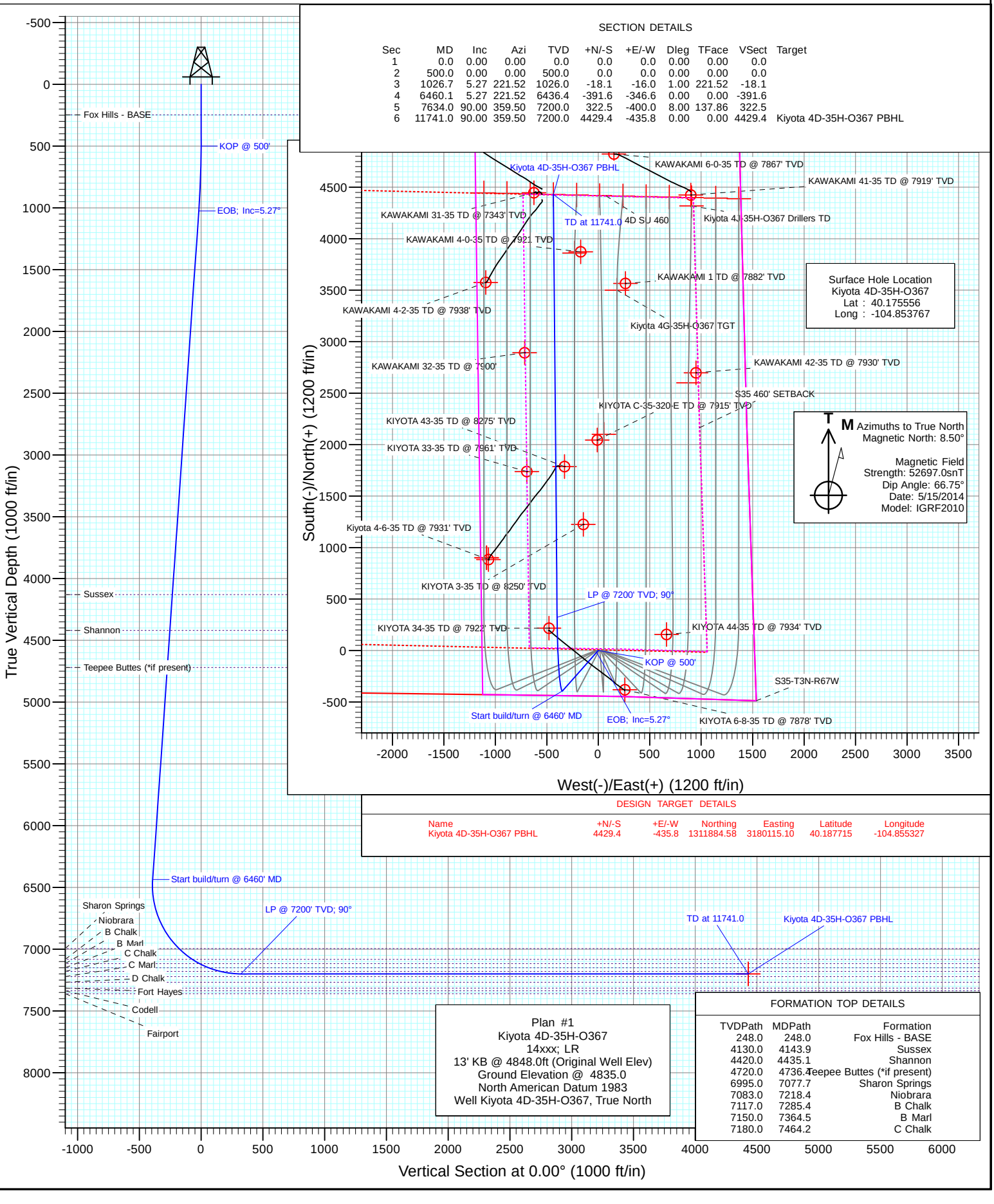
encana natural gas

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

CATHEDRAL

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1026.7	5.27	221.52	1026.0	-18.1	-16.0	1.00	221.52	-18.1	
4	6460.1	5.27	221.52	6436.4	-391.6	-346.6	0.00	0.00	-391.6	
5	7634.0	90.00	359.50	7200.0	322.5	-400.0	8.00	137.86	322.5	
6	11741.0	90.00	359.50	7200.0	4429.4	-435.8	0.00	0.00	4429.4	Kiyota 4D-35H-O367 PBHL



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Kiyota 4D-35H-O367 PBHL	4429.4	-435.8	1311884.58	3180115.10	40.187715	-104.855327

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

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
248.0	248.0	Fox Hills - BASE
4130.0	4143.9	Sussex
4420.0	4435.1	Shannon
4720.0	4736.4	Teepee Buttes (*if present)
6995.0	7077.7	Sharon Springs
7083.0	7218.4	Niobrara
7117.0	7285.4	B Chalk
7150.0	7364.5	B Marl
7180.0	7464.2	C Chalk

Planning Report

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

Project DJ Wattenberg

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

Site S35-T3N-R67W (Kiyota)

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

Well Kiyota 4D-35H-O367

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,307,458.52 ft	**Latitude:**	40.175556
	+E/-W	0.0 ft	**Easting:**	3,180,583.20 ft	**Longitude:**	-104.853767
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,835.0 ft

Wellbore Hz

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

Design Plan #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,026.7	5.27	221.52	1,026.0	-18.1	-16.0	1.00	1.00	0.00	221.52	
6,460.1	5.27	221.52	6,436.4	-391.6	-346.6	0.00	0.00	0.00	0.00	
7,634.0	90.00	359.50	7,200.0	322.5	-400.0	8.00	7.22	11.75	137.86	
11,741.0	90.00	359.50	7,200.0	4,429.4	-435.8	0.00	0.00	0.00	0.00	Kiyota 4D-35H-O367

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
248.0	0.00	0.00	248.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	221.52	600.0	-0.7	-0.6	-0.7	1.00	1.00	
700.0	2.00	221.52	700.0	-2.6	-2.3	-2.6	1.00	1.00	
800.0	3.00	221.52	799.9	-5.9	-5.2	-5.9	1.00	1.00	
900.0	4.00	221.52	899.7	-10.5	-9.3	-10.5	1.00	1.00	
1,000.0	5.00	221.52	999.4	-16.3	-14.5	-16.3	1.00	1.00	
1,026.7	5.27	221.52	1,026.0	-18.1	-16.0	-18.1	1.00	1.00	EOB; Inc=5.27°
1,100.0	5.27	221.52	1,099.0	-23.2	-20.5	-23.2	0.00	0.00	
1,200.0	5.27	221.52	1,198.5	-30.0	-26.6	-30.0	0.00	0.00	
1,300.0	5.27	221.52	1,298.1	-36.9	-32.7	-36.9	0.00	0.00	
1,400.0	5.27	221.52	1,397.7	-43.8	-38.7	-43.8	0.00	0.00	
1,500.0	5.27	221.52	1,497.3	-50.6	-44.8	-50.6	0.00	0.00	
1,600.0	5.27	221.52	1,596.8	-57.5	-50.9	-57.5	0.00	0.00	
1,700.0	5.27	221.52	1,696.4	-64.4	-57.0	-64.4	0.00	0.00	
1,800.0	5.27	221.52	1,796.0	-71.3	-63.1	-71.3	0.00	0.00	
1,900.0	5.27	221.52	1,895.6	-78.1	-69.2	-78.1	0.00	0.00	
2,000.0	5.27	221.52	1,995.2	-85.0	-75.3	-85.0	0.00	0.00	
2,100.0	5.27	221.52	2,094.7	-91.9	-81.3	-91.9	0.00	0.00	
2,200.0	5.27	221.52	2,194.3	-98.8	-87.4	-98.8	0.00	0.00	
2,300.0	5.27	221.52	2,293.9	-105.6	-93.5	-105.6	0.00	0.00	
2,400.0	5.27	221.52	2,393.5	-112.5	-99.6	-112.5	0.00	0.00	
2,500.0	5.27	221.52	2,493.0	-119.4	-105.7	-119.4	0.00	0.00	
2,600.0	5.27	221.52	2,592.6	-126.3	-111.8	-126.3	0.00	0.00	
2,700.0	5.27	221.52	2,692.2	-133.1	-117.9	-133.1	0.00	0.00	
2,800.0	5.27	221.52	2,791.8	-140.0	-123.9	-140.0	0.00	0.00	
2,900.0	5.27	221.52	2,891.4	-146.9	-130.0	-146.9	0.00	0.00	
3,000.0	5.27	221.52	2,990.9	-153.8	-136.1	-153.8	0.00	0.00	
3,100.0	5.27	221.52	3,090.5	-160.6	-142.2	-160.6	0.00	0.00	
3,200.0	5.27	221.52	3,190.1	-167.5	-148.3	-167.5	0.00	0.00	
3,300.0	5.27	221.52	3,289.7	-174.4	-154.4	-174.4	0.00	0.00	
3,400.0	5.27	221.52	3,389.2	-181.2	-160.4	-181.2	0.00	0.00	
3,500.0	5.27	221.52	3,488.8	-188.1	-166.5	-188.1	0.00	0.00	
3,600.0	5.27	221.52	3,588.4	-195.0	-172.6	-195.0	0.00	0.00	
3,700.0	5.27	221.52	3,688.0	-201.9	-178.7	-201.9	0.00	0.00	
3,800.0	5.27	221.52	3,787.6	-208.7	-184.8	-208.7	0.00	0.00	
3,900.0	5.27	221.52	3,887.1	-215.6	-190.9	-215.6	0.00	0.00	
4,000.0	5.27	221.52	3,986.7	-222.5	-197.0	-222.5	0.00	0.00	
4,100.0	5.27	221.52	4,086.3	-229.4	-203.0	-229.4	0.00	0.00	
4,143.9	5.27	221.52	4,130.0	-232.4	-205.7	-232.4	0.00	0.00	Sussex
4,200.0	5.27	221.52	4,185.9	-236.2	-209.1	-236.2	0.00	0.00	
4,300.0	5.27	221.52	4,285.4	-243.1	-215.2	-243.1	0.00	0.00	
4,400.0	5.27	221.52	4,385.0	-250.0	-221.3	-250.0	0.00	0.00	
4,435.1	5.27	221.52	4,420.0	-252.4	-223.4	-252.4	0.00	0.00	Shannon
4,500.0	5.27	221.52	4,484.6	-256.9	-227.4	-256.9	0.00	0.00	
4,600.0	5.27	221.52	4,584.2	-263.7	-233.5	-263.7	0.00	0.00	
4,700.0	5.27	221.52	4,683.8	-270.6	-239.5	-270.6	0.00	0.00	

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,736.4	5.27	221.52	4,720.0	-273.1	-241.8	-273.1	0.00	0.00	Teepee Buttes (*if present)
4,800.0	5.27	221.52	4,783.3	-277.5	-245.6	-277.5	0.00	0.00	
4,900.0	5.27	221.52	4,882.9	-284.4	-251.7	-284.4	0.00	0.00	
5,000.0	5.27	221.52	4,982.5	-291.2	-257.8	-291.2	0.00	0.00	
5,100.0	5.27	221.52	5,082.1	-298.1	-263.9	-298.1	0.00	0.00	
5,200.0	5.27	221.52	5,181.6	-305.0	-270.0	-305.0	0.00	0.00	
5,300.0	5.27	221.52	5,281.2	-311.9	-276.1	-311.9	0.00	0.00	
5,400.0	5.27	221.52	5,380.8	-318.7	-282.1	-318.7	0.00	0.00	
5,500.0	5.27	221.52	5,480.4	-325.6	-288.2	-325.6	0.00	0.00	
5,600.0	5.27	221.52	5,580.0	-332.5	-294.3	-332.5	0.00	0.00	
5,700.0	5.27	221.52	5,679.5	-339.3	-300.4	-339.3	0.00	0.00	
5,800.0	5.27	221.52	5,779.1	-346.2	-306.5	-346.2	0.00	0.00	
5,900.0	5.27	221.52	5,878.7	-353.1	-312.6	-353.1	0.00	0.00	
6,000.0	5.27	221.52	5,978.3	-360.0	-318.7	-360.0	0.00	0.00	
6,100.0	5.27	221.52	6,077.8	-366.8	-324.7	-366.8	0.00	0.00	
6,200.0	5.27	221.52	6,177.4	-373.7	-330.8	-373.7	0.00	0.00	
6,300.0	5.27	221.52	6,277.0	-380.6	-336.9	-380.6	0.00	0.00	
6,400.0	5.27	221.52	6,376.6	-387.5	-343.0	-387.5	0.00	0.00	
6,460.1	5.27	221.52	6,436.4	-391.6	-346.6	-391.6	0.00	0.00	Start build/turn @ 6460' MD
6,500.0	3.60	257.98	6,476.2	-393.2	-349.1	-393.2	8.00	-4.17	
6,600.0	8.09	333.76	6,575.8	-387.6	-355.3	-387.6	8.00	4.48	
6,700.0	15.67	346.80	6,673.6	-368.1	-361.5	-368.1	8.00	7.59	
6,800.0	23.53	351.35	6,767.7	-335.1	-367.6	-335.1	8.00	7.86	
6,900.0	31.46	353.71	6,856.4	-289.4	-373.5	-289.4	8.00	7.93	
7,000.0	39.41	355.19	6,937.8	-231.7	-379.0	-231.7	8.00	7.95	
7,077.7	45.60	356.04	6,995.0	-179.4	-383.0	-179.4	8.00	7.97	Sharon Springs
7,100.0	47.38	356.25	7,010.4	-163.2	-384.1	-163.2	7.99	7.97	
7,200.0	55.36	357.06	7,072.7	-85.3	-388.6	-85.3	8.00	7.97	
7,218.4	56.83	357.19	7,083.0	-70.1	-389.4	-70.1	8.01	7.98	Niobrara
7,285.4	62.17	357.63	7,117.0	-12.4	-392.0	-12.4	8.00	7.98	B Chalk
7,300.0	63.34	357.72	7,123.7	0.5	-392.5	0.5	7.99	7.97	
7,364.5	68.49	358.11	7,150.0	59.4	-394.6	59.4	8.00	7.98	B Marl
7,400.0	71.32	358.30	7,162.2	92.7	-395.7	92.7	8.00	7.98	
7,464.2	76.44	358.65	7,180.0	154.3	-397.3	154.3	8.00	7.99	C Chalk
7,500.0	79.30	358.83	7,187.5	189.3	-398.1	189.3	8.00	7.98	
7,600.0	87.29	359.33	7,199.2	288.5	-399.7	288.5	8.00	7.98	
7,634.0	90.00	359.50	7,200.0	322.5	-400.0	322.5	8.00	7.99	LP @ 7200' TVD; 90°
7,700.0	90.00	359.50	7,200.0	388.5	-400.6	388.5	0.00	0.00	
7,800.0	90.00	359.50	7,200.0	488.5	-401.4	488.5	0.00	0.00	
7,900.0	90.00	359.50	7,200.0	588.5	-402.3	588.5	0.00	0.00	
8,000.0	90.00	359.50	7,200.0	688.5	-403.2	688.5	0.00	0.00	
8,100.0	90.00	359.50	7,200.0	788.5	-404.1	788.5	0.00	0.00	
8,200.0	90.00	359.50	7,200.0	888.5	-404.9	888.5	0.00	0.00	
8,300.0	90.00	359.50	7,200.0	988.5	-405.8	988.5	0.00	0.00	
8,400.0	90.00	359.50	7,200.0	1,088.5	-406.7	1,088.5	0.00	0.00	
8,500.0	90.00	359.50	7,200.0	1,188.5	-407.6	1,188.5	0.00	0.00	
8,600.0	90.00	359.50	7,200.0	1,288.5	-408.4	1,288.5	0.00	0.00	
8,700.0	90.00	359.50	7,200.0	1,388.5	-409.3	1,388.5	0.00	0.00	
8,800.0	90.00	359.50	7,200.0	1,488.5	-410.2	1,488.5	0.00	0.00	
8,900.0	90.00	359.50	7,200.0	1,588.5	-411.0	1,588.5	0.00	0.00	
9,000.0	90.00	359.50	7,200.0	1,688.5	-411.9	1,688.5	0.00	0.00	
9,100.0	90.00	359.50	7,200.0	1,788.5	-412.8	1,788.5	0.00	0.00	

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	359.50	7,200.0	1,888.5	-413.7	1,888.5	0.00	0.00	
9,300.0	90.00	359.50	7,200.0	1,988.5	-414.5	1,988.5	0.00	0.00	
9,400.0	90.00	359.50	7,200.0	2,088.5	-415.4	2,088.5	0.00	0.00	
9,500.0	90.00	359.50	7,200.0	2,188.5	-416.3	2,188.5	0.00	0.00	
9,600.0	90.00	359.50	7,200.0	2,288.5	-417.2	2,288.5	0.00	0.00	
9,700.0	90.00	359.50	7,200.0	2,388.4	-418.0	2,388.4	0.00	0.00	
9,800.0	90.00	359.50	7,200.0	2,488.4	-418.9	2,488.4	0.00	0.00	
9,900.0	90.00	359.50	7,200.0	2,588.4	-419.8	2,588.4	0.00	0.00	
10,000.0	90.00	359.50	7,200.0	2,688.4	-420.6	2,688.4	0.00	0.00	
10,100.0	90.00	359.50	7,200.0	2,788.4	-421.5	2,788.4	0.00	0.00	
10,200.0	90.00	359.50	7,200.0	2,888.4	-422.4	2,888.4	0.00	0.00	
10,300.0	90.00	359.50	7,200.0	2,988.4	-423.3	2,988.4	0.00	0.00	
10,400.0	90.00	359.50	7,200.0	3,088.4	-424.1	3,088.4	0.00	0.00	
10,500.0	90.00	359.50	7,200.0	3,188.4	-425.0	3,188.4	0.00	0.00	
10,600.0	90.00	359.50	7,200.0	3,288.4	-425.9	3,288.4	0.00	0.00	
10,700.0	90.00	359.50	7,200.0	3,388.4	-426.8	3,388.4	0.00	0.00	
10,800.0	90.00	359.50	7,200.0	3,488.4	-427.6	3,488.4	0.00	0.00	
10,900.0	90.00	359.50	7,200.0	3,588.4	-428.5	3,588.4	0.00	0.00	
11,000.0	90.00	359.50	7,200.0	3,688.4	-429.4	3,688.4	0.00	0.00	
11,100.0	90.00	359.50	7,200.0	3,788.4	-430.2	3,788.4	0.00	0.00	
11,200.0	90.00	359.50	7,200.0	3,888.4	-431.1	3,888.4	0.00	0.00	
11,300.0	90.00	359.50	7,200.0	3,988.4	-432.0	3,988.4	0.00	0.00	
11,400.0	90.00	359.50	7,200.0	4,088.4	-432.9	4,088.4	0.00	0.00	
11,500.0	90.00	359.50	7,200.0	4,188.4	-433.7	4,188.4	0.00	0.00	
11,600.0	90.00	359.50	7,200.0	4,288.4	-434.6	4,288.4	0.00	0.00	
11,700.0	90.00	359.50	7,200.0	4,388.4	-435.5	4,388.4	0.00	0.00	
11,741.0	90.00	359.50	7,200.0	4,429.4	-435.8	4,429.4	0.00	0.00	TD at 11741.0 - Kiyota 4D-35H-O367 PBHL

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Kiyota 4D-35H-O367 PB - plan hits target center - Point	0.00	0.00	7,200.0	4,429.4	-435.8	1,311,884.58	3,180,115.10	40.187715	-104.855327

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

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
248.0	248.0	Fox Hills - BASE			
4,143.9	4,130.0	Sussex			
4,435.1	4,420.0	Shannon			
4,736.4	4,720.0	Teepee Buttes (*if present)			
7,077.7	6,995.0	Sharon Springs			
7,218.4	7,083.0	Niobrara			
7,285.4	7,117.0	B Chalk			
7,364.5	7,150.0	B Marl			
7,464.2	7,180.0	C Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
500.0	500.0	0.0	0.0	KOP @ 500'
1,026.7	1,026.0	-18.1	-16.0	EOB; Inc=5.27°
6,460.1	6,436.4	-391.6	-346.6	Start build/turn @ 6460' MD
7,634.0	7,200.0	322.5	-400.0	LP @ 7200' TVD; 90°
11,741.0	7,200.0	4,429.4	-435.8	TD at 11741.0

EnCana Oil & Gas (USA) Inc

DJ Wattenberg
S35-T3N-R67W (Kiyota)
Kiyota 4D-35H-O367
Hz
Plan #1

Anticollision Report

19 May, 2014

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

Reference	Plan #1

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

Survey Tool Program **Date** 5/19/2014

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,741.0	Plan #1 (Hz)	Geolink MWD	Geolink MWD

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

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S35-T3N-R67W (Kiyota)						
KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURV	10,870.8	7,172.0	692.3	614.4	8.886	CC, ES
KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURV	11,000.0	7,172.0	704.2	624.1	8.789	SF
KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURV	11,741.0	7,165.3	189.2	96.2	2.036	CC, ES, SF
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - NO S	10,205.9	7,164.0	293.1	226.6	4.408	CC, ES, SF
KAWAKAMI 4-0-35 (EXISTING) - ENCANA WELL - SUR	11,741.0	7,244.4	838.5	743.8	8.853	CC, ES, SF
KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - NO S						Out of range
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO S						Out of range
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR	10,894.1	7,258.6	660.0	575.4	7.798	CC
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR	10,900.0	7,258.5	660.0	575.3	7.789	ES
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR	11,000.0	7,257.9	668.5	582.0	7.731	SF
KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SUR	11,741.0	7,257.5	715.6	621.0	7.562	CC, ES, SF
KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURV	9,052.4	7,187.0	282.0	234.8	5.976	CC, ES
KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURV	9,100.0	7,187.0	286.0	238.0	5.962	SF
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,534.0	7,176.0	262.3	223.4	6.741	CC, ES, SF
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	7,528.9	7,178.3	80.1	53.7	3.038	CC, ES, SF
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV	9,097.3	7,179.0	85.0	37.1	1.775	CC
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV	9,100.0	7,179.0	85.1	37.1	1.774	ES, SF
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	500.0	475.0	681.2	679.5	405.662	CC, ES
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	4,700.0	4,658.7	998.3	981.7	59.860	SF
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY	8,196.3	7,316.6	658.2	616.6	15.823	CC
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY	8,200.0	7,316.6	658.2	616.5	15.803	ES
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY	8,400.0	7,316.5	689.0	644.4	15.458	SF
Kiyota 4A-35H-O367 - Hz - Plan #1	200.0	200.0	22.6	22.0	34.675	CC, ES
Kiyota 4A-35H-O367 - Hz - Plan #1	11,741.0	11,802.9	675.8	514.9	4.199	SF
Kiyota 4B-35H-O367 - Hz - Plan #1	300.0	300.0	15.1	14.1	15.062	CC, ES
Kiyota 4B-35H-O367 - Hz - Plan #1	11,741.0	11,924.5	475.0	321.9	3.102	SF
Kiyota 4C-35H-O367 - Hz - Plan #1	400.0	400.0	7.5	6.2	5.585	CC, ES
Kiyota 4C-35H-O367 - Hz - Plan #1	11,741.0	11,687.6	235.8	81.8	1.531	SF
Kiyota 4E-35H-O367 - Hz - Plan #1	500.0	500.0	7.5	5.8	4.438	CC, ES
Kiyota 4E-35H-O367 - Hz - Plan #1	11,741.0	11,882.7	270.6	135.3	2.000	SF
Kiyota 4F-35H-O367 - Hz - Plan #1	500.0	500.0	15.1	13.4	8.876	CC, ES
Kiyota 4F-35H-O367 - Hz - Plan #1	11,741.0	11,664.3	455.9	297.1	2.872	SF
Kiyota 4G-35H-O367 - Hz - Plan #1	500.0	500.0	22.4	20.7	13.150	CC, ES
Kiyota 4G-35H-O367 - Hz - Plan #1	11,741.0	11,593.4	674.4	514.7	4.222	SF
Kiyota 4H-35H-O367 - Hz - Plan #1	500.0	500.0	29.9	28.2	17.589	CC, ES
Kiyota 4H-35H-O367 - Hz - Plan #1	11,741.0	11,892.7	913.4	755.0	5.767	SF
Kiyota 4I-35H-O367 - Hz - Plan #1	500.0	500.0	37.4	35.7	22.027	CC, ES
Kiyota 4I-35H-O367 - Hz - Plan #1	700.0	698.8	42.6	40.2	17.772	SF
Kiyota 4J-35H-O367 - Hz - Plan #1	400.0	400.0	45.0	43.6	33.304	CC, ES
Kiyota 4J-35H-O367 - Hz - Plan #1	700.0	697.6	54.1	51.7	22.558	SF
Kiyota 4K-35H-O367 - Hz - Plan #1	300.0	300.0	52.5	51.5	52.439	CC, ES
Kiyota 4K-35H-O367 - Hz - Plan #1	800.0	794.3	77.5	74.8	28.171	SF
Kiyota 4L-35H-O367 - Hz - Plan #1	200.0	200.0	60.1	59.4	92.040	CC, ES
Kiyota 4L-35H-O367 - Hz - Plan #1	800.0	791.6	94.5	91.7	34.353	SF
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	3,256.2	3,302.8	84.9	69.4	5.498	CC, ES
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	3,300.0	3,345.3	85.5	69.7	5.411	SF
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,353.1	7,168.0	405.2	353.1	7.776	CC, ES
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,400.0	7,168.0	407.9	355.0	7.713	SF

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

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 1 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 7882-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,200.0	7,200.0	7,172.0	7,172.0	54.3	12.5	90.00	3,565.3	264.0	964.0	897.6	66.41	14.516	
10,300.0	7,200.0	7,172.0	7,172.0	56.0	12.5	90.00	3,565.3	264.0	897.3	829.2	68.12	13.173	
10,400.0	7,200.0	7,172.0	7,172.0	57.7	12.5	90.00	3,565.3	264.0	837.2	767.4	69.82	11.990	
10,500.0	7,200.0	7,172.0	7,172.0	59.4	12.5	90.00	3,565.3	264.0	785.4	713.8	71.54	10.978	
10,600.0	7,200.0	7,172.0	7,172.0	61.1	12.5	90.00	3,565.3	264.0	743.4	670.1	73.25	10.148	
10,700.0	7,200.0	7,172.0	7,172.0	62.8	12.5	90.00	3,565.3	264.0	713.1	638.1	74.97	9.511	
10,800.0	7,200.0	7,172.0	7,172.0	64.5	12.5	90.00	3,565.3	264.0	695.9	619.2	76.69	9.075	
10,870.8	7,200.0	7,172.0	7,172.0	65.8	12.5	90.00	3,565.3	264.0	692.3	614.4	77.91	8.886	CC, ES
10,900.0	7,200.0	7,172.0	7,172.0	66.3	12.5	90.00	3,565.3	264.0	692.9	614.5	78.41	8.837	
11,000.0	7,200.0	7,172.0	7,172.0	68.0	12.5	90.00	3,565.3	264.0	704.2	624.1	80.13	8.789	SF
11,100.0	7,200.0	7,172.0	7,172.0	69.7	12.5	90.00	3,565.3	264.0	729.2	647.4	81.85	8.909	
11,200.0	7,200.0	7,172.0	7,172.0	71.4	12.5	90.00	3,565.3	264.0	766.6	683.0	83.58	9.172	
11,300.0	7,200.0	7,172.0	7,172.0	73.1	12.5	90.00	3,565.3	264.0	814.5	729.2	85.31	9.548	
11,400.0	7,200.0	7,172.0	7,172.0	74.8	12.5	90.00	3,565.3	264.0	871.4	784.3	87.04	10.012	
11,500.0	7,200.0	7,172.0	7,172.0	76.6	12.5	90.00	3,565.3	264.0	935.5	846.7	88.76	10.539	

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

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 100-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,800.0	7,200.0	7,173.1	7,171.8	64.5	12.6	-91.77	4,446.7	-624.3	978.3	901.6	76.65	12.762	
10,900.0	7,200.0	7,172.3	7,171.1	66.3	12.6	-91.54	4,446.7	-624.3	880.3	802.0	78.38	11.232	
11,000.0	7,200.0	7,171.5	7,170.3	68.0	12.6	-91.30	4,446.7	-624.2	782.9	702.8	80.11	9.773	
11,100.0	7,200.0	7,170.7	7,169.5	69.7	12.6	-91.06	4,446.7	-624.2	686.3	604.5	81.84	8.386	
11,200.0	7,200.0	7,169.9	7,168.7	71.4	12.6	-90.82	4,446.7	-624.2	590.8	507.2	83.57	7.069	
11,300.0	7,200.0	7,169.1	7,167.9	73.1	12.6	-90.57	4,446.7	-624.2	497.0	411.7	85.30	5.827	
11,400.0	7,200.0	7,168.3	7,167.0	74.8	12.6	-90.32	4,446.7	-624.2	406.2	319.2	87.03	4.668	
11,500.0	7,200.0	7,167.4	7,166.2	76.6	12.6	-90.06	4,446.7	-624.2	321.0	232.2	88.76	3.616	
11,600.0	7,200.0	7,166.6	7,165.3	78.3	12.6	-89.79	4,446.7	-624.2	247.0	156.5	90.49	2.730	
11,700.0	7,200.0	7,165.7	7,164.4	80.0	12.6	-89.53	4,446.7	-624.2	197.5	105.3	92.22	2.142	
11,741.0	7,200.0	7,165.3	7,164.1	80.7	12.6	-89.42	4,446.7	-624.2	189.2	96.2	92.93	2.036	CC, ES, SF

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

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 7900-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,300.0	7,200.0	7,164.0	7,164.0	39.3	12.5	-90.00	2,891.7	-715.5	952.1	900.9	51.22	18.587	
9,400.0	7,200.0	7,164.0	7,164.0	41.0	12.5	-90.00	2,891.7	-715.5	857.5	804.6	52.89	16.214	
9,500.0	7,200.0	7,164.0	7,164.0	42.6	12.5	-90.00	2,891.7	-715.5	764.3	709.7	54.56	14.009	
9,600.0	7,200.0	7,164.0	7,164.0	44.3	12.5	-90.00	2,891.7	-715.5	673.0	616.8	56.23	11.969	
9,700.0	7,200.0	7,164.0	7,164.0	45.9	12.5	-90.00	2,891.7	-715.5	584.6	526.7	57.91	10.095	
9,800.0	7,200.0	7,164.0	7,164.0	47.6	12.5	-90.00	2,891.7	-715.5	500.6	441.0	59.60	8.400	
9,900.0	7,200.0	7,164.0	7,164.0	49.3	12.5	-90.00	2,891.7	-715.5	423.6	362.3	61.29	6.911	
10,000.0	7,200.0	7,164.0	7,164.0	51.0	12.5	-90.00	2,891.7	-715.5	358.2	295.2	62.99	5.686	
10,100.0	7,200.0	7,164.0	7,164.0	52.7	12.5	-90.00	2,891.7	-715.5	311.6	247.0	64.69	4.817	
10,200.0	7,200.0	7,164.0	7,164.0	54.3	12.5	-90.00	2,891.7	-715.5	293.2	226.8	66.39	4.416	
10,205.9	7,200.0	7,164.0	7,164.0	54.4	12.5	-90.00	2,891.7	-715.5	293.1	226.6	66.49	4.408	CC, ES, SF
10,300.0	7,200.0	7,164.0	7,164.0	56.0	12.5	-90.00	2,891.7	-715.5	307.9	239.8	68.10	4.521	
10,400.0	7,200.0	7,164.0	7,164.0	57.7	12.5	-90.00	2,891.7	-715.5	351.6	281.8	69.81	5.036	
10,500.0	7,200.0	7,164.0	7,164.0	59.4	12.5	-90.00	2,891.7	-715.5	415.3	343.7	71.52	5.806	
10,600.0	7,200.0	7,164.0	7,164.0	61.1	12.5	-90.00	2,891.7	-715.5	491.2	418.0	73.24	6.707	
10,700.0	7,200.0	7,164.0	7,164.0	62.8	12.5	-90.00	2,891.7	-715.5	574.5	499.6	74.95	7.665	
10,800.0	7,200.0	7,164.0	7,164.0	64.5	12.5	-90.00	2,891.7	-715.5	662.5	585.8	76.67	8.641	
10,900.0	7,200.0	7,164.0	7,164.0	66.3	12.5	-90.00	2,891.7	-715.5	753.5	675.1	78.39	9.612	
11,000.0	7,200.0	7,164.0	7,164.0	68.0	12.5	-90.00	2,891.7	-715.5	846.5	766.4	80.12	10.566	
11,100.0	7,200.0	7,164.0	7,164.0	69.7	12.5	-90.00	2,891.7	-715.5	941.0	859.1	81.84	11.497	

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

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 4-0-35 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 109-Geolink MWD

Offset Well Error: 0.0 ft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,500.0	7,200.0	7,244.7	7,176.1	76.6	17.9	-89.59	4,858.2	-1,156.3	985.3	894.8	90.54	10.883	
11,600.0	7,200.0	7,244.6	7,176.0	78.3	17.9	-89.57	4,858.2	-1,156.3	919.6	827.3	92.27	9.966	
11,700.0	7,200.0	7,244.4	7,175.8	80.0	17.9	-89.56	4,858.2	-1,156.3	860.5	766.5	94.00	9.154	
11,741.0	7,200.0	7,244.4	7,175.8	80.7	17.9	-89.56	4,858.2	-1,156.3	838.5	743.8	94.71	8.853	CC, ES, SF

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

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 868-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,200.0	7,200.0	7,263.1	7,178.9	54.3	21.2	-89.78	3,576.7	-1,088.4	957.8	885.0	72.75	13.165	
10,300.0	7,200.0	7,262.4	7,178.2	56.0	21.2	-89.72	3,576.7	-1,088.4	888.0	813.5	74.46	11.926	
10,400.0	7,200.0	7,261.7	7,177.5	57.7	21.2	-89.66	3,576.7	-1,088.4	824.4	748.3	76.17	10.824	
10,500.0	7,200.0	7,261.1	7,176.9	59.4	21.2	-89.61	3,576.7	-1,088.4	768.7	690.8	77.88	9.871	
10,600.0	7,200.0	7,260.4	7,176.2	61.1	21.2	-89.55	3,576.7	-1,088.4	722.6	643.0	79.59	9.078	
10,700.0	7,200.0	7,259.8	7,175.6	62.8	21.2	-89.50	3,576.7	-1,088.4	687.9	606.6	81.31	8.461	
10,800.0	7,200.0	7,259.1	7,175.0	64.5	21.2	-89.44	3,576.7	-1,088.4	666.7	583.7	83.02	8.030	
10,894.1	7,200.0	7,258.6	7,174.4	66.2	21.2	-89.39	3,576.7	-1,088.4	660.0	575.4	84.64	7.798	CC
10,900.0	7,200.0	7,258.5	7,174.3	66.3	21.2	-89.39	3,576.7	-1,088.4	660.0	575.3	84.74	7.789	ES
11,000.0	7,200.0	7,257.9	7,173.7	68.0	21.2	-89.33	3,576.7	-1,088.4	668.5	582.0	86.47	7.731	SF
11,100.0	7,200.0	7,257.3	7,173.1	69.7	21.2	-89.28	3,576.7	-1,088.4	691.4	603.2	88.19	7.840	
11,200.0	7,200.0	7,256.7	7,172.5	71.4	21.2	-89.23	3,576.7	-1,088.4	727.5	637.6	89.91	8.091	
11,300.0	7,200.0	7,256.1	7,171.9	73.1	21.2	-89.18	3,576.7	-1,088.4	774.9	683.2	91.64	8.456	
11,400.0	7,200.0	7,255.5	7,171.4	74.8	21.2	-89.13	3,576.7	-1,088.4	831.6	738.2	93.36	8.907	
11,500.0	7,200.0	7,255.0	7,170.8	76.6	21.2	-89.08	3,576.7	-1,088.4	896.0	800.9	95.09	9.422	
11,600.0	7,200.0	7,254.4	7,170.2	78.3	21.2	-89.03	3,576.7	-1,088.4	966.4	869.6	96.82	9.981	

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

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 528-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,400.0	7,200.0	7,257.9	7,192.5	74.8	19.3	91.06	4,821.2	162.9	944.5	855.8	88.74	10.644	
11,500.0	7,200.0	7,257.8	7,192.4	76.6	19.3	91.05	4,821.2	162.9	869.8	779.3	90.46	9.615	
11,600.0	7,200.0	7,257.6	7,192.3	78.3	19.3	91.04	4,821.2	162.9	800.6	708.4	92.19	8.684	
11,700.0	7,200.0	7,257.5	7,192.2	80.0	19.3	91.03	4,821.2	162.9	738.6	644.6	93.93	7.863	
11,741.0	7,200.0	7,257.5	7,192.1	80.7	19.3	91.02	4,821.2	162.9	715.6	621.0	94.64	7.562	CC, ES, SF

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 7961-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,100.0	7,200.0	7,187.0	7,187.0	21.2	12.5	-90.00	1,738.4	-694.3	993.3	960.7	32.58	30.491	
8,200.0	7,200.0	7,187.0	7,187.0	22.5	12.5	-90.00	1,738.4	-694.3	897.8	863.9	33.97	26.433	
8,300.0	7,200.0	7,187.0	7,187.0	23.9	12.5	-90.00	1,738.4	-694.3	803.5	768.1	35.41	22.693	
8,400.0	7,200.0	7,187.0	7,187.0	25.3	12.5	-90.00	1,738.4	-694.3	710.7	673.8	36.89	19.267	
8,500.0	7,200.0	7,187.0	7,187.0	26.8	12.5	-90.00	1,738.4	-694.3	620.2	581.8	38.40	16.149	
8,600.0	7,200.0	7,187.0	7,187.0	28.3	12.5	-90.00	1,738.4	-694.3	533.1	493.1	39.95	13.344	
8,700.0	7,200.0	7,187.0	7,187.0	29.8	12.5	-90.00	1,738.4	-694.3	451.3	409.8	41.52	10.871	
8,800.0	7,200.0	7,187.0	7,187.0	31.4	12.5	-90.00	1,738.4	-694.3	378.4	335.3	43.11	8.779	
8,900.0	7,200.0	7,187.0	7,187.0	32.9	12.5	-90.00	1,738.4	-694.3	320.5	275.8	44.71	7.169	
9,000.0	7,200.0	7,187.0	7,187.0	34.5	12.5	-90.00	1,738.4	-694.3	286.8	240.5	46.33	6.190	
9,052.4	7,200.0	7,187.0	7,187.0	35.3	12.5	-90.00	1,738.4	-694.3	282.0	234.8	47.19	5.976	CC, ES
9,100.0	7,200.0	7,187.0	7,187.0	36.1	12.5	-90.00	1,738.4	-694.3	286.0	238.0	47.97	5.962	SF
9,200.0	7,200.0	7,187.0	7,187.0	37.7	12.5	-90.00	1,738.4	-694.3	318.3	268.7	49.61	6.416	
9,300.0	7,200.0	7,187.0	7,187.0	39.3	12.5	-90.00	1,738.4	-694.3	375.3	324.0	51.26	7.320	
9,400.0	7,200.0	7,187.0	7,187.0	41.0	12.5	-90.00	1,738.4	-694.3	447.6	394.7	52.93	8.457	
9,500.0	7,200.0	7,187.0	7,187.0	42.6	12.5	-90.00	1,738.4	-694.3	529.0	474.4	54.60	9.690	
9,600.0	7,200.0	7,187.0	7,187.0	44.3	12.5	-90.00	1,738.4	-694.3	615.9	559.7	56.27	10.946	
9,700.0	7,200.0	7,187.0	7,187.0	45.9	12.5	-90.00	1,738.4	-694.3	706.3	648.4	57.95	12.188	
9,800.0	7,200.0	7,187.0	7,187.0	47.6	12.5	-90.00	1,738.4	-694.3	799.0	739.4	59.64	13.397	
9,900.0	7,200.0	7,187.0	7,187.0	49.3	12.5	-90.00	1,738.4	-694.3	893.3	831.9	61.33	14.564	
10,000.0	7,200.0	7,187.0	7,187.0	51.0	12.5	-90.00	1,738.4	-694.3	988.7	925.6	63.03	15.686	

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 8250-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
7,600.0	7,199.2	7,175.2	7,175.2	15.9	12.5	80.53	1,224.7	-145.6	970.1	943.5	26.57	36.510	
7,700.0	7,200.0	7,176.0	7,176.0	16.8	12.5	90.00	1,224.7	-145.6	874.2	846.5	27.76	31.489	
7,800.0	7,200.0	7,176.0	7,176.0	17.7	12.5	90.00	1,224.7	-145.6	779.4	750.6	28.81	27.053	
7,900.0	7,200.0	7,176.0	7,176.0	18.8	12.5	90.00	1,224.7	-145.6	686.1	656.1	29.97	22.890	
8,000.0	7,200.0	7,176.0	7,176.0	20.0	12.5	90.00	1,224.7	-145.6	594.9	563.7	31.23	19.051	
8,100.0	7,200.0	7,176.0	7,176.0	21.2	12.5	90.00	1,224.7	-145.6	507.1	474.5	32.56	15.575	
8,200.0	7,200.0	7,176.0	7,176.0	22.5	12.5	90.00	1,224.7	-145.6	424.7	390.7	33.95	12.509	
8,300.0	7,200.0	7,176.0	7,176.0	23.9	12.5	90.00	1,224.7	-145.6	351.5	316.1	35.39	9.932	
8,400.0	7,200.0	7,176.0	7,176.0	25.3	12.5	90.00	1,224.7	-145.6	294.5	257.7	36.87	7.988	
8,500.0	7,200.0	7,176.0	7,176.0	26.8	12.5	90.00	1,224.7	-145.6	264.5	226.1	38.39	6.890	
8,534.0	7,200.0	7,176.0	7,176.0	27.3	12.5	90.00	1,224.7	-145.6	262.3	223.4	38.91	6.741	CC, ES, SF
8,600.0	7,200.0	7,176.0	7,176.0	28.3	12.5	90.00	1,224.7	-145.6	270.5	230.5	39.93	6.773	
8,700.0	7,200.0	7,176.0	7,176.0	29.8	12.5	90.00	1,224.7	-145.6	310.4	268.9	41.50	7.480	
8,800.0	7,200.0	7,176.0	7,176.0	31.4	12.5	90.00	1,224.7	-145.6	373.6	330.5	43.09	8.670	
8,900.0	7,200.0	7,176.0	7,176.0	32.9	12.5	90.00	1,224.7	-145.6	450.3	405.6	44.69	10.075	
9,000.0	7,200.0	7,176.0	7,176.0	34.5	12.5	90.00	1,224.7	-145.6	534.8	488.4	46.31	11.547	
9,100.0	7,200.0	7,176.0	7,176.0	36.1	12.5	90.00	1,224.7	-145.6	623.8	575.9	47.95	13.011	
9,200.0	7,200.0	7,176.0	7,176.0	37.7	12.5	90.00	1,224.7	-145.6	715.8	666.2	49.59	14.434	
9,300.0	7,200.0	7,176.0	7,176.0	39.3	12.5	90.00	1,224.7	-145.6	809.7	758.4	51.24	15.800	
9,400.0	7,200.0	7,176.0	7,176.0	41.0	12.5	90.00	1,224.7	-145.6	904.9	852.0	52.91	17.103	

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 7922-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-65.67	216.4	-478.7	525.5				
100.0	100.0	86.0	86.0	0.2	0.2	-65.67	216.4	-478.7	525.3	525.0	0.30	1,738.735	
200.0	200.0	186.0	186.0	0.3	0.3	-65.67	216.4	-478.7	525.3	524.7	0.65	806.700	
300.0	300.0	286.0	286.0	0.5	0.5	-65.67	216.4	-478.7	525.3	524.3	1.00	525.181	
400.0	400.0	386.0	386.0	0.7	0.7	-65.67	216.4	-478.7	525.3	524.0	1.35	389.318	
500.0	500.0	486.0	486.0	0.8	0.8	-65.67	216.4	-478.7	525.3	523.6	1.70	309.302	
600.0	600.0	586.0	586.0	1.0	1.0	72.91	216.4	-478.7	525.1	523.0	2.05	256.396	
700.0	700.0	685.9	685.9	1.2	1.2	73.19	216.4	-478.7	524.3	521.9	2.40	218.496	
800.0	799.9	785.9	785.9	1.4	1.4	73.66	216.4	-478.7	523.0	520.3	2.76	189.763	
900.0	899.7	885.7	885.7	1.6	1.5	74.31	216.4	-478.7	521.4	518.2	3.12	167.032	
1,000.0	999.4	985.4	985.4	1.8	1.7	75.17	216.4	-478.7	519.3	515.8	3.50	148.458	
1,100.0	1,098.9	1,084.9	1,084.9	2.0	1.9	76.14	216.4	-478.7	517.0	513.1	3.88	133.151	
1,200.0	1,198.5	1,184.5	1,184.5	2.2	2.1	77.13	216.4	-478.7	514.9	510.6	4.27	120.489	
1,300.0	1,298.1	1,284.1	1,284.1	2.4	2.2	78.13	216.4	-478.7	512.9	508.2	4.67	109.885	
1,400.0	1,397.7	1,383.7	1,383.7	2.7	2.4	79.13	216.4	-478.7	511.1	506.0	5.07	100.901	
1,500.0	1,497.3	1,483.3	1,483.3	2.9	2.6	80.14	216.4	-478.7	509.4	504.0	5.47	93.212	
1,600.0	1,596.8	1,582.8	1,582.8	3.1	2.8	81.16	216.4	-478.7	507.9	502.1	5.87	86.569	
1,700.0	1,696.4	1,682.4	1,682.4	3.3	2.9	82.18	216.4	-478.7	506.6	500.3	6.27	80.783	
1,800.0	1,796.0	1,782.0	1,782.0	3.6	3.1	83.21	216.4	-478.7	505.4	498.8	6.68	75.707	
1,900.0	1,895.6	1,881.6	1,881.6	3.8	3.3	84.24	216.4	-478.7	504.4	497.3	7.08	71.224	
2,000.0	1,995.1	1,981.1	1,981.1	4.0	3.5	85.27	216.4	-478.7	503.6	496.1	7.49	67.243	
2,100.0	2,094.7	2,080.7	2,080.7	4.3	3.6	86.31	216.4	-478.7	502.9	495.0	7.90	63.689	
2,200.0	2,194.3	2,180.3	2,180.3	4.5	3.8	87.35	216.4	-478.7	502.4	494.1	8.30	60.500	
2,300.0	2,293.9	2,279.9	2,279.9	4.7	4.0	88.39	216.4	-478.7	502.1	493.3	8.71	57.628	
2,400.0	2,393.5	2,379.4	2,379.4	5.0	4.2	89.43	216.4	-478.7	501.9	492.8	9.12	55.032	
2,454.1	2,447.4	2,433.4	2,433.4	5.1	4.2	90.00	216.4	-478.7	501.9	492.5	9.34	53.728	
2,500.0	2,493.0	2,479.0	2,479.0	5.2	4.3	90.48	216.4	-478.7	501.9	492.3	9.53	52.676	
2,600.0	2,592.6	2,578.6	2,578.6	5.4	4.5	91.52	216.4	-478.7	502.0	492.1	9.93	50.532	
2,700.0	2,692.2	2,678.2	2,678.2	5.7	4.7	92.56	216.4	-478.7	502.4	492.0	10.34	48.575	
2,800.0	2,791.8	2,777.8	2,777.8	5.9	4.8	93.60	216.4	-478.7	502.9	492.1	10.75	46.784	
2,900.0	2,891.3	2,877.3	2,877.3	6.1	5.0	94.64	216.4	-478.7	503.5	492.4	11.15	45.141	
3,000.0	2,990.9	2,976.9	2,976.9	6.4	5.2	95.68	216.4	-478.7	504.3	492.8	11.56	43.631	
3,100.0	3,090.5	3,076.5	3,076.5	6.6	5.4	96.71	216.4	-478.7	505.3	493.4	11.96	42.241	
3,200.0	3,190.1	3,176.1	3,176.1	6.8	5.5	97.74	216.4	-478.7	506.5	494.1	12.37	40.957	
3,300.0	3,289.7	3,275.6	3,275.6	7.1	5.7	98.76	216.4	-478.7	507.8	495.1	12.77	39.772	
3,400.0	3,389.2	3,375.2	3,375.2	7.3	5.9	99.78	216.4	-478.7	509.3	496.1	13.17	38.674	
3,500.0	3,488.8	3,474.8	3,474.8	7.6	6.1	100.79	216.4	-478.7	511.0	497.4	13.57	37.656	
3,600.0	3,588.4	3,574.4	3,574.4	7.8	6.2	101.79	216.4	-478.7	512.8	498.8	13.97	36.712	
3,700.0	3,688.0	3,674.0	3,674.0	8.0	6.4	102.79	216.4	-478.7	514.7	500.4	14.36	35.834	
3,800.0	3,787.5	3,773.5	3,773.5	8.3	6.6	103.77	216.4	-478.7	516.8	502.1	14.76	35.018	
3,900.0	3,887.1	3,873.1	3,873.1	8.5	6.8	104.75	216.4	-478.7	519.1	504.0	15.15	34.258	
4,000.0	3,986.7	3,972.7	3,972.7	8.7	6.9	105.73	216.4	-478.7	521.5	506.0	15.55	33.549	
4,100.0	4,086.3	4,072.3	4,072.3	9.0	7.1	106.69	216.4	-478.7	524.1	508.2	15.94	32.888	
4,200.0	4,185.9	4,171.8	4,171.8	9.2	7.3	107.64	216.4	-478.7	526.8	510.5	16.33	32.271	
4,300.0	4,285.4	4,271.4	4,271.4	9.4	7.5	108.58	216.4	-478.7	529.7	513.0	16.71	31.694	
4,400.0	4,385.0	4,371.0	4,371.0	9.7	7.6	109.52	216.4	-478.7	532.7	515.6	17.10	31.155	
4,500.0	4,484.6	4,470.6	4,470.6	9.9	7.8	110.44	216.4	-478.7	535.8	518.4	17.48	30.651	
4,600.0	4,584.2	4,570.2	4,570.2	10.1	8.0	111.35	216.4	-478.7	539.1	521.3	17.86	30.179	
4,700.0	4,683.7	4,669.7	4,669.7	10.4	8.2	112.25	216.4	-478.7	542.6	524.3	18.25	29.736	
4,800.0	4,783.3	4,769.3	4,769.3	10.6	8.3	113.14	216.4	-478.7	546.1	527.5	18.62	29.322	
4,900.0	4,882.9	4,868.9	4,868.9	10.9	8.5	114.01	216.4	-478.7	549.8	530.8	19.00	28.934	
5,000.0	4,982.5	4,968.5	4,968.5	11.1	8.7	114.88	216.4	-478.7	553.6	534.2	19.38	28.569	

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

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 7922-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,082.1	5,068.0	5,068.0	11.3	8.8	115.73	216.4	-478.7	557.5	537.8	19.75	28.228	
5,200.0	5,181.6	5,167.6	5,167.6	11.6	9.0	116.57	216.4	-478.7	561.6	541.5	20.12	27.907	
5,300.0	5,281.2	5,267.2	5,267.2	11.8	9.2	117.40	216.4	-478.7	565.8	545.3	20.50	27.606	
5,400.0	5,380.8	5,366.8	5,366.8	12.0	9.4	118.22	216.4	-478.7	570.1	549.2	20.86	27.323	
5,500.0	5,480.4	5,466.4	5,466.4	12.3	9.5	119.02	216.4	-478.7	574.5	553.3	21.23	27.057	
5,600.0	5,579.9	5,565.9	5,565.9	12.5	9.7	119.81	216.4	-478.7	579.0	557.4	21.60	26.808	
5,700.0	5,679.5	5,665.5	5,665.5	12.7	9.9	120.59	216.4	-478.7	583.6	561.7	21.96	26.573	
5,800.0	5,779.1	5,765.1	5,765.1	13.0	10.1	121.36	216.4	-478.7	588.4	566.1	22.33	26.353	
5,900.0	5,878.7	5,864.7	5,864.7	13.2	10.2	122.12	216.4	-478.7	593.2	570.5	22.69	26.145	
6,000.0	5,978.3	5,964.2	5,964.2	13.5	10.4	122.86	216.4	-478.7	598.2	575.1	23.05	25.951	
6,100.0	6,077.8	6,063.8	6,063.8	13.7	10.6	123.59	216.4	-478.7	603.2	579.8	23.41	25.767	
6,200.0	6,177.4	6,163.4	6,163.4	13.9	10.8	124.31	216.4	-478.7	608.4	584.6	23.77	25.595	
6,300.0	6,277.0	6,263.0	6,263.0	14.2	10.9	125.01	216.4	-478.7	613.6	589.5	24.13	25.433	
6,400.0	6,376.6	6,362.6	6,362.6	14.4	11.1	125.71	216.4	-478.7	618.9	594.4	24.48	25.281	
6,500.0	6,476.2	6,462.2	6,462.2	14.6	11.3	90.02	216.4	-478.7	623.3	598.4	24.83	25.099	
6,600.0	6,575.8	6,561.8	6,561.8	14.7	11.5	14.83	216.4	-478.7	616.4	591.5	24.94	24.714	
6,700.0	6,673.6	6,659.6	6,659.6	14.7	11.6	1.94	216.4	-478.7	596.1	571.4	24.73	24.108	
6,800.0	6,767.7	6,753.7	6,753.7	14.7	11.8	-2.99	216.4	-478.7	562.6	538.4	24.19	23.256	
6,900.0	6,856.3	6,842.3	6,842.3	14.5	11.9	-6.40	216.4	-478.7	516.6	493.2	23.37	22.103	
7,000.0	6,937.8	6,923.7	6,923.7	14.4	12.1	-9.97	216.4	-478.7	459.1	436.7	22.34	20.550	
7,100.0	7,010.4	6,996.3	6,996.3	14.3	12.2	-14.93	216.4	-478.7	391.3	370.0	21.24	18.419	
7,200.0	7,072.7	7,058.7	7,058.7	14.3	12.3	-23.18	216.4	-478.7	314.9	294.4	20.48	15.378	
7,300.0	7,123.7	7,109.7	7,109.7	14.5	12.4	-38.26	216.4	-478.7	232.4	211.3	21.10	11.016	
7,400.0	7,162.2	7,148.2	7,148.2	14.8	12.5	-63.00	216.4	-478.7	149.0	125.0	24.02	6.204	
7,500.0	7,187.5	7,173.5	7,173.5	15.3	12.5	-86.18	216.4	-478.7	85.0	58.9	26.10	3.258	
7,528.9	7,192.3	7,178.3	7,178.3	15.4	12.5	-90.00	216.4	-478.7	80.1	53.7	26.35	3.038	CC, ES, SF
7,600.0	7,199.2	7,185.2	7,185.2	15.9	12.5	-92.42	216.4	-478.7	107.0	80.1	26.85	3.984	
7,700.0	7,200.0	7,186.0	7,186.0	16.8	12.5	-90.00	216.4	-478.7	189.0	161.2	27.78	6.803	
7,800.0	7,200.0	7,186.0	7,186.0	17.7	12.5	-90.00	216.4	-478.7	282.8	254.0	28.83	9.811	
7,900.0	7,200.0	7,186.0	7,186.0	18.8	12.5	-90.00	216.4	-478.7	379.8	349.8	29.99	12.665	
8,000.0	7,200.0	7,186.0	7,186.0	20.0	12.5	-90.00	216.4	-478.7	478.1	446.8	31.24	15.301	
8,100.0	7,200.0	7,186.0	7,186.0	21.2	12.5	-90.00	216.4	-478.7	576.9	544.4	32.57	17.711	
8,200.0	7,200.0	7,186.0	7,186.0	22.5	12.5	-90.00	216.4	-478.7	676.1	642.1	33.96	19.906	
8,300.0	7,200.0	7,186.0	7,186.0	23.9	12.5	-90.00	216.4	-478.7	775.5	740.1	35.41	21.904	
8,400.0	7,200.0	7,186.0	7,186.0	25.3	12.5	-90.00	216.4	-478.7	875.0	838.1	36.89	23.722	
8,500.0	7,200.0	7,186.0	7,186.0	26.8	12.5	-90.00	216.4	-478.7	974.7	936.3	38.40	25.380	

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 8275-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,200.0	7,200.0	7,179.0	7,179.0	22.5	12.5	90.00	1,786.5	-327.8	901.3	867.3	33.95	26.546	
8,300.0	7,200.0	7,179.0	7,179.0	23.9	12.5	90.00	1,786.5	-327.8	801.8	766.4	35.39	22.654	
8,400.0	7,200.0	7,179.0	7,179.0	25.3	12.5	90.00	1,786.5	-327.8	702.4	665.6	36.88	19.049	
8,500.0	7,200.0	7,179.0	7,179.0	26.8	12.5	90.00	1,786.5	-327.8	603.3	564.9	38.39	15.714	
8,600.0	7,200.0	7,179.0	7,179.0	28.3	12.5	90.00	1,786.5	-327.8	504.5	464.6	39.94	12.633	
8,700.0	7,200.0	7,179.0	7,179.0	29.8	12.5	90.00	1,786.5	-327.8	406.3	364.8	41.50	9.789	
8,800.0	7,200.0	7,179.0	7,179.0	31.4	12.5	90.00	1,786.5	-327.8	309.2	266.1	43.09	7.175	
8,900.0	7,200.0	7,179.0	7,179.0	32.9	12.5	90.00	1,786.5	-327.8	214.8	170.1	44.70	4.806	
9,000.0	7,200.0	7,179.0	7,179.0	34.5	12.5	90.00	1,786.5	-327.8	129.2	82.9	46.32	2.789	
9,097.3	7,200.0	7,179.0	7,179.0	36.1	12.5	90.00	1,786.5	-327.8	85.0	37.1	47.91	1.775	CC
9,100.0	7,200.0	7,179.0	7,179.0	36.1	12.5	90.00	1,786.5	-327.8	85.1	37.1	47.95	1.774	ES, SF
9,200.0	7,200.0	7,179.0	7,179.0	37.7	12.5	90.00	1,786.5	-327.8	133.3	83.8	49.60	2.689	
9,300.0	7,200.0	7,179.0	7,179.0	39.3	12.5	90.00	1,786.5	-327.8	219.8	168.6	51.25	4.289	
9,400.0	7,200.0	7,179.0	7,179.0	41.0	12.5	90.00	1,786.5	-327.8	314.4	261.5	52.91	5.943	
9,500.0	7,200.0	7,179.0	7,179.0	42.6	12.5	90.00	1,786.5	-327.8	411.6	357.0	54.58	7.541	
9,600.0	7,200.0	7,179.0	7,179.0	44.3	12.5	90.00	1,786.5	-327.8	509.9	453.6	56.26	9.063	
9,700.0	7,200.0	7,179.0	7,179.0	45.9	12.5	90.00	1,786.5	-327.8	608.7	550.8	57.94	10.506	
9,800.0	7,200.0	7,179.0	7,179.0	47.6	12.5	90.00	1,786.5	-327.8	707.9	648.2	59.63	11.871	
9,900.0	7,200.0	7,179.0	7,179.0	49.3	12.5	90.00	1,786.5	-327.8	807.2	745.9	61.32	13.164	
10,000.0	7,200.0	7,179.0	7,179.0	51.0	12.5	90.00	1,786.5	-327.8	906.7	843.7	63.02	14.389	

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURVEYS — **Offset Site Error:** 0.0 ft

Survey Program: 7934-Geolink MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	76.77	155.9	663.1	681.6				
100.0	100.0	75.0	75.0	0.2	0.1	76.77	155.9	663.1	681.2	680.9	0.28	2,407.639	
200.0	200.0	175.0	175.0	0.3	0.3	76.77	155.9	663.1	681.2	680.5	0.63	1,077.838	
300.0	300.0	275.0	275.0	0.5	0.5	76.77	155.9	663.1	681.2	680.2	0.98	694.337	
400.0	400.0	375.0	375.0	0.7	0.7	76.77	155.9	663.1	681.2	679.9	1.33	512.122	
500.0	500.0	475.0	475.0	0.8	0.8	76.77	155.9	663.1	681.2	679.5	1.68	405.662	CC, ES
600.0	600.0	575.0	575.0	1.0	1.0	-144.79	155.9	663.1	681.9	679.9	2.03	336.198	
700.0	700.0	674.9	674.9	1.2	1.2	-144.90	155.9	663.1	684.0	681.7	2.38	287.674	
800.0	799.9	774.9	774.9	1.4	1.4	-145.09	155.9	663.1	687.6	684.9	2.73	251.992	
900.0	899.7	874.7	874.7	1.6	1.5	-145.35	155.9	663.1	692.6	689.5	3.08	224.747	
1,000.0	999.4	974.4	974.4	1.8	1.7	-145.68	155.9	663.1	699.1	695.7	3.44	203.349	
1,100.0	1,098.9	1,073.9	1,073.9	2.0	1.9	-146.08	155.9	663.1	706.7	702.9	3.80	186.088	
1,200.0	1,198.5	1,173.5	1,173.5	2.2	2.0	-146.50	155.9	663.1	714.3	710.1	4.16	171.765	
1,300.0	1,298.1	1,273.1	1,273.1	2.4	2.2	-146.90	155.9	663.1	722.0	717.5	4.52	159.715	
1,400.0	1,397.7	1,372.7	1,372.7	2.7	2.4	-147.29	155.9	663.1	729.7	724.8	4.88	149.448	
1,500.0	1,497.3	1,472.3	1,472.3	2.9	2.6	-147.68	155.9	663.1	737.5	732.2	5.24	140.602	
1,600.0	1,596.8	1,571.8	1,571.8	3.1	2.7	-148.05	155.9	663.1	745.2	739.6	5.61	132.907	
1,700.0	1,696.4	1,671.4	1,671.4	3.3	2.9	-148.42	155.9	663.1	753.0	747.1	5.97	126.153	
1,800.0	1,796.0	1,771.0	1,771.0	3.6	3.1	-148.78	155.9	663.1	760.9	754.6	6.33	120.182	
1,900.0	1,895.6	1,870.6	1,870.6	3.8	3.3	-149.14	155.9	663.1	768.8	762.1	6.69	114.865	
2,000.0	1,995.1	1,970.1	1,970.1	4.0	3.4	-149.48	155.9	663.1	776.7	769.6	7.05	110.102	
2,100.0	2,094.7	2,069.7	2,069.7	4.3	3.6	-149.82	155.9	663.1	784.6	777.2	7.42	105.813	
2,200.0	2,194.3	2,169.3	2,169.3	4.5	3.8	-150.16	155.9	663.1	792.6	784.8	7.78	101.929	
2,300.0	2,293.9	2,268.9	2,268.9	4.7	4.0	-150.48	155.9	663.1	800.5	792.4	8.14	98.398	
2,400.0	2,393.5	2,368.4	2,368.4	5.0	4.1	-150.80	155.9	663.1	808.6	800.1	8.50	95.174	
2,500.0	2,493.0	2,468.0	2,468.0	5.2	4.3	-151.12	155.9	663.1	816.6	807.7	8.85	92.218	
2,600.0	2,592.6	2,567.6	2,567.6	5.4	4.5	-151.43	155.9	663.1	824.6	815.4	9.21	89.499	
2,700.0	2,692.2	2,667.2	2,667.2	5.7	4.7	-151.73	155.9	663.1	832.7	823.2	9.57	86.990	
2,800.0	2,791.8	2,766.8	2,766.8	5.9	4.8	-152.02	155.9	663.1	840.8	830.9	9.93	84.668	
2,900.0	2,891.3	2,866.3	2,866.3	6.1	5.0	-152.31	155.9	663.1	849.0	838.7	10.29	82.512	
3,000.0	2,990.9	2,965.9	2,965.9	6.4	5.2	-152.60	155.9	663.1	857.1	846.5	10.65	80.506	
3,100.0	3,090.5	3,065.5	3,065.5	6.6	5.4	-152.88	155.9	663.1	865.3	854.3	11.00	78.635	
3,200.0	3,190.1	3,165.1	3,165.1	6.8	5.5	-153.15	155.9	663.1	873.5	862.1	11.36	76.886	
3,300.0	3,289.7	3,264.6	3,264.6	7.1	5.7	-153.42	155.9	663.1	881.7	869.9	11.72	75.247	
3,400.0	3,389.2	3,364.2	3,364.2	7.3	5.9	-153.69	155.9	663.1	889.9	877.8	12.07	73.708	
3,500.0	3,488.8	3,463.8	3,463.8	7.6	6.0	-153.95	155.9	663.1	898.1	885.7	12.43	72.261	
3,600.0	3,588.4	3,563.4	3,563.4	7.8	6.2	-154.20	155.9	663.1	906.4	893.6	12.78	70.898	
3,700.0	3,688.0	3,663.0	3,663.0	8.0	6.4	-154.45	155.9	663.1	914.7	901.5	13.14	69.611	
3,800.0	3,787.5	3,762.5	3,762.5	8.3	6.6	-154.70	155.9	663.1	923.0	909.5	13.49	68.395	
3,900.0	3,887.1	3,862.1	3,862.1	8.5	6.7	-154.94	155.9	663.1	931.3	917.4	13.85	67.243	
4,000.0	3,986.7	3,961.7	3,961.7	8.7	6.9	-155.17	155.9	663.1	939.6	925.4	14.20	66.152	
4,100.0	4,086.3	4,061.3	4,061.3	9.0	7.1	-155.41	155.9	663.1	948.0	933.4	14.56	65.116	
4,200.0	4,185.9	4,160.8	4,160.8	9.2	7.3	-155.64	155.9	663.1	956.3	941.4	14.91	64.131	
4,300.0	4,285.4	4,260.4	4,260.4	9.4	7.4	-155.86	155.9	663.1	964.7	949.4	15.27	63.194	
4,400.0	4,385.0	4,360.0	4,360.0	9.7	7.6	-156.08	155.9	663.1	973.1	957.5	15.62	62.301	
4,500.0	4,484.6	4,459.6	4,459.6	9.9	7.8	-156.30	155.9	663.1	981.5	965.5	15.97	61.450	
4,600.0	4,584.2	4,559.2	4,559.2	10.1	8.0	-156.51	155.9	663.1	989.9	973.6	16.33	60.637	
4,700.0	4,683.7	4,658.7	4,658.7	10.4	8.1	-156.72	155.9	663.1	998.3	981.7	16.68	59.860	SF

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 806-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
7,500.0	7,187.5	7,304.9	7,176.6	15.3	23.8	-78.08	879.0	-1,062.9	958.0	924.3	33.64	28.475	
7,600.0	7,199.2	7,316.2	7,187.8	15.9	23.8	-86.89	879.0	-1,063.0	888.1	853.6	34.55	25.702	
7,700.0	7,200.0	7,316.9	7,188.5	16.8	23.8	-89.35	879.0	-1,063.0	824.3	788.8	35.47	23.242	
7,800.0	7,200.0	7,316.9	7,188.5	17.7	23.8	-89.35	879.0	-1,063.0	768.2	731.7	36.51	21.040	
7,900.0	7,200.0	7,316.8	7,188.4	18.8	23.8	-89.34	879.0	-1,063.0	721.8	684.1	37.67	19.158	
8,000.0	7,200.0	7,316.7	7,188.4	20.0	23.8	-89.34	879.0	-1,063.0	686.8	647.9	38.93	17.643	
8,100.0	7,200.0	7,316.7	7,188.3	21.2	23.8	-89.33	879.0	-1,063.0	665.2	624.9	40.26	16.523	
8,196.3	7,200.0	7,316.6	7,188.3	22.5	23.8	-89.33	879.0	-1,063.0	658.2	616.6	41.60	15.823	CC
8,200.0	7,200.0	7,316.6	7,188.3	22.5	23.8	-89.33	879.0	-1,063.0	658.2	616.5	41.65	15.803	ES
8,300.0	7,200.0	7,316.6	7,188.2	23.9	23.8	-89.32	879.0	-1,063.0	666.3	623.2	43.09	15.463	
8,400.0	7,200.0	7,316.5	7,188.2	25.3	23.8	-89.32	879.0	-1,063.0	689.0	644.4	44.57	15.458	SF
8,500.0	7,200.0	7,316.5	7,188.1	26.8	23.8	-89.31	879.0	-1,063.0	724.9	678.8	46.09	15.729	
8,600.0	7,200.0	7,316.4	7,188.1	28.3	23.8	-89.31	879.0	-1,063.0	772.1	724.5	47.63	16.211	
8,700.0	7,200.0	7,316.4	7,188.0	29.8	23.8	-89.30	879.0	-1,063.0	828.8	779.6	49.20	16.846	
8,800.0	7,200.0	7,316.3	7,188.0	31.4	23.8	-89.30	879.0	-1,063.0	893.1	842.3	50.79	17.586	
8,900.0	7,200.0	7,316.3	7,187.9	32.9	23.8	-89.30	879.0	-1,063.0	963.5	911.1	52.39	18.391	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4A-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-89.94	0.0	-22.6	22.6				
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-22.6	22.6	22.3	0.30	74.531	
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-22.6	22.6	22.0	0.65	34.675	CC, ES
300.0	300.0	299.6	299.6	0.5	0.5	-90.71	-0.3	-23.4	23.4	22.4	1.00	23.415	
400.0	400.0	399.2	399.1	0.7	0.7	-92.75	-1.2	-25.9	25.9	24.5	1.35	19.179	
500.0	500.0	498.6	498.5	0.8	0.9	-95.40	-2.8	-29.9	30.0	28.3	1.70	17.661	
600.0	600.0	597.9	597.6	1.0	1.1	41.29	-5.0	-35.5	35.3	33.2	2.05	17.215	
700.0	700.0	697.1	696.5	1.2	1.3	40.97	-7.9	-42.7	40.9	38.5	2.40	17.029	
800.0	799.9	796.2	795.2	1.4	1.5	41.60	-11.3	-51.5	46.8	44.1	2.76	16.996	
900.0	899.7	895.2	893.5	1.6	1.8	42.85	-15.4	-61.8	53.2	50.1	3.12	17.050	
1,000.0	999.4	994.0	991.5	1.8	2.0	44.49	-20.1	-73.7	59.9	56.4	3.49	17.150	
1,100.0	1,098.9	1,092.7	1,089.1	2.0	2.3	46.12	-25.4	-87.2	67.5	63.6	3.88	17.369	
1,200.0	1,198.5	1,191.1	1,186.2	2.2	2.6	47.01	-31.3	-102.2	76.6	72.3	4.28	17.895	
1,300.0	1,298.1	1,290.1	1,283.6	2.4	3.0	47.41	-37.7	-118.5	87.0	82.3	4.68	18.581	
1,400.0	1,397.7	1,389.6	1,381.5	2.7	3.3	47.71	-44.2	-134.9	97.5	92.4	5.09	19.158	
1,500.0	1,497.3	1,489.0	1,479.4	2.9	3.7	47.95	-50.6	-151.3	108.0	102.5	5.50	19.639	
1,600.0	1,596.8	1,588.5	1,577.2	3.1	4.0	48.15	-57.1	-167.8	118.5	112.6	5.91	20.046	
1,700.0	1,696.4	1,687.9	1,675.1	3.3	4.3	48.31	-63.6	-184.2	129.0	122.6	6.32	20.393	
1,800.0	1,796.0	1,787.4	1,773.0	3.6	4.7	48.45	-70.0	-200.6	139.5	132.7	6.74	20.694	
1,900.0	1,895.6	1,886.8	1,870.9	3.8	5.0	48.57	-76.5	-217.1	149.9	142.8	7.16	20.955	
2,000.0	1,995.1	1,986.3	1,968.7	4.0	5.4	48.68	-83.0	-233.5	160.4	152.9	7.57	21.185	
2,100.0	2,094.7	2,085.7	2,066.6	4.3	5.7	48.77	-89.5	-249.9	170.9	162.9	7.99	21.388	
2,200.0	2,194.3	2,185.2	2,164.5	4.5	6.1	48.85	-95.9	-266.3	181.4	173.0	8.41	21.569	
2,300.0	2,293.9	2,284.6	2,262.3	4.7	6.4	48.92	-102.4	-282.8	191.9	183.1	8.83	21.731	
2,400.0	2,393.5	2,384.1	2,360.2	5.0	6.8	48.99	-108.9	-299.2	202.4	193.1	9.25	21.877	
2,500.0	2,493.0	2,483.5	2,458.1	5.2	7.2	49.05	-115.3	-315.6	212.9	203.2	9.67	22.010	
2,600.0	2,592.6	2,583.0	2,555.9	5.4	7.5	49.10	-121.8	-332.1	223.4	213.3	10.09	22.130	
2,700.0	2,692.2	2,682.4	2,653.8	5.7	7.9	49.15	-128.3	-348.5	233.9	223.3	10.52	22.239	
2,800.0	2,791.8	2,781.9	2,751.7	5.9	8.2	49.19	-134.7	-364.9	244.4	233.4	10.94	22.340	
2,900.0	2,891.3	2,881.3	2,849.5	6.1	8.6	49.23	-141.2	-381.3	254.8	243.5	11.36	22.432	
3,000.0	2,990.9	2,980.8	2,947.4	6.4	8.9	49.27	-147.7	-397.8	265.3	253.6	11.78	22.518	
3,100.0	3,090.5	3,080.2	3,045.3	6.6	9.3	49.31	-154.1	-414.2	275.8	263.6	12.21	22.596	
3,200.0	3,190.1	3,179.7	3,143.1	6.8	9.6	49.34	-160.6	-430.6	286.3	273.7	12.63	22.670	
3,300.0	3,289.7	3,279.1	3,241.0	7.1	10.0	49.37	-167.1	-447.1	296.8	283.8	13.05	22.738	
3,400.0	3,389.2	3,378.5	3,338.9	7.3	10.4	49.40	-173.5	-463.5	307.3	293.8	13.48	22.801	
3,500.0	3,488.8	3,478.0	3,436.7	7.6	10.7	49.42	-180.0	-479.9	317.8	303.9	13.90	22.860	
3,600.0	3,588.4	3,577.4	3,534.6	7.8	11.1	49.45	-186.5	-496.4	328.3	314.0	14.33	22.916	
3,700.0	3,688.0	3,676.9	3,632.5	8.0	11.4	49.47	-192.9	-512.8	338.8	324.0	14.75	22.968	
3,800.0	3,787.5	3,776.3	3,730.3	8.3	11.8	49.49	-199.4	-529.2	349.3	334.1	15.17	23.017	
3,900.0	3,887.1	3,875.8	3,828.2	8.5	12.1	49.51	-205.9	-545.6	359.8	344.2	15.60	23.063	
4,000.0	3,986.7	3,975.2	3,926.1	8.7	12.5	49.53	-212.3	-562.1	370.3	354.2	16.02	23.107	
4,100.0	4,086.3	4,074.7	4,023.9	9.0	12.8	49.55	-218.8	-578.5	380.7	364.3	16.45	23.148	
4,200.0	4,185.9	4,174.1	4,121.8	9.2	13.2	49.56	-225.3	-594.9	391.2	374.4	16.87	23.187	
4,300.0	4,285.4	4,273.6	4,219.7	9.4	13.6	49.58	-231.8	-611.4	401.7	384.4	17.30	23.224	
4,400.0	4,385.0	4,373.0	4,317.6	9.7	13.9	49.60	-238.2	-627.8	412.2	394.5	17.72	23.259	
4,500.0	4,484.6	4,472.5	4,415.4	9.9	14.3	49.61	-244.7	-644.2	422.7	404.6	18.15	23.293	
4,600.0	4,584.2	4,571.9	4,513.3	10.1	14.6	49.62	-251.2	-660.6	433.2	414.6	18.57	23.324	
4,700.0	4,683.7	4,671.4	4,611.2	10.4	15.0	49.64	-257.6	-677.1	443.7	424.7	19.00	23.355	
4,800.0	4,783.3	4,770.8	4,709.0	10.6	15.3	49.65	-264.1	-693.5	454.2	434.8	19.42	23.383	
4,900.0	4,882.9	4,870.3	4,806.9	10.9	15.7	49.66	-270.6	-709.9	464.7	444.8	19.85	23.411	
5,000.0	4,982.5	4,969.7	4,904.8	11.1	16.1	49.67	-277.0	-726.4	475.2	454.9	20.27	23.437	
5,100.0	5,082.1	5,069.2	5,002.6	11.3	16.4	49.68	-283.5	-742.8	485.7	465.0	20.70	23.462	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4A-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,181.6	5,168.6	5,100.5	11.6	16.8	49.69	-290.0	-759.2	496.2	475.0	21.13	23.487	
5,300.0	5,281.2	5,268.1	5,198.4	11.8	17.1	49.70	-296.4	-775.7	506.7	485.1	21.55	23.510	
5,400.0	5,380.8	5,367.5	5,296.2	12.0	17.5	49.71	-302.9	-792.1	517.1	495.2	21.98	23.532	
5,500.0	5,480.4	5,467.0	5,394.1	12.3	17.8	49.72	-309.4	-808.5	527.6	505.2	22.40	23.553	
5,600.0	5,579.9	5,566.4	5,492.0	12.5	18.2	49.73	-315.8	-824.9	538.1	515.3	22.83	23.574	
5,700.0	5,679.5	5,665.9	5,589.8	12.7	18.5	49.74	-322.3	-841.4	548.6	525.4	23.25	23.593	
5,800.0	5,779.1	5,765.3	5,687.7	13.0	18.9	49.75	-328.8	-857.8	559.1	535.4	23.68	23.612	
5,900.0	5,878.7	5,864.7	5,785.6	13.2	19.3	49.76	-335.2	-874.2	569.6	545.5	24.10	23.630	
6,000.0	5,978.3	5,964.2	5,883.4	13.5	19.6	49.76	-341.7	-890.7	580.1	555.6	24.53	23.648	
6,100.0	6,077.8	6,063.6	5,981.3	13.7	20.0	49.77	-348.2	-907.1	590.6	565.6	24.96	23.665	
6,200.0	6,177.4	6,163.1	6,079.2	13.9	20.3	49.78	-354.6	-923.5	601.1	575.7	25.38	23.681	
6,300.0	6,277.0	6,262.5	6,177.0	14.2	20.7	49.79	-361.1	-939.9	611.6	585.8	25.81	23.697	
6,400.0	6,376.6	6,362.0	6,274.9	14.4	21.0	49.79	-367.6	-956.4	622.1	595.8	26.23	23.712	
6,500.0	6,476.2	6,461.4	6,372.8	14.6	21.4	13.67	-374.1	-972.8	632.5	605.8	26.69	23.699	
6,600.0	6,575.8	6,559.8	6,469.6	14.7	21.7	-62.12	-380.1	-989.1	642.6	615.8	26.90	23.891	
6,700.0	6,673.6	6,658.1	6,566.4	14.7	22.0	-75.52	-376.7	-1,005.3	652.7	625.9	26.81	24.350	
6,800.0	6,767.7	6,758.7	6,664.0	14.7	22.2	-80.44	-359.4	-1,021.7	662.7	636.2	26.52	24.990	
6,900.0	6,856.3	6,861.7	6,760.5	14.5	22.4	-83.15	-327.4	-1,037.9	672.4	646.3	26.11	25.751	
7,000.0	6,937.8	6,967.4	6,853.8	14.4	22.5	-84.98	-280.4	-1,053.6	681.5	655.8	25.68	26.541	
7,100.0	7,010.4	7,075.8	6,941.3	14.3	22.6	-86.34	-218.4	-1,068.2	689.9	664.5	25.34	27.227	
7,200.0	7,072.7	7,186.8	7,020.3	14.3	22.7	-87.41	-141.6	-1,081.5	697.2	672.0	25.21	27.651	
7,300.0	7,123.7	7,300.4	7,088.0	14.5	22.9	-88.28	-51.3	-1,092.9	703.2	677.8	25.42	27.659	
7,400.0	7,162.2	7,416.2	7,141.7	14.8	23.1	-88.97	50.7	-1,101.9	707.8	681.7	26.07	27.149	
7,500.0	7,187.5	7,533.9	7,178.9	15.3	23.5	-89.51	162.0	-1,108.1	710.6	683.5	27.17	26.152	
7,600.0	7,199.2	7,652.8	7,197.8	15.9	24.0	-89.89	279.3	-1,111.3	711.7	683.0	28.71	24.791	
7,700.0	7,200.0	7,762.1	7,200.0	16.8	24.6	-90.00	388.5	-1,111.7	711.1	680.5	30.59	23.244	
7,800.0	7,200.0	7,862.1	7,200.0	17.7	25.3	-90.00	488.5	-1,111.7	710.2	677.5	32.69	21.724	
7,900.0	7,200.0	7,962.1	7,200.0	18.8	26.0	-90.00	588.5	-1,111.7	709.3	674.3	35.02	20.256	
8,000.0	7,200.0	8,062.0	7,200.0	20.0	26.9	-90.00	688.5	-1,111.7	708.5	670.9	37.53	18.879	
8,100.0	7,200.0	8,162.0	7,200.0	21.2	27.8	-90.00	788.5	-1,111.7	707.6	667.4	40.19	17.607	
8,200.0	7,200.0	8,262.0	7,200.0	22.5	28.8	-90.00	888.5	-1,111.7	706.7	663.8	42.97	16.447	
8,300.0	7,200.0	8,362.0	7,200.0	23.9	29.9	-90.00	988.5	-1,111.7	705.9	660.0	45.85	15.395	
8,400.0	7,200.0	8,462.0	7,200.0	25.3	31.0	-90.00	1,088.5	-1,111.7	705.0	656.2	48.81	14.442	
8,500.0	7,200.0	8,562.0	7,200.0	26.8	32.2	-90.00	1,188.5	-1,111.7	704.1	652.3	51.85	13.581	
8,600.0	7,200.0	8,662.0	7,200.0	28.3	33.5	-90.00	1,288.5	-1,111.7	703.2	648.3	54.94	12.801	
8,700.0	7,200.0	8,762.0	7,200.0	29.8	34.7	-90.00	1,388.5	-1,111.7	702.4	644.3	58.07	12.095	
8,800.0	7,200.0	8,862.0	7,200.0	31.4	36.1	-90.00	1,488.5	-1,111.7	701.5	640.2	61.25	11.453	
8,900.0	7,200.0	8,962.0	7,200.0	32.9	37.4	-90.00	1,588.5	-1,111.7	700.6	636.2	64.46	10.869	
9,000.0	7,200.0	9,062.0	7,200.0	34.5	38.8	-90.00	1,688.5	-1,111.7	699.7	632.0	67.70	10.336	
9,100.0	7,200.0	9,162.0	7,200.0	36.1	40.3	-90.00	1,788.5	-1,111.7	698.9	627.9	70.97	9.848	
9,200.0	7,200.0	9,262.0	7,200.0	37.7	41.7	-90.00	1,888.4	-1,111.7	698.0	623.7	74.25	9.400	
9,300.0	7,200.0	9,362.0	7,200.0	39.3	43.2	-90.00	1,988.4	-1,111.7	697.1	619.6	77.56	8.988	
9,400.0	7,200.0	9,462.0	7,200.0	41.0	44.7	-90.00	2,088.4	-1,111.7	696.3	615.4	80.89	8.608	
9,500.0	7,200.0	9,562.0	7,200.0	42.6	46.2	-90.00	2,188.4	-1,111.7	695.4	611.2	84.22	8.256	
9,600.0	7,200.0	9,662.0	7,200.0	44.3	47.7	-90.00	2,288.4	-1,111.7	694.5	606.9	87.58	7.930	
9,700.0	7,200.0	9,762.0	7,200.0	45.9	49.3	-90.00	2,388.4	-1,111.7	693.6	602.7	90.94	7.627	
9,800.0	7,200.0	9,862.0	7,200.0	47.6	50.8	-90.00	2,488.4	-1,111.7	692.8	598.5	94.32	7.345	
9,900.0	7,200.0	9,962.0	7,200.0	49.3	52.4	-90.00	2,588.4	-1,111.7	691.9	594.2	97.70	7.082	
10,000.0	7,200.0	10,062.0	7,200.0	51.0	54.0	-90.00	2,688.4	-1,111.7	691.0	589.9	101.09	6.836	
10,100.0	7,200.0	10,162.0	7,200.0	52.7	55.6	-90.00	2,788.4	-1,111.7	690.1	585.7	104.49	6.605	
10,200.0	7,200.0	10,262.0	7,200.0	54.3	57.2	-90.00	2,888.4	-1,111.7	689.3	581.4	107.90	6.388	
10,300.0	7,200.0	10,362.0	7,200.0	56.0	58.8	-90.00	2,988.4	-1,111.7	688.4	577.1	111.31	6.184	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4A-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,200.0	10,462.0	7,200.0	57.7	60.4	-90.00	3,088.4	-1,111.7	687.5	572.8	114.73	5.992	
10,500.0	7,200.0	10,562.0	7,200.0	59.4	62.0	-90.00	3,188.4	-1,111.7	686.7	568.5	118.16	5.811	
10,600.0	7,200.0	10,661.9	7,200.0	61.1	63.6	-90.00	3,288.4	-1,111.7	685.8	564.2	121.59	5.640	
10,700.0	7,200.0	10,761.9	7,200.0	62.8	65.3	-90.00	3,388.4	-1,111.7	684.9	559.9	125.02	5.478	
10,800.0	7,200.0	10,861.9	7,200.0	64.5	66.9	-90.00	3,488.4	-1,111.7	684.0	555.6	128.46	5.325	
10,900.0	7,200.0	10,961.9	7,200.0	66.3	68.6	-90.00	3,588.4	-1,111.7	683.2	551.3	131.90	5.180	
11,000.0	7,200.0	11,061.9	7,200.0	68.0	70.2	-90.00	3,688.4	-1,111.7	682.3	547.0	135.34	5.041	
11,100.0	7,200.0	11,161.9	7,200.0	69.7	71.9	-90.00	3,788.4	-1,111.7	681.4	542.6	138.79	4.910	
11,200.0	7,200.0	11,261.9	7,200.0	71.4	73.6	-90.00	3,888.4	-1,111.7	680.5	538.3	142.24	4.784	
11,300.0	7,200.0	11,361.9	7,200.0	73.1	75.2	-90.00	3,988.4	-1,111.7	679.7	534.0	145.69	4.665	
11,400.0	7,200.0	11,461.9	7,200.0	74.8	76.9	-90.00	4,088.4	-1,111.7	678.8	529.7	149.15	4.551	
11,500.0	7,200.0	11,561.9	7,200.0	76.6	78.6	-90.00	4,188.4	-1,111.7	677.9	525.3	152.61	4.442	
11,600.0	7,200.0	11,661.9	7,200.0	78.3	80.3	-90.00	4,288.4	-1,111.7	677.1	521.0	156.07	4.338	
11,700.0	7,200.0	11,761.9	7,200.0	80.0	81.9	-90.00	4,388.4	-1,111.7	676.2	516.7	159.53	4.239	
11,741.0	7,200.0	11,802.9	7,200.0	80.7	82.6	-90.00	4,429.4	-1,111.7	675.8	514.9	160.95	4.199	SF

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4B-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
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	CC, ES
400.0	400.0	399.7	399.7	0.7	0.7	-91.33	-0.4	-15.9	15.9	14.5	1.35	11.754	
500.0	500.0	499.4	499.4	0.8	0.9	-94.79	-1.5	-18.2	18.3	16.6	1.70	10.751	
600.0	600.0	599.0	598.9	1.0	1.0	41.04	-3.5	-22.1	21.7	19.7	2.05	10.593	
700.0	700.0	698.6	698.3	1.2	1.2	40.44	-6.1	-27.5	25.5	23.1	2.40	10.618	
800.0	799.9	798.1	797.4	1.4	1.4	41.11	-9.6	-34.5	29.6	26.8	2.76	10.737	
900.0	899.7	897.4	896.3	1.6	1.7	42.59	-13.8	-43.0	34.0	30.9	3.12	10.909	
1,000.0	999.4	996.7	995.0	1.8	1.9	44.54	-18.8	-53.0	38.9	35.4	3.50	11.108	
1,100.0	1,098.9	1,095.9	1,093.3	2.0	2.2	46.34	-24.5	-64.5	44.4	40.5	3.89	11.413	
1,200.0	1,198.5	1,195.4	1,191.8	2.2	2.5	47.13	-30.9	-77.3	51.2	46.9	4.29	11.940	
1,300.0	1,298.1	1,295.1	1,290.5	2.4	2.7	47.68	-37.3	-90.3	58.1	53.5	4.69	12.389	
1,400.0	1,397.7	1,394.9	1,389.2	2.7	3.0	48.11	-43.8	-103.3	65.1	60.0	5.10	12.758	
1,500.0	1,497.3	1,494.7	1,487.9	2.9	3.3	48.46	-50.2	-116.3	72.0	66.5	5.51	13.065	
1,600.0	1,596.8	1,594.4	1,586.6	3.1	3.6	48.74	-56.6	-129.2	79.0	73.0	5.93	13.324	
1,700.0	1,696.4	1,694.2	1,685.3	3.3	3.9	48.98	-63.1	-142.2	85.9	79.6	6.34	13.544	
1,800.0	1,796.0	1,793.9	1,784.0	3.6	4.2	49.19	-69.5	-155.2	92.9	86.1	6.76	13.734	
1,900.0	1,895.6	1,893.7	1,882.7	3.8	4.5	49.36	-75.9	-168.1	99.8	92.6	7.18	13.900	
2,000.0	1,995.1	1,993.4	1,981.4	4.0	4.8	49.52	-82.4	-181.1	106.8	99.2	7.60	14.045	
2,100.0	2,094.7	2,093.2	2,080.1	4.3	5.1	49.65	-88.8	-194.1	113.7	105.7	8.02	14.173	
2,200.0	2,194.3	2,193.0	2,178.8	4.5	5.4	49.77	-95.2	-207.0	120.7	112.2	8.45	14.287	
2,300.0	2,293.9	2,292.7	2,277.5	4.7	5.7	49.88	-101.7	-220.0	127.6	118.7	8.87	14.389	
2,400.0	2,393.5	2,392.5	2,376.2	5.0	6.1	49.97	-108.1	-233.0	134.6	125.3	9.29	14.480	
2,500.0	2,493.0	2,492.2	2,474.9	5.2	6.4	50.06	-114.5	-245.9	141.5	131.8	9.72	14.563	
2,600.0	2,592.6	2,592.0	2,573.6	5.4	6.7	50.14	-121.0	-258.9	148.5	138.3	10.14	14.638	
2,700.0	2,692.2	2,691.8	2,672.3	5.7	7.0	50.21	-127.4	-271.9	155.4	144.8	10.57	14.707	
2,800.0	2,791.8	2,791.5	2,771.0	5.9	7.3	50.27	-133.9	-284.8	162.4	151.4	10.99	14.769	
2,900.0	2,891.3	2,891.3	2,869.7	6.1	7.6	50.33	-140.3	-297.8	169.3	157.9	11.42	14.827	
3,000.0	2,990.9	2,991.0	2,968.4	6.4	7.9	50.38	-146.7	-310.8	176.3	164.4	11.85	14.880	
3,100.0	3,090.5	3,090.8	3,067.1	6.6	8.2	50.44	-153.2	-323.7	183.2	170.9	12.27	14.929	
3,200.0	3,190.1	3,190.5	3,165.8	6.8	8.5	50.48	-159.6	-336.7	190.2	177.5	12.70	14.975	
3,300.0	3,289.7	3,290.3	3,264.5	7.1	8.8	50.53	-166.0	-349.7	197.1	184.0	13.13	15.017	
3,400.0	3,389.2	3,390.1	3,363.2	7.3	9.1	50.57	-172.5	-362.7	204.1	190.5	13.55	15.056	
3,500.0	3,488.8	3,489.8	3,461.9	7.6	9.4	50.60	-178.9	-375.6	211.0	197.0	13.98	15.093	
3,600.0	3,588.4	3,589.6	3,560.6	7.8	9.7	50.64	-185.3	-388.6	218.0	203.6	14.41	15.127	
3,700.0	3,688.0	3,689.3	3,659.3	8.0	10.0	50.67	-191.8	-401.6	224.9	210.1	14.84	15.160	
3,800.0	3,787.5	3,789.1	3,758.0	8.3	10.3	50.70	-198.2	-414.5	231.9	216.6	15.26	15.190	
3,900.0	3,887.1	3,888.8	3,856.7	8.5	10.6	50.73	-204.6	-427.5	238.8	223.1	15.69	15.219	
4,000.0	3,986.7	3,988.6	3,955.4	8.7	11.0	50.76	-211.1	-440.5	245.8	229.7	16.12	15.246	
4,100.0	4,086.3	4,088.4	4,054.1	9.0	11.3	50.79	-217.5	-453.4	252.7	236.2	16.55	15.271	
4,200.0	4,185.9	4,188.1	4,152.8	9.2	11.6	50.81	-224.0	-466.4	259.7	242.7	16.98	15.295	
4,300.0	4,285.4	4,287.9	4,251.5	9.4	11.9	50.84	-230.4	-479.4	266.6	249.2	17.41	15.318	
4,400.0	4,385.0	4,387.6	4,350.2	9.7	12.2	50.86	-236.8	-492.3	273.6	255.7	17.84	15.340	
4,500.0	4,484.6	4,487.4	4,449.0	9.9	12.5	50.88	-243.3	-505.3	280.5	262.3	18.26	15.360	
4,600.0	4,584.2	4,587.2	4,547.7	10.1	12.8	50.90	-249.7	-518.3	287.5	268.8	18.69	15.380	
4,700.0	4,683.7	4,686.9	4,646.4	10.4	13.1	50.92	-256.1	-531.2	294.4	275.3	19.12	15.398	
4,800.0	4,783.3	4,786.7	4,745.1	10.6	13.4	50.94	-262.6	-544.2	301.4	281.8	19.55	15.416	
4,900.0	4,882.9	4,886.4	4,843.8	10.9	13.7	50.95	-269.0	-557.2	308.3	288.4	19.98	15.433	
5,000.0	4,982.5	4,986.2	4,942.5	11.1	14.0	50.97	-275.4	-570.2	315.3	294.9	20.41	15.449	
5,100.0	5,082.1	5,085.9	5,041.2	11.3	14.3	50.99	-281.9	-583.1	322.3	301.4	20.84	15.465	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4B-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,181.6	5,185.7	5,139.9	11.6	14.6	51.00	-288.3	-596.1	329.2	307.9	21.27	15.480	
5,300.0	5,281.2	5,285.5	5,238.6	11.8	15.0	51.02	-294.8	-609.1	336.2	314.5	21.70	15.494	
5,400.0	5,380.8	5,385.2	5,337.3	12.0	15.3	51.03	-301.2	-622.0	343.1	321.0	22.13	15.508	
5,500.0	5,480.4	5,485.0	5,436.0	12.3	15.6	51.05	-307.6	-635.0	350.1	327.5	22.55	15.521	
5,600.0	5,579.9	5,584.7	5,534.7	12.5	15.9	51.06	-314.1	-648.0	357.0	334.0	22.98	15.533	
5,700.0	5,679.5	5,684.5	5,633.4	12.7	16.2	51.07	-320.5	-660.9	364.0	340.6	23.41	15.545	
5,800.0	5,779.1	5,784.3	5,732.1	13.0	16.5	51.08	-326.9	-673.9	370.9	347.1	23.84	15.557	
5,900.0	5,878.7	5,884.0	5,830.8	13.2	16.8	51.09	-333.4	-686.9	377.9	353.6	24.27	15.568	
6,000.0	5,978.3	5,983.8	5,929.5	13.5	17.1	51.11	-339.8	-699.8	384.8	360.1	24.70	15.579	
6,100.0	6,077.8	6,083.5	6,028.2	13.7	17.4	51.12	-346.2	-712.8	391.8	366.6	25.13	15.589	
6,200.0	6,177.4	6,183.3	6,126.9	13.9	17.7	51.13	-352.7	-725.8	398.7	373.2	25.56	15.599	
6,300.0	6,277.0	6,283.0	6,225.6	14.2	18.0	51.14	-359.1	-738.7	405.7	379.7	25.99	15.609	
6,400.0	6,376.6	6,382.8	6,324.3	14.4	18.3	51.15	-365.5	-751.7	412.6	386.2	26.42	15.618	
6,500.0	6,476.2	6,482.5	6,423.0	14.6	18.7	14.86	-372.0	-764.7	419.5	392.7	26.84	15.630	
6,600.0	6,575.8	6,581.5	6,520.9	14.7	19.0	-61.82	-378.4	-777.5	425.9	399.0	26.91	15.826	
6,700.0	6,673.6	6,678.3	6,616.7	14.7	19.2	-77.35	-384.3	-790.1	432.7	406.1	26.59	16.276	
6,800.0	6,767.7	6,778.0	6,715.4	14.7	19.5	-84.81	-380.6	-803.1	441.0	414.9	26.07	16.914	
6,900.0	6,856.3	6,882.2	6,817.0	14.5	19.6	-89.96	-362.0	-816.5	450.6	425.1	25.54	17.643	
7,000.0	6,937.8	6,991.6	6,919.6	14.4	19.7	-94.06	-326.8	-829.9	461.2	436.1	25.09	18.386	
7,100.0	7,010.4	7,106.7	7,020.4	14.3	19.7	-97.50	-273.2	-843.2	472.2	447.4	24.79	19.049	
7,200.0	7,072.7	7,227.7	7,115.8	14.3	19.8	-100.42	-200.0	-855.7	482.9	458.2	24.73	19.529	
7,300.0	7,123.7	7,354.8	7,201.3	14.5	19.8	-102.85	-107.0	-867.0	492.7	467.7	24.96	19.740	
7,400.0	7,162.2	7,487.5	7,271.8	14.8	20.1	-104.78	4.9	-876.2	500.7	475.2	25.51	19.629	
7,500.0	7,187.5	7,624.9	7,322.0	15.3	20.5	-106.17	132.4	-882.8	506.3	479.8	26.46	19.131	
7,600.0	7,199.2	7,765.6	7,347.4	15.9	21.1	-106.98	270.5	-886.1	508.9	481.1	27.75	18.339	
7,700.0	7,200.0	7,883.7	7,350.0	16.8	21.8	-107.16	388.5	-886.5	508.5	479.0	29.49	17.247	
7,800.0	7,200.0	7,983.7	7,350.0	17.7	22.6	-107.18	488.5	-886.5	507.7	476.2	31.50	16.118	
7,900.0	7,200.0	8,083.7	7,350.0	18.8	23.4	-107.21	588.5	-886.5	506.9	473.1	33.72	15.030	
8,000.0	7,200.0	8,183.7	7,350.0	20.0	24.3	-107.24	688.5	-886.5	506.0	469.9	36.12	14.010	
8,100.0	7,200.0	8,283.7	7,350.0	21.2	25.4	-107.27	788.5	-886.5	505.2	466.5	38.66	13.068	
8,200.0	7,200.0	8,383.7	7,350.0	22.5	26.5	-107.30	888.5	-886.5	504.4	463.1	41.31	12.209	
8,300.0	7,200.0	8,483.7	7,350.0	23.9	27.7	-107.33	988.5	-886.5	503.5	459.5	44.06	11.429	
8,400.0	7,200.0	8,583.6	7,350.0	25.3	28.9	-107.36	1,088.5	-886.5	502.7	455.8	46.88	10.722	
8,500.0	7,200.0	8,683.6	7,350.0	26.8	30.2	-107.39	1,188.5	-886.5	501.9	452.1	49.77	10.084	
8,600.0	7,200.0	8,783.6	7,350.0	28.3	31.5	-107.42	1,288.5	-886.5	501.0	448.3	52.71	9.505	
8,700.0	7,200.0	8,883.6	7,350.0	29.8	32.9	-107.45	1,388.5	-886.5	500.2	444.5	55.70	8.981	
8,800.0	7,200.0	8,983.6	7,350.0	31.4	34.3	-107.48	1,488.5	-886.5	499.4	440.7	58.72	8.504	
8,900.0	7,200.0	9,083.6	7,350.0	32.9	35.7	-107.51	1,588.5	-886.5	498.5	436.8	61.77	8.070	
9,000.0	7,200.0	9,183.6	7,350.0	34.5	37.2	-107.54	1,688.5	-886.5	497.7	432.9	64.86	7.674	
9,100.0	7,200.0	9,283.6	7,350.0	36.1	38.7	-107.57	1,788.5	-886.5	496.9	428.9	67.96	7.311	
9,200.0	7,200.0	9,383.6	7,350.0	37.7	40.2	-107.60	1,888.4	-886.5	496.0	425.0	71.08	6.978	
9,300.0	7,200.0	9,483.6	7,350.0	39.3	41.7	-107.63	1,988.4	-886.5	495.2	421.0	74.23	6.672	
9,400.0	7,200.0	9,583.6	7,350.0	41.0	43.3	-107.66	2,088.4	-886.5	494.4	417.0	77.38	6.389	
9,500.0	7,200.0	9,683.6	7,350.0	42.6	44.8	-107.69	2,188.4	-886.5	493.5	413.0	80.55	6.127	
9,600.0	7,200.0	9,783.6	7,350.0	44.3	46.4	-107.72	2,288.4	-886.5	492.7	409.0	83.74	5.884	
9,700.0	7,200.0	9,883.6	7,350.0	45.9	48.0	-107.76	2,388.4	-886.5	491.9	405.0	86.93	5.659	
9,800.0	7,200.0	9,983.6	7,350.0	47.6	49.6	-107.79	2,488.4	-886.5	491.1	400.9	90.13	5.448	
9,900.0	7,200.0	10,083.6	7,350.0	49.3	51.2	-107.82	2,588.4	-886.5	490.2	396.9	93.34	5.252	
10,000.0	7,200.0	10,183.6	7,350.0	51.0	52.8	-107.85	2,688.4	-886.5	489.4	392.8	96.55	5.069	
10,100.0	7,200.0	10,283.6	7,350.0	52.7	54.4	-107.88	2,788.4	-886.5	488.6	388.8	99.77	4.897	
10,200.0	7,200.0	10,383.6	7,350.0	54.3	56.1	-107.91	2,888.4	-886.5	487.7	384.7	103.00	4.735	
10,300.0	7,200.0	10,483.6	7,350.0	56.0	57.7	-107.94	2,988.4	-886.5	486.9	380.7	106.23	4.583	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4B-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,200.0	10,583.6	7,350.0	57.7	59.4	-107.97	3,088.4	-886.5	486.1	376.6	109.47	4.440	
10,500.0	7,200.0	10,683.6	7,350.0	59.4	61.0	-108.01	3,188.4	-886.5	485.2	372.5	112.71	4.305	
10,600.0	7,200.0	10,783.6	7,350.0	61.1	62.7	-108.04	3,288.4	-886.5	484.4	368.5	115.95	4.178	
10,700.0	7,200.0	10,883.6	7,350.0	62.8	64.3	-108.07	3,388.4	-886.5	483.6	364.4	119.20	4.057	
10,800.0	7,200.0	10,983.6	7,350.0	64.5	66.0	-108.10	3,488.4	-886.5	482.8	360.3	122.44	3.943	
10,900.0	7,200.0	11,083.6	7,350.0	66.3	67.7	-108.13	3,588.4	-886.5	481.9	356.2	125.69	3.834	
11,000.0	7,200.0	11,183.5	7,350.0	68.0	69.4	-108.17	3,688.4	-886.5	481.1	352.1	128.95	3.731	
11,100.0	7,200.0	11,283.5	7,350.0	69.7	71.0	-108.20	3,788.4	-886.5	480.3	348.1	132.20	3.633	
11,200.0	7,200.0	11,383.5	7,350.0	71.4	72.7	-108.23	3,888.4	-886.5	479.4	344.0	135.46	3.539	
11,300.0	7,200.0	11,483.5	7,350.0	73.1	74.4	-108.26	3,988.4	-886.5	478.6	339.9	138.71	3.450	
11,400.0	7,200.0	11,583.5	7,350.0	74.8	76.1	-108.30	4,088.4	-886.5	477.8	335.8	141.97	3.365	
11,500.0	7,200.0	11,683.5	7,350.0	76.6	77.8	-108.33	4,188.4	-886.5	476.9	331.7	145.23	3.284	
11,600.0	7,200.0	11,783.5	7,350.0	78.3	79.5	-108.36	4,288.4	-886.5	476.1	327.6	148.49	3.206	
11,700.0	7,200.0	11,883.5	7,350.0	80.0	81.2	-108.40	4,388.4	-886.5	475.3	323.5	151.75	3.132	
11,741.0	7,200.0	11,924.5	7,350.0	80.7	81.9	-108.41	4,429.4	-886.5	475.0	321.9	153.09	3.102	SF

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4C-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
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	499.9	499.9	0.8	0.9	-93.31	-0.5	-8.3	8.3	6.6	1.70	4.872	
600.0	600.0	599.7	599.7	1.0	1.0	41.04	-1.9	-10.4	9.9	7.9	2.05	4.850	
700.0	700.0	699.5	699.4	1.2	1.2	39.93	-4.4	-14.0	11.9	9.5	2.40	4.942	
800.0	799.9	799.3	799.0	1.4	1.4	40.65	-7.8	-19.1	14.0	11.3	2.76	5.088	
900.0	899.7	899.0	898.4	1.6	1.6	42.45	-12.1	-25.6	16.4	13.3	3.12	5.265	
1,000.0	999.4	998.7	997.6	1.8	1.8	44.84	-17.5	-33.5	19.1	15.6	3.50	5.460	
1,100.0	1,098.9	1,098.4	1,096.6	2.0	2.1	46.65	-23.8	-42.8	22.4	18.5	3.90	5.754	
1,200.0	1,198.5	1,198.3	1,195.8	2.2	2.3	46.94	-30.6	-52.9	26.5	22.2	4.29	6.175	
1,300.0	1,298.1	1,298.2	1,294.9	2.4	2.6	47.15	-37.5	-63.1	30.6	25.9	4.70	6.518	
1,400.0	1,397.7	1,398.1	1,394.1	2.7	2.8	47.31	-44.3	-73.3	34.7	29.6	5.10	6.802	
1,500.0	1,497.3	1,498.0	1,493.3	2.9	3.1	47.44	-51.2	-83.4	38.8	33.3	5.51	7.041	
1,600.0	1,596.8	1,597.9	1,592.4	3.1	3.4	47.54	-58.0	-93.6	42.9	37.0	5.92	7.245	
1,700.0	1,696.4	1,697.8	1,691.6	3.3	3.6	47.62	-64.9	-103.7	47.0	40.7	6.33	7.420	
1,800.0	1,796.0	1,797.8	1,790.8	3.6	3.9	47.69	-71.7	-113.9	51.1	44.3	6.75	7.572	
1,900.0	1,895.6	1,897.7	1,889.9	3.8	4.2	47.75	-78.6	-124.1	55.2	48.0	7.16	7.705	
2,000.0	1,995.1	1,997.6	1,989.1	4.0	4.4	47.80	-85.4	-134.2	59.3	51.7	7.58	7.823	
2,100.0	2,094.7	2,097.5	2,088.2	4.3	4.7	47.85	-92.3	-144.4	63.4	55.4	8.00	7.927	
2,200.0	2,194.3	2,197.4	2,187.4	4.5	5.0	47.89	-99.1	-154.6	67.5	59.1	8.41	8.021	
2,300.0	2,293.9	2,297.3	2,286.6	4.7	5.3	47.92	-106.0	-164.7	71.6	62.7	8.83	8.105	
2,400.0	2,393.5	2,397.3	2,385.7	5.0	5.5	47.96	-112.8	-174.9	75.7	66.4	9.25	8.181	
2,500.0	2,493.0	2,497.2	2,484.9	5.2	5.8	47.98	-119.7	-185.0	79.8	70.1	9.67	8.250	
2,600.0	2,592.6	2,597.1	2,584.0	5.4	6.1	48.01	-126.5	-195.2	83.9	73.8	10.09	8.313	
2,700.0	2,692.2	2,697.0	2,683.2	5.7	6.4	48.03	-133.4	-205.4	88.0	77.5	10.51	8.371	
2,800.0	2,791.8	2,796.9	2,782.4	5.9	6.6	48.05	-140.2	-215.5	92.1	81.1	10.93	8.424	
2,900.0	2,891.3	2,896.8	2,881.5	6.1	6.9	48.07	-147.1	-225.7	96.2	84.8	11.35	8.473	
3,000.0	2,990.9	2,996.8	2,980.7	6.4	7.2	48.09	-153.9	-235.8	100.3	88.5	11.77	8.518	
3,100.0	3,090.5	3,096.7	3,079.9	6.6	7.5	48.11	-160.8	-246.0	104.4	92.2	12.19	8.560	
3,200.0	3,190.1	3,196.6	3,179.0	6.8	7.7	48.12	-167.7	-256.2	108.5	95.8	12.61	8.599	
3,300.0	3,289.7	3,296.5	3,278.2	7.1	8.0	48.14	-174.5	-266.3	112.6	99.5	13.03	8.635	
3,400.0	3,389.2	3,396.4	3,377.3	7.3	8.3	48.15	-181.4	-276.5	116.7	103.2	13.46	8.669	
3,500.0	3,488.8	3,496.3	3,476.5	7.6	8.5	48.16	-188.2	-286.6	120.7	106.9	13.88	8.701	
3,600.0	3,588.4	3,596.3	3,575.7	7.8	8.8	48.17	-195.1	-296.8	124.8	110.5	14.30	8.731	
3,700.0	3,688.0	3,696.2	3,674.8	8.0	9.1	48.18	-201.9	-307.0	128.9	114.2	14.72	8.759	
3,800.0	3,787.5	3,796.1	3,774.0	8.3	9.4	48.19	-208.8	-317.1	133.0	117.9	15.14	8.785	
3,900.0	3,887.1	3,896.0	3,873.1	8.5	9.7	48.20	-215.6	-327.3	137.1	121.6	15.57	8.810	
4,000.0	3,986.7	3,995.9	3,972.3	8.7	9.9	48.21	-222.5	-337.5	141.2	125.2	15.99	8.834	
4,100.0	4,086.3	4,095.8	4,071.5	9.0	10.2	48.22	-229.3	-347.6	145.3	128.9	16.41	8.856	
4,200.0	4,185.9	4,195.7	4,170.6	9.2	10.5	48.23	-236.2	-357.8	149.4	132.6	16.83	8.877	
4,300.0	4,285.4	4,295.7	4,269.8	9.4	10.8	48.23	-243.0	-367.9	153.5	136.3	17.26	8.897	
4,400.0	4,385.0	4,395.6	4,369.0	9.7	11.0	48.24	-249.9	-378.1	157.6	139.9	17.68	8.916	
4,500.0	4,484.6	4,495.5	4,468.1	9.9	11.3	48.25	-256.7	-388.3	161.7	143.6	18.10	8.934	
4,600.0	4,584.2	4,595.4	4,567.3	10.1	11.6	48.25	-263.6	-398.4	165.8	147.3	18.52	8.952	
4,700.0	4,683.7	4,695.3	4,666.4	10.4	11.9	48.26	-270.4	-408.6	169.9	151.0	18.95	8.968	
4,800.0	4,783.3	4,795.2	4,765.6	10.6	12.1	48.27	-277.3	-418.7	174.0	154.6	19.37	8.984	
4,900.0	4,882.9	4,895.2	4,864.8	10.9	12.4	48.27	-284.1	-428.9	178.1	158.3	19.79	8.999	
5,000.0	4,982.5	4,995.1	4,963.9	11.1	12.7	48.28	-291.0	-439.1	182.2	162.0	20.22	9.013	
5,100.0	5,082.1	5,095.0	5,063.1	11.3	13.0	48.28	-297.8	-449.2	186.3	165.7	20.64	9.027	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4C-35H-O367 - Hz - Plan #1

Survey Program: 0-Geolink MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,181.6	5,194.9	5,162.2	11.6	13.2	48.29	-304.7	-459.4	190.4	169.3	21.06	9.040	
5,300.0	5,281.2	5,294.8	5,261.4	11.8	13.5	48.29	-311.5	-469.5	194.5	173.0	21.48	9.053	
5,400.0	5,380.8	5,394.7	5,360.6	12.0	13.8	48.30	-318.4	-479.7	198.6	176.7	21.91	9.065	
5,500.0	5,480.4	5,494.7	5,459.7	12.3	14.1	48.30	-325.3	-489.9	202.7	180.4	22.33	9.077	
5,600.0	5,579.9	5,594.6	5,558.9	12.5	14.3	48.30	-332.1	-500.0	206.8	184.0	22.75	9.088	
5,700.0	5,679.5	5,694.5	5,658.1	12.7	14.6	48.31	-339.0	-510.2	210.9	187.7	23.18	9.099	
5,800.0	5,779.1	5,794.4	5,757.2	13.0	14.9	48.31	-345.8	-520.4	215.0	191.4	23.60	9.110	
5,900.0	5,878.7	5,894.3	5,856.4	13.2	15.2	48.31	-352.7	-530.5	219.1	195.1	24.02	9.120	
6,000.0	5,978.3	5,994.2	5,955.5	13.5	15.4	48.32	-359.5	-540.7	223.2	198.7	24.45	9.129	
6,100.0	6,077.8	6,094.2	6,054.7	13.7	15.7	48.32	-366.4	-550.8	227.3	202.4	24.87	9.139	
6,200.0	6,177.4	6,194.1	6,153.9	13.9	16.0	48.32	-373.2	-561.0	231.4	206.1	25.29	9.148	
6,300.0	6,277.0	6,294.0	6,253.0	14.2	16.3	48.33	-380.1	-571.2	235.5	209.8	25.72	9.156	
6,400.0	6,376.6	6,393.9	6,352.2	14.4	16.6	48.33	-386.9	-581.3	239.6	213.4	26.14	9.165	
6,500.0	6,476.2	6,493.5	6,451.2	14.6	16.8	12.97	-389.0	-591.5	243.7	217.1	26.62	9.154	
6,600.0	6,575.8	6,592.2	6,548.7	14.7	16.9	-60.89	-377.5	-601.4	247.9	220.9	26.94	9.199	
6,700.0	6,673.6	6,690.2	6,642.9	14.7	16.9	-72.11	-353.0	-611.1	252.0	225.0	26.99	9.334	
6,800.0	6,767.7	6,787.5	6,732.4	14.7	16.9	-74.98	-316.0	-620.3	255.9	229.1	26.79	9.550	
6,900.0	6,856.3	6,884.1	6,815.5	14.5	16.9	-75.80	-267.6	-628.8	259.5	233.1	26.40	9.828	
7,000.0	6,937.8	6,980.1	6,890.9	14.4	16.8	-75.89	-208.8	-636.5	262.8	236.9	25.92	10.139	
7,100.0	7,010.4	7,075.7	6,957.5	14.3	16.8	-75.70	-140.8	-643.3	265.6	240.1	25.46	10.433	
7,200.0	7,072.7	7,170.8	7,014.3	14.3	16.9	-75.44	-64.8	-649.2	267.8	242.7	25.16	10.643	
7,300.0	7,123.7	7,265.6	7,060.5	14.5	17.0	-75.19	17.8	-653.9	269.5	244.3	25.21	10.692	
7,400.0	7,162.2	7,360.2	7,095.3	14.8	17.3	-75.00	105.6	-657.5	270.5	244.8	25.68	10.534	
7,500.0	7,187.5	7,454.6	7,118.3	15.3	17.8	-74.92	197.1	-659.8	270.9	244.2	26.67	10.155	
7,600.0	7,199.2	7,550.0	7,129.2	15.9	18.3	-74.95	291.8	-660.9	270.5	242.3	28.18	9.601	
7,700.0	7,200.0	7,646.7	7,130.0	16.8	19.0	-74.96	388.5	-661.0	269.7	239.7	29.98	8.996	
7,800.0	7,200.0	7,746.7	7,130.0	17.7	19.8	-74.91	488.5	-661.0	268.8	236.9	31.99	8.405	
7,900.0	7,200.0	7,846.7	7,130.0	18.8	20.8	-74.86	588.5	-661.0	268.0	233.8	34.21	7.834	
8,000.0	7,200.0	7,946.7	7,130.0	20.0	21.9	-74.81	688.5	-661.0	267.2	230.5	36.61	7.297	
8,100.0	7,200.0	8,046.7	7,130.0	21.2	23.0	-74.76	788.5	-661.0	266.3	227.2	39.16	6.801	
8,200.0	7,200.0	8,146.7	7,130.0	22.5	24.2	-74.71	888.5	-661.0	265.5	223.7	41.82	6.348	
8,300.0	7,200.0	8,246.7	7,130.0	23.9	25.5	-74.66	988.5	-661.0	264.6	220.1	44.58	5.936	
8,400.0	7,200.0	8,346.7	7,130.0	25.3	26.8	-74.61	1,088.5	-661.0	263.8	216.4	47.42	5.563	
8,500.0	7,200.0	8,446.7	7,130.0	26.8	28.2	-74.56	1,188.5	-661.0	263.0	212.6	50.32	5.225	
8,600.0	7,200.0	8,546.7	7,130.0	28.3	29.6	-74.51	1,288.5	-661.0	262.1	208.8	53.28	4.920	
8,700.0	7,200.0	8,646.7	7,130.0	29.8	31.1	-74.46	1,388.5	-661.0	261.3	205.0	56.28	4.642	
8,800.0	7,200.0	8,746.7	7,130.0	31.4	32.6	-74.41	1,488.5	-661.0	260.4	201.1	59.32	4.390	
8,900.0	7,200.0	8,846.7	7,130.0	32.9	34.1	-74.36	1,588.5	-661.0	259.6	197.2	62.39	4.161	
9,000.0	7,200.0	8,946.7	7,130.0	34.5	35.6	-74.30	1,688.5	-661.0	258.8	193.3	65.49	3.951	
9,100.0	7,200.0	9,046.7	7,130.0	36.1	37.1	-74.25	1,788.5	-661.0	257.9	189.3	68.62	3.759	
9,200.0	7,200.0	9,146.7	7,130.0	37.7	38.7	-74.20	1,888.4	-661.0	257.1	185.3	71.76	3.582	
9,300.0	7,200.0	9,246.7	7,130.0	39.3	40.3	-74.15	1,988.4	-661.0	256.2	181.3	74.92	3.420	
9,400.0	7,200.0	9,346.7	7,130.0	41.0	41.9	-74.09	2,088.4	-661.0	255.4	177.3	78.10	3.270	
9,500.0	7,200.0	9,446.7	7,130.0	42.6	43.5	-74.04	2,188.4	-661.0	254.6	173.3	81.28	3.132	
9,600.0	7,200.0	9,546.7	7,130.0	44.3	45.1	-73.98	2,288.4	-661.0	253.7	169.2	84.48	3.003	
9,700.0	7,200.0	9,646.7	7,130.0	45.9	46.7	-73.93	2,388.4	-661.0	252.9	165.2	87.69	2.884	
9,800.0	7,200.0	9,746.7	7,130.0	47.6	48.4	-73.87	2,488.4	-661.0	252.0	161.1	90.91	2.772	
9,900.0	7,200.0	9,846.7	7,130.0	49.3	50.0	-73.82	2,588.4	-661.0	251.2	157.1	94.13	2.669	
10,000.0	7,200.0	9,946.7	7,130.0	51.0	51.7	-73.76	2,688.4	-661.0	250.4	153.0	97.37	2.571	
10,100.0	7,200.0	10,046.6	7,130.0	52.7	53.3	-73.71	2,788.4	-661.0	249.5	148.9	100.60	2.480	
10,200.0	7,200.0	10,146.6	7,130.0	54.3	55.0	-73.65	2,888.4	-661.0	248.7	144.8	103.84	2.395	
10,300.0	7,200.0	10,246.6	7,130.0	56.0	56.7	-73.59	2,988.4	-661.0	247.8	140.8	107.09	2.314	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4C-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,200.0	10,346.6	7,130.0	57.7	58.4	-73.54	3,088.4	-661.0	247.0	136.7	110.34	2.239	
10,500.0	7,200.0	10,446.6	7,130.0	59.4	60.0	-73.48	3,188.4	-661.0	246.2	132.6	113.59	2.167	
10,600.0	7,200.0	10,546.6	7,130.0	61.1	61.7	-73.42	3,288.4	-661.0	245.3	128.5	116.84	2.100	
10,700.0	7,200.0	10,646.6	7,130.0	62.8	63.4	-73.36	3,388.4	-661.0	244.5	124.4	120.10	2.036	
10,800.0	7,200.0	10,746.6	7,130.0	64.5	65.1	-73.30	3,488.4	-661.0	243.7	120.3	123.36	1.975	
10,900.0	7,200.0	10,846.6	7,130.0	66.3	66.8	-73.25	3,588.4	-661.0	242.8	116.2	126.61	1.918	
11,000.0	7,200.0	10,946.6	7,130.0	68.0	68.5	-73.19	3,688.4	-661.0	242.0	112.1	129.87	1.863	
11,100.0	7,200.0	11,046.6	7,130.0	69.7	70.2	-73.13	3,788.4	-661.0	241.2	108.0	133.13	1.811	
11,200.0	7,200.0	11,146.6	7,130.0	71.4	71.9	-73.07	3,888.4	-661.0	240.3	103.9	136.40	1.762	
11,300.0	7,200.0	11,246.6	7,130.0	73.1	73.6	-73.00	3,988.4	-661.0	239.5	99.8	139.66	1.715	
11,400.0	7,200.0	11,346.6	7,130.0	74.8	75.3	-72.94	4,088.4	-661.0	238.7	95.7	142.92	1.670	
11,500.0	7,200.0	11,446.6	7,130.0	76.6	77.0	-72.88	4,188.4	-661.0	237.8	91.6	146.18	1.627	
11,600.0	7,200.0	11,546.6	7,130.0	78.3	78.7	-72.82	4,288.4	-661.0	237.0	87.5	149.44	1.586	
11,700.0	7,200.0	11,646.6	7,130.0	80.0	80.4	-72.76	4,388.4	-661.0	236.2	83.5	152.70	1.547	
11,741.0	7,200.0	11,687.6	7,130.0	80.7	81.1	-72.73	4,429.4	-661.0	235.8	81.8	154.04	1.531	SF

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance 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	
400.0	400.0	400.0	400.0	0.7	0.7	90.06	0.0	7.5	7.5	6.2	1.35	5.585	
500.0	500.0	500.0	500.0	0.8	0.8	90.06	0.0	7.5	7.5	5.8	1.70	4.438	CC, ES
600.0	600.0	600.0	600.0	1.0	1.0	-136.05	0.0	7.5	8.1	6.1	2.05	3.977	
700.0	700.0	700.1	700.1	1.2	1.2	-142.48	-0.8	7.1	9.6	7.2	2.40	4.013	
800.0	799.9	800.2	800.1	1.4	1.4	-145.54	-3.1	5.9	11.5	8.7	2.75	4.167	
900.0	899.7	900.3	900.2	1.6	1.6	-146.37	-7.0	3.9	13.6	10.5	3.11	4.372	
1,000.0	999.4	1,000.4	1,000.1	1.8	1.8	-145.82	-12.4	1.0	16.0	12.5	3.48	4.601	
1,100.0	1,098.9	1,100.5	1,099.9	2.0	1.9	-144.17	-19.1	-2.5	18.4	14.6	3.85	4.785	
1,200.0	1,198.5	1,200.5	1,199.5	2.2	2.2	-142.60	-26.0	-6.2	20.8	16.6	4.24	4.911	
1,300.0	1,298.1	1,300.4	1,299.2	2.4	2.4	-141.35	-33.0	-9.8	23.2	18.6	4.64	5.012	
1,400.0	1,397.7	1,400.4	1,398.9	2.7	2.6	-140.33	-39.9	-13.4	25.6	20.6	5.03	5.095	
1,500.0	1,497.3	1,500.4	1,498.5	2.9	2.8	-139.49	-46.8	-17.1	28.1	22.6	5.44	5.163	
1,600.0	1,596.8	1,600.4	1,598.2	3.1	3.0	-138.79	-53.7	-20.7	30.5	24.6	5.84	5.220	
1,700.0	1,696.4	1,700.3	1,697.9	3.3	3.2	-138.18	-60.6	-24.3	32.9	26.7	6.25	5.267	
1,800.0	1,796.0	1,800.3	1,797.5	3.6	3.4	-137.66	-67.5	-28.0	35.3	28.7	6.66	5.308	
1,900.0	1,895.6	1,900.3	1,897.2	3.8	3.6	-137.21	-74.4	-31.6	37.8	30.7	7.07	5.343	
2,000.0	1,995.1	2,000.2	1,996.9	4.0	3.8	-136.81	-81.3	-35.3	40.2	32.7	7.48	5.373	
2,100.0	2,094.7	2,100.2	2,096.5	4.3	4.1	-136.46	-88.2	-38.9	42.6	34.7	7.90	5.400	
2,200.0	2,194.3	2,200.2	2,196.2	4.5	4.3	-136.14	-95.2	-42.5	45.1	36.8	8.31	5.423	
2,300.0	2,293.9	2,300.1	2,295.9	4.7	4.5	-135.86	-102.1	-46.2	47.5	38.8	8.73	5.444	
2,400.0	2,393.5	2,400.1	2,395.5	5.0	4.7	-135.61	-109.0	-49.8	50.0	40.8	9.15	5.462	
2,500.0	2,493.0	2,500.1	2,495.2	5.2	4.9	-135.38	-115.9	-53.4	52.4	42.8	9.56	5.479	
2,600.0	2,592.6	2,600.1	2,594.9	5.4	5.2	-135.16	-122.8	-57.1	54.8	44.9	9.98	5.494	
2,700.0	2,692.2	2,700.0	2,694.5	5.7	5.4	-134.97	-129.7	-60.7	57.3	46.9	10.40	5.507	
2,800.0	2,791.8	2,800.0	2,794.2	5.9	5.6	-134.80	-136.6	-64.4	59.7	48.9	10.82	5.519	
2,900.0	2,891.3	2,900.0	2,893.8	6.1	5.8	-134.63	-143.5	-68.0	62.2	50.9	11.24	5.530	
3,000.0	2,990.9	2,999.9	2,993.5	6.4	6.0	-134.48	-150.4	-71.6	64.6	52.9	11.66	5.540	
3,100.0	3,090.5	3,099.9	3,093.2	6.6	6.3	-134.34	-157.4	-75.3	67.0	55.0	12.08	5.550	
3,200.0	3,190.1	3,199.9	3,192.8	6.8	6.5	-134.21	-164.3	-78.9	69.5	57.0	12.50	5.558	
3,300.0	3,289.7	3,299.8	3,292.5	7.1	6.7	-134.09	-171.2	-82.6	71.9	59.0	12.92	5.566	
3,400.0	3,389.2	3,399.8	3,392.2	7.3	6.9	-133.98	-178.1	-86.2	74.4	61.0	13.35	5.573	
3,500.0	3,488.8	3,499.8	3,491.8	7.6	7.1	-133.87	-185.0	-89.8	76.8	63.1	13.77	5.580	
3,600.0	3,588.4	3,599.8	3,591.5	7.8	7.4	-133.77	-191.9	-93.5	79.3	65.1	14.19	5.587	
3,700.0	3,688.0	3,699.7	3,691.2	8.0	7.6	-133.68	-198.8	-97.1	81.7	67.1	14.61	5.592	
3,800.0	3,787.5	3,799.7	3,790.8	8.3	7.8	-133.59	-205.7	-100.7	84.2	69.1	15.03	5.598	
3,900.0	3,887.1	3,899.7	3,890.5	8.5	8.0	-133.51	-212.6	-104.4	86.6	71.1	15.46	5.603	
4,000.0	3,986.7	3,999.6	3,990.2	8.7	8.2	-133.43	-219.6	-108.0	89.1	73.2	15.88	5.608	
4,100.0	4,086.3	4,099.6	4,089.8	9.0	8.5	-133.36	-226.5	-111.7	91.5	75.2	16.30	5.613	
4,200.0	4,185.9	4,199.6	4,189.5	9.2	8.7	-133.29	-233.4	-115.3	93.9	77.2	16.73	5.617	
4,300.0	4,285.4	4,299.5	4,289.1	9.4	8.9	-133.22	-240.3	-118.9	96.4	79.2	17.15	5.621	
4,400.0	4,385.0	4,399.5	4,388.8	9.7	9.1	-133.16	-247.2	-122.6	98.8	81.3	17.57	5.625	
4,500.0	4,484.6	4,499.5	4,488.5	9.9	9.3	-133.09	-254.1	-126.2	101.3	83.3	18.00	5.628	
4,600.0	4,584.2	4,599.5	4,588.1	10.1	9.6	-133.04	-261.0	-129.8	103.7	85.3	18.42	5.632	
4,700.0	4,683.7	4,699.4	4,687.8	10.4	9.8	-132.98	-267.9	-133.5	106.2	87.3	18.84	5.635	
4,800.0	4,783.3	4,799.4	4,787.5	10.6	10.0	-132.93	-274.9	-137.1	108.6	89.4	19.27	5.638	
4,900.0	4,882.9	4,899.4	4,887.1	10.9	10.2	-132.88	-281.8	-140.8	111.1	91.4	19.69	5.641	
5,000.0	4,982.5	4,999.3	4,986.8	11.1	10.4	-132.83	-288.7	-144.4	113.5	93.4	20.11	5.644	
5,100.0	5,082.1	5,099.3	5,086.5	11.3	10.7	-132.79	-295.6	-148.0	116.0	95.4	20.54	5.647	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,181.6	5,199.3	5,186.1	11.6	10.9	-132.74	-302.5	-151.7	118.4	97.4	20.96	5.649	
5,300.0	5,281.2	5,299.2	5,285.8	11.8	11.1	-132.70	-309.4	-155.3	120.9	99.5	21.39	5.651	
5,400.0	5,380.8	5,399.2	5,385.5	12.0	11.3	-132.66	-316.3	-158.9	123.3	101.5	21.81	5.654	
5,500.0	5,480.4	5,499.2	5,485.1	12.3	11.5	-132.62	-323.2	-162.6	125.8	103.5	22.23	5.656	
5,600.0	5,579.9	5,599.2	5,584.8	12.5	11.8	-132.58	-330.1	-166.2	128.2	105.5	22.66	5.658	
5,700.0	5,679.5	5,699.1	5,684.4	12.7	12.0	-132.55	-337.1	-169.9	130.6	107.6	23.08	5.660	
5,800.0	5,779.1	5,799.1	5,784.1	13.0	12.2	-132.51	-344.0	-173.5	133.1	109.6	23.51	5.662	
5,900.0	5,878.7	5,899.1	5,883.8	13.2	12.4	-132.48	-350.9	-177.1	135.5	111.6	23.93	5.664	
6,000.0	5,978.3	5,999.0	5,983.4	13.5	12.6	-132.45	-357.8	-180.8	138.0	113.6	24.35	5.666	
6,100.0	6,077.8	6,099.0	6,083.1	13.7	12.9	-132.41	-364.7	-184.4	140.4	115.7	24.78	5.668	
6,200.0	6,177.4	6,199.0	6,182.8	13.9	13.1	-132.38	-371.6	-188.0	142.9	117.7	25.20	5.669	
6,300.0	6,277.0	6,298.9	6,282.4	14.2	13.3	-132.35	-378.5	-191.7	145.3	119.7	25.63	5.671	
6,400.0	6,376.6	6,398.9	6,382.1	14.4	13.5	-132.33	-385.4	-195.3	147.8	121.7	26.05	5.672	
6,500.0	6,476.2	6,498.9	6,481.7	14.6	13.8	-168.32	-392.3	-199.0	150.2	123.7	26.49	5.672	
6,600.0	6,575.8	6,598.0	6,580.5	14.7	14.0	120.56	-399.2	-202.6	153.2	126.1	27.13	5.647	
6,700.0	6,673.6	6,698.9	6,681.3	14.7	14.1	114.59	-399.7	-206.2	158.6	131.0	27.63	5.740	
6,800.0	6,767.7	6,802.9	6,784.2	14.7	14.1	116.47	-385.3	-210.0	166.2	138.6	27.63	6.016	
6,900.0	6,856.3	6,910.2	6,887.0	14.5	14.0	119.75	-355.1	-213.8	175.4	148.3	27.13	6.465	
7,000.0	6,937.8	7,020.9	6,987.0	14.4	13.9	123.06	-308.2	-217.4	185.4	159.2	26.25	7.063	
7,100.0	7,010.4	7,134.8	7,081.2	14.3	13.7	125.94	-244.4	-220.8	195.6	170.4	25.16	7.773	
7,200.0	7,072.7	7,252.0	7,166.3	14.3	13.5	128.27	-164.1	-224.0	205.1	181.0	24.07	8.519	
7,300.0	7,123.7	7,372.1	7,238.7	14.5	13.5	129.99	-68.5	-226.6	213.4	190.1	23.25	9.178	
7,400.0	7,162.2	7,494.5	7,295.1	14.8	13.7	131.13	40.0	-228.7	219.9	196.9	22.94	9.584	
7,500.0	7,187.5	7,618.7	7,332.6	15.3	14.3	131.68	158.1	-230.0	224.2	200.8	23.36	9.598	
7,600.0	7,199.2	7,743.7	7,349.2	15.9	15.1	131.66	281.9	-230.6	226.1	201.5	24.59	9.196	
7,700.0	7,200.0	7,850.3	7,350.0	16.8	16.0	131.44	388.5	-230.7	226.7	200.5	26.12	8.678	
7,800.0	7,200.0	7,950.3	7,350.0	17.7	17.0	131.29	488.5	-230.7	227.3	199.6	27.69	8.208	
7,900.0	7,200.0	8,050.3	7,350.0	18.8	18.1	131.15	588.5	-230.7	228.0	198.5	29.43	7.745	
8,000.0	7,200.0	8,150.3	7,350.0	20.0	19.3	131.00	688.5	-230.7	228.6	197.3	31.31	7.302	
8,100.0	7,200.0	8,250.3	7,350.0	21.2	20.6	130.86	788.5	-230.7	229.3	196.0	33.31	6.883	
8,200.0	7,200.0	8,350.3	7,350.0	22.5	22.0	130.72	888.5	-230.7	229.9	194.5	35.41	6.494	
8,300.0	7,200.0	8,450.3	7,350.0	23.9	23.4	130.58	988.5	-230.7	230.6	193.0	37.60	6.133	
8,400.0	7,200.0	8,550.3	7,350.0	25.3	24.8	130.44	1,088.5	-230.7	231.3	191.4	39.86	5.802	
8,500.0	7,200.0	8,650.3	7,350.0	26.8	26.3	130.30	1,188.5	-230.7	231.9	189.7	42.19	5.498	
8,600.0	7,200.0	8,750.3	7,350.0	28.3	27.8	130.16	1,288.5	-230.7	232.6	188.0	44.57	5.219	
8,700.0	7,200.0	8,850.3	7,350.0	29.8	29.4	130.02	1,388.5	-230.7	233.3	186.3	47.00	4.963	
8,800.0	7,200.0	8,950.3	7,350.0	31.4	30.9	129.88	1,488.5	-230.7	233.9	184.5	49.48	4.728	
8,900.0	7,200.0	9,050.3	7,350.0	32.9	32.5	129.75	1,588.5	-230.7	234.6	182.6	51.99	4.513	
9,000.0	7,200.0	9,150.3	7,350.0	34.5	34.1	129.61	1,688.5	-230.7	235.3	180.7	54.54	4.314	
9,100.0	7,200.0	9,250.3	7,350.0	36.1	35.7	129.47	1,788.5	-230.7	236.0	178.8	57.12	4.131	
9,200.0	7,200.0	9,350.3	7,350.0	37.7	37.4	129.34	1,888.4	-230.7	236.6	176.9	59.73	3.962	
9,300.0	7,200.0	9,450.3	7,350.0	39.3	39.0	129.21	1,988.4	-230.7	237.3	174.9	62.37	3.805	
9,400.0	7,200.0	9,550.2	7,350.0	41.0	40.7	129.07	2,088.4	-230.7	238.0	173.0	65.03	3.660	
9,500.0	7,200.0	9,650.2	7,350.0	42.6	42.3	128.94	2,188.4	-230.7	238.7	170.9	67.71	3.525	
9,600.0	7,200.0	9,750.2	7,350.0	44.3	44.0	128.81	2,288.4	-230.7	239.3	168.9	70.41	3.399	
9,700.0	7,200.0	9,850.2	7,350.0	45.9	45.6	128.68	2,388.4	-230.7	240.0	166.9	73.13	3.282	
9,800.0	7,200.0	9,950.2	7,350.0	47.6	47.3	128.55	2,488.4	-230.7	240.7	164.8	75.88	3.172	
9,900.0	7,200.0	10,050.2	7,350.0	49.3	49.0	128.42	2,588.4	-230.7	241.4	162.7	78.63	3.070	
10,000.0	7,200.0	10,150.2	7,350.0	51.0	50.7	128.29	2,688.4	-230.7	242.1	160.7	81.41	2.973	
10,100.0	7,200.0	10,250.2	7,350.0	52.7	52.4	128.17	2,788.4	-230.7	242.8	158.6	84.20	2.883	
10,200.0	7,200.0	10,350.2	7,350.0	54.3	54.1	128.04	2,888.4	-230.7	243.4	156.4	87.01	2.798	
10,300.0	7,200.0	10,450.2	7,350.0	56.0	55.8	127.91	2,988.4	-230.7	244.1	154.3	89.82	2.718	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4E-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,200.0	10,550.2	7,350.0	57.7	57.5	127.79	3,088.4	-230.7	244.8	152.2	92.66	2.642	
10,500.0	7,200.0	10,650.2	7,350.0	59.4	59.2	127.66	3,188.4	-230.7	245.5	150.0	95.50	2.571	
10,600.0	7,200.0	10,750.2	7,350.0	61.1	60.9	127.54	3,288.4	-230.7	246.2	147.8	98.36	2.503	
10,700.0	7,200.0	10,850.2	7,350.0	62.8	62.6	127.41	3,388.4	-230.7	246.9	145.7	101.23	2.439	
10,800.0	7,200.0	10,950.2	7,350.0	64.5	64.3	127.29	3,488.4	-230.7	247.6	143.5	104.11	2.378	
10,900.0	7,200.0	11,050.2	7,350.0	66.3	66.0	127.17	3,588.4	-230.7	248.3	141.3	107.00	2.320	
11,000.0	7,200.0	11,150.2	7,350.0	68.0	67.8	127.05	3,688.4	-230.7	249.0	139.1	109.91	2.265	
11,100.0	7,200.0	11,250.2	7,350.0	69.7	69.5	126.93	3,788.4	-230.7	249.7	136.8	112.82	2.213	
11,200.0	7,200.0	11,348.3	7,350.0	71.4	71.2	126.79	3,886.5	-230.5	250.5	134.7	115.74	2.164	
11,300.0	7,200.0	11,442.2	7,350.0	73.1	72.8	126.36	3,980.3	-228.1	253.2	134.2	119.03	2.127	
11,400.0	7,200.0	11,542.1	7,350.0	74.8	74.5	125.72	4,080.1	-224.2	257.1	134.4	122.71	2.095	
11,500.0	7,200.0	11,642.0	7,350.0	76.6	76.2	125.11	4,180.0	-220.3	261.0	134.6	126.40	2.065	
11,600.0	7,200.0	11,741.8	7,350.0	78.3	77.9	124.51	4,279.8	-216.3	265.0	134.9	130.10	2.037	
11,700.0	7,200.0	11,841.7	7,350.0	80.0	79.7	123.93	4,379.6	-212.4	269.0	135.2	133.80	2.010	
11,741.0	7,200.0	11,882.7	7,350.0	80.7	80.4	123.70	4,420.5	-210.8	270.6	135.3	135.32	2.000	SF

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.91	0.0	15.1	15.1				
100.0	100.0	100.0	100.0	0.2	0.2	89.91	0.0	15.1	15.1	14.8	0.30	49.687	
200.0	200.0	200.0	200.0	0.3	0.3	89.91	0.0	15.1	15.1	14.4	0.65	23.117	
300.0	300.0	300.0	300.0	0.5	0.5	89.91	0.0	15.1	15.1	14.1	1.00	15.062	
400.0	400.0	400.0	400.0	0.7	0.7	89.91	0.0	15.1	15.1	13.7	1.35	11.170	
500.0	500.0	500.0	500.0	0.8	0.8	89.91	0.0	15.1	15.1	13.4	1.70	8.876	CC, ES
600.0	600.0	600.0	600.0	1.0	1.0	-133.99	0.0	15.1	15.7	13.6	2.05	7.653	
700.0	700.0	700.0	700.0	1.2	1.2	-140.12	0.0	15.1	17.6	15.2	2.40	7.337	
800.0	799.9	799.9	799.9	1.4	1.4	-147.70	0.0	15.1	21.1	18.4	2.75	7.689	
900.0	899.7	899.7	899.7	1.6	1.5	-154.75	0.0	15.1	26.5	23.4	3.10	8.554	
1,000.0	999.4	999.4	999.4	1.8	1.7	-160.41	0.0	15.1	33.8	30.3	3.44	9.801	
1,100.0	1,098.9	1,098.9	1,098.9	2.0	1.9	-164.53	0.0	15.1	42.5	38.7	3.79	11.198	
1,200.0	1,198.5	1,198.5	1,198.5	2.2	2.1	-167.26	0.0	15.1	51.4	47.2	4.14	12.408	
1,300.0	1,298.1	1,298.1	1,298.1	2.4	2.2	-169.18	0.0	15.1	60.4	55.9	4.49	13.450	
1,400.0	1,397.7	1,397.7	1,397.7	2.7	2.4	-170.61	0.0	15.1	69.4	64.6	4.84	14.352	
1,500.0	1,497.3	1,497.3	1,497.3	2.9	2.6	-171.70	0.0	15.1	78.5	73.3	5.18	15.139	
1,600.0	1,596.8	1,596.8	1,596.8	3.1	2.8	-172.57	0.0	15.1	87.6	82.0	5.53	15.831	
1,700.0	1,696.4	1,696.4	1,696.4	3.3	2.9	-173.27	0.0	15.1	96.7	90.8	5.88	16.444	
1,800.0	1,796.0	1,796.0	1,796.0	3.6	3.1	-173.85	0.0	15.1	105.8	99.6	6.23	16.991	
1,900.0	1,895.6	1,895.6	1,895.6	3.8	3.3	-174.34	0.0	15.1	114.9	108.4	6.58	17.481	
2,000.0	1,995.1	1,996.4	1,996.4	4.0	3.5	-174.47	-0.8	15.2	123.6	116.7	6.93	17.843	
2,100.0	2,094.7	2,097.5	2,097.5	4.3	3.6	-173.97	-3.4	15.4	131.1	123.9	7.28	18.016	
2,200.0	2,194.3	2,198.7	2,198.6	4.5	3.8	-172.93	-7.7	15.7	137.7	130.0	7.64	18.027	
2,300.0	2,293.9	2,300.0	2,299.6	4.7	4.0	-171.40	-13.9	16.3	143.2	135.2	8.00	17.900	
2,400.0	2,393.5	2,401.2	2,400.5	5.0	4.2	-169.42	-21.8	16.9	147.8	139.5	8.37	17.659	
2,500.0	2,493.0	2,501.6	2,500.5	5.2	4.4	-167.08	-31.2	17.7	151.9	143.1	8.76	17.346	
2,600.0	2,592.6	2,601.3	2,599.8	5.4	4.6	-164.81	-40.7	18.5	156.0	146.9	9.15	17.060	
2,700.0	2,692.2	2,701.0	2,699.0	5.7	4.8	-162.66	-50.2	19.3	160.4	150.9	9.55	16.806	
2,800.0	2,791.8	2,800.8	2,798.3	5.9	5.0	-160.63	-59.7	20.1	165.0	155.1	9.95	16.582	
2,900.0	2,891.3	2,900.5	2,897.6	6.1	5.2	-158.72	-69.3	20.9	169.8	159.5	10.37	16.382	
3,000.0	2,990.9	3,000.2	2,996.8	6.4	5.4	-156.91	-78.8	21.7	174.8	164.0	10.79	16.204	
3,100.0	3,090.5	3,099.9	3,096.1	6.6	5.6	-155.20	-88.3	22.5	180.0	168.8	11.22	16.046	
3,200.0	3,190.1	3,199.7	3,195.4	6.8	5.8	-153.59	-97.8	23.3	185.3	173.6	11.65	15.906	
3,300.0	3,289.7	3,299.4	3,294.6	7.1	6.1	-152.07	-107.3	24.1	190.7	178.6	12.09	15.780	
3,400.0	3,389.2	3,399.1	3,393.9	7.3	6.3	-150.63	-116.9	24.9	196.3	183.8	12.53	15.669	
3,500.0	3,488.8	3,498.9	3,493.2	7.6	6.5	-149.27	-126.4	25.7	202.0	189.0	12.97	15.570	
3,600.0	3,588.4	3,598.6	3,592.5	7.8	6.7	-147.99	-135.9	26.5	207.8	194.3	13.42	15.481	
3,700.0	3,688.0	3,698.3	3,691.7	8.0	6.9	-146.78	-145.4	27.3	213.7	199.8	13.87	15.403	
3,800.0	3,787.5	3,798.0	3,791.0	8.3	7.2	-145.63	-154.9	28.1	219.6	205.3	14.32	15.333	
3,900.0	3,887.1	3,897.8	3,890.3	8.5	7.4	-144.55	-164.5	28.9	225.7	210.9	14.78	15.271	
4,000.0	3,986.7	3,997.5	3,989.5	8.7	7.6	-143.52	-174.0	29.7	231.8	216.6	15.24	15.216	
4,100.0	4,086.3	4,097.2	4,088.8	9.0	7.9	-142.54	-183.5	30.5	238.1	222.4	15.69	15.167	
4,200.0	4,185.9	4,196.9	4,188.1	9.2	8.1	-141.62	-193.0	31.3	244.3	228.2	16.15	15.124	
4,300.0	4,285.4	4,296.7	4,287.3	9.4	8.3	-140.74	-202.5	32.1	250.7	234.0	16.62	15.086	
4,400.0	4,385.0	4,396.4	4,386.6	9.7	8.5	-139.90	-212.1	32.9	257.1	240.0	17.08	15.053	
4,500.0	4,484.6	4,496.1	4,485.9	9.9	8.8	-139.11	-221.6	33.7	263.5	246.0	17.54	15.023	
4,600.0	4,584.2	4,595.8	4,585.1	10.1	9.0	-138.35	-231.1	34.5	270.0	252.0	18.00	14.998	
4,700.0	4,683.7	4,695.6	4,684.4	10.4	9.2	-137.63	-240.6	35.3	276.5	258.1	18.47	14.975	
4,800.0	4,783.3	4,795.3	4,783.7	10.6	9.5	-136.94	-250.1	36.1	283.1	264.2	18.93	14.956	
4,900.0	4,882.9	4,895.0	4,882.9	10.9	9.7	-136.29	-259.7	36.9	289.7	270.3	19.39	14.939	
5,000.0	4,982.5	4,994.8	4,982.2	11.1	9.9	-135.66	-269.2	37.8	296.4	276.5	19.86	14.924	
5,100.0	5,082.1	5,094.5	5,081.5	11.3	10.2	-135.06	-278.7	38.6	303.1	282.7	20.32	14.912	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1

Survey Program: 0-Geolink MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,181.6	5,194.2	5,180.7	11.6	10.4	-134.49	-288.2	39.4	309.8	289.0	20.79	14.901	
5,300.0	5,281.2	5,293.9	5,280.0	11.8	10.6	-133.94	-297.7	40.2	316.5	295.3	21.25	14.893	
5,400.0	5,380.8	5,393.7	5,379.3	12.0	10.9	-133.41	-307.2	41.0	323.3	301.6	21.72	14.886	
5,500.0	5,480.4	5,493.4	5,478.6	12.3	11.1	-132.91	-316.8	41.8	330.1	307.9	22.18	14.880	
5,600.0	5,579.9	5,593.1	5,577.8	12.5	11.3	-132.42	-326.3	42.6	336.9	314.3	22.65	14.875	
5,700.0	5,679.5	5,692.8	5,677.1	12.7	11.6	-131.96	-335.8	43.4	343.8	320.7	23.12	14.872	
5,800.0	5,779.1	5,792.6	5,776.4	13.0	11.8	-131.51	-345.3	44.2	350.7	327.1	23.58	14.870	
5,900.0	5,878.7	5,892.3	5,875.6	13.2	12.0	-131.08	-354.8	45.0	357.5	333.5	24.05	14.869	
6,000.0	5,978.3	5,992.0	5,974.9	13.5	12.3	-130.67	-364.4	45.8	364.5	339.9	24.51	14.868	
6,100.0	6,077.8	6,091.8	6,074.2	13.7	12.5	-130.27	-373.9	46.6	371.4	346.4	24.98	14.869	
6,200.0	6,177.4	6,191.5	6,173.4	13.9	12.7	-129.89	-383.4	47.4	378.3	352.9	25.44	14.870	
6,300.0	6,277.0	6,291.2	6,272.7	14.2	13.0	-129.52	-392.9	48.2	385.3	359.4	25.91	14.871	
6,400.0	6,376.6	6,391.5	6,372.6	14.4	13.2	-129.23	-402.0	49.0	392.3	365.9	26.36	14.881	
6,500.0	6,476.2	6,492.6	6,473.6	14.6	13.3	-166.88	-400.7	49.8	399.0	372.4	26.60	15.001	
6,600.0	6,575.8	6,592.3	6,572.0	14.7	13.3	115.65	-385.5	50.6	405.9	379.3	26.55	15.287	
6,700.0	6,673.6	6,690.7	6,666.2	14.7	13.2	101.01	-357.2	51.3	413.0	386.7	26.31	15.698	
6,800.0	6,767.7	6,787.8	6,754.5	14.7	13.0	94.94	-317.0	52.1	420.2	394.3	25.95	16.196	
6,900.0	6,856.3	6,883.9	6,835.7	14.5	12.8	91.21	-265.7	52.7	427.3	401.8	25.54	16.731	
7,000.0	6,937.8	6,979.0	6,908.6	14.4	12.6	88.51	-204.8	53.3	434.1	408.9	25.18	17.238	
7,100.0	7,010.4	7,073.2	6,972.2	14.3	12.5	86.42	-135.5	53.8	440.4	415.4	24.97	17.640	
7,200.0	7,072.7	7,166.6	7,025.8	14.3	12.5	84.77	-59.0	54.2	446.1	421.1	24.98	17.858	
7,300.0	7,123.7	7,259.4	7,068.8	14.5	12.7	83.46	23.2	54.6	451.0	425.7	25.29	17.831	
7,400.0	7,162.2	7,350.0	7,100.1	14.8	13.0	82.48	108.1	54.8	455.0	429.1	25.94	17.542	
7,500.0	7,187.5	7,443.7	7,120.9	15.3	13.6	81.76	199.4	55.0	458.1	431.1	26.96	16.990	
7,600.0	7,199.2	7,535.4	7,129.7	15.9	14.2	81.33	290.6	55.1	460.0	431.7	28.30	16.253	
7,700.0	7,200.0	7,633.3	7,130.0	16.8	15.1	81.27	388.5	55.1	461.0	430.9	30.07	15.333	
7,800.0	7,200.0	7,733.3	7,130.0	17.7	16.2	81.28	488.5	55.1	461.9	429.7	32.14	14.371	
7,900.0	7,200.0	7,833.3	7,130.0	18.8	17.3	81.30	588.5	55.1	462.7	428.3	34.44	13.438	
8,000.0	7,200.0	7,933.3	7,130.0	20.0	18.6	81.32	688.5	55.1	463.6	426.7	36.92	12.558	
8,100.0	7,200.0	8,033.3	7,130.0	21.2	19.9	81.33	788.5	55.1	464.5	424.9	39.55	11.744	
8,200.0	7,200.0	8,133.3	7,130.0	22.5	21.3	81.35	888.5	55.1	465.3	423.0	42.30	11.001	
8,300.0	7,200.0	8,233.2	7,130.0	23.9	22.8	81.36	988.5	55.1	466.2	421.0	45.15	10.325	
8,400.0	7,200.0	8,333.2	7,130.0	25.3	24.2	81.38	1,088.5	55.1	467.0	419.0	48.08	9.713	
8,500.0	7,200.0	8,433.2	7,130.0	26.8	25.8	81.40	1,188.5	55.1	467.9	416.8	51.08	9.160	
8,600.0	7,200.0	8,533.2	7,130.0	28.3	27.3	81.41	1,288.5	55.1	468.8	414.6	54.14	8.658	
8,700.0	7,200.0	8,633.2	7,130.0	29.8	28.9	81.43	1,388.5	55.1	469.6	412.4	57.25	8.204	
8,800.0	7,200.0	8,733.2	7,130.0	31.4	30.5	81.44	1,488.5	55.1	470.5	410.1	60.39	7.791	
8,900.0	7,200.0	8,833.2	7,130.0	32.9	32.1	81.46	1,588.5	55.1	471.4	407.8	63.57	7.415	
9,000.0	7,200.0	8,933.2	7,130.0	34.5	33.7	81.48	1,688.5	55.1	472.2	405.4	66.78	7.071	
9,100.0	7,200.0	9,033.2	7,130.0	36.1	35.3	81.49	1,788.5	55.1	473.1	403.1	70.01	6.757	
9,200.0	7,200.0	9,133.2	7,130.0	37.7	37.0	81.51	1,888.4	55.1	473.9	400.7	73.27	6.469	
9,300.0	7,200.0	9,233.2	7,130.0	39.3	38.6	81.52	1,988.4	55.1	474.8	398.3	76.54	6.203	
9,400.0	7,200.0	9,333.2	7,130.0	41.0	40.3	81.54	2,088.4	55.1	475.7	395.8	79.84	5.958	
9,500.0	7,200.0	9,441.1	7,130.0	42.6	42.1	81.54	2,196.3	54.3	475.8	392.5	83.27	5.714	
9,600.0	7,200.0	9,541.6	7,130.0	44.3	43.8	81.52	2,296.8	52.5	474.9	388.3	86.59	5.484	
9,700.0	7,200.0	9,641.6	7,130.0	45.9	45.4	81.51	2,396.8	50.7	474.0	384.1	89.92	5.271	
9,800.0	7,200.0	9,741.6	7,130.0	47.6	47.1	81.49	2,496.8	48.9	473.1	379.8	93.26	5.073	
9,900.0	7,200.0	9,841.6	7,130.0	49.3	48.8	81.47	2,596.8	47.1	472.2	375.6	96.60	4.888	
10,000.0	7,200.0	9,941.6	7,130.0	51.0	50.5	81.46	2,696.8	45.3	471.3	371.3	99.95	4.715	
10,100.0	7,200.0	10,041.6	7,130.0	52.7	52.2	81.44	2,796.7	43.5	470.4	367.1	103.31	4.553	
10,200.0	7,200.0	10,141.6	7,130.0	54.3	53.9	81.42	2,896.7	41.8	469.5	362.8	106.68	4.401	
10,300.0	7,200.0	10,241.6	7,130.0	56.0	55.6	81.41	2,996.7	40.0	468.6	358.5	110.05	4.258	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4F-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,200.0	10,341.6	7,130.0	57.7	57.3	81.39	3,096.7	38.2	467.7	354.2	113.43	4.123	
10,500.0	7,200.0	10,441.6	7,130.0	59.4	59.1	81.37	3,196.7	36.4	466.8	349.9	116.81	3.996	
10,600.0	7,200.0	10,541.6	7,130.0	61.1	60.8	81.36	3,296.6	34.6	465.8	345.7	120.20	3.876	
10,700.0	7,200.0	10,641.6	7,130.0	62.8	62.5	81.34	3,396.6	32.8	464.9	341.4	123.59	3.762	
10,800.0	7,200.0	10,741.6	7,130.0	64.5	64.2	81.32	3,496.6	31.0	464.0	337.1	126.98	3.654	
10,900.0	7,200.0	10,841.6	7,130.0	66.3	65.9	81.31	3,596.6	29.2	463.1	332.8	130.38	3.552	
11,000.0	7,200.0	10,941.6	7,130.0	68.0	67.7	81.29	3,696.5	27.5	462.2	328.4	133.78	3.455	
11,100.0	7,200.0	11,041.6	7,130.0	69.7	69.4	81.27	3,796.5	25.7	461.3	324.1	137.18	3.363	
11,200.0	7,200.0	11,141.6	7,130.0	71.4	71.1	81.25	3,896.5	23.9	460.4	319.8	140.59	3.275	
11,300.0	7,200.0	11,241.5	7,130.0	73.1	72.8	81.24	3,996.5	22.1	459.5	315.5	144.00	3.191	
11,400.0	7,200.0	11,341.5	7,130.0	74.8	74.6	81.22	4,096.5	20.3	458.6	311.2	147.41	3.111	
11,500.0	7,200.0	11,441.5	7,130.0	76.6	76.3	81.20	4,196.4	18.5	457.7	306.9	150.82	3.035	
11,600.0	7,200.0	11,541.5	7,130.0	78.3	78.0	81.18	4,296.4	16.7	456.8	302.6	154.23	2.962	
11,700.0	7,200.0	11,641.5	7,130.0	80.0	79.7	81.17	4,396.4	14.9	455.9	298.2	157.65	2.892	
11,726.9	7,200.0	11,664.3	7,130.0	80.5	80.1	81.16	4,419.1	14.5	455.7	297.2	158.50	2.875	
11,741.0	7,200.0	11,664.3	7,130.0	80.7	80.1	81.16	4,419.1	14.5	455.9	297.1	158.74	2.872	SF

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4G-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.96	0.0	22.4	22.4				
100.0	100.0	100.0	100.0	0.2	0.2	89.96	0.0	22.4	22.4	22.1	0.30	73.611	
200.0	200.0	200.0	200.0	0.3	0.3	89.96	0.0	22.4	22.4	21.7	0.65	34.247	
300.0	300.0	300.0	300.0	0.5	0.5	89.96	0.0	22.4	22.4	21.4	1.00	22.314	
400.0	400.0	400.0	400.0	0.7	0.7	89.96	0.0	22.4	22.4	21.0	1.35	16.548	
500.0	500.0	500.0	500.0	0.8	0.8	89.96	0.0	22.4	22.4	20.7	1.70	13.150	CC, ES
600.0	600.0	600.0	600.0	1.0	1.0	-133.19	0.0	22.4	22.9	20.9	2.05	11.196	
700.0	700.0	700.0	700.0	1.2	1.2	-137.58	0.0	22.4	24.8	22.4	2.40	10.340	
800.0	799.9	799.8	799.7	1.4	1.4	-141.83	-0.8	22.7	28.4	25.6	2.75	10.317	
900.0	899.7	899.5	899.4	1.6	1.5	-143.89	-3.2	23.8	33.8	30.7	3.11	10.890	
1,000.0	999.4	999.1	999.0	1.8	1.7	-144.36	-7.1	25.5	41.0	37.6	3.47	11.832	
1,100.0	1,098.9	1,098.6	1,098.3	2.0	1.9	-143.78	-12.5	27.9	49.6	45.8	3.84	12.910	
1,200.0	1,198.5	1,198.3	1,197.8	2.2	2.1	-143.15	-18.1	30.5	58.3	54.1	4.22	13.801	
1,300.0	1,298.1	1,297.9	1,297.2	2.4	2.3	-142.69	-23.7	33.0	67.0	62.3	4.61	14.532	
1,400.0	1,397.7	1,397.5	1,396.6	2.7	2.5	-142.33	-29.4	35.5	75.6	70.6	4.99	15.142	
1,500.0	1,497.3	1,497.1	1,496.0	2.9	2.7	-142.05	-35.0	38.0	84.3	78.9	5.39	15.657	
1,600.0	1,596.8	1,596.7	1,595.5	3.1	2.9	-141.82	-40.6	40.5	93.0	87.2	5.78	16.097	
1,700.0	1,696.4	1,696.4	1,694.9	3.3	3.1	-141.63	-46.3	43.0	101.7	95.5	6.17	16.477	
1,800.0	1,796.0	1,796.0	1,794.3	3.6	3.3	-141.47	-51.9	45.6	110.4	103.8	6.57	16.808	
1,900.0	1,895.6	1,895.6	1,893.8	3.8	3.5	-141.33	-57.5	48.1	119.1	112.1	6.96	17.099	
2,000.0	1,995.1	1,995.2	1,993.2	4.0	3.7	-141.21	-63.1	50.6	127.8	120.4	7.36	17.356	
2,100.0	2,094.7	2,094.9	2,092.6	4.3	3.9	-141.11	-68.8	53.1	136.4	128.7	7.76	17.585	
2,200.0	2,194.3	2,194.5	2,192.1	4.5	4.1	-141.01	-74.4	55.6	145.1	137.0	8.16	17.791	
2,300.0	2,293.9	2,294.1	2,291.5	4.7	4.3	-140.93	-80.0	58.1	153.8	145.3	8.56	17.976	
2,400.0	2,393.5	2,393.7	2,390.9	5.0	4.5	-140.86	-85.6	60.7	162.5	153.6	8.96	18.143	
2,500.0	2,493.0	2,493.3	2,490.4	5.2	4.7	-140.80	-91.3	63.2	171.2	161.8	9.36	18.296	
2,600.0	2,592.6	2,593.0	2,589.8	5.4	4.9	-140.74	-96.9	65.7	179.9	170.1	9.76	18.435	
2,700.0	2,692.2	2,692.6	2,689.2	5.7	5.1	-140.68	-102.5	68.2	188.6	178.4	10.16	18.562	
2,800.0	2,791.8	2,792.2	2,788.6	5.9	5.3	-140.64	-108.2	70.7	197.3	186.7	10.56	18.680	
2,900.0	2,891.3	2,891.8	2,888.1	6.1	5.5	-140.59	-113.8	73.2	206.0	195.0	10.96	18.788	
3,000.0	2,990.9	2,991.4	2,987.5	6.4	5.7	-140.55	-119.4	75.8	214.6	203.3	11.36	18.888	
3,100.0	3,090.5	3,091.1	3,086.9	6.6	5.9	-140.51	-125.0	78.3	223.3	211.6	11.77	18.981	
3,200.0	3,190.1	3,190.7	3,186.4	6.8	6.1	-140.48	-130.7	80.8	232.0	219.9	12.17	19.068	
3,300.0	3,289.7	3,290.3	3,285.8	7.1	6.3	-140.44	-136.3	83.3	240.7	228.2	12.57	19.149	
3,400.0	3,389.2	3,389.9	3,385.2	7.3	6.5	-140.41	-141.9	85.8	249.4	236.4	12.97	19.224	
3,500.0	3,488.8	3,489.6	3,484.7	7.6	6.7	-140.39	-147.6	88.3	258.1	244.7	13.38	19.295	
3,600.0	3,588.4	3,589.2	3,584.1	7.8	6.9	-140.36	-153.2	90.8	266.8	253.0	13.78	19.362	
3,700.0	3,688.0	3,688.8	3,683.5	8.0	7.1	-140.34	-158.8	93.4	275.5	261.3	14.18	19.424	
3,800.0	3,787.5	3,788.4	3,783.0	8.3	7.3	-140.31	-164.4	95.9	284.2	269.6	14.59	19.483	
3,900.0	3,887.1	3,888.0	3,882.4	8.5	7.5	-140.29	-170.1	98.4	292.9	277.9	14.99	19.539	
4,000.0	3,986.7	3,987.7	3,981.8	8.7	7.7	-140.27	-175.7	100.9	301.6	286.2	15.39	19.591	
4,100.0	4,086.3	4,087.3	4,081.2	9.0	7.9	-140.25	-181.3	103.4	310.3	294.5	15.80	19.641	
4,200.0	4,185.9	4,186.9	4,180.7	9.2	8.1	-140.23	-187.0	105.9	318.9	302.7	16.20	19.688	
4,300.0	4,285.4	4,286.5	4,280.1	9.4	8.3	-140.22	-192.6	108.5	327.6	311.0	16.60	19.733	
4,400.0	4,385.0	4,386.1	4,379.5	9.7	8.5	-140.20	-198.2	111.0	336.3	319.3	17.01	19.776	
4,500.0	4,484.6	4,485.8	4,479.0	9.9	8.7	-140.18	-203.8	113.5	345.0	327.6	17.41	19.817	
4,600.0	4,584.2	4,585.4	4,578.4	10.1	9.0	-140.17	-209.5	116.0	353.7	335.9	17.81	19.855	
4,700.0	4,683.7	4,685.0	4,677.8	10.4	9.2	-140.15	-215.1	118.5	362.4	344.2	18.22	19.892	
4,800.0	4,783.3	4,784.6	4,777.3	10.6	9.4	-140.14	-220.7	121.0	371.1	352.5	18.62	19.927	
4,900.0	4,882.9	4,884.3	4,876.7	10.9	9.6	-140.13	-226.3	123.6	379.8	360.8	19.03	19.961	
5,000.0	4,982.5	4,983.9	4,976.1	11.1	9.8	-140.12	-232.0	126.1	388.5	369.0	19.43	19.993	
5,100.0	5,082.1	5,083.5	5,075.6	11.3	10.0	-140.10	-237.6	128.6	397.2	377.3	19.83	20.024	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4G-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,181.6	5,183.1	5,175.0	11.6	10.2	-140.09	-243.2	131.1	405.9	385.6	20.24	20.054	
5,300.0	5,281.2	5,282.7	5,274.4	11.8	10.4	-140.08	-248.9	133.6	414.6	393.9	20.64	20.082	
5,400.0	5,380.8	5,382.4	5,373.8	12.0	10.6	-140.07	-254.5	136.1	423.2	402.2	21.05	20.110	
5,500.0	5,480.4	5,482.0	5,473.3	12.3	10.8	-140.06	-260.1	138.7	431.9	410.5	21.45	20.136	
5,600.0	5,579.9	5,581.6	5,572.7	12.5	11.0	-140.05	-265.7	141.2	440.6	418.8	21.86	20.161	
5,700.0	5,679.5	5,681.2	5,672.1	12.7	11.2	-140.04	-271.4	143.7	449.3	427.1	22.26	20.185	
5,800.0	5,779.1	5,780.8	5,771.6	13.0	11.4	-140.03	-277.0	146.2	458.0	435.3	22.66	20.209	
5,900.0	5,878.7	5,880.5	5,871.0	13.2	11.6	-140.03	-282.6	148.7	466.7	443.6	23.07	20.231	
6,000.0	5,978.3	5,980.1	5,970.4	13.5	11.8	-140.02	-288.3	151.2	475.4	451.9	23.47	20.253	
6,100.0	6,077.8	6,079.7	6,069.9	13.7	12.0	-140.01	-293.9	153.8	484.1	460.2	23.88	20.274	
6,200.0	6,177.4	6,179.3	6,169.3	13.9	12.2	-140.00	-299.5	156.3	492.8	468.5	24.28	20.295	
6,300.0	6,277.0	6,279.0	6,268.7	14.2	12.4	-140.00	-305.1	158.8	501.5	476.8	24.69	20.314	
6,400.0	6,376.6	6,378.6	6,368.1	14.4	12.6	-139.99	-310.8	161.3	510.2	485.1	25.09	20.333	
6,500.0	6,476.2	6,475.9	6,465.3	14.6	12.8	-176.54	-315.9	163.8	518.8	493.3	25.46	20.376	
6,600.0	6,575.8	6,565.9	6,555.1	14.7	12.9	107.59	-312.6	166.0	527.1	501.4	25.63	20.564	
6,700.0	6,673.6	6,656.1	6,644.1	14.7	12.9	94.61	-298.1	168.3	535.2	509.6	25.63	20.881	
6,800.0	6,767.7	6,746.8	6,731.0	14.7	12.9	90.26	-272.2	170.5	543.0	517.5	25.50	21.297	
6,900.0	6,856.3	6,838.2	6,814.4	14.5	12.8	88.26	-235.4	172.6	550.3	525.0	25.28	21.770	
7,000.0	6,937.8	6,930.2	6,893.1	14.4	12.7	87.28	-187.8	174.6	557.1	532.0	25.06	22.233	
7,100.0	7,010.4	7,023.2	6,965.8	14.3	12.7	86.89	-129.8	176.4	563.2	538.3	24.92	22.602	
7,200.0	7,072.7	7,117.3	7,031.0	14.3	12.7	86.87	-62.2	178.1	568.7	543.7	24.96	22.781	
7,300.0	7,123.7	7,212.5	7,087.4	14.5	12.9	87.15	14.5	179.5	573.3	548.0	25.28	22.675	
7,400.0	7,162.2	7,309.1	7,133.8	14.8	13.2	87.66	99.1	180.7	577.1	551.1	25.95	22.235	
7,500.0	7,187.5	7,407.1	7,168.7	15.3	13.7	88.37	190.6	181.6	579.9	552.9	27.02	21.464	
7,600.0	7,199.2	7,506.6	7,191.1	15.9	14.4	89.24	287.5	182.1	581.8	553.4	28.48	20.430	
7,700.0	7,200.0	7,607.9	7,199.9	16.8	15.3	89.99	388.3	182.4	582.9	552.6	30.30	19.236	
7,800.0	7,200.0	7,708.1	7,200.0	17.7	16.4	90.00	488.5	182.4	583.8	551.4	32.41	18.015	
7,900.0	7,200.0	7,808.1	7,200.0	18.8	17.5	90.00	588.5	182.4	584.7	549.9	34.73	16.835	
8,000.0	7,200.0	7,908.1	7,200.0	20.0	18.8	90.00	688.5	182.4	585.5	548.3	37.24	15.723	
8,100.0	7,200.0	8,008.1	7,200.0	21.2	20.1	90.00	788.5	182.4	586.4	546.5	39.90	14.696	
8,200.0	7,200.0	8,108.1	7,200.0	22.5	21.5	90.00	888.5	182.4	587.3	544.6	42.69	13.758	
8,300.0	7,200.0	8,208.1	7,200.0	23.9	22.9	90.00	988.5	182.4	588.2	542.6	45.57	12.907	
8,400.0	7,200.0	8,308.1	7,200.0	25.3	24.4	90.00	1,088.5	182.4	589.0	540.5	48.54	12.136	
8,500.0	7,200.0	8,408.1	7,200.0	26.8	25.9	90.00	1,188.5	182.4	589.9	538.3	51.57	11.439	
8,600.0	7,200.0	8,508.1	7,200.0	28.3	27.4	90.00	1,288.5	182.4	590.8	536.1	54.66	10.808	
8,700.0	7,200.0	8,608.1	7,200.0	29.8	29.0	90.00	1,388.5	182.4	591.7	533.9	57.80	10.236	
8,800.0	7,200.0	8,708.1	7,200.0	31.4	30.6	90.00	1,488.5	182.4	592.5	531.5	60.98	9.717	
8,900.0	7,200.0	8,808.1	7,200.0	32.9	32.2	90.00	1,588.5	182.4	593.4	529.2	64.19	9.244	
9,000.0	7,200.0	8,908.1	7,200.0	34.5	33.8	90.00	1,688.5	182.4	594.3	526.8	67.44	8.812	
9,100.0	7,200.0	9,008.1	7,200.0	36.1	35.4	90.00	1,788.5	182.4	595.1	524.4	70.70	8.417	
9,200.0	7,200.0	9,108.1	7,200.0	37.7	37.1	90.00	1,888.4	182.4	596.0	522.0	73.99	8.055	
9,300.0	7,200.0	9,208.1	7,200.0	39.3	38.7	90.00	1,988.4	182.4	596.9	519.6	77.30	7.721	
9,400.0	7,200.0	9,308.1	7,200.0	41.0	40.4	90.00	2,088.4	182.4	597.8	517.1	80.63	7.414	
9,500.0	7,200.0	9,408.1	7,200.0	42.6	42.0	90.00	2,188.4	182.4	598.6	514.7	83.97	7.129	
9,600.0	7,200.0	9,508.1	7,200.0	44.3	43.7	90.00	2,288.4	182.4	599.5	512.2	87.32	6.865	
9,700.0	7,200.0	9,608.1	7,200.0	45.9	45.4	90.00	2,388.4	182.4	600.4	509.7	90.69	6.620	
9,800.0	7,200.0	9,708.1	7,200.0	47.6	47.1	90.00	2,488.4	182.4	601.3	507.2	94.06	6.392	
9,900.0	7,200.0	9,808.1	7,200.0	49.3	48.8	90.00	2,588.4	182.4	602.1	504.7	97.45	6.179	
10,000.0	7,200.0	9,908.1	7,200.0	51.0	50.5	90.00	2,688.4	182.4	603.0	502.2	100.84	5.980	
10,100.0	7,200.0	10,008.1	7,200.0	52.7	52.2	90.00	2,788.4	182.4	603.9	499.6	104.24	5.793	
10,200.0	7,200.0	10,108.1	7,200.0	54.3	53.9	90.00	2,888.4	182.4	604.7	497.1	107.65	5.618	
10,300.0	7,200.0	10,208.0	7,200.0	56.0	55.6	90.00	2,988.4	182.4	605.6	494.5	111.07	5.453	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4G-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,200.0	10,308.0	7,200.0	57.7	57.3	90.00	3,088.4	182.4	606.5	492.0	114.49	5.297	
10,500.0	7,200.0	10,408.0	7,200.0	59.4	59.0	90.00	3,188.4	182.4	607.4	489.4	117.91	5.151	
10,600.0	7,200.0	10,508.0	7,200.0	61.1	60.7	90.00	3,288.4	182.4	608.2	486.9	121.34	5.013	
10,700.0	7,200.0	10,608.0	7,200.0	62.8	62.4	90.00	3,388.4	182.4	609.1	484.3	124.78	4.882	
10,800.0	7,200.0	10,708.0	7,200.0	64.5	64.1	90.00	3,488.4	182.4	610.0	481.8	128.21	4.757	
10,900.0	7,200.0	10,800.0	7,200.0	66.3	65.7	90.00	3,580.4	182.9	611.5	479.9	131.52	4.649	
11,000.0	7,200.0	10,889.8	7,200.0	68.0	67.3	90.00	3,670.1	184.9	614.5	479.7	134.79	4.559	
11,100.0	7,200.0	10,980.0	7,200.0	69.7	68.8	90.00	3,760.3	188.3	619.1	481.1	138.06	4.485	
11,200.0	7,200.0	11,070.0	7,200.0	71.4	70.4	90.00	3,850.2	193.1	625.3	484.0	141.34	4.424	
11,300.0	7,200.0	11,159.8	7,200.0	73.1	71.9	90.00	3,939.8	199.3	633.1	488.5	144.61	4.378	
11,400.0	7,200.0	11,253.9	7,200.0	74.8	73.5	90.00	4,033.5	207.1	642.3	494.3	147.96	4.341	
11,500.0	7,200.0	11,353.4	7,200.0	76.6	75.3	90.00	4,132.7	215.6	651.7	500.3	151.40	4.304	
11,600.0	7,200.0	11,453.0	7,200.0	78.3	77.0	90.00	4,231.9	224.1	661.1	506.3	154.85	4.269	
11,700.0	7,200.0	11,552.5	7,200.0	80.0	78.7	90.00	4,331.1	232.6	670.5	512.2	158.30	4.236	
11,741.0	7,200.0	11,593.4	7,200.0	80.7	79.4	90.00	4,371.7	236.1	674.4	514.7	159.71	4.222	SF

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4H-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.65	-0.3	29.9	29.9				
100.0	100.0	100.0	100.0	0.2	0.2	90.65	-0.3	29.9	29.9	29.6	0.30	98.461	
200.0	200.0	200.0	200.0	0.3	0.3	90.65	-0.3	29.9	29.9	29.2	0.65	45.808	
300.0	300.0	300.0	300.0	0.5	0.5	90.65	-0.3	29.9	29.9	28.9	1.00	29.847	
400.0	400.0	400.0	400.0	0.7	0.7	90.65	-0.3	29.9	29.9	28.6	1.35	22.135	
500.0	500.0	500.0	500.0	0.8	0.8	90.65	-0.3	29.9	29.9	28.2	1.70	17.589	CC, ES
600.0	600.0	600.0	600.0	1.0	1.0	-132.10	-0.3	29.9	30.5	28.4	2.05	14.874	
700.0	700.0	699.6	699.6	1.2	1.2	-134.35	-1.0	30.5	32.8	30.4	2.40	13.692	
800.0	799.9	799.1	799.0	1.4	1.4	-136.03	-2.9	32.3	37.6	34.8	2.75	13.661	
900.0	899.7	898.4	898.3	1.6	1.6	-137.06	-6.0	35.2	44.7	41.6	3.11	14.366	
1,000.0	999.4	997.4	997.1	1.8	1.7	-137.55	-10.4	39.3	54.1	50.7	3.48	15.553	
1,100.0	1,098.9	1,096.2	1,095.5	2.0	1.9	-137.47	-16.0	44.6	65.5	61.7	3.86	16.971	
1,200.0	1,198.5	1,194.9	1,193.8	2.2	2.2	-136.50	-22.8	50.9	78.0	73.7	4.25	18.330	
1,300.0	1,298.1	1,294.1	1,292.5	2.4	2.4	-135.60	-29.9	57.5	90.7	86.0	4.65	19.486	
1,400.0	1,397.7	1,393.3	1,391.2	2.7	2.6	-134.93	-37.0	64.2	103.4	98.3	5.06	20.446	
1,500.0	1,497.3	1,492.4	1,490.0	2.9	2.8	-134.40	-44.1	70.8	116.1	110.6	5.46	21.253	
1,600.0	1,596.8	1,591.6	1,588.7	3.1	3.0	-133.97	-51.2	77.5	128.8	122.9	5.87	21.941	
1,700.0	1,696.4	1,690.8	1,687.4	3.3	3.3	-133.63	-58.3	84.1	141.5	135.2	6.28	22.533	
1,800.0	1,796.0	1,790.0	1,786.1	3.6	3.5	-133.33	-65.4	90.7	154.3	147.6	6.69	23.047	
1,900.0	1,895.6	1,889.2	1,884.8	3.8	3.7	-133.09	-72.5	97.4	167.0	159.9	7.11	23.497	
2,000.0	1,995.1	1,988.4	1,983.5	4.0	4.0	-132.88	-79.6	104.0	179.7	172.2	7.52	23.895	
2,100.0	2,094.7	2,087.5	2,082.2	4.3	4.2	-132.69	-86.7	110.7	192.5	184.5	7.94	24.248	
2,200.0	2,194.3	2,186.7	2,180.9	4.5	4.4	-132.53	-93.8	117.3	205.2	196.9	8.35	24.564	
2,300.0	2,293.9	2,285.9	2,279.6	4.7	4.7	-132.39	-100.9	123.9	218.0	209.2	8.77	24.848	
2,400.0	2,393.5	2,385.1	2,378.3	5.0	4.9	-132.27	-108.0	130.6	230.7	221.5	9.19	25.105	
2,500.0	2,493.0	2,484.3	2,477.0	5.2	5.2	-132.15	-115.1	137.2	243.5	233.8	9.61	25.338	
2,600.0	2,592.6	2,583.5	2,575.7	5.4	5.4	-132.05	-122.2	143.8	256.2	246.2	10.03	25.551	
2,700.0	2,692.2	2,682.6	2,674.4	5.7	5.6	-131.96	-129.3	150.5	268.9	258.5	10.45	25.745	
2,800.0	2,791.8	2,781.8	2,773.1	5.9	5.9	-131.88	-136.4	157.1	281.7	270.8	10.87	25.924	
2,900.0	2,891.3	2,881.0	2,871.8	6.1	6.1	-131.80	-143.5	163.8	294.4	283.2	11.29	26.089	
3,000.0	2,990.9	2,980.2	2,970.5	6.4	6.4	-131.73	-150.6	170.4	307.2	295.5	11.71	26.241	
3,100.0	3,090.5	3,079.4	3,069.3	6.6	6.6	-131.67	-157.7	177.0	319.9	307.8	12.13	26.383	
3,200.0	3,190.1	3,178.6	3,168.0	6.8	6.8	-131.61	-164.8	183.7	332.7	320.1	12.55	26.514	
3,300.0	3,289.7	3,277.7	3,266.7	7.1	7.1	-131.55	-171.9	190.3	345.4	332.5	12.97	26.637	
3,400.0	3,389.2	3,376.9	3,365.4	7.3	7.3	-131.50	-179.0	196.9	358.2	344.8	13.39	26.751	
3,500.0	3,488.8	3,476.1	3,464.1	7.6	7.6	-131.45	-186.1	203.6	370.9	357.1	13.81	26.858	
3,600.0	3,588.4	3,575.3	3,562.8	7.8	7.8	-131.41	-193.2	210.2	383.7	369.5	14.23	26.959	
3,700.0	3,688.0	3,674.5	3,661.5	8.0	8.0	-131.37	-200.2	216.9	396.4	381.8	14.65	27.054	
3,800.0	3,787.5	3,773.7	3,760.2	8.3	8.3	-131.33	-207.3	223.5	409.2	394.1	15.08	27.143	
3,900.0	3,887.1	3,872.8	3,858.9	8.5	8.5	-131.29	-214.4	230.1	421.9	406.4	15.50	27.227	
4,000.0	3,986.7	3,972.0	3,957.6	8.7	8.8	-131.26	-221.5	236.8	434.7	418.8	15.92	27.306	
4,100.0	4,086.3	4,071.2	4,056.3	9.0	9.0	-131.22	-228.6	243.4	447.5	431.1	16.34	27.381	
4,200.0	4,185.9	4,170.4	4,155.0	9.2	9.2	-131.19	-235.7	250.0	460.2	443.4	16.76	27.452	
4,300.0	4,285.4	4,269.6	4,253.7	9.4	9.5	-131.16	-242.8	256.7	473.0	455.8	17.19	27.520	
4,400.0	4,385.0	4,368.8	4,352.4	9.7	9.7	-131.14	-249.9	263.3	485.7	468.1	17.61	27.584	
4,500.0	4,484.6	4,467.9	4,451.1	9.9	10.0	-131.11	-257.0	270.0	498.5	480.4	18.03	27.645	
4,600.0	4,584.2	4,567.1	4,549.8	10.1	10.2	-131.08	-264.1	276.6	511.2	492.8	18.45	27.704	
4,700.0	4,683.7	4,666.3	4,648.5	10.4	10.4	-131.06	-271.2	283.2	524.0	505.1	18.88	27.759	
4,800.0	4,783.3	4,765.5	4,747.3	10.6	10.7	-131.04	-278.3	289.9	536.7	517.4	19.30	27.812	
4,900.0	4,882.9	4,864.7	4,846.0	10.9	10.9	-131.02	-285.4	296.5	549.5	529.7	19.72	27.863	
5,000.0	4,982.5	4,963.9	4,944.7	11.1	11.2	-131.00	-292.5	303.1	562.2	542.1	20.14	27.911	
5,100.0	5,082.1	5,063.0	5,043.4	11.3	11.4	-130.98	-299.6	309.8	575.0	554.4	20.57	27.958	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4H-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,181.6	5,162.2	5,142.1	11.6	11.7	-130.96	-306.7	316.4	587.7	566.7	20.99	28.002	
5,300.0	5,281.2	5,261.4	5,240.8	11.8	11.9	-130.94	-313.8	323.1	600.5	579.1	21.41	28.045	
5,400.0	5,380.8	5,360.6	5,339.5	12.0	12.1	-130.92	-320.9	329.7	613.2	591.4	21.83	28.086	
5,500.0	5,480.4	5,459.8	5,438.2	12.3	12.4	-130.91	-328.0	336.3	626.0	603.7	22.26	28.125	
5,600.0	5,579.9	5,559.0	5,536.9	12.5	12.6	-130.89	-335.1	343.0	638.7	616.1	22.68	28.163	
5,700.0	5,679.5	5,658.1	5,635.6	12.7	12.9	-130.87	-342.2	349.6	651.5	628.4	23.10	28.199	
5,800.0	5,779.1	5,757.3	5,734.3	13.0	13.1	-130.86	-349.3	356.2	664.2	640.7	23.53	28.234	
5,900.0	5,878.7	5,856.5	5,833.0	13.2	13.3	-130.85	-356.4	362.9	677.0	653.1	23.95	28.268	
6,000.0	5,978.3	5,955.7	5,931.7	13.5	13.6	-130.83	-363.5	369.5	689.8	665.4	24.37	28.301	
6,100.0	6,077.8	6,054.9	6,030.4	13.7	13.8	-130.82	-370.6	376.2	702.5	677.7	24.80	28.332	
6,200.0	6,177.4	6,154.1	6,129.1	13.9	14.1	-130.81	-377.7	382.8	715.3	690.0	25.22	28.363	
6,300.0	6,277.0	6,253.2	6,227.8	14.2	14.3	-130.79	-384.8	389.4	728.0	702.4	25.64	28.392	
6,400.0	6,376.6	6,352.4	6,326.6	14.4	14.6	-130.78	-391.9	396.1	740.8	714.7	26.06	28.420	
6,500.0	6,476.2	6,451.6	6,425.2	14.6	14.8	-167.46	-399.0	402.7	753.5	727.1	26.47	28.470	
6,600.0	6,575.8	6,549.9	6,523.0	14.7	15.0	116.89	-406.0	409.3	766.6	739.9	26.74	28.666	
6,700.0	6,673.6	6,647.6	6,620.4	14.7	15.3	104.84	-412.1	415.8	780.4	753.5	26.87	29.041	
6,800.0	6,767.7	6,751.2	6,723.5	14.7	15.4	101.46	-406.8	422.8	794.8	768.0	26.78	29.679	
6,900.0	6,856.3	6,859.6	6,829.5	14.5	15.4	100.24	-385.3	429.9	809.5	783.0	26.50	30.549	
7,000.0	6,937.8	6,973.5	6,935.9	14.4	15.3	99.85	-345.9	437.1	824.0	797.9	26.09	31.577	
7,100.0	7,010.4	7,093.2	7,039.5	14.3	15.1	99.82	-286.7	444.0	837.7	812.1	25.67	32.636	
7,200.0	7,072.7	7,218.7	7,136.1	14.3	15.0	99.94	-207.1	450.5	850.2	824.9	25.37	33.518	
7,300.0	7,123.7	7,349.9	7,220.6	14.5	14.9	100.08	-107.1	456.2	860.9	835.6	25.36	33.952	
7,400.0	7,162.2	7,485.8	7,287.4	14.8	15.1	100.16	10.9	460.7	869.3	843.5	25.83	33.659	
7,500.0	7,187.5	7,625.1	7,331.7	15.3	15.6	100.12	142.7	463.7	874.9	848.0	26.89	32.534	
7,600.0	7,199.2	7,766.0	7,349.7	15.9	16.4	99.91	282.2	464.9	877.5	849.0	28.55	30.733	
7,700.0	7,200.0	7,872.3	7,350.0	16.8	17.3	99.83	388.5	464.9	878.4	848.0	30.39	28.907	
7,800.0	7,200.0	7,972.3	7,350.0	17.7	18.2	99.82	488.5	464.9	879.2	846.8	32.43	27.115	
7,900.0	7,200.0	8,072.3	7,350.0	18.8	19.2	99.81	588.5	464.9	880.1	845.4	34.69	25.369	
8,000.0	7,200.0	8,172.3	7,350.0	20.0	20.4	99.80	688.5	464.9	881.0	843.8	37.14	23.718	
8,100.0	7,200.0	8,272.3	7,350.0	21.2	21.6	99.79	788.5	464.9	881.8	842.1	39.74	22.188	
8,200.0	7,200.0	8,372.3	7,350.0	22.5	22.9	99.78	888.5	464.9	882.7	840.2	42.47	20.785	
8,300.0	7,200.0	8,472.3	7,350.0	23.9	24.2	99.77	988.5	464.9	883.5	838.2	45.29	19.508	
8,400.0	7,200.0	8,572.2	7,350.0	25.3	25.6	99.77	1,088.5	464.9	884.4	836.2	48.20	18.349	
8,500.0	7,200.0	8,672.2	7,350.0	26.8	27.1	99.76	1,188.5	464.9	885.3	834.1	51.17	17.299	
8,600.0	7,200.0	8,772.2	7,350.0	28.3	28.6	99.75	1,288.5	464.9	886.1	831.9	54.21	16.347	
8,700.0	7,200.0	8,872.2	7,350.0	29.8	30.1	99.74	1,388.5	464.9	887.0	829.7	57.29	15.483	
8,800.0	7,200.0	8,972.2	7,350.0	31.4	31.6	99.73	1,488.5	464.9	887.8	827.4	60.41	14.696	
8,900.0	7,200.0	9,072.2	7,350.0	32.9	33.2	99.72	1,588.5	464.9	888.7	825.1	63.57	13.980	
9,000.0	7,200.0	9,172.2	7,350.0	34.5	34.7	99.71	1,688.5	464.9	889.6	822.8	66.76	13.325	
9,100.0	7,200.0	9,272.2	7,350.0	36.1	36.3	99.70	1,788.5	464.9	890.4	820.4	69.97	12.725	
9,200.0	7,200.0	9,372.2	7,350.0	37.7	37.9	99.69	1,888.4	464.9	891.3	818.1	73.21	12.174	
9,300.0	7,200.0	9,472.2	7,350.0	39.3	39.5	99.68	1,988.4	464.9	892.1	815.7	76.47	11.667	
9,400.0	7,200.0	9,572.2	7,350.0	41.0	41.2	99.67	2,088.4	464.9	893.0	813.3	79.74	11.199	
9,500.0	7,200.0	9,672.2	7,350.0	42.6	42.8	99.66	2,188.4	464.9	893.9	810.8	83.03	10.766	
9,600.0	7,200.0	9,772.2	7,350.0	44.3	44.5	99.65	2,288.4	464.9	894.7	808.4	86.33	10.364	
9,700.0	7,200.0	9,872.2	7,350.0	45.9	46.1	99.64	2,388.4	464.9	895.6	805.9	89.65	9.990	
9,800.0	7,200.0	9,972.2	7,350.0	47.6	47.8	99.63	2,488.4	464.9	896.4	803.5	92.97	9.642	
9,900.0	7,200.0	10,072.2	7,350.0	49.3	49.4	99.62	2,588.4	464.9	897.3	801.0	96.31	9.317	
10,000.0	7,200.0	10,172.2	7,350.0	51.0	51.1	99.61	2,688.4	464.9	898.2	798.5	99.65	9.013	
10,100.0	7,200.0	10,272.2	7,350.0	52.7	52.8	99.61	2,788.4	464.9	899.0	796.0	103.00	8.728	
10,200.0	7,200.0	10,372.2	7,350.0	54.3	54.5	99.60	2,888.4	464.9	899.9	793.5	106.36	8.460	
10,300.0	7,200.0	10,472.2	7,350.0	56.0	56.2	99.59	2,988.4	464.9	900.7	791.0	109.73	8.209	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4H-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,200.0	10,572.2	7,350.0	57.7	57.9	99.58	3,088.4	464.9	901.6	788.5	113.10	7.972	
10,500.0	7,200.0	10,672.2	7,350.0	59.4	59.5	99.57	3,188.4	464.9	902.5	786.0	116.48	7.748	
10,600.0	7,200.0	10,772.2	7,350.0	61.1	61.2	99.56	3,288.4	464.9	903.3	783.5	119.86	7.536	
10,700.0	7,200.0	10,872.2	7,350.0	62.8	62.9	99.55	3,388.4	464.9	904.2	780.9	123.25	7.336	
10,800.0	7,200.0	10,972.2	7,350.0	64.5	64.7	99.54	3,488.4	464.9	905.0	778.4	126.64	7.146	
10,900.0	7,200.0	11,072.2	7,350.0	66.3	66.4	99.53	3,588.4	464.9	905.9	775.9	130.04	6.966	
11,000.0	7,200.0	11,172.1	7,350.0	68.0	68.1	99.52	3,688.4	464.9	906.8	773.3	133.44	6.795	
11,100.0	7,200.0	11,272.1	7,350.0	69.7	69.8	99.51	3,788.4	464.9	907.6	770.8	136.84	6.633	
11,200.0	7,200.0	11,372.1	7,350.0	71.4	71.5	99.50	3,888.4	464.9	908.5	768.2	140.24	6.478	
11,300.0	7,200.0	11,472.1	7,350.0	73.1	73.2	99.49	3,988.4	464.9	909.3	765.7	143.65	6.330	
11,400.0	7,200.0	11,572.1	7,350.0	74.8	74.9	99.49	4,088.4	464.9	910.2	763.1	147.06	6.189	
11,500.0	7,200.0	11,672.1	7,350.0	76.6	76.6	99.48	4,188.4	464.9	911.1	760.6	150.48	6.054	
11,600.0	7,200.0	11,772.1	7,350.0	78.3	78.4	99.47	4,288.4	464.9	911.9	758.0	153.89	5.926	
11,700.0	7,200.0	11,872.1	7,350.0	80.0	80.1	99.46	4,388.4	464.9	912.8	755.5	157.31	5.802	
11,741.0	7,200.0	11,892.7	7,350.0	80.7	80.4	99.46	4,409.0	464.9	913.4	755.0	158.37	5.767	SF

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4I-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.53	-0.3	37.4	37.4				
100.0	100.0	100.0	100.0	0.2	0.2	90.53	-0.3	37.4	37.4	37.1	0.30	123.303	
200.0	200.0	200.0	200.0	0.3	0.3	90.53	-0.3	37.4	37.4	36.8	0.65	57.366	
300.0	300.0	300.0	300.0	0.5	0.5	90.53	-0.3	37.4	37.4	36.4	1.00	37.378	
400.0	400.0	400.0	400.0	0.7	0.7	90.53	-0.3	37.4	37.4	36.1	1.35	27.719	
500.0	500.0	500.0	500.0	0.8	0.8	90.53	-0.3	37.4	37.4	35.7	1.70	22.027	CC, ES
600.0	600.0	599.4	599.4	1.0	1.0	-131.24	-0.8	38.2	38.7	36.7	2.05	18.913	
700.0	700.0	698.8	698.7	1.2	1.2	-131.90	-2.3	40.3	42.6	40.2	2.40	17.772	SF
800.0	799.9	797.9	797.8	1.4	1.4	-132.76	-4.7	43.8	49.1	46.4	2.75	17.840	
900.0	899.7	896.8	896.4	1.6	1.6	-133.64	-8.1	48.8	58.2	55.1	3.11	18.688	
1,000.0	999.4	995.2	994.6	1.8	1.8	-134.42	-12.4	55.1	69.9	66.4	3.48	20.050	
1,100.0	1,098.9	1,093.2	1,092.1	2.0	2.0	-134.91	-17.6	62.8	83.8	79.9	3.86	21.677	
1,200.0	1,198.5	1,190.8	1,189.1	2.2	2.2	-134.70	-23.7	71.8	99.1	94.8	4.25	23.286	
1,300.0	1,298.1	1,288.3	1,285.8	2.4	2.5	-134.05	-30.8	82.2	115.7	111.0	4.65	24.866	
1,400.0	1,397.7	1,386.8	1,383.4	2.7	2.7	-133.43	-38.1	93.1	132.7	127.6	5.06	26.247	
1,500.0	1,497.3	1,485.3	1,481.1	2.9	3.0	-132.95	-45.5	103.9	149.7	144.3	5.46	27.410	
1,600.0	1,596.8	1,583.9	1,578.7	3.1	3.3	-132.57	-52.9	114.8	166.8	160.9	5.87	28.402	
1,700.0	1,696.4	1,682.4	1,676.4	3.3	3.5	-132.25	-60.3	125.7	183.8	177.5	6.28	29.256	
1,800.0	1,796.0	1,780.9	1,774.0	3.6	3.8	-131.99	-67.7	136.5	200.9	194.2	6.70	29.999	
1,900.0	1,895.6	1,879.5	1,871.7	3.8	4.1	-131.78	-75.1	147.4	217.9	210.8	7.11	30.650	
2,000.0	1,995.1	1,978.0	1,969.4	4.0	4.3	-131.59	-82.5	158.3	235.0	227.4	7.52	31.226	
2,100.0	2,094.7	2,076.5	2,067.0	4.3	4.6	-131.43	-89.8	169.1	252.0	244.1	7.94	31.738	
2,200.0	2,194.3	2,175.1	2,164.7	4.5	4.9	-131.29	-97.2	180.0	269.1	260.7	8.36	32.196	
2,300.0	2,293.9	2,273.6	2,262.3	4.7	5.2	-131.16	-104.6	190.9	286.1	277.4	8.77	32.609	
2,400.0	2,393.5	2,372.1	2,360.0	5.0	5.5	-131.05	-112.0	201.7	303.2	294.0	9.19	32.982	
2,500.0	2,493.0	2,470.7	2,457.6	5.2	5.7	-130.95	-119.4	212.6	320.3	310.6	9.61	33.321	
2,600.0	2,592.6	2,569.2	2,555.3	5.4	6.0	-130.86	-126.8	223.5	337.3	327.3	10.03	33.630	
2,700.0	2,692.2	2,667.7	2,652.9	5.7	6.3	-130.78	-134.2	234.3	354.4	343.9	10.45	33.913	
2,800.0	2,791.8	2,766.2	2,750.6	5.9	6.6	-130.71	-141.5	245.2	371.4	360.6	10.87	34.174	
2,900.0	2,891.3	2,864.8	2,848.2	6.1	6.9	-130.65	-148.9	256.1	388.5	377.2	11.29	34.414	
3,000.0	2,990.9	2,963.3	2,945.9	6.4	7.2	-130.59	-156.3	267.0	405.6	393.9	11.71	34.636	
3,100.0	3,090.5	3,061.8	3,043.5	6.6	7.4	-130.53	-163.7	277.8	422.6	410.5	12.13	34.843	
3,200.0	3,190.1	3,160.4	3,141.2	6.8	7.7	-130.48	-171.1	288.7	439.7	427.2	12.55	35.035	
3,300.0	3,289.7	3,258.9	3,238.8	7.1	8.0	-130.43	-178.5	299.6	456.8	443.8	12.97	35.213	
3,400.0	3,389.2	3,357.4	3,336.5	7.3	8.3	-130.39	-185.9	310.4	473.8	460.4	13.39	35.381	
3,500.0	3,488.8	3,456.0	3,434.1	7.6	8.6	-130.35	-193.2	321.3	490.9	477.1	13.81	35.537	
3,600.0	3,588.4	3,554.5	3,531.8	7.8	8.9	-130.31	-200.6	332.2	508.0	493.7	14.24	35.684	
3,700.0	3,688.0	3,653.0	3,629.4	8.0	9.2	-130.27	-208.0	343.0	525.0	510.4	14.66	35.823	
3,800.0	3,787.5	3,751.6	3,727.1	8.3	9.4	-130.24	-215.4	353.9	542.1	527.0	15.08	35.953	
3,900.0	3,887.1	3,850.1	3,824.7	8.5	9.7	-130.21	-222.8	364.8	559.2	543.7	15.50	36.076	
4,000.0	3,986.7	3,948.6	3,922.4	8.7	10.0	-130.18	-230.2	375.6	576.2	560.3	15.92	36.192	
4,100.0	4,086.3	4,047.2	4,020.0	9.0	10.3	-130.15	-237.6	386.5	593.3	577.0	16.34	36.302	
4,200.0	4,185.9	4,145.7	4,117.7	9.2	10.6	-130.12	-244.9	397.4	610.4	593.6	16.77	36.406	
4,300.0	4,285.4	4,244.2	4,215.4	9.4	10.9	-130.10	-252.3	408.2	627.4	610.3	17.19	36.505	
4,400.0	4,385.0	4,342.8	4,313.0	9.7	11.2	-130.07	-259.7	419.1	644.5	626.9	17.61	36.599	
4,500.0	4,484.6	4,441.3	4,410.7	9.9	11.4	-130.05	-267.1	430.0	661.6	643.6	18.03	36.689	
4,600.0	4,584.2	4,539.8	4,508.3	10.1	11.7	-130.03	-274.5	440.8	678.7	660.2	18.45	36.774	
4,700.0	4,683.7	4,638.4	4,606.0	10.4	12.0	-130.01	-281.9	451.7	695.7	676.8	18.88	36.855	
4,800.0	4,783.3	4,736.9	4,703.6	10.6	12.3	-129.99	-289.3	462.6	712.8	693.5	19.30	36.933	
4,900.0	4,882.9	4,835.4	4,801.3	10.9	12.6	-129.97	-296.6	473.5	729.9	710.1	19.72	37.007	
5,000.0	4,982.5	4,934.0	4,898.9	11.1	12.9	-129.95	-304.0	484.3	746.9	726.8	20.14	37.079	
5,100.0	5,082.1	5,032.5	4,996.6	11.3	13.2	-129.94	-311.4	495.2	764.0	743.4	20.57	37.147	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4I-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,181.6	5,131.0	5,094.2	11.6	13.5	-129.92	-318.8	506.1	781.1	760.1	20.99	37.212	
5,300.0	5,281.2	5,229.6	5,191.9	11.8	13.7	-129.91	-326.2	516.9	798.1	776.7	21.41	37.275	
5,400.0	5,380.8	5,328.1	5,289.5	12.0	14.0	-129.89	-333.6	527.8	815.2	793.4	21.83	37.335	
5,500.0	5,480.4	5,426.6	5,387.2	12.3	14.3	-129.88	-340.9	538.7	832.3	810.0	22.26	37.392	
5,600.0	5,579.9	5,525.2	5,484.8	12.5	14.6	-129.86	-348.3	549.5	849.3	826.7	22.68	37.448	
5,700.0	5,679.5	5,623.7	5,582.5	12.7	14.9	-129.85	-355.7	560.4	866.4	843.3	23.10	37.502	
5,800.0	5,779.1	5,722.2	5,680.1	13.0	15.2	-129.84	-363.1	571.3	883.5	859.9	23.53	37.553	
5,900.0	5,878.7	5,820.8	5,777.8	13.2	15.5	-129.83	-370.5	582.1	900.5	876.6	23.95	37.603	
6,000.0	5,978.3	5,919.3	5,875.4	13.5	15.7	-129.81	-377.9	593.0	917.6	893.2	24.37	37.651	
6,100.0	6,077.8	6,017.8	5,973.1	13.7	16.0	-129.80	-385.3	603.9	934.7	909.9	24.79	37.697	
6,200.0	6,177.4	6,116.3	6,070.7	13.9	16.3	-129.79	-392.6	614.7	951.8	926.5	25.22	37.742	
6,300.0	6,277.0	6,214.9	6,168.4	14.2	16.6	-129.78	-400.0	625.6	968.8	943.2	25.64	37.785	
6,400.0	6,376.6	6,313.4	6,266.0	14.4	16.9	-129.77	-407.4	636.5	985.9	959.8	26.06	37.826	

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4J-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.45	-0.4	45.0	45.0				
100.0	100.0	100.0	100.0	0.2	0.2	90.45	-0.4	45.0	45.0	44.7	0.30	148.146	
200.0	200.0	200.0	200.0	0.3	0.3	90.45	-0.4	45.0	45.0	44.3	0.65	68.924	
300.0	300.0	300.0	300.0	0.5	0.5	90.45	-0.4	45.0	45.0	44.0	1.00	44.908	
400.0	400.0	400.0	400.0	0.7	0.7	90.45	-0.4	45.0	45.0	43.6	1.35	33.304	CC, ES
500.0	500.0	499.3	499.3	0.8	0.8	90.98	-0.8	45.7	45.7	44.1	1.70	26.924	
600.0	600.0	598.5	598.5	1.0	1.0	-129.84	-2.1	48.0	48.6	46.6	2.05	23.737	
700.0	700.0	697.6	697.5	1.2	1.2	-129.78	-4.2	51.7	54.1	51.7	2.40	22.558	SF
800.0	799.9	796.4	796.1	1.4	1.4	-130.20	-7.1	56.9	62.2	59.5	2.75	22.602	
900.0	899.7	894.8	894.2	1.6	1.6	-130.88	-10.9	63.6	73.0	69.9	3.12	23.430	
1,000.0	999.4	992.7	991.6	1.8	1.8	-131.65	-15.5	71.6	86.4	82.9	3.49	24.774	
1,100.0	1,098.9	1,090.1	1,088.4	2.0	2.1	-132.31	-20.8	81.1	102.2	98.3	3.87	26.391	
1,200.0	1,198.5	1,187.0	1,184.5	2.2	2.3	-132.42	-27.0	91.9	119.4	115.1	4.26	28.015	
1,300.0	1,298.1	1,284.0	1,280.5	2.4	2.6	-132.16	-33.9	104.1	137.9	133.3	4.66	29.618	
1,400.0	1,397.7	1,382.2	1,377.6	2.7	2.9	-131.90	-41.0	116.8	156.8	151.8	5.06	30.994	
1,500.0	1,497.3	1,480.4	1,474.7	2.9	3.1	-131.69	-48.2	129.4	175.7	170.3	5.47	32.152	
1,600.0	1,596.8	1,578.6	1,571.9	3.1	3.4	-131.52	-55.4	142.1	194.6	188.7	5.87	33.138	
1,700.0	1,696.4	1,676.8	1,669.0	3.3	3.7	-131.38	-62.5	154.7	213.5	207.2	6.28	33.987	
1,800.0	1,796.0	1,775.0	1,766.1	3.6	4.0	-131.27	-69.7	167.4	232.4	225.7	6.69	34.724	
1,900.0	1,895.6	1,873.2	1,863.2	3.8	4.3	-131.17	-76.9	180.0	251.3	244.2	7.10	35.370	
2,000.0	1,995.1	1,971.4	1,960.3	4.0	4.6	-131.08	-84.1	192.7	270.2	262.7	7.52	35.940	
2,100.0	2,094.7	2,069.6	2,057.4	4.3	4.9	-131.01	-91.2	205.3	289.1	281.2	7.93	36.447	
2,200.0	2,194.3	2,167.8	2,154.5	4.5	5.2	-130.95	-98.4	218.0	308.0	299.6	8.35	36.901	
2,300.0	2,293.9	2,266.0	2,251.7	4.7	5.5	-130.89	-105.6	230.6	326.9	318.1	8.76	37.309	
2,400.0	2,393.5	2,364.2	2,348.8	5.0	5.8	-130.84	-112.7	243.3	345.8	336.6	9.18	37.678	
2,500.0	2,493.0	2,462.4	2,445.9	5.2	6.1	-130.79	-119.9	255.9	364.7	355.1	9.59	38.013	
2,600.0	2,592.6	2,560.6	2,543.0	5.4	6.4	-130.75	-127.1	268.6	383.6	373.6	10.01	38.319	
2,700.0	2,692.2	2,658.8	2,640.1	5.7	6.7	-130.71	-134.2	281.2	402.5	392.1	10.43	38.599	
2,800.0	2,791.8	2,757.0	2,737.2	5.9	7.0	-130.68	-141.4	293.9	421.4	410.5	10.84	38.857	
2,900.0	2,891.3	2,855.2	2,834.3	6.1	7.3	-130.65	-148.6	306.5	440.3	429.0	11.26	39.094	
3,000.0	2,990.9	2,953.4	2,931.5	6.4	7.6	-130.62	-155.8	319.2	459.2	447.5	11.68	39.313	
3,100.0	3,090.5	3,051.6	3,028.6	6.6	8.0	-130.60	-162.9	331.9	478.1	466.0	12.10	39.517	
3,200.0	3,190.1	3,149.8	3,125.7	6.8	8.3	-130.57	-170.1	344.5	497.0	484.5	12.52	39.706	
3,300.0	3,289.7	3,248.0	3,222.8	7.1	8.6	-130.55	-177.3	357.2	515.9	502.9	12.93	39.883	
3,400.0	3,389.2	3,346.1	3,319.9	7.3	8.9	-130.53	-184.4	369.8	534.8	521.4	13.35	40.048	
3,500.0	3,488.8	3,444.3	3,417.0	7.6	9.2	-130.51	-191.6	382.5	553.7	539.9	13.77	40.203	
3,600.0	3,588.4	3,542.5	3,514.2	7.8	9.5	-130.49	-198.8	395.1	572.6	558.4	14.19	40.348	
3,700.0	3,688.0	3,640.7	3,611.3	8.0	9.8	-130.47	-205.9	407.8	591.5	576.9	14.61	40.484	
3,800.0	3,787.5	3,738.9	3,708.4	8.3	10.1	-130.46	-213.1	420.4	610.4	595.3	15.03	40.613	
3,900.0	3,887.1	3,837.1	3,805.5	8.5	10.4	-130.44	-220.3	433.1	629.3	613.8	15.45	40.734	
4,000.0	3,986.7	3,935.3	3,902.6	8.7	10.7	-130.43	-227.5	445.7	648.2	632.3	15.87	40.848	
4,100.0	4,086.3	4,033.5	3,999.7	9.0	11.0	-130.42	-234.6	458.4	667.1	650.8	16.29	40.957	
4,200.0	4,185.9	4,131.7	4,096.8	9.2	11.3	-130.40	-241.8	471.0	686.0	669.3	16.71	41.060	
4,300.0	4,285.4	4,229.9	4,194.0	9.4	11.6	-130.39	-249.0	483.7	704.9	687.7	17.13	41.157	
4,400.0	4,385.0	4,328.1	4,291.1	9.7	11.9	-130.38	-256.1	496.3	723.8	706.2	17.55	41.250	
4,500.0	4,484.6	4,426.3	4,388.2	9.9	12.2	-130.37	-263.3	509.0	742.7	724.7	17.97	41.338	
4,600.0	4,584.2	4,524.5	4,485.3	10.1	12.5	-130.36	-270.5	521.6	761.6	743.2	18.39	41.422	
4,700.0	4,683.7	4,622.7	4,582.4	10.4	12.8	-130.35	-277.6	534.3	780.5	761.7	18.81	41.503	
4,800.0	4,783.3	4,720.9	4,679.5	10.6	13.2	-130.34	-284.8	546.9	799.4	780.1	19.23	41.579	
4,900.0	4,882.9	4,819.1	4,776.6	10.9	13.5	-130.33	-292.0	559.6	818.3	798.6	19.65	41.652	
5,000.0	4,982.5	4,917.3	4,873.8	11.1	13.8	-130.32	-299.2	572.2	837.2	817.1	20.07	41.722	
5,100.0	5,082.1	5,015.5	4,970.9	11.3	14.1	-130.31	-306.3	584.9	856.1	835.6	20.49	41.789	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4J-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,181.6	5,113.7	5,068.0	11.6	14.4	-130.31	-313.5	597.5	875.0	854.1	20.91	41.854	
5,300.0	5,281.2	5,211.9	5,165.1	11.8	14.7	-130.30	-320.7	610.2	893.9	872.5	21.33	41.915	
5,400.0	5,380.8	5,310.1	5,262.2	12.0	15.0	-130.29	-327.8	622.8	912.8	891.0	21.75	41.975	
5,500.0	5,480.4	5,408.3	5,359.3	12.3	15.3	-130.29	-335.0	635.5	931.7	909.5	22.17	42.032	
5,600.0	5,579.9	5,506.5	5,456.5	12.5	15.6	-130.28	-342.2	648.1	950.6	928.0	22.59	42.086	
5,700.0	5,679.5	5,604.7	5,553.6	12.7	15.9	-130.27	-349.3	660.8	969.5	946.5	23.01	42.139	
5,800.0	5,779.1	5,702.9	5,650.7	13.0	16.2	-130.27	-356.5	673.4	988.4	964.9	23.43	42.190	

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4K-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.40	-0.4	52.5	52.5				
100.0	100.0	100.0	100.0	0.2	0.2	90.40	-0.4	52.5	52.5	52.2	0.30	172.989	
200.0	200.0	200.0	200.0	0.3	0.3	90.40	-0.4	52.5	52.5	51.9	0.65	80.482	
300.0	300.0	300.0	300.0	0.5	0.5	90.40	-0.4	52.5	52.5	51.5	1.00	52.439	CC, ES
400.0	400.0	399.2	399.2	0.7	0.7	90.76	-0.7	53.3	53.3	52.0	1.35	39.505	
500.0	500.0	498.3	498.2	0.8	0.9	91.80	-1.7	55.7	55.7	54.0	1.70	32.766	
600.0	600.0	597.2	597.1	1.0	1.0	-128.79	-3.5	59.6	60.3	58.3	2.05	29.467	
700.0	700.0	695.9	695.6	1.2	1.2	-128.62	-5.9	65.0	67.6	65.2	2.40	28.189	
800.0	799.9	794.3	793.6	1.4	1.4	-129.00	-9.0	72.0	77.5	74.8	2.75	28.171	SF
900.0	899.7	892.1	891.1	1.6	1.7	-129.71	-12.7	80.5	90.2	87.1	3.11	28.957	
1,000.0	999.4	989.4	987.7	1.8	1.9	-130.57	-17.1	90.4	105.5	102.0	3.49	30.273	
1,100.0	1,098.9	1,086.0	1,083.6	2.0	2.2	-131.39	-22.1	101.8	123.2	119.4	3.87	31.877	
1,200.0	1,198.5	1,182.1	1,178.6	2.2	2.4	-131.78	-27.7	114.5	142.5	138.3	4.25	33.511	
1,300.0	1,298.1	1,277.6	1,272.9	2.4	2.7	-131.83	-33.9	128.7	163.3	158.7	4.65	35.155	
1,400.0	1,397.7	1,373.7	1,367.4	2.7	3.1	-131.68	-40.8	144.2	185.4	180.4	5.04	36.772	
1,500.0	1,497.3	1,471.2	1,463.3	2.9	3.4	-131.53	-47.8	160.1	207.8	202.3	5.45	38.157	
1,600.0	1,596.8	1,568.6	1,559.2	3.1	3.7	-131.41	-54.9	176.1	230.1	224.3	5.85	39.337	
1,700.0	1,696.4	1,666.1	1,655.1	3.3	4.0	-131.31	-61.9	192.1	252.5	246.2	6.26	40.353	
1,800.0	1,796.0	1,763.6	1,751.0	3.6	4.4	-131.22	-69.0	208.0	274.8	268.2	6.67	41.236	
1,900.0	1,895.6	1,861.0	1,846.9	3.8	4.7	-131.15	-76.0	224.0	297.2	290.1	7.07	42.010	
2,000.0	1,995.1	1,958.5	1,942.8	4.0	5.1	-131.09	-83.1	240.0	319.6	312.1	7.48	42.694	
2,100.0	2,094.7	2,056.0	2,038.7	4.3	5.4	-131.04	-90.1	256.0	341.9	334.0	7.90	43.303	
2,200.0	2,194.3	2,153.4	2,134.6	4.5	5.8	-130.99	-97.1	271.9	364.3	356.0	8.31	43.847	
2,300.0	2,293.9	2,250.9	2,230.5	4.7	6.1	-130.95	-104.2	287.9	386.6	377.9	8.72	44.337	
2,400.0	2,393.5	2,348.4	2,326.4	5.0	6.5	-130.91	-111.2	303.9	409.0	399.9	9.13	44.780	
2,500.0	2,493.0	2,445.8	2,422.3	5.2	6.8	-130.88	-118.3	319.8	431.4	421.8	9.55	45.183	
2,600.0	2,592.6	2,543.3	2,518.2	5.4	7.1	-130.85	-125.3	335.8	453.7	443.8	9.96	45.550	
2,700.0	2,692.2	2,640.8	2,614.0	5.7	7.5	-130.82	-132.4	351.8	476.1	465.7	10.37	45.887	
2,800.0	2,791.8	2,738.2	2,709.9	5.9	7.8	-130.80	-139.4	367.7	498.4	487.6	10.79	46.196	
2,900.0	2,891.3	2,835.7	2,805.8	6.1	8.2	-130.78	-146.5	383.7	520.8	509.6	11.20	46.482	
3,000.0	2,990.9	2,933.2	2,901.7	6.4	8.5	-130.76	-153.5	399.7	543.2	531.5	11.62	46.746	
3,100.0	3,090.5	3,030.6	2,997.6	6.6	8.9	-130.74	-160.6	415.6	565.5	553.5	12.03	46.991	
3,200.0	3,190.1	3,128.1	3,093.5	6.8	9.2	-130.72	-167.6	431.6	587.9	575.4	12.45	47.219	
3,300.0	3,289.7	3,225.6	3,189.4	7.1	9.6	-130.70	-174.6	447.6	610.2	597.4	12.87	47.431	
3,400.0	3,389.2	3,323.0	3,285.3	7.3	9.9	-130.69	-181.7	463.5	632.6	619.3	13.28	47.630	
3,500.0	3,488.8	3,420.5	3,381.2	7.6	10.3	-130.68	-188.7	479.5	655.0	641.3	13.70	47.816	
3,600.0	3,588.4	3,518.0	3,477.1	7.8	10.6	-130.66	-195.8	495.5	677.3	663.2	14.11	47.991	
3,700.0	3,688.0	3,615.4	3,573.0	8.0	11.0	-130.65	-202.8	511.5	699.7	685.1	14.53	48.155	
3,800.0	3,787.5	3,712.9	3,668.9	8.3	11.3	-130.64	-209.9	527.4	722.0	707.1	14.95	48.310	
3,900.0	3,887.1	3,810.4	3,764.8	8.5	11.7	-130.63	-216.9	543.4	744.4	729.0	15.36	48.456	
4,000.0	3,986.7	3,907.9	3,860.6	8.7	12.0	-130.62	-224.0	559.4	766.8	751.0	15.78	48.594	
4,100.0	4,086.3	4,005.3	3,956.5	9.0	12.4	-130.61	-231.0	575.3	789.1	772.9	16.20	48.724	
4,200.0	4,185.9	4,102.8	4,052.4	9.2	12.7	-130.60	-238.0	591.3	811.5	794.9	16.61	48.848	
4,300.0	4,285.4	4,200.3	4,148.3	9.4	13.1	-130.59	-245.1	607.3	833.8	816.8	17.03	48.966	
4,400.0	4,385.0	4,297.7	4,244.2	9.7	13.4	-130.58	-252.1	623.2	856.2	838.7	17.45	49.077	
4,500.0	4,484.6	4,395.2	4,340.1	9.9	13.8	-130.57	-259.2	639.2	878.6	860.7	17.86	49.184	
4,600.0	4,584.2	4,492.7	4,436.0	10.1	14.1	-130.57	-266.2	655.2	900.9	882.6	18.28	49.285	
4,700.0	4,683.7	4,590.1	4,531.9	10.4	14.5	-130.56	-273.3	671.1	923.3	904.6	18.70	49.382	
4,800.0	4,783.3	4,687.6	4,627.8	10.6	14.9	-130.55	-280.3	687.1	945.6	926.5	19.11	49.474	
4,900.0	4,882.9	4,785.1	4,723.7	10.9	15.2	-130.55	-287.4	703.1	968.0	948.5	19.53	49.562	
5,000.0	4,982.5	4,882.5	4,819.6	11.1	15.6	-130.54	-294.4	719.1	990.4	970.4	19.95	49.647	

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

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

Offset Design S35-T3N-R67W (Kiyota) - Kiyota 4L-35H-O367 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.36	-0.4	60.1	60.1				
100.0	100.0	100.0	100.0	0.2	0.2	90.36	-0.4	60.1	60.1	59.8	0.30	197.832	
200.0	200.0	200.0	200.0	0.3	0.3	90.36	-0.4	60.1	60.1	59.4	0.65	92.040	CC, ES
300.0	300.0	299.0	299.0	0.5	0.5	90.63	-0.7	60.9	60.9	59.9	1.00	60.843	
400.0	400.0	398.0	397.9	0.7	0.7	91.42	-1.6	63.3	63.3	62.0	1.35	46.849	
500.0	500.0	496.8	496.7	0.8	0.9	92.60	-3.1	67.3	67.4	65.7	1.71	39.469	
600.0	600.0	595.4	595.1	1.0	1.1	-127.97	-5.1	72.9	73.7	71.7	2.04	36.060	
700.0	700.0	693.8	693.1	1.2	1.3	-127.77	-7.8	80.0	82.8	80.4	2.40	34.549	
800.0	799.9	791.6	790.6	1.4	1.5	-128.11	-11.0	88.7	94.5	91.7	2.75	34.353	SF
900.0	899.7	888.9	887.3	1.6	1.7	-128.78	-14.8	98.8	108.9	105.8	3.11	34.994	
1,000.0	999.4	985.5	983.1	1.8	2.0	-129.62	-19.1	110.5	126.0	122.5	3.48	36.184	
1,100.0	1,098.9	1,081.5	1,078.0	2.0	2.3	-130.48	-24.0	123.5	145.5	141.6	3.86	37.682	
1,200.0	1,198.5	1,176.8	1,172.0	2.2	2.6	-130.99	-29.4	137.9	166.6	162.4	4.25	39.235	
1,300.0	1,298.1	1,271.4	1,265.2	2.4	2.9	-131.21	-35.2	153.7	189.2	184.6	4.64	40.821	
1,400.0	1,397.7	1,365.4	1,357.3	2.7	3.3	-131.23	-41.6	170.8	213.4	208.3	5.03	42.429	
1,500.0	1,497.3	1,459.1	1,449.0	2.9	3.6	-131.11	-48.5	189.2	239.0	233.5	5.42	44.054	
1,600.0	1,596.8	1,555.6	1,543.2	3.1	4.0	-130.97	-55.7	208.7	265.1	259.3	5.83	45.490	
1,700.0	1,696.4	1,652.1	1,637.4	3.3	4.4	-130.85	-63.0	228.2	291.3	285.0	6.23	46.728	
1,800.0	1,796.0	1,748.6	1,731.7	3.6	4.8	-130.75	-70.3	247.7	317.4	310.8	6.64	47.805	
1,900.0	1,895.6	1,845.1	1,825.9	3.8	5.2	-130.67	-77.5	267.3	343.6	336.5	7.05	48.750	
2,000.0	1,995.1	1,941.7	1,920.2	4.0	5.6	-130.60	-84.8	286.8	369.7	362.3	7.46	49.585	
2,100.0	2,094.7	2,038.2	2,014.4	4.3	6.0	-130.54	-92.1	306.3	395.9	388.0	7.87	50.328	
2,200.0	2,194.3	2,134.7	2,108.7	4.5	6.4	-130.48	-99.4	325.8	422.0	413.8	8.28	50.993	
2,300.0	2,293.9	2,231.2	2,202.9	4.7	6.8	-130.43	-106.6	345.3	448.2	439.5	8.69	51.591	
2,400.0	2,393.5	2,327.7	2,297.1	5.0	7.2	-130.39	-113.9	364.9	474.3	465.3	9.10	52.133	
2,500.0	2,493.0	2,424.2	2,391.4	5.2	7.6	-130.35	-121.2	384.4	500.5	491.0	9.51	52.625	
2,600.0	2,592.6	2,520.8	2,485.6	5.4	8.0	-130.32	-128.4	403.9	526.7	516.7	9.92	53.075	
2,700.0	2,692.2	2,617.3	2,579.9	5.7	8.4	-130.29	-135.7	423.4	552.8	542.5	10.34	53.486	
2,800.0	2,791.8	2,713.8	2,674.1	5.9	8.8	-130.26	-143.0	443.0	579.0	568.2	10.75	53.865	
2,900.0	2,891.3	2,810.3	2,768.4	6.1	9.2	-130.23	-150.3	462.5	605.1	594.0	11.16	54.214	
3,000.0	2,990.9	2,906.8	2,862.6	6.4	9.6	-130.21	-157.5	482.0	631.3	619.7	11.58	54.537	
3,100.0	3,090.5	3,003.4	2,956.8	6.6	10.0	-130.19	-164.8	501.5	657.4	645.5	11.99	54.837	
3,200.0	3,190.1	3,099.9	3,051.1	6.8	10.4	-130.17	-172.1	521.0	683.6	671.2	12.40	55.116	
3,300.0	3,289.7	3,196.4	3,145.3	7.1	10.8	-130.15	-179.3	540.6	709.8	696.9	12.82	55.376	
3,400.0	3,389.2	3,292.9	3,239.6	7.3	11.2	-130.13	-186.6	560.1	735.9	722.7	13.23	55.620	
3,500.0	3,488.8	3,389.4	3,333.8	7.6	11.6	-130.12	-193.9	579.6	762.1	748.4	13.65	55.847	
3,600.0	3,588.4	3,485.9	3,428.1	7.8	12.0	-130.10	-201.2	599.1	788.2	774.2	14.06	56.061	
3,700.0	3,688.0	3,582.5	3,522.3	8.0	12.4	-130.09	-208.4	618.6	814.4	799.9	14.47	56.263	
3,800.0	3,787.5	3,679.0	3,616.6	8.3	12.8	-130.07	-215.7	638.2	840.6	825.7	14.89	56.452	
3,900.0	3,887.1	3,775.5	3,710.8	8.5	13.3	-130.06	-223.0	657.7	866.7	851.4	15.30	56.631	
4,000.0	3,986.7	3,872.0	3,805.0	8.7	13.7	-130.05	-230.2	677.2	892.9	877.1	15.72	56.800	
4,100.0	4,086.3	3,968.5	3,899.3	9.0	14.1	-130.04	-237.5	696.7	919.0	902.9	16.13	56.961	
4,200.0	4,185.9	4,065.0	3,993.5	9.2	14.5	-130.03	-244.8	716.2	945.2	928.6	16.55	57.112	
4,300.0	4,285.4	4,161.6	4,087.8	9.4	14.9	-130.02	-252.1	735.8	971.3	954.4	16.96	57.257	
4,400.0	4,385.0	4,258.1	4,182.0	9.7	15.3	-130.01	-259.3	755.3	997.5	980.1	17.38	57.394	

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 843-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	1.1	1.1	0.0	0.0	-68.33	192.0	-483.1	519.9				
100.0	100.0	101.3	101.3	0.2	0.2	-68.32	192.1	-483.1	519.9	519.5	0.33	1,590.013	
200.0	200.0	201.5	201.5	0.3	0.4	-68.30	192.2	-483.0	519.8	519.1	0.67	770.410	
300.0	300.0	301.7	301.7	0.5	0.5	-68.26	192.5	-482.7	519.7	518.7	1.02	508.286	
400.0	400.0	401.9	401.9	0.7	0.7	-68.20	192.9	-482.4	519.6	518.2	1.37	379.186	
500.0	500.0	502.1	502.1	0.8	0.9	-68.13	193.5	-482.0	519.4	517.7	1.72	302.328	
600.0	600.0	602.3	602.3	1.0	1.0	70.53	194.1	-481.5	518.9	516.8	2.07	250.556	
700.0	700.0	702.4	702.4	1.2	1.2	70.92	194.8	-481.0	517.8	515.4	2.42	213.776	
800.0	799.9	802.5	802.4	1.4	1.4	71.51	195.7	-480.3	516.1	513.3	2.78	185.776	
900.0	899.7	912.5	912.4	1.6	1.6	72.40	196.6	-478.8	513.3	510.1	3.16	162.367	
1,000.0	999.4	1,023.3	1,023.2	1.8	1.8	73.38	195.0	-475.4	507.6	504.0	3.55	142.809	
1,100.0	1,098.9	1,138.4	1,138.0	2.0	2.0	74.39	190.5	-469.4	498.6	494.7	3.96	125.848	
1,200.0	1,198.5	1,250.2	1,249.4	2.2	2.2	75.22	183.7	-461.8	487.5	483.1	4.37	111.530	
1,300.0	1,298.1	1,360.1	1,358.4	2.4	2.5	75.86	174.0	-452.6	473.6	468.9	4.78	99.110	
1,400.0	1,397.7	1,463.9	1,461.3	2.7	2.7	76.47	164.0	-442.6	458.5	453.3	5.18	88.470	
1,500.0	1,497.3	1,568.0	1,564.3	2.9	3.0	77.30	154.4	-430.8	442.0	436.4	5.59	79.075	
1,600.0	1,596.8	1,679.5	1,674.3	3.1	3.3	78.20	142.9	-416.6	424.0	417.9	6.01	70.515	
1,700.0	1,696.4	1,783.3	1,776.1	3.3	3.6	79.04	130.1	-401.0	402.9	396.5	6.42	62.725	
1,800.0	1,796.0	1,888.8	1,879.3	3.6	4.0	79.94	116.1	-384.2	380.8	373.9	6.84	55.679	
1,900.0	1,895.6	1,987.2	1,975.2	3.8	4.4	80.84	102.0	-367.3	357.0	349.8	7.24	49.306	
2,000.0	1,995.1	2,088.0	2,073.4	4.0	4.8	81.94	87.7	-349.7	333.3	325.7	7.65	43.578	
2,100.0	2,094.7	2,188.1	2,170.6	4.3	5.2	83.20	72.6	-331.1	308.2	300.2	8.06	38.265	
2,200.0	2,194.3	2,282.2	2,261.9	4.5	5.6	84.62	58.5	-313.3	283.1	274.7	8.45	33.497	
2,300.0	2,293.9	2,377.3	2,354.4	4.7	6.0	86.42	45.1	-295.8	259.2	250.3	8.85	29.276	
2,400.0	2,393.5	2,473.2	2,447.8	5.0	6.4	88.63	31.9	-278.5	236.0	226.7	9.26	25.471	
2,500.0	2,493.0	2,573.1	2,545.0	5.2	6.8	91.36	17.8	-260.3	212.8	203.1	9.69	21.957	
2,600.0	2,592.6	2,671.6	2,640.5	5.4	7.3	94.57	2.4	-241.6	188.7	178.6	10.14	18.607	
2,700.0	2,692.2	2,765.4	2,731.5	5.7	7.7	98.37	-12.2	-224.2	165.5	154.9	10.62	15.593	
2,800.0	2,791.8	2,862.1	2,825.5	5.9	8.1	103.29	-26.8	-207.2	144.2	133.1	11.16	12.922	
2,900.0	2,891.3	2,958.8	2,919.5	6.1	8.5	110.22	-41.0	-189.4	124.4	112.6	11.85	10.500	
3,000.0	2,990.9	3,055.4	3,013.5	6.4	8.9	119.47	-55.0	-171.7	107.1	94.4	12.71	8.429	
3,100.0	3,090.5	3,152.1	3,107.5	6.6	9.3	131.56	-69.1	-154.2	93.6	79.9	13.77	6.803	
3,200.0	3,190.1	3,248.4	3,201.3	6.8	9.8	146.43	-82.9	-136.8	86.0	71.1	14.88	5.780	
3,256.2	3,246.1	3,302.8	3,254.2	7.0	10.0	155.39	-90.4	-127.2	84.9	69.4	15.43	5.498	CC, ES
3,300.0	3,289.7	3,345.3	3,295.7	7.1	10.2	162.32	-96.3	-119.9	85.5	69.7	15.81	5.411	SF
3,400.0	3,389.2	3,442.4	3,390.3	7.3	10.6	177.43	-109.9	-102.8	91.7	75.2	16.46	5.572	
3,500.0	3,488.8	3,539.2	3,484.6	7.6	11.0	-169.94	-123.8	-85.7	103.5	86.6	16.88	6.131	
3,600.0	3,588.4	3,635.7	3,578.6	7.8	11.4	-160.39	-137.1	-68.6	119.6	102.4	17.18	6.959	
3,700.0	3,688.0	3,732.2	3,672.5	8.0	11.8	-152.93	-150.8	-51.1	138.4	121.0	17.45	7.932	
3,800.0	3,787.5	3,827.3	3,764.9	8.3	12.3	-147.29	-164.4	-33.2	159.7	142.0	17.71	9.017	
3,900.0	3,887.1	3,923.1	3,857.8	8.5	12.7	-142.81	-178.2	-14.1	183.2	165.2	17.99	10.183	
4,000.0	3,986.7	4,020.1	3,951.9	8.7	13.2	-139.23	-192.6	4.5	206.8	188.5	18.30	11.302	
4,100.0	4,086.3	4,116.2	4,044.9	9.0	13.6	-136.26	-207.3	23.7	231.8	213.1	18.61	12.453	
4,200.0	4,185.9	4,215.3	4,141.2	9.2	14.1	-134.04	-221.6	42.2	255.9	236.9	18.95	13.504	
4,300.0	4,285.4	4,311.8	4,235.1	9.4	14.5	-132.39	-234.9	60.2	280.3	261.0	19.30	14.518	
4,400.0	4,385.0	4,412.3	4,333.0	9.7	14.9	-131.08	-247.9	78.4	304.4	284.7	19.68	15.468	
4,500.0	4,484.6	4,515.1	4,433.7	9.9	15.3	-130.10	-260.5	95.0	326.5	306.4	20.08	16.262	
4,600.0	4,584.2	4,613.2	4,529.8	10.1	15.7	-129.29	-272.5	110.4	348.4	328.0	20.47	17.018	
4,700.0	4,683.7	4,717.7	4,632.5	10.4	16.1	-128.55	-285.0	125.9	369.4	348.6	20.89	17.687	
4,800.0	4,783.3	4,813.1	4,726.2	10.6	16.4	-128.00	-296.1	139.1	389.5	368.2	21.29	18.294	
4,900.0	4,882.9	4,916.7	4,828.2	10.9	16.8	-127.50	-307.9	153.2	409.5	387.7	21.71	18.859	
5,000.0	4,982.5	5,020.2	4,930.3	11.1	17.1	-127.12	-319.0	166.0	428.0	405.9	22.14	19.334	

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

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 843-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,082.1	5,119.5	5,028.5	11.3	17.4	-126.95	-328.4	177.7	446.0	423.4	22.55	19.776	
5,200.0	5,181.6	5,223.8	5,131.8	11.6	17.7	-127.01	-336.5	189.1	463.0	440.0	22.98	20.145	
5,300.0	5,281.2	5,326.1	5,233.3	11.8	18.0	-127.12	-343.8	199.5	479.1	455.7	23.43	20.452	
5,400.0	5,380.8	5,428.9	5,335.4	12.0	18.3	-127.20	-351.4	208.9	494.3	470.4	23.86	20.719	
5,500.0	5,480.4	5,532.7	5,438.6	12.3	18.5	-127.35	-358.3	218.1	509.2	484.9	24.29	20.959	
5,600.0	5,579.9	5,632.1	5,537.5	12.5	18.8	-127.55	-364.3	225.8	522.9	498.1	24.72	21.149	
5,700.0	5,679.5	5,733.9	5,638.8	12.7	19.0	-127.80	-369.9	233.7	536.6	511.4	25.15	21.333	
5,800.0	5,779.1	5,837.0	5,741.5	13.0	19.2	-128.08	-375.1	241.2	549.8	524.2	25.58	21.488	
5,900.0	5,878.7	5,944.6	5,848.9	13.2	19.4	-128.51	-379.1	247.7	561.7	535.7	26.01	21.593	
6,000.0	5,978.3	6,053.1	5,957.2	13.5	19.6	-129.09	-381.4	252.7	572.2	545.7	26.46	21.625	
6,100.0	6,077.8	6,156.2	6,060.2	13.7	19.8	-129.57	-384.1	256.1	581.4	554.5	26.89	21.625	
6,200.0	6,177.4	6,270.5	6,174.5	13.9	19.9	-130.12	-386.6	258.1	589.1	561.8	27.33	21.557	
6,300.0	6,277.0	6,374.4	6,278.3	14.2	20.0	-130.76	-387.2	258.3	595.3	567.5	27.74	21.457	
6,400.0	6,376.6	6,473.4	6,377.3	14.4	20.1	-131.42	-387.2	258.4	601.4	573.2	28.15	21.365	
6,500.0	6,476.2	6,573.3	6,477.3	14.6	20.2	-168.55	-387.0	258.3	607.5	578.9	28.54	21.285	
6,600.0	6,575.8	6,673.3	6,577.3	14.7	20.3	115.95	-386.8	258.4	613.7	585.0	28.73	21.359	
6,700.0	6,673.6	6,772.4	6,676.4	14.7	20.4	104.41	-386.4	258.1	619.9	591.2	28.69	21.610	
6,800.0	6,767.7	6,867.5	6,771.5	14.7	20.5	102.33	-386.1	257.9	627.6	599.1	28.44	22.068	
6,900.0	6,856.3	6,957.3	6,861.3	14.5	20.6	103.04	-385.9	257.4	638.2	610.1	28.05	22.753	
7,000.0	6,937.8	7,037.6	6,941.6	14.4	20.6	104.59	-385.8	257.0	654.4	626.8	27.62	23.694	
7,100.0	7,010.4	7,109.2	7,013.2	14.3	20.7	106.07	-385.7	256.8	678.4	651.1	27.26	24.884	
7,200.0	7,072.7	7,170.8	7,074.8	14.3	20.8	106.82	-385.6	256.7	711.7	684.6	27.13	26.234	
7,300.0	7,123.7	7,221.3	7,125.3	14.5	20.8	106.29	-385.5	256.7	755.3	727.9	27.39	27.575	
7,400.0	7,162.2	7,259.8	7,163.7	14.8	20.9	104.05	-385.4	256.7	808.8	780.7	28.15	28.733	
7,500.0	7,187.5	7,285.3	7,189.2	15.3	20.9	99.69	-385.3	256.8	871.2	841.9	29.34	29.693	
7,600.0	7,199.2	7,297.3	7,201.2	15.9	20.9	92.93	-385.3	256.8	940.7	910.1	30.60	30.745	

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

Offset Design S35-T3N-R67W (Kiyota) - KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 7915-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,500.0	7,200.0	7,168.0	7,168.0	26.8	12.5	90.00	2,045.1	-9.8	944.5	906.1	38.37	24.614	
8,600.0	7,200.0	7,168.0	7,168.0	28.3	12.5	90.00	2,045.1	-9.8	855.2	815.3	39.92	21.426	
8,700.0	7,200.0	7,168.0	7,168.0	29.8	12.5	90.00	2,045.1	-9.8	768.6	727.1	41.48	18.528	
8,800.0	7,200.0	7,168.0	7,168.0	31.4	12.5	90.00	2,045.1	-9.8	685.7	642.6	43.07	15.919	
8,900.0	7,200.0	7,168.0	7,168.0	32.9	12.5	90.00	2,045.1	-9.8	607.9	563.2	44.68	13.606	
9,000.0	7,200.0	7,168.0	7,168.0	34.5	12.5	90.00	2,045.1	-9.8	537.5	491.2	46.30	11.609	
9,100.0	7,200.0	7,168.0	7,168.0	36.1	12.5	90.00	2,045.1	-9.8	477.8	429.9	47.93	9.968	
9,200.0	7,200.0	7,168.0	7,168.0	37.7	12.5	90.00	2,045.1	-9.8	433.2	383.6	49.58	8.738	
9,300.0	7,200.0	7,168.0	7,168.0	39.3	12.5	90.00	2,045.1	-9.8	408.7	357.5	51.23	7.978	
9,353.1	7,200.0	7,168.0	7,168.0	40.2	12.5	90.00	2,045.1	-9.8	405.2	353.1	52.11	7.776	CC, ES
9,400.0	7,200.0	7,168.0	7,168.0	41.0	12.5	90.00	2,045.1	-9.8	407.9	355.0	52.89	7.713	SF
9,500.0	7,200.0	7,168.0	7,168.0	42.6	12.5	90.00	2,045.1	-9.8	431.0	376.5	54.56	7.900	
9,600.0	7,200.0	7,168.0	7,168.0	44.3	12.5	90.00	2,045.1	-9.8	474.5	418.3	56.24	8.437	
9,700.0	7,200.0	7,168.0	7,168.0	45.9	12.5	90.00	2,045.1	-9.8	533.4	475.5	57.92	9.209	
9,800.0	7,200.0	7,168.0	7,168.0	47.6	12.5	90.00	2,045.1	-9.8	603.3	543.6	59.61	10.120	
9,900.0	7,200.0	7,168.0	7,168.0	49.3	12.5	90.00	2,045.1	-9.8	680.7	619.4	61.30	11.103	
10,000.0	7,200.0	7,168.0	7,168.0	51.0	12.5	90.00	2,045.1	-9.8	763.3	700.3	63.00	12.117	
10,100.0	7,200.0	7,168.0	7,168.0	52.7	12.5	90.00	2,045.1	-9.8	849.7	785.0	64.70	13.134	
10,200.0	7,200.0	7,168.0	7,168.0	54.3	12.5	90.00	2,045.1	-9.8	938.8	872.4	66.40	14.139	

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

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

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

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