14.87	21.429		
4,100.0	4,063.0	4,088.7	4,080.6	11.4	8.2	161.78	-180.2	118.6	327.9	312.7	15.26	21.496		
4,200.0	4,161.8	4,188.3	4,180.0	11.8	8.4	161.78	-185.9	123.0	337.2	321.6	15.64	21.559		
4,300.0	4,260.6	4,287.9	4,279.3	12.1	8.6	161.78	-191.5	127.4	346.5	330.4	16.03	21.620		
4,400.0	4,359.4	4,387.4	4,378.6	12.4	8.8	161.79	-197.2	131.8	355.7	339.3	16.41	21.677		
4,500.0	4,458.2	4,487.0	4,477.9	12.7	9.0	161.79	-202.8	136.3	365.0	348.2	16.80	21.732		
4,600.0	4,557.0	4,586.6	4,577.2	13.1	9.3	161.79	-208.5	140.7	374.3	357.1	17.18	21.785		
4,700.0	4,655.9	4,686.1	4,676.5	13.4	9.5	161.79	-214.1	145.1	383.6	366.0	17.57	21.835		
4,800.0	4,754.7	4,785.7	4,775.8	13.7	9.7	161.80	-219.8	149.5	392.8	374.9	17.95	21.883		
4,900.0	4,853.5	4,885.3	4,875.1	14.0	9.9	161.80	-225.4	153.9	402.1	383.8	18.34	21.928		
5,000.0	4,952.3	4,984.9	4,974.4	14.3	10.1	161.80	-231.1	158.3	411.4	392.7	18.72	21.972		
5,100.0	5,051.1	5,084.4	5,073.7	14.7	10.3	161.80	-236.7	162.8	420.7	401.6	19.11	22.014		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4G-35H-O367 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			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	5,149.9	5,184.0	5,173.1	15.0	10.5	161.81	-242.4	167.2	429.9	410.4	19.49	22.055		
5,300.0	5,248.7	5,283.6	5,272.4	15.3	10.8	161.81	-248.0	171.6	439.2	419.3	19.88	22.093		
5,400.0	5,347.5	5,383.1	5,371.7	15.6	11.0	161.81	-253.7	176.0	448.5	428.2	20.27	22.131		
5,500.0	5,446.3	5,482.7	5,471.0	15.9	11.2	161.81	-259.3	180.4	457.8	437.1	20.65	22.166		
5,600.0	5,545.1	5,582.3	5,570.3	16.3	11.4	161.81	-265.0	184.9	467.0	446.0	21.04	22.201		
5,700.0	5,644.0	5,681.8	5,669.6	16.6	11.6	161.82	-270.6	189.3	476.3	454.9	21.42	22.234		
5,800.0	5,742.8	5,781.4	5,768.9	16.9	11.8	161.82	-276.3	193.7	485.6	463.8	21.81	22.266		
5,900.0	5,841.6	5,881.0	5,868.2	17.2	12.0	161.82	-281.9	198.1	494.9	472.7	22.19	22.297		
6,000.0	5,940.4	5,980.5	5,967.5	17.5	12.2	161.82	-287.6	202.5	504.1	481.5	22.58	22.327		
6,100.0	6,039.2	6,080.1	6,066.8	17.9	12.5	161.82	-293.2	206.9	513.4	490.4	22.96	22.356		
6,200.0	6,138.0	6,179.7	6,166.2	18.2	12.7	161.82	-298.9	211.4	522.7	499.3	23.35	22.384		
6,300.0	6,236.8	6,279.2	6,265.5	18.5	12.9	161.83	-304.5	215.8	531.9	508.2	23.74	22.411		
6,400.0	6,335.6	6,378.8	6,364.8	18.8	13.1	161.83	-310.2	220.2	541.2	517.1	24.12	22.437		
6,500.0	6,434.4	6,475.9	6,461.7	19.2	13.3	161.85	-315.5	224.5	550.5	526.0	24.49	22.477		
6,600.0	6,533.4	6,563.2	6,548.7	19.4	13.4	-145.24	-312.9	228.4	560.2	535.6	24.64	22.740		
6,700.0	6,631.6	6,650.0	6,634.4	19.6	13.5	-112.89	-299.9	232.2	569.5	544.8	24.68	23.071		
6,800.0	6,727.0	6,737.1	6,718.2	19.7	13.4	-100.13	-276.6	235.9	578.2	553.5	24.67	23.436		
6,900.0	6,817.8	6,824.1	6,798.5	19.7	13.4	-93.99	-243.2	239.5	586.1	561.5	24.63	23.794		
7,000.0	6,902.2	6,911.5	6,874.3	19.7	13.3	-90.60	-200.2	242.9	593.2	568.5	24.61	24.101		
7,100.0	6,978.6	7,000.0	6,945.3	19.7	13.3	-88.65	-147.5	246.0	599.3	574.6	24.65	24.307		
7,200.0	7,045.6	7,087.7	7,008.7	19.7	13.3	-87.59	-87.1	248.9	604.3	579.5	24.82	24.351		
7,300.0	7,101.7	7,176.9	7,065.1	19.8	13.4	-87.16	-18.1	251.4	608.3	583.1	25.15	24.186		
7,400.0	7,145.9	7,267.1	7,113.1	20.0	13.6	-87.21	58.2	253.5	611.1	585.4	25.70	23.776		
7,500.0	7,177.3	7,358.4	7,151.4	20.3	14.0	-87.68	141.0	255.2	612.9	586.4	26.52	23.106		
7,600.0	7,195.4	7,450.0	7,179.0	20.7	14.5	-88.48	228.2	256.4	613.5	585.9	27.63	22.205		
7,700.0	7,200.0	7,545.2	7,195.7	21.2	15.3	-89.60	321.9	257.2	613.2	584.1	29.09	21.077		
7,800.0	7,200.0	7,641.9	7,200.0	21.9	16.1	-90.00	418.4	257.4	612.9	582.0	30.97	19.789		
7,900.0	7,200.0	7,741.9	7,200.0	22.7	17.2	-90.00	518.4	257.4	612.9	579.8	33.14	18.494		
8,000.0	7,200.0	7,841.9	7,200.0	23.5	18.3	-90.00	618.4	257.4	612.9	577.4	35.52	17.257		
8,100.0	7,200.0	7,941.9	7,200.0	24.5	19.6	-90.00	718.4	257.4	612.9	574.9	38.07	16.100		
8,200.0	7,200.0	8,041.9	7,200.0	25.6	20.9	-90.00	818.4	257.4	612.9	572.2	40.76	15.036		
8,300.0	7,200.0	8,141.9	7,200.0	26.7	22.3	-90.00	918.4	257.4	612.9	569.4	43.57	14.067		
8,400.0	7,200.0	8,241.9	7,200.0	27.9	23.7	-90.00	1,018.4	257.4	612.9	566.5	46.48	13.187		
8,500.0	7,200.0	8,341.9	7,200.0	29.2	25.1	-90.00	1,118.4	257.4	612.9	563.5	49.46	12.392		
8,600.0	7,200.0	8,441.9	7,200.0	30.5	26.6	-90.00	1,218.4	257.4	612.9	560.4	52.51	11.673		
8,700.0	7,200.0	8,541.9	7,200.0	31.8	28.2	-90.00	1,318.4	257.4	612.9	557.3	55.61	11.021		
8,800.0	7,200.0	8,641.9	7,200.0	33.2	29.7	-90.00	1,418.4	257.4	612.9	554.2	58.76	10.431		
8,900.0	7,200.0	8,741.9	7,200.0	34.6	31.3	-90.00	1,518.4	257.4	612.9	551.0	61.95	9.894		
9,000.0	7,200.0	8,841.9	7,200.0	36.1	32.9	-90.00	1,618.4	257.4	612.9	547.8	65.17	9.405		
9,100.0	7,200.0	8,941.9	7,200.0	37.5	34.5	-90.00	1,718.4	257.4	612.9	544.5	68.42	8.959		
9,200.0	7,200.0	9,041.9	7,200.0	39.0	36.1	-90.00	1,818.4	257.4	612.9	541.2	71.69	8.550		
9,300.0	7,200.0	9,141.9	7,200.0	40.5	37.8	-90.00	1,918.4	257.4	612.9	537.9	74.98	8.174		
9,400.0	7,200.0	9,241.9	7,200.0	42.1	39.4	-90.00	2,018.4	257.4	612.9	534.6	78.30	7.828		
9,500.0	7,200.0	9,341.9	7,200.0	43.6	41.1	-90.00	2,118.4	257.4	612.9	531.3	81.63	7.509		
9,600.0	7,200.0	9,441.9	7,200.0	45.2	42.7	-90.00	2,218.4	257.4	612.9	528.0	84.97	7.214		
9,700.0	7,200.0	9,541.9	7,200.0	46.8	44.4	-90.00	2,318.4	257.4	612.9	524.6	88.33	6.939		
9,800.0	7,200.0	9,641.9	7,200.0	48.4	46.1	-90.00	2,418.4	257.4	612.9	521.2	91.69	6.685		
9,900.0	7,200.0	9,741.9	7,200.0	50.0	47.7	-90.00	2,518.4	257.4	612.9	517.9	95.07	6.447		
10,000.0	7,200.0	9,841.9	7,200.0	51.6	49.4	-90.00	2,618.4	257.4	612.9	514.5	98.35	6.232		
10,100.0	7,200.0	9,941.9	7,200.0	53.2	51.1	-90.00	2,718.4	257.4	612.3	510.5	101.74	6.018		
10,200.0	7,200.0	10,041.9	7,200.0	54.8	52.8	-90.00	2,818.4	257.4	611.7	506.6	105.14	5.818		
10,300.0	7,200.0	10,141.9	7,200.0	56.5	54.5	-90.00	2,918.4	257.4	611.1	502.6	108.55	5.630		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4G-35H-O367 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,200.0	10,241.9	7,200.0	58.1	56.2	-90.00	3,018.4	257.4	610.5	498.6	111.97	5.453		
10,500.0	7,200.0	10,341.9	7,200.0	59.8	57.9	-90.00	3,118.4	257.4	610.0	494.6	115.39	5.286		
10,600.0	7,200.0	10,441.9	7,200.0	61.4	59.6	-90.00	3,218.4	257.4	609.4	490.6	118.81	5.129		
10,700.0	7,200.0	10,541.9	7,200.0	63.1	61.3	-90.00	3,318.4	257.4	608.8	486.6	122.24	4.980		
10,800.0	7,200.0	10,641.9	7,200.0	64.7	63.1	-90.00	3,418.4	257.4	608.2	482.5	125.68	4.839		
10,900.0	7,200.0	10,739.5	7,200.0	66.4	64.7	-90.00	3,516.0	257.3	607.7	478.6	129.08	4.708		
10,908.4	7,200.0	10,746.7	7,200.0	66.6	64.8	-90.00	3,523.2	257.3	607.7	478.3	129.34	4.698		
11,000.0	7,200.0	10,826.0	7,200.0	68.1	66.2	-90.00	3,602.6	256.0	608.6	476.3	132.29	4.601		
11,100.0	7,200.0	10,912.6	7,200.0	69.8	67.7	-90.00	3,689.0	252.8	611.7	476.2	135.50	4.514		
11,200.0	7,200.0	11,000.0	7,200.0	71.5	69.2	-90.00	3,776.3	247.7	617.0	478.3	138.73	4.448		
11,300.0	7,200.0	11,090.4	7,200.0	73.1	70.7	-90.00	3,866.5	240.5	624.4	482.4	142.01	4.397		
11,400.0	7,200.0	11,190.1	7,200.0	74.8	72.4	-90.00	3,965.8	232.2	632.1	486.7	145.45	4.346		
11,500.0	7,200.0	11,289.8	7,200.0	76.5	74.1	-90.00	4,065.2	223.9	639.8	490.9	148.90	4.297		
11,600.0	7,200.0	11,389.5	7,200.0	78.2	75.8	-90.00	4,164.5	215.6	647.6	495.2	152.35	4.251		
11,700.0	7,200.0	11,489.2	7,200.0	79.9	77.6	-90.00	4,263.9	207.3	655.3	499.5	155.80	4.206		
11,700.7	7,200.0	11,489.9	7,200.0	79.9	77.6	-90.00	4,264.6	207.2	655.4	499.5	155.83	4.206 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4H-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.94	0.0	-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		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-15.1	15.1	14.1	1.00	15.062		
400.0	400.0	400.0	400.0	0.7	0.7	-89.94	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	153.15	0.0	-15.1	15.9	14.2	1.70	9.331		
600.0	600.0	600.0	600.0	1.0	1.0	156.86	0.0	-15.1	18.2	16.2	2.05	8.900		
700.0	699.9	700.2	700.2	1.2	1.2	159.86	-0.6	-14.5	21.6	19.2	2.40	9.016		
800.0	799.7	800.4	800.4	1.4	1.4	160.90	-2.5	-12.7	25.3	22.6	2.75	9.207		
900.0	899.4	900.7	900.6	1.6	1.6	160.70	-5.7	-9.7	29.3	26.2	3.10	9.430		
1,000.0	998.9	1,001.1	1,000.7	1.8	1.8	159.68	-10.2	-5.5	33.5	30.0	3.46	9.667		
1,100.0	1,098.3	1,101.4	1,100.8	2.1	2.0	158.16	-16.0	-0.1	38.0	34.2	3.84	9.907		
1,200.0	1,197.4	1,201.6	1,200.5	2.3	2.2	156.43	-22.9	6.4	42.9	38.7	4.22	10.170		
1,300.0	1,296.3	1,301.4	1,299.8	2.6	2.4	155.66	-30.1	13.1	49.2	44.6	4.61	10.670		
1,400.0	1,395.1	1,401.2	1,399.1	2.9	2.6	155.34	-37.2	19.7	56.1	51.1	5.01	11.190		
1,500.0	1,493.9	1,500.9	1,498.4	3.2	2.8	155.09	-44.4	26.4	63.0	57.5	5.42	11.625		
1,600.0	1,592.7	1,600.7	1,597.7	3.5	3.1	154.89	-51.5	33.1	69.8	64.0	5.82	11.994		
1,700.0	1,691.5	1,700.5	1,697.0	3.8	3.3	154.73	-58.6	39.8	76.7	70.5	6.23	12.310		
1,800.0	1,790.4	1,800.2	1,796.3	4.1	3.5	154.59	-65.8	46.4	83.6	76.9	6.64	12.583		
1,900.0	1,889.2	1,900.0	1,895.6	4.5	3.8	154.48	-72.9	53.1	90.4	83.4	7.05	12.820		
2,000.0	1,988.0	1,999.8	1,994.8	4.8	4.0	154.38	-80.0	59.8	97.3	89.8	7.47	13.030		
2,100.0	2,086.8	2,099.5	2,094.1	5.1	4.2	154.29	-87.2	66.5	104.2	96.3	7.88	13.215		
2,200.0	2,185.6	2,199.3	2,193.4	5.4	4.5	154.22	-94.3	73.1	111.0	102.7	8.30	13.380		
2,300.0	2,284.4	2,299.1	2,292.7	5.7	4.7	154.15	-101.5	79.8	117.9	109.2	8.72	13.527		
2,400.0	2,383.2	2,398.8	2,392.0	6.0	5.0	154.09	-108.6	86.5	124.8	115.6	9.13	13.661		
2,500.0	2,482.0	2,498.6	2,491.3	6.3	5.2	154.04	-115.7	93.2	131.6	122.1	9.55	13.781		
2,600.0	2,580.8	2,598.3	2,590.5	6.7	5.4	153.99	-122.9	99.8	138.5	128.5	9.97	13.891		
2,700.0	2,679.7	2,698.1	2,689.8	7.0	5.7	153.95	-130.0	106.5	145.4	135.0	10.39	13.991		
2,800.0	2,778.5	2,797.9	2,789.1	7.3	5.9	153.91	-137.2	113.2	152.2	141.4	10.81	14.082		
2,900.0	2,877.3	2,897.6	2,888.4	7.6	6.2	153.87	-144.3	119.9	159.1	147.9	11.23	14.167		
3,000.0	2,976.1	2,997.4	2,987.7	7.9	6.4	153.84	-151.4	126.6	166.0	154.3	11.65	14.244		
3,100.0	3,074.9	3,097.2	3,087.0	8.2	6.6	153.81	-158.6	133.2	172.9	160.8	12.07	14.316		
3,200.0	3,173.7	3,196.9	3,186.2	8.6	6.9	153.78	-165.7	139.9	179.7	167.2	12.50	14.383		
3,300.0	3,272.5	3,296.7	3,285.5	8.9	7.1	153.75	-172.9	146.6	186.6	173.7	12.92	14.445		
3,400.0	3,371.3	3,396.5	3,384.8	9.2	7.4	153.73	-180.0	153.3	193.5	180.1	13.34	14.503		
3,500.0	3,470.1	3,496.2	3,484.1	9.5	7.6	153.71	-187.1	159.9	200.3	186.6	13.76	14.557		
3,600.0	3,568.9	3,596.0	3,583.4	9.8	7.8	153.69	-194.3	166.6	207.2	193.0	14.18	14.608		
3,700.0	3,667.8	3,695.8	3,682.7	10.2	8.1	153.67	-201.4	173.3	214.1	199.5	14.61	14.655		
3,800.0	3,766.6	3,795.5	3,781.9	10.5	8.3	153.65	-208.6	180.0	220.9	205.9	15.03	14.700		
3,900.0	3,865.4	3,895.3	3,881.2	10.8	8.6	153.63	-215.7	186.6	227.8	212.4	15.45	14.742		
4,000.0	3,964.2	3,995.0	3,980.5	11.1	8.8	153.62	-222.8	193.3	234.7	218.8	15.88	14.782		
4,100.0	4,063.0	4,094.8	4,079.8	11.4	9.1	153.60	-230.0	200.0	241.5	225.3	16.30	14.820		
4,200.0	4,161.8	4,194.6	4,179.1	11.8	9.3	153.59	-237.1	206.7	248.4	231.7	16.72	14.855		
4,300.0	4,260.6	4,294.3	4,278.4	12.1	9.5	153.57	-244.3	213.3	255.3	238.1	17.15	14.889		
4,400.0	4,359.4	4,394.1	4,377.6	12.4	9.8	153.56	-251.4	220.0	262.2	244.6	17.57	14.921		
4,500.0	4,458.2	4,493.9	4,476.9	12.7	10.0	153.55	-258.5	226.7	269.0	251.0	17.99	14.951		
4,600.0	4,557.0	4,593.6	4,576.2	13.1	10.3	153.53	-265.7	233.4	275.9	257.5	18.42	14.980		
4,700.0	4,655.9	4,693.4	4,675.5	13.4	10.5	153.52	-272.8	240.1	282.8	263.9	18.84	15.008		
4,800.0	4,754.7	4,793.2	4,774.8	13.7	10.8	153.51	-279.9	246.7	289.6	270.4	19.27	15.034		
4,900.0	4,853.5	4,892.9	4,874.1	14.0	11.0	153.50	-287.1	253.4	296.5	276.8	19.69	15.059		
5,000.0	4,952.3	4,992.7	4,973.3	14.3	11.2	153.49	-294.2	260.1	303.4	283.3	20.11	15.083		
5,100.0	5,051.1	5,092.4	5,072.6	14.7	11.5	153.48	-301.4	266.8	310.2	289.7	20.54	15.106		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4H-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,149.9	5,192.2	5,171.9	15.0	11.7	153.47	-308.5	273.4	317.1	296.2	20.96	15.128		
5,300.0	5,248.7	5,292.0	5,271.2	15.3	12.0	153.47	-315.6	280.1	324.0	302.6	21.39	15.149		
5,400.0	5,347.5	5,391.7	5,370.5	15.6	12.2	153.46	-322.8	286.8	330.9	309.0	21.81	15.170		
5,500.0	5,446.3	5,491.5	5,469.8	15.9	12.5	153.45	-329.9	293.5	337.7	315.5	22.24	15.189		
5,600.0	5,545.1	5,591.3	5,569.1	16.3	12.7	153.44	-337.1	300.1	344.6	321.9	22.66	15.208		
5,700.0	5,644.0	5,691.0	5,668.3	16.6	12.9	153.44	-344.2	306.8	351.5	328.4	23.08	15.226		
5,800.0	5,742.8	5,790.8	5,767.6	16.9	13.2	153.43	-351.3	313.5	358.3	334.8	23.51	15.243		
5,900.0	5,841.6	5,890.6	5,866.9	17.2	13.4	153.42	-358.5	320.2	365.2	341.3	23.93	15.259		
6,000.0	5,940.4	5,990.3	5,966.2	17.5	13.7	153.42	-365.6	326.9	372.1	347.7	24.36	15.275		
6,100.0	6,039.2	6,090.1	6,065.5	17.9	13.9	153.41	-372.8	333.5	378.9	354.2	24.78	15.291		
6,200.0	6,138.0	6,189.8	6,164.8	18.2	14.2	153.40	-379.9	340.2	385.8	360.6	25.21	15.306		
6,300.0	6,236.8	6,289.6	6,264.0	18.5	14.4	153.40	-387.0	346.9	392.7	367.1	25.63	15.320		
6,400.0	6,335.6	6,389.4	6,363.3	18.8	14.6	153.39	-394.2	353.6	399.6	373.5	26.06	15.334		
6,500.0	6,434.4	6,489.1	6,462.6	19.2	14.9	153.39	-401.3	360.2	406.4	379.9	26.48	15.348		
6,600.0	6,533.4	6,588.6	6,561.6	19.4	15.1	-155.00	-408.4	366.9	413.2	386.3	26.89	15.363		
6,700.0	6,631.6	6,687.4	6,660.1	19.6	15.3	-125.04	-411.5	373.5	420.0	392.7	27.34	15.362		
6,800.0	6,727.0	6,788.4	6,760.2	19.7	15.4	-114.47	-400.9	380.2	427.4	399.8	27.52	15.530		
6,900.0	6,817.8	6,891.8	6,860.1	19.7	15.4	-110.23	-375.6	387.0	434.9	407.5	27.41	15.868		
7,000.0	6,902.2	6,997.8	6,957.7	19.7	15.3	-108.43	-334.9	393.5	442.5	415.5	27.06	16.356		
7,100.0	6,978.6	7,106.5	7,050.4	19.7	15.1	-107.74	-278.7	399.8	449.9	423.4	26.54	16.951		
7,200.0	7,045.6	7,217.8	7,135.5	19.7	15.0	-107.59	-207.3	405.5	456.8	430.8	26.00	17.568		
7,300.0	7,101.7	7,331.7	7,210.0	19.8	14.9	-107.70	-121.5	410.5	462.9	437.3	25.62	18.070		
7,400.0	7,145.9	7,447.7	7,271.0	20.0	15.0	-107.91	-23.1	414.6	468.0	442.4	25.58	18.291		
7,500.0	7,177.3	7,565.6	7,315.9	20.3	15.3	-108.14	85.7	417.6	471.7	445.6	26.09	18.078		
7,600.0	7,195.4	7,684.8	7,342.6	20.7	15.9	-108.32	201.7	419.4	474.0	446.8	27.23	17.408		
7,700.0	7,200.0	7,801.8	7,350.0	21.2	16.7	-108.42	318.4	419.9	474.7	445.8	28.91	16.418		
7,800.0	7,200.0	7,901.8	7,350.0	21.9	17.5	-108.42	418.4	419.9	474.7	444.0	30.68	15.475		
7,900.0	7,200.0	8,001.8	7,350.0	22.7	18.5	-108.42	518.4	419.9	474.7	442.0	32.68	14.525		
8,000.0	7,200.0	8,101.8	7,350.0	23.5	19.6	-108.42	618.4	419.9	474.7	439.8	34.89	13.605		
8,100.0	7,200.0	8,201.8	7,350.0	24.5	20.7	-108.42	718.4	419.9	474.7	437.4	37.27	12.738		
8,200.0	7,200.0	8,301.8	7,350.0	25.6	22.0	-108.42	818.4	419.9	474.7	434.9	39.78	11.933		
8,300.0	7,200.0	8,401.8	7,350.0	26.7	23.3	-108.42	918.4	419.9	474.7	432.3	42.41	11.194		
8,400.0	7,200.0	8,501.8	7,350.0	27.9	24.7	-108.42	1,018.4	419.9	474.7	429.6	45.13	10.519		
8,500.0	7,200.0	8,601.8	7,350.0	29.2	26.1	-108.42	1,118.4	419.9	474.7	426.8	47.93	9.905		
8,600.0	7,200.0	8,701.8	7,350.0	30.5	27.5	-108.42	1,218.4	419.9	474.7	423.9	50.79	9.347		
8,700.0	7,200.0	8,801.8	7,350.0	31.8	29.0	-108.42	1,318.4	419.9	474.7	421.0	53.70	8.840		
8,800.0	7,200.0	8,901.8	7,350.0	33.2	30.5	-108.42	1,418.4	419.9	474.7	418.0	56.66	8.378		
8,900.0	7,200.0	9,001.8	7,350.0	34.6	32.1	-108.42	1,518.4	419.9	474.7	415.0	59.66	7.956		
9,000.0	7,200.0	9,101.8	7,350.0	36.1	33.6	-108.42	1,618.4	419.9	474.7	412.0	62.70	7.572		
9,100.0	7,200.0	9,201.8	7,350.0	37.5	35.2	-108.42	1,718.4	419.9	474.7	409.0	65.76	7.219		
9,200.0	7,200.0	9,301.8	7,350.0	39.0	36.8	-108.42	1,818.4	419.9	474.7	405.9	68.85	6.895		
9,300.0	7,200.0	9,401.8	7,350.0	40.5	38.4	-108.42	1,918.4	419.9	474.7	402.8	71.96	6.597		
9,400.0	7,200.0	9,501.8	7,350.0	42.1	40.0	-108.42	2,018.4	419.9	474.7	399.6	75.08	6.322		
9,500.0	7,200.0	9,601.8	7,350.0	43.6	41.7	-108.42	2,118.4	419.9	474.7	396.5	78.23	6.068		
9,600.0	7,200.0	9,701.8	7,350.0	45.2	43.3	-108.42	2,218.4	419.9	474.7	393.3	81.39	5.833		
9,700.0	7,200.0	9,801.8	7,350.0	46.8	44.9	-108.42	2,318.4	419.9	474.7	390.2	84.56	5.614		
9,800.0	7,200.0	9,901.8	7,350.0	48.4	46.6	-108.42	2,418.4	419.9	474.7	387.0	87.74	5.410		
9,900.0	7,200.0	10,001.8	7,350.0	50.0	48.3	-108.42	2,518.4	419.9	474.7	383.8	90.94	5.220		
10,000.0	7,200.0	10,101.8	7,350.0	51.6	49.9	-108.42	2,618.4	419.9	474.7	380.6	94.03	5.048		
10,100.0	7,200.0	10,201.8	7,350.0	53.2	51.6	-108.44	2,718.4	419.9	474.1	376.9	97.23	4.876		
10,200.0	7,200.0	10,301.8	7,350.0	54.8	53.3	-108.47	2,818.4	419.9	473.5	373.1	100.43	4.715		
10,300.0	7,200.0	10,401.8	7,350.0	56.5	55.0	-108.49	2,918.4	419.9	473.0	369.4	103.65	4.564		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4H-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,200.0	10,501.8	7,350.0	58.1	56.7	-108.51	3,018.4	419.9	472.4	365.6	106.87	4.421		
10,500.0	7,200.0	10,601.8	7,350.0	59.8	58.4	-108.53	3,118.4	419.9	471.9	361.8	110.09	4.286		
10,600.0	7,200.0	10,701.8	7,350.0	61.4	60.1	-108.56	3,218.4	419.9	471.3	358.0	113.32	4.159		
10,700.0	7,200.0	10,801.8	7,350.0	63.1	61.8	-108.58	3,318.4	419.9	470.8	354.2	116.55	4.039		
10,800.0	7,200.0	10,901.8	7,350.0	64.7	63.5	-108.60	3,418.4	419.9	470.2	350.5	119.79	3.926		
10,900.0	7,200.0	11,001.8	7,350.0	66.4	65.2	-108.62	3,518.4	419.9	469.7	346.7	123.03	3.818		
11,000.0	7,200.0	11,101.8	7,350.0	68.1	66.9	-108.65	3,618.4	419.9	469.1	342.9	126.27	3.715		
11,100.0	7,200.0	11,201.8	7,350.0	69.8	68.6	-108.67	3,718.4	419.9	468.6	339.1	129.51	3.618		
11,200.0	7,200.0	11,301.8	7,350.0	71.5	70.3	-108.69	3,818.4	419.9	468.0	335.3	132.76	3.525		
11,300.0	7,200.0	11,401.8	7,350.0	73.1	72.0	-108.72	3,918.4	419.9	467.5	331.5	136.01	3.437		
11,400.0	7,200.0	11,501.8	7,350.0	74.8	73.7	-108.74	4,018.4	419.9	466.9	327.7	139.26	3.353		
11,500.0	7,200.0	11,601.8	7,350.0	76.5	75.4	-108.76	4,118.4	419.9	466.4	323.9	142.51	3.273		
11,600.0	7,200.0	11,701.8	7,350.0	78.2	77.2	-108.78	4,218.4	419.9	465.8	320.1	145.77	3.196		
11,700.0	7,200.0	11,801.8	7,350.0	79.9	78.9	-108.81	4,318.4	419.9	465.3	316.3	149.02	3.122		
11,700.7	7,200.0	11,802.5	7,350.0	79.9	78.9	-108.81	4,319.1	419.9	465.3	316.2	149.05	3.122 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4I-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 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	-89.94	0.0	-7.5	7.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-7.5	7.5	7.2	0.30	24.844		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-7.5	7.5	6.9	0.65	11.558		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-7.5	7.5	6.5	1.00	7.531		
400.0	400.0	400.0	400.0	0.7	0.7	-89.94	0.0	-7.5	7.5	6.2	1.35	5.585 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	154.51	0.0	-7.5	8.3	6.6	1.70	4.896		
600.0	600.0	600.1	600.1	1.0	1.0	158.38	-0.5	-6.8	10.0	7.9	2.05	4.861		
700.0	699.9	700.3	700.2	1.2	1.2	160.34	-2.0	-4.7	11.7	9.3	2.40	4.876		
800.0	799.7	800.5	800.3	1.4	1.4	161.09	-4.4	-1.0	13.5	10.8	2.75	4.910		
900.0	899.4	900.7	900.3	1.6	1.6	161.04	-7.9	4.0	15.4	12.3	3.11	4.952		
1,000.0	998.9	1,000.9	1,000.3	1.8	1.8	160.46	-12.3	10.6	17.3	13.8	3.47	4.996		
1,100.0	1,098.3	1,101.2	1,100.1	2.1	2.0	159.50	-17.7	18.5	19.3	15.5	3.83	5.039		
1,200.0	1,197.4	1,201.5	1,199.7	2.3	2.2	158.28	-24.1	27.9	21.4	17.2	4.21	5.078		
1,300.0	1,296.3	1,301.7	1,299.1	2.6	2.5	157.00	-31.4	38.7	23.6	19.0	4.61	5.127		
1,400.0	1,395.1	1,401.6	1,398.1	2.9	2.8	156.11	-38.9	49.7	26.1	21.1	5.01	5.212		
1,500.0	1,493.9	1,501.6	1,497.2	3.2	3.0	155.37	-46.4	60.7	28.6	23.2	5.42	5.278		
1,600.0	1,592.7	1,601.6	1,596.3	3.5	3.3	154.76	-53.9	71.8	31.1	25.3	5.83	5.331		
1,700.0	1,691.5	1,701.5	1,695.4	3.8	3.6	154.23	-61.4	82.8	33.6	27.4	6.25	5.373		
1,800.0	1,790.4	1,801.5	1,794.4	4.1	3.9	153.78	-68.9	93.8	36.1	29.4	6.68	5.407		
1,900.0	1,889.2	1,901.5	1,893.5	4.5	4.1	153.38	-76.4	104.8	38.6	31.5	7.11	5.435		
2,000.0	1,988.0	2,001.4	1,992.6	4.8	4.4	153.04	-83.9	115.9	41.1	33.6	7.54	5.458		
2,100.0	2,086.8	2,101.4	2,091.7	5.1	4.7	152.73	-91.3	126.9	43.6	35.7	7.97	5.477		
2,200.0	2,185.6	2,201.4	2,190.7	5.4	5.0	152.46	-98.8	137.9	46.2	37.8	8.40	5.493		
2,300.0	2,284.4	2,301.3	2,289.8	5.7	5.3	152.21	-106.3	148.9	48.7	39.8	8.84	5.506		
2,400.0	2,383.2	2,401.3	2,388.9	6.0	5.6	151.99	-113.8	160.0	51.2	41.9	9.28	5.517		
2,500.0	2,482.0	2,501.3	2,488.0	6.3	5.8	151.79	-121.3	171.0	53.7	44.0	9.72	5.527		
2,600.0	2,580.8	2,601.3	2,587.0	6.7	6.1	151.61	-128.8	182.0	56.2	46.1	10.16	5.535		
2,700.0	2,679.7	2,701.2	2,686.1	7.0	6.4	151.45	-136.3	193.1	58.7	48.1	10.60	5.542		
2,800.0	2,778.5	2,801.2	2,785.2	7.3	6.7	151.29	-143.8	204.1	61.2	50.2	11.04	5.548		
2,900.0	2,877.3	2,901.2	2,884.3	7.6	7.0	151.15	-151.3	215.1	63.8	52.3	11.48	5.553		
3,000.0	2,976.1	3,001.1	2,983.3	7.9	7.3	151.02	-158.8	226.1	66.3	54.4	11.93	5.558		
3,100.0	3,074.9	3,101.1	3,082.4	8.2	7.6	150.90	-166.3	237.2	68.8	56.4	12.37	5.561		
3,200.0	3,173.7	3,201.1	3,181.5	8.6	7.9	150.79	-173.8	248.2	71.3	58.5	12.81	5.565		
3,300.0	3,272.5	3,301.0	3,280.6	8.9	8.1	150.68	-181.3	259.2	73.8	60.6	13.26	5.568		
3,400.0	3,371.3	3,401.0	3,379.6	9.2	8.4	150.59	-188.8	270.2	76.3	62.6	13.71	5.570		
3,500.0	3,470.1	3,501.0	3,478.7	9.5	8.7	150.50	-196.3	281.3	78.9	64.7	14.15	5.572		
3,600.0	3,568.9	3,600.9	3,577.8	9.8	9.0	150.41	-203.7	292.3	81.4	66.8	14.60	5.574		
3,700.0	3,667.8	3,700.9	3,676.9	10.2	9.3	150.33	-211.2	303.3	83.9	68.9	15.05	5.576		
3,800.0	3,766.6	3,800.9	3,775.9	10.5	9.6	150.25	-218.7	314.4	86.4	70.9	15.49	5.578		
3,900.0	3,865.4	3,900.8	3,875.0	10.8	9.9	150.18	-226.2	325.4	88.9	73.0	15.94	5.579		
4,000.0	3,964.2	4,000.8	3,974.1	11.1	10.2	150.11	-233.7	336.4	91.5	75.1	16.39	5.580		
4,100.0	4,063.0	4,100.8	4,073.2	11.4	10.5	150.05	-241.2	347.4	94.0	77.1	16.84	5.581		
4,200.0	4,161.8	4,200.7	4,172.2	11.8	10.7	149.99	-248.7	358.5	96.5	79.2	17.29	5.582		
4,300.0	4,260.6	4,300.7	4,271.3	12.1	11.0	149.93	-256.2	369.5	99.0	81.3	17.74	5.583		
4,400.0	4,359.4	4,400.7	4,370.4	12.4	11.3	149.88	-263.7	380.5	101.5	83.4	18.19	5.583		
4,500.0	4,458.2	4,500.6	4,469.5	12.7	11.6	149.83	-271.2	391.5	104.1	85.4	18.63	5.584		
4,600.0	4,557.0	4,600.6	4,568.6	13.1	11.9	149.78	-278.7	402.6	106.6	87.5	19.08	5.584		
4,700.0	4,655.9	4,700.6	4,667.6	13.4	12.2	149.73	-286.2	413.6	109.1	89.6	19.53	5.585		
4,800.0	4,754.7	4,800.6	4,766.7	13.7	12.5	149.68	-293.7	424.6	111.6	91.6	19.98	5.585		
4,900.0	4,853.5	4,900.5	4,865.8	14.0	12.8	149.64	-301.2	435.6	114.1	93.7	20.43	5.586		
5,000.0	4,952.3	5,000.5	4,964.9	14.3	13.1	149.60	-308.7	446.7	116.7	95.8	20.88	5.586		
5,100.0	5,051.1	5,100.5	5,063.9	14.7	13.4	149.56	-316.1	457.7	119.2	97.8	21.33	5.586		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4I-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	5,149.9	5,200.4	5,163.0	15.0	13.7	149.52	-323.6	468.7	121.7	99.9	21.78	5.586		
5,300.0	5,248.7	5,300.4	5,262.1	15.3	13.9	149.49	-331.1	479.8	124.2	102.0	22.24	5.586		
5,400.0	5,347.5	5,400.4	5,361.2	15.6	14.2	149.45	-338.6	490.8	126.7	104.1	22.69	5.587		
5,500.0	5,446.3	5,500.3	5,460.2	15.9	14.5	149.42	-346.1	501.8	129.3	106.1	23.14	5.587		
5,600.0	5,545.1	5,600.3	5,559.3	16.3	14.8	149.38	-353.6	512.8	131.8	108.2	23.59	5.587		
5,700.0	5,644.0	5,700.3	5,658.4	16.6	15.1	149.35	-361.1	523.9	134.3	110.3	24.04	5.587		
5,800.0	5,742.8	5,800.2	5,757.5	16.9	15.4	149.32	-368.6	534.9	136.8	112.3	24.49	5.587		
5,900.0	5,841.6	5,900.2	5,856.5	17.2	15.7	149.30	-376.1	545.9	139.3	114.4	24.94	5.587		
6,000.0	5,940.4	6,000.2	5,955.6	17.5	16.0	149.27	-383.6	556.9	141.9	116.5	25.39	5.587		
6,100.0	6,039.2	6,100.1	6,054.7	17.9	16.3	149.24	-391.1	568.0	144.4	118.5	25.84	5.587		
6,200.0	6,138.0	6,200.1	6,153.8	18.2	16.6	149.21	-398.6	579.0	146.9	120.6	26.29	5.587		
6,300.0	6,236.8	6,300.1	6,252.8	18.5	16.9	149.19	-406.1	590.0	149.4	122.7	26.75	5.587		
6,400.0	6,335.6	6,400.0	6,351.9	18.8	17.1	149.17	-413.6	601.0	151.9	124.7	27.20	5.587		
6,500.0	6,434.4	6,500.3	6,451.4	19.2	17.4	151.14	-415.7	612.1	154.4	127.3	27.10	5.696		
6,600.0	6,533.4	6,598.6	6,548.5	19.4	17.5	-152.12	-404.3	622.7	157.4	131.2	26.18	6.012		
6,700.0	6,631.6	6,695.4	6,641.5	19.6	17.5	-116.09	-380.1	632.8	161.5	136.1	25.31	6.379		
6,800.0	6,727.0	6,790.6	6,729.2	19.7	17.5	-99.84	-344.2	642.2	166.3	141.6	24.66	6.743		
6,900.0	6,817.8	6,884.6	6,810.2	19.7	17.4	-90.47	-297.7	650.7	171.6	147.3	24.29	7.065		
7,000.0	6,902.2	6,977.3	6,883.7	19.7	17.4	-84.13	-241.7	658.4	177.1	152.9	24.18	7.323		
7,100.0	6,978.6	7,069.0	6,948.6	19.7	17.3	-79.51	-177.4	665.0	182.5	158.2	24.29	7.514		
7,200.0	7,045.6	7,159.8	7,004.4	19.7	17.4	-76.06	-106.0	670.6	187.6	163.1	24.54	7.645		
7,300.0	7,101.7	7,250.0	7,050.5	19.8	17.5	-73.49	-28.7	675.0	192.2	167.3	24.88	7.722		
7,400.0	7,145.9	7,339.5	7,086.3	20.0	17.6	-71.66	53.2	678.2	196.0	170.7	25.32	7.739		
7,500.0	7,177.3	7,428.7	7,111.6	20.3	17.9	-70.45	138.6	680.3	199.0	173.1	25.86	7.694		
7,600.0	7,195.4	7,517.6	7,126.2	20.7	18.4	-69.82	226.3	681.1	201.0	174.5	26.50	7.584		
7,700.0	7,200.0	7,608.2	7,130.0	21.2	18.9	-69.73	316.8	680.8	202.1	174.6	27.42	7.368		
7,800.0	7,200.0	7,708.2	7,130.0	21.9	19.6	-69.81	416.8	679.9	202.9	173.6	29.24	6.937		
7,900.0	7,200.0	7,808.2	7,130.0	22.7	20.5	-69.90	516.8	679.0	203.7	172.4	31.31	6.506		
8,000.0	7,200.0	7,908.2	7,130.0	23.5	21.4	-69.98	616.7	678.1	204.5	170.9	33.57	6.092		
8,100.0	7,200.0	8,008.2	7,130.0	24.5	22.5	-70.07	716.7	677.3	205.3	169.3	36.00	5.703		
8,200.0	7,200.0	8,108.2	7,130.0	25.6	23.6	-70.15	816.7	676.4	206.2	167.6	38.56	5.346		
8,300.0	7,200.0	8,208.2	7,130.0	26.7	24.8	-70.23	916.7	675.5	207.0	165.7	41.24	5.019		
8,400.0	7,200.0	8,308.2	7,130.0	27.9	26.1	-70.31	1,016.7	674.7	207.8	163.8	44.00	4.723		
8,500.0	7,200.0	8,408.2	7,130.0	29.2	27.4	-70.39	1,116.7	673.8	208.6	161.8	46.84	4.454		
8,600.0	7,200.0	8,508.2	7,130.0	30.5	28.8	-70.47	1,216.7	672.9	209.4	159.7	49.74	4.211		
8,700.0	7,200.0	8,608.2	7,130.0	31.8	30.2	-70.55	1,316.7	672.0	210.3	157.6	52.69	3.990		
8,800.0	7,200.0	8,708.2	7,130.0	33.2	31.7	-70.63	1,416.7	671.2	211.1	155.4	55.69	3.790		
8,900.0	7,200.0	8,808.2	7,130.0	34.6	33.2	-70.71	1,516.7	670.3	211.9	153.2	58.73	3.608		
9,000.0	7,200.0	8,908.2	7,130.0	36.1	34.7	-70.79	1,616.7	669.4	212.7	150.9	61.80	3.442		
9,100.0	7,200.0	9,008.1	7,130.0	37.5	36.2	-70.87	1,716.7	668.5	213.6	148.7	64.90	3.291		
9,200.0	7,200.0	9,108.1	7,130.0	39.0	37.7	-70.94	1,816.7	667.7	214.4	146.4	68.03	3.151		
9,300.0	7,200.0	9,208.1	7,130.0	40.5	39.3	-71.02	1,916.6	666.8	215.2	144.0	71.17	3.024		
9,400.0	7,200.0	9,308.1	7,130.0	42.1	40.9	-71.09	2,016.6	665.9	216.0	141.7	74.34	2.906		
9,500.0	7,200.0	9,408.1	7,130.0	43.6	42.5	-71.17	2,116.6	665.1	216.9	139.3	77.53	2.797		
9,600.0	7,200.0	9,508.1	7,130.0	45.2	44.1	-71.24	2,216.6	664.2	217.7	137.0	80.73	2.697		
9,700.0	7,200.0	9,608.1	7,130.0	46.8	45.7	-71.32	2,316.6	663.3	218.5	134.6	83.94	2.603		
9,800.0	7,200.0	9,708.1	7,130.0	48.4	47.3	-71.39	2,416.6	662.4	219.3	132.2	87.17	2.516		
9,900.0	7,200.0	9,808.1	7,130.0	50.0	48.9	-71.46	2,516.6	661.6	220.2	129.8	90.41	2.435		
10,000.0	7,200.0	9,908.1	7,130.0	51.6	50.6	-71.53	2,616.6	660.7	220.9	127.4	93.51	2.363		
10,100.0	7,200.0	10,008.1	7,130.0	53.2	52.2	-71.55	2,716.6	659.8	221.2	124.5	96.75	2.286		
10,200.0	7,200.0	10,108.1	7,130.0	54.8	53.9	-71.58	2,816.6	659.0	221.5	121.5	99.99	2.215		
10,300.0	7,200.0	10,208.1	7,130.0	56.5	55.5	-71.60	2,916.6	658.1	221.8	118.5	103.24	2.148		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4I-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,200.0	10,308.1	7,130.0	58.1	57.2	-71.62	3,016.6	657.2	222.0	115.5	106.50	2.085		
10,500.0	7,200.0	10,408.1	7,130.0	59.8	58.9	-71.65	3,116.6	656.3	222.3	112.6	109.76	2.025		
10,600.0	7,200.0	10,508.1	7,130.0	61.4	60.6	-71.67	3,216.6	655.5	222.6	109.6	113.03	1.969		
10,700.0	7,200.0	10,608.1	7,130.0	63.1	62.2	-71.69	3,316.6	654.6	222.9	106.6	116.31	1.916		
10,800.0	7,200.0	10,708.1	7,130.0	64.7	63.9	-71.72	3,416.6	653.7	223.1	103.6	119.59	1.866		
10,900.0	7,200.0	10,808.1	7,130.0	66.4	65.6	-71.74	3,516.6	652.8	223.4	100.5	122.87	1.818		
11,000.0	7,200.0	10,908.1	7,130.0	68.1	67.3	-71.76	3,616.6	652.0	223.7	97.5	126.16	1.773		
11,100.0	7,200.0	11,008.1	7,130.0	69.8	69.0	-71.79	3,716.5	651.1	224.0	94.5	129.45	1.730		
11,200.0	7,200.0	11,108.1	7,130.0	71.5	70.7	-71.81	3,816.5	650.2	224.2	91.5	132.74	1.689		
11,300.0	7,200.0	11,208.1	7,130.0	73.1	72.4	-71.83	3,916.5	649.4	224.5	88.5	136.04	1.650		
11,400.0	7,200.0	11,308.1	7,130.0	74.8	74.1	-71.86	4,016.5	648.5	224.8	85.5	139.34	1.613		
11,500.0	7,200.0	11,408.1	7,130.0	76.5	75.8	-71.88	4,116.5	647.6	225.1	82.4	142.65	1.578		
11,600.0	7,200.0	11,508.1	7,130.0	78.2	77.5	-71.90	4,216.5	646.7	225.4	79.4	145.96	1.544		
11,700.0	7,200.0	11,608.1	7,130.0	79.9	79.2	-71.93	4,316.5	645.9	225.6	76.4	149.27	1.512		
11,700.7	7,200.0	11,608.8	7,130.0	79.9	79.2	-71.93	4,317.2	645.9	225.6	76.3	149.29	1.511 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4K-35H-O367 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.06	0.0	7.5	7.5						
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	7.5	7.5	7.2	0.30	24.844			
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 CC, ES			
400.0	400.0	399.9	399.9	0.7	0.7	92.47	-0.4	8.3	8.3	7.0	1.35	6.181			
500.0	500.0	499.7	499.7	0.9	0.9	-22.67	-1.4	10.7	10.0	8.3	1.70	5.892			
600.0	600.0	599.5	599.4	1.0	1.0	-21.00	-3.2	14.7	11.7	9.7	2.05	5.731			
700.0	699.9	699.3	699.0	1.2	1.2	-20.32	-5.6	20.3	13.5	11.1	2.40	5.634			
800.0	799.7	799.0	798.4	1.4	1.4	-20.31	-8.8	27.4	15.3	12.6	2.75	5.572			
900.0	899.4	898.7	897.6	1.6	1.7	-20.74	-12.6	36.1	17.2	14.1	3.11	5.530			
1,000.0	998.9	998.4	996.7	1.8	1.9	-21.48	-17.2	46.4	19.1	15.6	3.47	5.500			
1,100.0	1,098.3	1,098.1	1,095.5	2.1	2.2	-22.45	-22.4	58.3	21.0	17.2	3.84	5.474			
1,200.0	1,197.4	1,197.7	1,194.0	2.3	2.5	-23.58	-28.3	71.8	23.0	18.8	4.23	5.450			
1,300.0	1,296.3	1,297.3	1,292.2	2.6	2.8	-24.80	-35.0	86.7	25.1	20.5	4.62	5.425			
1,400.0	1,395.1	1,397.1	1,390.5	2.9	3.1	-25.39	-42.1	103.0	27.9	22.8	5.03	5.540			
1,500.0	1,493.9	1,497.0	1,488.8	3.2	3.5	-25.81	-49.3	119.4	30.8	25.3	5.44	5.652			
1,600.0	1,592.7	1,597.0	1,587.1	3.5	3.8	-26.15	-56.6	135.8	33.6	27.8	5.86	5.744			
1,700.0	1,691.5	1,697.0	1,685.5	3.8	4.2	-26.44	-63.8	152.1	36.5	30.2	6.27	5.820			
1,800.0	1,790.4	1,796.9	1,783.8	4.1	4.5	-26.69	-71.0	168.5	39.4	32.7	6.70	5.885			
1,900.0	1,889.2	1,896.9	1,882.2	4.5	4.9	-26.90	-78.2	184.9	42.3	35.2	7.12	5.941			
2,000.0	1,988.0	1,996.8	1,980.5	4.8	5.2	-27.09	-85.5	201.3	45.2	37.6	7.54	5.988			
2,100.0	2,086.8	2,096.8	2,078.8	5.1	5.6	-27.25	-92.7	217.7	48.1	40.1	7.97	6.029			
2,200.0	2,185.6	2,196.7	2,177.2	5.4	5.9	-27.39	-99.9	234.0	50.9	42.5	8.40	6.065			
2,300.0	2,284.4	2,296.7	2,275.5	5.7	6.3	-27.52	-107.1	250.4	53.8	45.0	8.83	6.097			
2,400.0	2,383.2	2,396.7	2,373.9	6.0	6.6	-27.64	-114.4	266.8	56.7	47.5	9.26	6.125			
2,500.0	2,482.0	2,496.6	2,472.2	6.3	7.0	-27.75	-121.6	283.2	59.6	49.9	9.69	6.150			
2,600.0	2,580.8	2,596.6	2,570.6	6.7	7.3	-27.84	-128.8	299.5	62.5	52.4	10.12	6.173			
2,700.0	2,679.7	2,696.5	2,668.9	7.0	7.7	-27.93	-136.0	315.9	65.4	54.8	10.56	6.193			
2,800.0	2,778.5	2,796.5	2,767.2	7.3	8.1	-28.01	-143.3	332.3	68.3	57.3	10.99	6.211			
2,900.0	2,877.3	2,896.4	2,865.6	7.6	8.4	-28.08	-150.5	348.7	71.2	59.7	11.43	6.227			
3,000.0	2,976.1	2,996.4	2,963.9	7.9	8.8	-28.15	-157.7	365.0	74.0	62.2	11.86	6.242			
3,100.0	3,074.9	3,096.4	3,062.3	8.2	9.1	-28.21	-164.9	381.4	76.9	64.6	12.30	6.256			
3,200.0	3,173.7	3,196.3	3,160.6	8.6	9.5	-28.27	-172.2	397.8	79.8	67.1	12.73	6.269			
3,300.0	3,272.5	3,296.3	3,259.0	8.9	9.8	-28.32	-179.4	414.2	82.7	69.5	13.17	6.280			
3,400.0	3,371.3	3,396.2	3,357.3	9.2	10.2	-28.37	-186.6	430.6	85.6	72.0	13.61	6.291			
3,500.0	3,470.1	3,496.2	3,455.6	9.5	10.6	-28.42	-193.8	446.9	88.5	74.4	14.04	6.301			
3,600.0	3,568.9	3,596.2	3,554.0	9.8	10.9	-28.46	-201.1	463.3	91.4	76.9	14.48	6.310			
3,700.0	3,667.8	3,696.1	3,652.3	10.2	11.3	-28.50	-208.3	479.7	94.3	79.3	14.92	6.319			
3,800.0	3,766.6	3,796.1	3,750.7	10.5	11.6	-28.54	-215.5	496.1	97.1	81.8	15.35	6.327			
3,900.0	3,865.4	3,896.0	3,849.0	10.8	12.0	-28.58	-222.7	512.4	100.0	84.2	15.79	6.334			
4,000.0	3,964.2	3,996.0	3,947.4	11.1	12.4	-28.61	-230.0	528.8	102.9	86.7	16.23	6.341			
4,100.0	4,063.0	4,095.9	4,045.7	11.4	12.7	-28.65	-237.2	545.2	105.8	89.1	16.67	6.347			
4,200.0	4,161.8	4,195.9	4,144.0	11.8	13.1	-28.68	-244.4	561.6	108.7	91.6	17.11	6.354			
4,300.0	4,260.6	4,295.9	4,242.4	12.1	13.4	-28.71	-251.6	577.9	111.6	94.0	17.55	6.359			
4,400.0	4,359.4	4,395.8	4,340.7	12.4	13.8	-28.73	-258.9	594.3	114.5	96.5	17.99	6.365			
4,500.0	4,458.2	4,495.8	4,439.1	12.7	14.2	-28.76	-266.1	610.7	117.4	98.9	18.42	6.370			
4,600.0	4,557.0	4,595.7	4,537.4	13.1	14.5	-28.79	-273.3	627.1	120.2	101.4	18.86	6.375			
4,700.0	4,655.9	4,695.7	4,635.8	13.4	14.9	-28.81	-280.5	643.5	123.1	103.8	19.30	6.379			
4,800.0	4,754.7	4,795.7	4,734.1	13.7	15.2	-28.83	-287.8	659.8	126.0	106.3	19.74	6.384			
4,900.0	4,853.5	4,895.6	4,832.4	14.0	15.6	-28.85	-295.0	676.2	128.9	108.7	20.18	6.388			
5,000.0	4,952.3	4,995.6	4,930.8	14.3	16.0	-28.88	-302.2	692.6	131.8	111.2	20.62	6.392			
5,100.0	5,051.1	5,095.5	5,029.1	14.7	16.3	-28.90	-309.4	709.0	134.7	113.6	21.06	6.395			

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4K-35H-O367 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,149.9	5,195.5	5,127.5	15.0	16.7	-28.91	-316.7	725.3	137.6	116.1	21.50	6.399		
5,300.0	5,248.7	5,295.4	5,225.8	15.3	17.0	-28.93	-323.9	741.7	140.5	118.5	21.94	6.402		
5,400.0	5,347.5	5,395.4	5,324.2	15.6	17.4	-28.95	-331.1	758.1	143.4	121.0	22.38	6.405		
5,500.0	5,446.3	5,495.4	5,422.5	15.9	17.8	-28.97	-338.3	774.5	146.2	123.4	22.82	6.408		
5,600.0	5,545.1	5,595.3	5,520.8	16.3	18.1	-28.98	-345.6	790.8	149.1	125.9	23.26	6.411		
5,700.0	5,644.0	5,695.3	5,619.2	16.6	18.5	-29.00	-352.8	807.2	152.0	128.3	23.70	6.414		
5,800.0	5,742.8	5,795.2	5,717.5	16.9	18.8	-29.01	-360.0	823.6	154.9	130.8	24.14	6.417		
5,900.0	5,841.6	5,895.2	5,815.9	17.2	19.2	-29.03	-367.2	840.0	157.8	133.2	24.58	6.419		
6,000.0	5,940.4	5,995.2	5,914.2	17.5	19.6	-29.04	-374.5	856.4	160.7	135.7	25.02	6.422		
6,100.0	6,039.2	6,095.1	6,012.5	17.9	19.9	-29.06	-381.7	872.7	163.6	138.1	25.46	6.424		
6,200.0	6,138.0	6,195.1	6,110.9	18.2	20.3	-29.07	-388.9	889.1	166.5	140.6	25.90	6.427		
6,300.0	6,236.8	6,295.0	6,209.2	18.5	20.7	-29.08	-396.1	905.5	169.4	143.0	26.34	6.429		
6,400.0	6,335.6	6,395.0	6,307.6	18.8	21.0	-29.09	-403.4	921.9	172.2	145.5	26.78	6.431		
6,500.0	6,434.4	6,494.9	6,405.9	19.2	21.4	-29.11	-410.6	938.2	175.1	147.9	27.22	6.433		
6,600.0	6,533.4	6,594.6	6,504.0	19.4	21.7	24.71	-417.8	954.6	178.0	151.0	27.05	6.582		
6,700.0	6,631.6	6,692.7	6,600.5	19.6	22.1	62.15	-424.8	970.6	182.3	156.5	25.77	7.074		
6,800.0	6,727.0	6,794.4	6,700.7	19.7	22.4	81.55	-423.8	987.3	190.0	165.5	24.53	7.745		
6,900.0	6,817.8	6,900.2	6,803.8	19.7	22.6	93.81	-407.5	1,004.5	200.5	176.5	23.97	8.364		
7,000.0	6,902.2	7,010.5	6,907.4	19.7	22.7	102.66	-374.4	1,021.8	212.8	188.9	23.91	8.899		
7,100.0	6,978.6	7,125.5	7,008.8	19.7	22.8	109.36	-323.0	1,038.6	225.9	201.8	24.09	9.380		
7,200.0	7,045.6	7,245.4	7,104.4	19.7	22.9	114.47	-252.8	1,054.6	238.8	214.6	24.27	9.840		
7,300.0	7,101.7	7,369.9	7,190.1	19.8	23.0	118.30	-163.8	1,068.8	250.5	226.1	24.40	10.269		
7,400.0	7,145.9	7,498.7	7,261.3	20.0	23.1	121.03	-57.4	1,080.7	260.1	235.7	24.45	10.637		
7,500.0	7,177.3	7,630.7	7,313.7	20.3	23.4	122.78	63.3	1,089.4	266.9	242.3	24.55	10.873		
7,600.0	7,195.4	7,764.8	7,343.6	20.7	23.8	123.62	193.8	1,094.4	270.3	245.5	24.78	10.908		
7,700.0	7,200.0	7,889.8	7,350.0	21.2	24.4	123.67	318.4	1,095.5	270.6	245.2	25.38	10.658		
7,800.0	7,200.0	7,989.8	7,350.0	21.9	25.0	123.67	418.4	1,095.5	270.6	243.5	27.01	10.017		
7,900.0	7,200.0	8,089.8	7,350.0	22.7	25.6	123.67	518.4	1,095.5	270.6	241.7	28.84	9.382		
8,000.0	7,200.0	8,189.8	7,350.0	23.5	26.4	123.67	618.4	1,095.5	270.6	239.7	30.84	8.774		
8,100.0	7,200.0	8,289.8	7,350.0	24.5	27.3	123.67	718.4	1,095.5	270.6	237.6	32.97	8.205		
8,200.0	7,200.0	8,389.8	7,350.0	25.6	28.2	123.67	818.4	1,095.5	270.6	235.3	35.22	7.681		
8,300.0	7,200.0	8,489.8	7,350.0	26.7	29.3	123.67	918.4	1,095.5	270.6	233.0	37.57	7.201		
8,400.0	7,200.0	8,589.8	7,350.0	27.9	30.4	123.67	1,018.4	1,095.5	270.6	230.6	39.99	6.765		
8,500.0	7,200.0	8,689.8	7,350.0	29.2	31.5	123.67	1,118.4	1,095.5	270.6	228.1	42.48	6.369		
8,600.0	7,200.0	8,789.8	7,350.0	30.5	32.7	123.67	1,218.4	1,095.5	270.6	225.5	45.02	6.010		
8,700.0	7,200.0	8,889.8	7,350.0	31.8	34.0	123.67	1,318.4	1,095.5	270.6	223.0	47.60	5.684		
8,800.0	7,200.0	8,989.8	7,350.0	33.2	35.3	123.67	1,418.4	1,095.5	270.6	220.3	50.22	5.387		
8,900.0	7,200.0	9,089.8	7,350.0	34.6	36.6	123.67	1,518.4	1,095.5	270.6	217.7	52.87	5.117		
9,000.0	7,200.0	9,189.8	7,350.0	36.1	38.0	123.67	1,618.4	1,095.5	270.6	215.0	55.55	4.870		
9,100.0	7,200.0	9,289.8	7,350.0	37.5	39.4	123.67	1,718.4	1,095.5	270.6	212.3	58.26	4.644		
9,200.0	7,200.0	9,389.8	7,350.0	39.0	40.8	123.67	1,818.4	1,095.5	270.6	209.6	60.98	4.436		
9,300.0	7,200.0	9,489.8	7,350.0	40.5	42.3	123.67	1,918.4	1,095.5	270.6	206.8	63.73	4.245		
9,400.0	7,200.0	9,589.8	7,350.0	42.1	43.7	123.67	2,018.4	1,095.5	270.6	204.1	66.49	4.069		
9,500.0	7,200.0	9,689.8	7,350.0	43.6	45.2	123.67	2,118.4	1,095.5	270.6	201.3	69.26	3.906		
9,600.0	7,200.0	9,789.8	7,350.0	45.2	46.8	123.67	2,218.4	1,095.5	270.6	198.5	72.04	3.755		
9,700.0	7,200.0	9,889.8	7,350.0	46.8	48.3	123.67	2,318.4	1,095.5	270.6	195.7	74.84	3.615		
9,800.0	7,200.0	9,989.8	7,350.0	48.4	49.8	123.67	2,418.4	1,095.5	270.6	192.9	77.65	3.484		
9,900.0	7,200.0	10,089.8	7,350.0	50.0	51.4	123.67	2,518.4	1,095.5	270.6	190.1	80.46	3.363		
9,958.2	7,200.0	10,148.0	7,350.0	50.9	52.3	123.66	2,576.7	1,095.5	270.6	188.6	82.02	3.300		
10,000.0	7,200.0	10,189.8	7,350.0	51.6	53.0	123.66	2,618.4	1,095.5	270.6	187.5	83.13	3.255		
10,100.0	7,200.0	10,289.8	7,350.0	53.2	54.5	123.60	2,718.4	1,095.5	271.1	185.1	86.02	3.152		
10,200.0	7,200.0	10,389.8	7,350.0	54.8	56.1	123.53	2,818.4	1,095.5	271.6	182.7	88.92	3.054		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4K-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,200.0	10,489.8	7,350.0	56.5	57.7	123.46	2,918.4	1,095.5	272.1	180.2	91.83	2.963		
10,400.0	7,200.0	10,589.8	7,350.0	58.1	59.4	123.39	3,018.4	1,095.5	272.5	177.8	94.75	2.877		
10,500.0	7,200.0	10,689.8	7,350.0	59.8	61.0	123.33	3,118.4	1,095.5	273.0	175.4	97.68	2.795		
10,600.0	7,200.0	10,789.8	7,350.0	61.4	62.6	123.26	3,218.4	1,095.5	273.5	172.9	100.61	2.718		
10,700.0	7,200.0	10,889.8	7,350.0	63.1	64.2	123.19	3,318.4	1,095.5	274.0	170.4	103.56	2.646		
10,800.0	7,200.0	10,989.8	7,350.0	64.7	65.9	123.13	3,418.4	1,095.5	274.5	168.0	106.51	2.577		
10,900.0	7,200.0	11,089.8	7,350.0	66.4	67.5	123.06	3,518.4	1,095.5	275.0	165.5	109.47	2.512		
11,000.0	7,200.0	11,189.8	7,350.0	68.1	69.2	122.99	3,618.4	1,095.5	275.5	163.0	112.44	2.450		
11,100.0	7,200.0	11,289.8	7,350.0	69.8	70.8	122.93	3,718.4	1,095.5	276.0	160.5	115.41	2.391		
11,200.0	7,200.0	11,389.8	7,350.0	71.5	72.5	122.86	3,818.4	1,095.5	276.4	158.0	118.39	2.335		
11,300.0	7,200.0	11,489.8	7,350.0	73.1	74.1	122.80	3,918.4	1,095.5	276.9	155.5	121.38	2.282		
11,400.0	7,200.0	11,589.8	7,350.0	74.8	75.8	122.73	4,018.4	1,095.5	277.4	153.0	124.37	2.231		
11,500.0	7,200.0	11,689.8	7,350.0	76.5	77.5	122.67	4,118.4	1,095.5	277.9	150.5	127.37	2.182		
11,600.0	7,200.0	11,789.8	7,350.0	78.2	79.2	122.60	4,218.4	1,095.5	278.4	148.0	130.38	2.135		
11,700.0	7,200.0	11,889.8	7,350.0	79.9	80.8	122.54	4,318.4	1,095.5	278.9	145.5	133.39	2.091		
11,700.7	7,200.0	11,890.5	7,350.0	79.9	80.8	122.54	4,319.1	1,095.5	278.9	145.5	133.41	2.091 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4L-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	91.15	-0.3	15.9	15.9	14.9	1.00	15.880		
400.0	400.0	399.4	399.4	0.7	0.7	93.83	-1.2	18.3	18.4	17.0	1.35	13.594		
500.0	500.0	499.0	498.9	0.9	0.9	-22.26	-2.7	22.4	21.8	20.1	1.70	12.818		
600.0	600.0	598.6	598.2	1.0	1.1	-21.09	-4.9	28.1	25.3	23.2	2.05	12.330		
700.0	699.9	698.0	697.4	1.2	1.3	-20.67	-7.6	35.4	28.8	26.4	2.40	12.006		
800.0	799.7	797.5	796.4	1.4	1.5	-20.75	-10.9	44.3	32.4	29.7	2.75	11.778		
900.0	899.4	896.8	895.1	1.6	1.8	-21.18	-14.8	54.7	36.1	33.0	3.11	11.607		
1,000.0	998.9	996.1	993.6	1.8	2.0	-21.87	-19.3	66.8	39.8	36.4	3.47	11.472		
1,100.0	1,098.3	1,095.3	1,091.7	2.1	2.3	-22.73	-24.4	80.5	43.6	39.8	3.84	11.356		
1,200.0	1,197.4	1,194.5	1,189.5	2.3	2.7	-23.73	-30.1	95.8	47.5	43.3	4.22	11.248		
1,300.0	1,296.3	1,293.6	1,287.0	2.6	3.0	-24.82	-36.3	112.6	51.5	46.9	4.62	11.142		
1,400.0	1,395.1	1,392.6	1,384.0	2.9	3.4	-25.51	-43.2	131.0	56.6	51.5	5.03	11.250		
1,500.0	1,493.9	1,491.8	1,481.0	3.2	3.8	-25.65	-50.6	150.8	63.1	57.7	5.43	11.617		
1,600.0	1,592.7	1,591.6	1,578.4	3.5	4.2	-25.69	-58.1	171.0	69.9	64.1	5.84	11.969		
1,700.0	1,691.5	1,691.4	1,675.8	3.8	4.6	-25.73	-65.6	191.2	76.7	70.5	6.25	12.272		
1,800.0	1,790.4	1,791.1	1,773.2	4.1	5.0	-25.77	-73.1	211.4	83.5	76.9	6.66	12.534		
1,900.0	1,889.2	1,890.9	1,870.6	4.5	5.4	-25.79	-80.6	231.5	90.3	83.2	7.08	12.763		
2,000.0	1,988.0	1,990.7	1,968.0	4.8	5.8	-25.82	-88.2	251.7	97.1	89.6	7.49	12.965		
2,100.0	2,086.8	2,090.4	2,065.5	5.1	6.2	-25.84	-95.7	271.9	103.9	96.0	7.91	13.144		
2,200.0	2,185.6	2,190.2	2,162.9	5.4	6.6	-25.86	-103.2	292.1	110.7	102.4	8.32	13.303		
2,300.0	2,284.4	2,290.0	2,260.3	5.7	7.0	-25.87	-110.7	312.2	117.5	108.8	8.74	13.447		
2,400.0	2,383.2	2,389.8	2,357.7	6.0	7.5	-25.89	-118.2	332.4	124.3	115.1	9.16	13.576		
2,500.0	2,482.0	2,489.5	2,455.1	6.3	7.9	-25.90	-125.7	352.6	131.1	121.5	9.57	13.693		
2,600.0	2,580.8	2,589.3	2,552.5	6.7	8.3	-25.91	-133.3	372.8	137.9	127.9	9.99	13.800		
2,700.0	2,679.7	2,689.1	2,650.0	7.0	8.7	-25.92	-140.8	393.0	144.7	134.3	10.41	13.897		
2,800.0	2,778.5	2,788.8	2,747.4	7.3	9.1	-25.93	-148.3	413.1	151.5	140.7	10.83	13.987		
2,900.0	2,877.3	2,888.6	2,844.8	7.6	9.5	-25.94	-155.8	433.3	158.3	147.0	11.25	14.069		
3,000.0	2,976.1	2,988.4	2,942.2	7.9	10.0	-25.95	-163.3	453.5	165.1	153.4	11.67	14.146		
3,100.0	3,074.9	3,088.1	3,039.6	8.2	10.4	-25.96	-170.8	473.7	171.9	159.8	12.09	14.216		
3,200.0	3,173.7	3,187.9	3,137.0	8.6	10.8	-25.96	-178.3	493.9	178.7	166.2	12.51	14.282		
3,300.0	3,272.5	3,287.7	3,234.5	8.9	11.2	-25.97	-185.9	514.0	185.5	172.6	12.93	14.343		
3,400.0	3,371.3	3,387.4	3,331.9	9.2	11.6	-25.98	-193.4	534.2	192.3	178.9	13.35	14.400		
3,500.0	3,470.1	3,487.2	3,429.3	9.5	12.0	-25.98	-200.9	554.4	199.1	185.3	13.77	14.453		
3,600.0	3,568.9	3,587.0	3,526.7	9.8	12.5	-25.99	-208.4	574.6	205.9	191.7	14.20	14.503		
3,700.0	3,667.8	3,686.7	3,624.1	10.2	12.9	-25.99	-215.9	594.7	212.7	198.1	14.62	14.550		
3,800.0	3,766.6	3,786.5	3,721.6	10.5	13.3	-26.00	-223.4	614.9	219.5	204.4	15.04	14.594		
3,900.0	3,865.4	3,886.3	3,819.0	10.8	13.7	-26.00	-231.0	635.1	226.3	210.8	15.46	14.636		
4,000.0	3,964.2	3,986.1	3,916.4	11.1	14.1	-26.00	-238.5	655.3	233.1	217.2	15.88	14.675		
4,100.0	4,063.0	4,085.8	4,013.8	11.4	14.6	-26.01	-246.0	675.5	239.9	223.6	16.30	14.712		
4,200.0	4,161.8	4,185.6	4,111.2	11.8	15.0	-26.01	-253.5	695.6	246.7	229.9	16.73	14.748		
4,300.0	4,260.6	4,285.4	4,208.6	12.1	15.4	-26.01	-261.0	715.8	253.5	236.3	17.15	14.781		
4,400.0	4,359.4	4,385.1	4,306.1	12.4	15.8	-26.02	-268.5	736.0	260.3	242.7	17.57	14.813		
4,500.0	4,458.2	4,484.9	4,403.5	12.7	16.2	-26.02	-276.1	756.2	267.1	249.1	17.99	14.843		
4,600.0	4,557.0	4,584.7	4,500.9	13.1	16.7	-26.02	-283.6	776.3	273.9	255.4	18.41	14.872		
4,700.0	4,655.9	4,684.4	4,598.3	13.4	17.1	-26.03	-291.1	796.5	280.6	261.8	18.84	14.899		
4,800.0	4,754.7	4,784.2	4,695.7	13.7	17.5	-26.03	-298.6	816.7	287.4	268.2	19.26	14.925		
4,900.0	4,853.5	4,884.0	4,793.1	14.0	17.9	-26.03	-306.1	836.9	294.2	274.6	19.68	14.950		
5,000.0	4,952.3	4,983.7	4,890.6	14.3	18.3	-26.03	-313.6	857.1	301.0	280.9	20.10	14.974		
5,100.0	5,051.1	5,083.5	4,988.0	14.7	18.8	-26.04	-321.2	877.2	307.8	287.3	20.53	14.997		

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4L-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 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	5,149.9	5,183.3	5,085.4	15.0	19.2	-26.04	-328.7	897.4	314.6	293.7	20.95	15.019		
5,300.0	5,248.7	5,283.0	5,182.8	15.3	19.6	-26.04	-336.2	917.6	321.4	300.1	21.37	15.040		
5,400.0	5,347.5	5,382.8	5,280.2	15.6	20.0	-26.04	-343.7	937.8	328.2	306.4	21.79	15.060		
5,500.0	5,446.3	5,482.6	5,377.6	15.9	20.4	-26.04	-351.2	958.0	335.0	312.8	22.22	15.080		
5,600.0	5,545.1	5,582.3	5,475.1	16.3	20.9	-26.05	-358.7	978.1	341.8	319.2	22.64	15.098		
5,700.0	5,644.0	5,682.1	5,572.5	16.6	21.3	-26.05	-366.2	998.3	348.6	325.6	23.06	15.116		
5,800.0	5,742.8	5,781.9	5,669.9	16.9	21.7	-26.05	-373.8	1,018.5	355.4	331.9	23.49	15.134		
5,900.0	5,841.6	5,881.7	5,767.3	17.2	22.1	-26.05	-381.3	1,038.7	362.2	338.3	23.91	15.150		
6,000.0	5,940.4	5,981.4	5,864.7	17.5	22.5	-26.05	-388.8	1,058.8	369.0	344.7	24.33	15.166		
6,100.0	6,039.2	6,081.2	5,962.2	17.9	23.0	-26.05	-396.3	1,079.0	375.8	351.1	24.75	15.182		
6,200.0	6,138.0	6,181.0	6,059.6	18.2	23.4	-26.06	-403.8	1,099.2	382.6	357.4	25.18	15.197		
6,300.0	6,236.8	6,280.7	6,157.0	18.5	23.8	-26.06	-411.3	1,119.4	389.4	363.8	25.60	15.211		
6,400.0	6,335.6	6,380.5	6,254.4	18.8	24.2	-26.06	-418.9	1,139.6	396.2	370.2	26.02	15.225		
6,500.0	6,434.4	6,480.3	6,351.8	19.2	24.6	-26.06	-426.4	1,159.7	403.0	376.6	26.45	15.238		
6,600.0	6,533.4	6,581.5	6,450.8	19.4	25.0	25.74	-429.9	1,180.2	409.9	383.1	26.79	15.303		
6,700.0	6,631.6	6,683.6	6,550.2	19.6	25.3	57.14	-419.4	1,200.8	416.8	389.9	26.89	15.501		
6,800.0	6,727.0	6,786.1	6,647.4	19.7	25.6	69.13	-394.5	1,221.0	423.4	396.6	26.78	15.808		
6,900.0	6,817.8	6,888.9	6,740.5	19.7	25.8	74.67	-355.6	1,240.3	429.8	403.2	26.53	16.202		
7,000.0	6,902.2	6,992.1	6,827.5	19.7	25.9	77.65	-303.2	1,258.3	435.7	409.5	26.18	16.643		
7,100.0	6,978.6	7,095.6	6,906.4	19.7	26.0	79.38	-238.4	1,274.6	441.0	415.1	25.83	17.074		
7,200.0	7,045.6	7,199.2	6,975.4	19.7	26.1	80.41	-162.6	1,288.9	445.6	420.0	25.59	17.414		
7,300.0	7,101.7	7,303.0	7,033.1	19.8	26.3	81.00	-77.3	1,300.9	449.5	423.9	25.58	17.570		
7,400.0	7,145.9	7,406.8	7,078.2	20.0	26.5	81.30	15.7	1,310.2	452.5	426.6	25.91	17.464		
7,500.0	7,177.3	7,510.5	7,109.6	20.3	26.8	81.39	114.2	1,316.7	454.6	428.0	26.65	17.058		
7,600.0	7,195.4	7,614.1	7,126.7	20.7	27.1	81.32	216.2	1,320.2	455.8	428.0	27.83	16.379		
7,700.0	7,200.0	7,716.4	7,130.0	21.2	27.5	81.17	318.4	1,320.9	456.0	426.6	29.40	15.509		
7,800.0	7,200.0	7,816.4	7,130.0	21.9	28.0	81.17	418.4	1,320.9	456.0	424.8	31.25	14.593		
7,900.0	7,200.0	7,916.4	7,130.0	22.7	28.6	81.17	518.4	1,320.9	456.0	422.7	33.36	13.672		
8,000.0	7,200.0	8,016.4	7,130.0	23.5	29.3	81.17	618.4	1,320.9	456.0	420.4	35.68	12.783		
8,100.0	7,200.0	8,116.4	7,130.0	24.5	30.1	81.17	718.4	1,320.9	456.0	417.9	38.17	11.948		
8,200.0	7,200.0	8,216.4	7,130.0	25.6	30.9	81.17	818.4	1,320.9	456.0	415.2	40.81	11.176		
8,300.0	7,200.0	8,316.4	7,130.0	26.7	31.9	81.17	918.4	1,320.9	456.0	412.5	43.56	10.470		
8,400.0	7,200.0	8,416.4	7,130.0	27.9	32.9	81.17	1,018.4	1,320.9	456.0	409.6	46.41	9.827		
8,500.0	7,200.0	8,516.4	7,130.0	29.2	33.9	81.17	1,118.4	1,320.9	456.0	406.7	49.33	9.244		
8,600.0	7,200.0	8,616.4	7,130.0	30.5	35.0	81.17	1,218.4	1,320.9	456.0	403.7	52.33	8.715		
8,700.0	7,200.0	8,716.4	7,130.0	31.8	36.2	81.17	1,318.4	1,320.9	456.0	400.7	55.38	8.235		
8,800.0	7,200.0	8,816.4	7,130.0	33.2	37.4	81.17	1,418.4	1,320.9	456.0	397.6	58.47	7.799		
8,900.0	7,200.0	8,916.4	7,130.0	34.6	38.7	81.17	1,518.4	1,320.9	456.0	394.4	61.61	7.402		
9,000.0	7,200.0	9,016.4	7,130.0	36.1	40.0	81.17	1,618.4	1,320.9	456.0	391.3	64.78	7.040		
9,100.0	7,200.0	9,116.4	7,130.0	37.5	41.3	81.17	1,718.4	1,320.9	456.0	388.1	67.98	6.709		
9,200.0	7,200.0	9,216.4	7,130.0	39.0	42.7	81.17	1,818.4	1,320.9	456.0	384.8	71.20	6.405		
9,300.0	7,200.0	9,316.4	7,130.0	40.5	44.1	81.17	1,918.4	1,320.9	456.0	381.6	74.45	6.126		
9,400.0	7,200.0	9,416.4	7,130.0	42.1	45.5	81.17	2,018.4	1,320.9	456.0	378.3	77.71	5.868		
9,500.0	7,200.0	9,516.4	7,130.0	43.6	46.9	81.17	2,118.4	1,320.9	456.0	375.0	80.99	5.631		
9,600.0	7,200.0	9,616.4	7,130.0	45.2	48.4	81.17	2,218.4	1,320.9	456.0	371.7	84.29	5.410		
9,700.0	7,200.0	9,716.4	7,130.0	46.8	49.8	81.17	2,318.4	1,320.9	456.0	368.4	87.60	5.206		
9,800.0	7,200.0	9,816.4	7,130.0	48.4	51.3	81.17	2,418.4	1,320.9	456.0	365.1	90.92	5.016		
9,900.0	7,200.0	9,916.4	7,130.0	50.0	52.9	81.17	2,518.4	1,320.9	456.0	361.8	94.25	4.839		
9,958.3	7,200.0	9,974.6	7,130.0	50.9	53.7	81.17	2,576.7	1,320.9	456.1	360.1	96.08	4.748		
10,000.0	7,200.0	10,016.4	7,130.0	51.6	54.4	81.17	2,618.4	1,320.9	456.1	358.7	97.38	4.683		
10,100.0	7,200.0	10,116.4	7,130.0	53.2	55.9	81.18	2,718.4	1,320.9	456.7	355.9	100.74	4.533		
10,200.0	7,200.0	10,216.4	7,130.0	54.8	57.5	81.19	2,818.4	1,320.9	457.2	353.1	104.10	4.392		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4L-35H-O367 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,200.0	10,316.4	7,130.0	56.5	59.0	81.20	2,918.4	1,320.9	457.8	350.4	107.46	4.260		
10,400.0	7,200.0	10,416.4	7,130.0	58.1	60.6	81.22	3,018.4	1,320.9	458.4	347.6	110.84	4.136		
10,500.0	7,200.0	10,516.4	7,130.0	59.8	62.2	81.23	3,118.4	1,320.9	459.0	344.7	114.21	4.018		
10,600.0	7,200.0	10,616.4	7,130.0	61.4	63.8	81.24	3,218.4	1,320.9	459.5	341.9	117.60	3.908		
10,700.0	7,200.0	10,716.4	7,130.0	63.1	65.4	81.25	3,318.4	1,320.9	460.1	339.1	120.99	3.803		
10,800.0	7,200.0	10,816.4	7,130.0	64.7	67.0	81.26	3,418.4	1,320.9	460.7	336.3	124.38	3.704		
10,900.0	7,200.0	10,916.4	7,130.0	66.4	68.6	81.27	3,518.4	1,320.9	461.3	333.5	127.78	3.610		
11,000.0	7,200.0	11,016.4	7,130.0	68.1	70.2	81.28	3,618.4	1,320.9	461.8	330.7	131.19	3.521		
11,100.0	7,200.0	11,116.4	7,130.0	69.8	71.9	81.29	3,718.4	1,320.9	462.4	327.8	134.59	3.436		
11,200.0	7,200.0	11,216.4	7,130.0	71.5	73.5	81.30	3,818.4	1,320.9	463.0	325.0	138.00	3.355		
11,300.0	7,200.0	11,316.4	7,130.0	73.1	75.1	81.31	3,918.4	1,320.9	463.6	322.2	141.41	3.278		
11,400.0	7,200.0	11,416.4	7,130.0	74.8	76.8	81.33	4,018.4	1,320.9	464.1	319.3	144.83	3.205		
11,500.0	7,200.0	11,516.4	7,130.0	76.5	78.4	81.34	4,118.4	1,320.9	464.7	316.5	148.25	3.135		
11,600.0	7,200.0	11,616.4	7,130.0	78.2	80.1	81.35	4,218.4	1,320.9	465.3	313.6	151.67	3.068		
11,700.0	7,200.0	11,716.4	7,130.0	79.9	81.8	81.36	4,318.4	1,320.9	465.9	310.8	155.09	3.004		
11,700.7	7,200.0	11,717.1	7,130.0	79.9	81.8	81.36	4,319.1	1,320.9	465.9	310.8	155.12	3.003 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 843-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total 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	1.1	1.1	0.0	0.0	-69.99	192.4	-528.1	562.1					
100.0	100.0	101.3	101.3	0.2	0.2	-69.98	192.4	-528.1	562.0	561.7	0.33	1,717.162		
200.0	200.0	201.6	201.6	0.3	0.4	-69.96	192.6	-527.9	562.0	561.3	0.68	832.050		
300.0	300.0	301.8	301.8	0.5	0.5	-69.92	192.9	-527.7	561.9	560.8	1.02	548.961		
400.0	400.0	402.1	402.1	0.7	0.7	-69.87	193.3	-527.4	561.7	560.3	1.37	409.532		
410.2	410.2	412.3	412.3	0.7	0.7	171.73	193.3	-527.4	561.7	560.3	1.41	398.578		
500.0	500.0	502.3	502.3	0.9	0.9	171.80	193.8	-527.0	562.4	560.7	1.72	326.570		
600.0	600.0	602.5	602.5	1.0	1.0	171.91	194.5	-526.5	564.7	562.7	2.07	272.804		
700.0	699.9	702.6	702.6	1.2	1.2	172.06	195.2	-526.0	568.8	566.4	2.42	235.261		
800.0	799.7	802.7	802.7	1.4	1.4	172.24	196.1	-525.3	574.5	571.8	2.76	207.813		
900.0	899.4	914.3	914.3	1.6	1.6	172.48	196.9	-523.8	581.3	578.2	3.13	185.578		
1,000.0	998.9	1,026.3	1,026.2	1.8	1.8	172.57	195.2	-520.3	587.4	583.9	3.50	167.968		
1,100.0	1,098.3	1,144.0	1,143.7	2.1	2.0	172.53	190.6	-514.1	592.2	588.4	3.87	152.993		
1,200.0	1,197.4	1,259.4	1,258.5	2.3	2.2	172.34	183.4	-506.1	596.5	592.3	4.24	140.614		
1,300.0	1,296.3	1,371.2	1,369.5	2.6	2.5	171.97	173.3	-496.6	600.0	595.4	4.61	130.091		
1,400.0	1,395.1	1,479.7	1,476.9	2.9	2.7	171.62	162.9	-485.9	602.8	597.8	4.99	120.883		
1,500.0	1,493.9	1,586.6	1,582.6	3.2	3.0	171.37	153.0	-473.6	603.9	598.6	5.36	112.658		
1,600.0	1,592.7	1,708.5	1,702.7	3.5	3.4	170.97	139.8	-457.4	603.0	597.2	5.77	104.485		
1,700.0	1,691.5	1,813.4	1,805.6	3.8	3.7	170.53	126.6	-441.4	599.5	593.4	6.16	97.363		
1,800.0	1,790.4	1,927.4	1,916.9	4.1	4.2	169.96	110.9	-422.6	594.6	588.0	6.57	90.445		
1,900.0	1,889.2	2,024.5	2,011.5	4.5	4.5	169.45	97.1	-405.9	588.8	581.8	6.96	84.579		
2,000.0	1,988.0	2,135.1	2,119.2	4.8	5.0	168.84	81.0	-386.0	582.2	574.8	7.39	78.781		
2,100.0	2,086.8	2,236.1	2,217.1	5.1	5.4	168.24	65.6	-366.9	574.6	566.8	7.81	73.597		
2,200.0	2,185.6	2,330.6	2,308.9	5.4	5.8	167.71	52.0	-349.4	567.5	559.3	8.21	69.127		
2,300.0	2,284.4	2,428.6	2,404.4	5.7	6.2	167.21	38.3	-331.5	561.1	552.5	8.63	65.050		
2,400.0	2,383.2	2,529.5	2,502.7	6.0	6.6	166.69	24.5	-313.3	554.9	545.8	9.06	61.268		
2,500.0	2,482.0	2,635.8	2,605.8	6.3	7.1	166.00	8.5	-293.4	547.7	538.2	9.53	57.495		
2,600.0	2,580.8	2,730.9	2,698.0	6.7	7.5	165.30	-6.6	-275.4	540.2	530.2	9.98	54.119		
2,700.0	2,679.7	2,826.3	2,790.8	7.0	7.9	164.61	-21.1	-258.4	534.1	523.7	10.45	51.130		
2,800.0	2,778.5	2,930.7	2,892.3	7.3	8.4	163.89	-36.6	-239.7	528.0	517.0	10.94	48.267		
2,900.0	2,877.3	3,027.6	2,986.4	7.6	8.8	163.25	-50.6	-221.7	521.4	510.0	11.42	45.672		
3,000.0	2,976.1	3,127.8	3,083.9	7.9	9.2	162.55	-65.2	-203.6	515.4	503.5	11.92	43.240		
3,100.0	3,074.9	3,225.8	3,179.3	8.2	9.7	161.88	-79.3	-185.9	509.4	497.0	12.42	41.015		
3,200.0	3,173.7	3,321.4	3,272.4	8.6	10.1	161.25	-92.6	-169.0	504.1	491.2	12.92	39.024		
3,300.0	3,272.5	3,424.4	3,372.8	8.9	10.5	160.54	-107.0	-151.0	499.0	485.5	13.46	37.082		
3,400.0	3,371.3	3,522.9	3,468.7	9.2	10.9	159.82	-121.1	-133.5	493.7	479.7	14.00	35.273		
3,500.0	3,470.1	3,623.2	3,566.4	9.5	11.4	159.13	-135.0	-115.8	488.5	474.0	14.54	33.595		
3,600.0	3,568.9	3,726.2	3,666.7	9.8	11.8	158.36	-149.6	-97.2	483.0	467.9	15.12	31.939		
3,700.0	3,667.8	3,830.6	3,768.2	10.2	12.3	157.56	-164.5	-77.5	476.8	461.1	15.72	30.328		
3,800.0	3,766.6	3,931.3	3,865.7	10.5	12.8	156.76	-179.0	-57.5	469.6	453.3	16.33	28.759		
3,900.0	3,865.4	4,031.5	3,962.9	10.8	13.2	155.88	-194.0	-38.3	463.2	446.2	16.97	27.295		
4,000.0	3,964.2	4,128.7	4,057.0	11.1	13.7	154.95	-208.9	-18.8	456.0	438.4	17.62	25.879		
4,100.0	4,063.0	4,225.0	4,150.7	11.4	14.1	154.13	-222.6	-1.0	450.5	432.2	18.25	24.679		
4,200.0	4,161.8	4,324.6	4,247.6	11.8	14.5	153.33	-236.2	17.6	445.0	426.1	18.89	23.552		
4,300.0	4,260.6	4,418.1	4,338.6	12.1	14.9	152.66	-248.3	34.5	440.2	420.7	19.50	22.578		
4,400.0	4,359.4	4,510.8	4,429.5	12.4	15.3	152.07	-259.6	49.3	437.6	417.5	20.08	21.787		
4,500.0	4,458.2	4,610.2	4,526.9	12.7	15.7	151.43	-271.7	65.0	435.3	414.5	20.71	21.018		
4,600.0	4,557.0	4,703.4	4,618.4	13.1	16.0	150.84	-283.0	78.9	433.8	412.5	21.31	20.361		
4,700.0	4,655.9	4,804.2	4,717.5	13.4	16.4	150.26	-294.7	92.8	433.6	411.7	21.93	19.774		
4,768.3	4,723.3	4,869.7	4,781.9	13.6	16.6	149.89	-302.3	102.0	433.3	410.9	22.34	19.396 CC		
4,800.0	4,754.7	4,899.5	4,811.2	13.7	16.7	149.74	-305.6	106.0	433.4	410.8	22.52	19.241 ES		
4,900.0	4,853.5	4,994.2	4,904.6	14.0	17.0	149.30	-315.9	117.9	434.4	411.3	23.10	18.810		

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 843-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,000.0	4,952.3	5,094.0	5,003.3	14.3	17.4	148.95	-325.9	129.7	436.3	412.7	23.64	18.455		
5,100.0	5,051.1	5,189.5	5,097.8	14.7	17.6	148.86	-333.7	140.5	438.6	414.5	24.10	18.197		
5,200.0	5,149.9	5,286.3	5,193.8	15.0	17.9	148.93	-340.4	150.6	441.7	417.1	24.52	18.013		
5,300.0	5,248.7	5,381.6	5,288.4	15.3	18.2	148.91	-347.7	159.7	445.7	420.7	24.96	17.858		
5,400.0	5,347.5	5,482.1	5,388.3	15.6	18.4	148.99	-354.7	168.7	450.2	424.9	25.37	17.746		
5,500.0	5,446.3	5,575.4	5,481.0	15.9	18.6	149.14	-360.5	176.4	455.5	429.8	25.74	17.696		
5,600.0	5,545.1	5,676.3	5,581.4	16.3	18.9	149.34	-366.6	184.3	461.2	435.0	26.11	17.662 SF		
5,700.0	5,644.0	5,773.7	5,678.5	16.6	19.1	149.64	-371.5	191.7	467.1	440.6	26.44	17.667		
5,800.0	5,742.8	5,869.2	5,773.6	16.9	19.3	149.95	-376.2	198.3	473.6	446.9	26.74	17.710		
5,900.0	5,841.6	5,962.9	5,867.1	17.2	19.5	150.43	-379.2	203.7	481.3	454.4	26.98	17.843		
6,000.0	5,940.4	6,055.7	5,959.8	17.5	19.6	151.04	-381.1	207.8	490.4	463.2	27.17	18.047		
6,100.0	6,039.2	6,152.1	6,056.1	17.9	19.7	151.57	-383.6	211.0	500.6	473.2	27.39	18.275		
6,200.0	6,138.0	6,240.9	6,144.8	18.2	19.9	152.08	-385.6	212.9	512.1	484.5	27.61	18.549		
6,300.0	6,236.8	6,334.0	6,238.0	18.5	20.0	152.68	-386.8	213.4	525.2	497.4	27.78	18.909		
6,400.0	6,335.6	6,433.4	6,337.4	18.8	20.1	153.44	-386.8	213.4	539.0	511.1	27.91	19.310		
6,500.0	6,434.4	6,530.9	6,434.9	19.2	20.1	154.15	-386.8	213.4	552.8	524.7	28.05	19.704		
6,600.0	6,533.4	6,631.0	6,535.0	19.4	20.2	-152.77	-386.6	213.4	566.3	538.3	28.03	20.208		
6,700.0	6,631.6	6,727.0	6,631.0	19.6	20.3	-121.42	-386.3	213.3	579.4	551.1	28.25	20.510		
6,800.0	6,727.0	6,822.0	6,726.0	19.7	20.4	-110.62	-385.8	213.1	592.6	563.9	28.66	20.673		
6,900.0	6,817.8	6,911.0	6,815.0	19.7	20.5	-106.99	-385.6	212.7	607.4	578.3	29.11	20.865		
7,000.0	6,902.2	6,996.5	6,900.4	19.7	20.6	-106.37	-385.5	212.2	625.8	596.3	29.46	21.243		
7,100.0	6,978.6	7,074.1	6,978.1	19.7	20.7	-106.81	-385.4	211.9	649.6	620.0	29.57	21.971		
7,200.0	7,045.6	7,142.2	7,046.1	19.7	20.7	-107.23	-385.3	211.7	680.8	651.4	29.44	23.128		
7,300.0	7,101.7	7,199.4	7,103.3	19.8	20.8	-106.90	-385.2	211.7	720.8	691.6	29.22	24.665		
7,400.0	7,145.9	7,244.9	7,148.8	20.0	20.8	-105.28	-385.1	211.7	769.9	740.7	29.16	26.399		
7,500.0	7,177.3	7,277.5	7,181.5	20.3	20.9	-101.89	-385.0	211.8	827.6	798.2	29.47	28.088		
7,600.0	7,195.4	7,296.5	7,200.5	20.7	20.9	-96.43	-385.0	211.8	892.8	862.7	30.13	29.634		
7,700.0	7,200.0	7,301.7	7,205.6	21.2	20.9	-90.39	-384.9	211.8	963.5	932.6	30.89	31.188		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 7915-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,100.0	7,200.0	7,168.0	7,168.0	37.5	12.5	-90.00	2,045.5	-54.8	981.2	934.4	46.78	20.976	
9,200.0	7,200.0	7,168.0	7,168.0	39.0	12.5	-90.00	2,045.5	-54.8	952.5	904.1	48.41	19.676	
9,300.0	7,200.0	7,168.0	7,168.0	40.5	12.5	-90.00	2,045.5	-54.8	933.7	883.7	50.06	18.654	
9,400.0	7,200.0	7,168.0	7,168.0	42.1	12.5	-90.00	2,045.5	-54.8	925.5	873.7	51.71	17.897	
9,427.0	7,200.0	7,168.0	7,168.0	42.5	12.5	-90.00	2,045.5	-54.8	925.1	872.9	52.16	17.735	CC, ES
9,500.0	7,200.0	7,168.0	7,168.0	43.6	12.5	-90.00	2,045.5	-54.8	927.9	874.6	53.37	17.386	
9,600.0	7,200.0	7,168.0	7,168.0	45.2	12.5	-90.00	2,045.5	-54.8	941.1	886.1	55.04	17.097	
9,700.0	7,200.0	7,168.0	7,168.0	46.8	12.5	-90.00	2,045.5	-54.8	964.5	907.8	56.72	17.004	SF
9,800.0	7,200.0	7,168.0	7,168.0	48.4	12.5	-90.00	2,045.5	-54.8	997.4	939.0	58.40	17.078	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Kiyota 4J-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 4J-35H-O367	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

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

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

