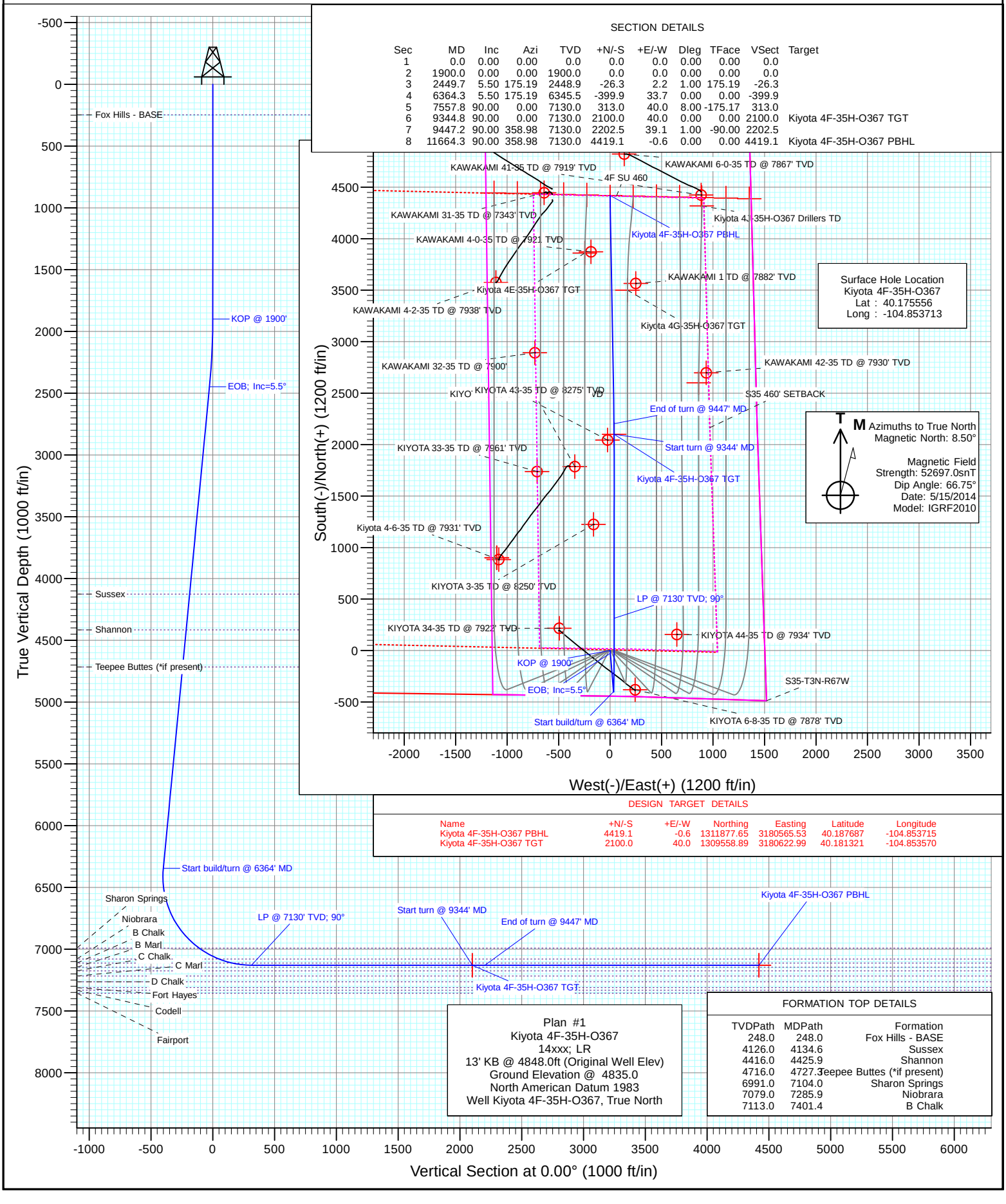
encana natural gas

Project: DJ Wattenberg
Site: S35-T3N-R67W (Kiyota)
Well: Kiyota 4F-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	1900.0	0.00	0.00	1900.0	0.0	0.0	0.00	0.00	0.0	
3	2449.7	5.50	175.19	2448.9	-26.3	2.2	1.00	175.19	-26.3	
4	6364.3	5.50	175.19	6345.5	-399.9	33.7	0.00	0.00	-399.9	
5	7557.8	90.00	0.00	7130.0	313.0	40.0	8.00	-175.17	313.0	
6	9344.8	90.00	0.00	7130.0	2100.0	40.0	0.00	0.00	2100.0	Kiyota 4F-35H-O367 TGT
7	9447.2	90.00	358.98	7130.0	2202.5	39.1	1.00	-90.00	2202.5	
8	11664.3	90.00	358.98	7130.0	4419.1	-0.6	0.00	0.00	4419.1	Kiyota 4F-35H-O367 PBHL



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Kiyota 4F-35H-O367 PBHL	4419.1	-0.6	1311877.65	3180565.53	40.187687	-104.853715
Kiyota 4F-35H-O367 TGT	2100.0	40.0	1309558.89	3180622.99	40.181321	-104.853570

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

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
248.0	248.0	Fox Hills - BASE
4126.0	4134.6	Sussex
4416.0	4425.9	Shannon
4716.0	4727.3	Teepee Buttes (*if present)
6991.0	7104.0	Sharon Springs
7079.0	7285.9	Niobrara
7113.0	7401.4	B Chalk

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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 4F-35H-O367				
Well Position	**+N/-S**	0.0 ft	**Northing:**	1,307,458.65 ft	**Latitude:**	40.175556
	+E/-W	0.0 ft	**Easting:**	3,180,598.29 ft	**Longitude:**	-104.853713
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	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,449.7	5.50	175.19	2,448.9	-26.3	2.2	1.00	1.00	0.00	175.19	
6,364.3	5.50	175.19	6,345.5	-399.9	33.7	0.00	0.00	0.00	0.00	
7,557.8	90.00	0.00	7,130.0	313.0	40.0	8.00	7.08	-14.68	-175.17	
9,344.8	90.00	0.00	7,130.0	2,100.0	40.0	0.00	0.00	0.00	0.00	Kiyota 4F-35H-O367
9,447.2	90.00	358.98	7,130.0	2,202.5	39.1	1.00	0.00	-1.00	-90.00	
11,664.3	90.00	358.98	7,130.0	4,419.1	-0.6	0.00	0.00	0.00	0.00	Kiyota 4F-35H-O367

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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 4F-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	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	KOP @ 1900'
2,000.0	1.00	175.19	2,000.0	-0.9	0.1	-0.9	1.00	1.00	
2,100.0	2.00	175.19	2,100.0	-3.5	0.3	-3.5	1.00	1.00	
2,200.0	3.00	175.19	2,199.9	-7.8	0.7	-7.8	1.00	1.00	
2,300.0	4.00	175.19	2,299.7	-13.9	1.2	-13.9	1.00	1.00	
2,400.0	5.00	175.19	2,399.4	-21.7	1.8	-21.7	1.00	1.00	
2,449.7	5.50	175.19	2,448.9	-26.3	2.2	-26.3	1.00	1.00	EOB; Inc=5.5°
2,500.0	5.50	175.19	2,498.9	-31.1	2.6	-31.1	0.00	0.00	
2,600.0	5.50	175.19	2,598.5	-40.6	3.4	-40.6	0.00	0.00	
2,700.0	5.50	175.19	2,698.0	-50.1	4.2	-50.1	0.00	0.00	
2,800.0	5.50	175.19	2,797.6	-59.7	5.0	-59.7	0.00	0.00	
2,900.0	5.50	175.19	2,897.1	-69.2	5.8	-69.2	0.00	0.00	
3,000.0	5.50	175.19	2,996.6	-78.8	6.6	-78.8	0.00	0.00	
3,100.0	5.50	175.19	3,096.2	-88.3	7.4	-88.3	0.00	0.00	
3,200.0	5.50	175.19	3,195.7	-97.9	8.2	-97.9	0.00	0.00	
3,300.0	5.50	175.19	3,295.3	-107.4	9.0	-107.4	0.00	0.00	
3,400.0	5.50	175.19	3,394.8	-117.0	9.8	-117.0	0.00	0.00	
3,500.0	5.50	175.19	3,494.3	-126.5	10.7	-126.5	0.00	0.00	
3,600.0	5.50	175.19	3,593.9	-136.1	11.5	-136.1	0.00	0.00	
3,700.0	5.50	175.19	3,693.4	-145.6	12.3	-145.6	0.00	0.00	
3,800.0	5.50	175.19	3,793.0	-155.1	13.1	-155.1	0.00	0.00	
3,900.0	5.50	175.19	3,892.5	-164.7	13.9	-164.7	0.00	0.00	
4,000.0	5.50	175.19	3,992.0	-174.2	14.7	-174.2	0.00	0.00	
4,100.0	5.50	175.19	4,091.6	-183.8	15.5	-183.8	0.00	0.00	
4,134.6	5.50	175.19	4,126.0	-187.1	15.7	-187.1	0.00	0.00	Sussex
4,200.0	5.50	175.19	4,191.1	-193.3	16.3	-193.3	0.00	0.00	
4,300.0	5.50	175.19	4,290.7	-202.9	17.1	-202.9	0.00	0.00	
4,400.0	5.50	175.19	4,390.2	-212.4	17.9	-212.4	0.00	0.00	
4,425.9	5.50	175.19	4,416.0	-214.9	18.1	-214.9	0.00	0.00	Shannon
4,500.0	5.50	175.19	4,489.7	-222.0	18.7	-222.0	0.00	0.00	
4,600.0	5.50	175.19	4,589.3	-231.5	19.5	-231.5	0.00	0.00	
4,700.0	5.50	175.19	4,688.8	-241.1	20.3	-241.1	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 4F-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
4,727.3	5.50	175.19	4,716.0	-243.7	20.5	-243.7	0.00	0.00	Teepee Buttes (*if present)
4,800.0	5.50	175.19	4,788.4	-250.6	21.1	-250.6	0.00	0.00	
4,900.0	5.50	175.19	4,887.9	-260.2	21.9	-260.2	0.00	0.00	
5,000.0	5.50	175.19	4,987.4	-269.7	22.7	-269.7	0.00	0.00	
5,100.0	5.50	175.19	5,087.0	-279.2	23.5	-279.2	0.00	0.00	
5,200.0	5.50	175.19	5,186.5	-288.8	24.3	-288.8	0.00	0.00	
5,300.0	5.50	175.19	5,286.1	-298.3	25.1	-298.3	0.00	0.00	
5,400.0	5.50	175.19	5,385.6	-307.9	25.9	-307.9	0.00	0.00	
5,500.0	5.50	175.19	5,485.1	-317.4	26.7	-317.4	0.00	0.00	
5,600.0	5.50	175.19	5,584.7	-327.0	27.5	-327.0	0.00	0.00	
5,700.0	5.50	175.19	5,684.2	-336.5	28.3	-336.5	0.00	0.00	
5,800.0	5.50	175.19	5,783.8	-346.1	29.1	-346.1	0.00	0.00	
5,900.0	5.50	175.19	5,883.3	-355.6	29.9	-355.6	0.00	0.00	
6,000.0	5.50	175.19	5,982.8	-365.2	30.7	-365.2	0.00	0.00	
6,100.0	5.50	175.19	6,082.4	-374.7	31.5	-374.7	0.00	0.00	
6,200.0	5.50	175.19	6,181.9	-384.2	32.3	-384.2	0.00	0.00	
6,300.0	5.50	175.19	6,281.5	-393.8	33.1	-393.8	0.00	0.00	
6,364.3	5.50	175.19	6,345.5	-399.9	33.7	-399.9	0.00	0.00	Start build/turn @ 6364' MD
6,400.0	2.66	170.01	6,381.1	-402.4	34.0	-402.4	8.00	-7.94	
6,500.0	5.40	4.90	6,481.0	-400.0	34.8	-400.0	8.00	2.73	
6,600.0	13.38	1.94	6,579.5	-383.8	35.6	-383.8	8.00	7.99	
6,700.0	21.38	1.18	6,674.9	-353.9	36.3	-353.9	8.00	8.00	
6,800.0	29.38	0.82	6,765.2	-311.1	37.1	-311.1	8.00	8.00	
6,900.0	37.38	0.61	6,848.6	-256.1	37.7	-256.1	8.00	8.00	
7,000.0	45.38	0.46	6,923.6	-190.1	38.3	-190.1	8.00	8.00	
7,100.0	53.38	0.34	6,988.6	-114.2	38.9	-114.2	8.00	8.00	
7,104.0	53.70	0.34	6,991.0	-111.0	38.9	-111.0	8.03	8.03	Sharon Springs
7,200.0	61.38	0.25	7,042.5	-30.1	39.3	-30.1	8.00	8.00	
7,285.9	68.25	0.18	7,079.0	47.6	39.6	47.6	8.00	8.00	Niobrara
7,300.0	69.38	0.17	7,084.1	60.8	39.6	60.8	7.99	7.99	
7,400.0	77.38	0.10	7,112.7	156.5	39.9	156.5	8.00	8.00	
7,401.4	77.49	0.10	7,113.0	157.9	39.9	157.9	8.08	8.08	B Chalk
7,500.0	85.38	0.04	7,127.7	255.3	40.0	255.3	8.00	8.00	
7,557.8	90.00	0.00	7,130.0	313.0	40.0	313.0	8.00	8.00	LP @ 7130' TVD; 90°
7,600.0	90.00	0.00	7,130.0	355.2	40.0	355.2	0.00	0.00	
7,700.0	90.00	0.00	7,130.0	455.2	40.0	455.2	0.00	0.00	
7,800.0	90.00	0.00	7,130.0	555.2	40.0	555.2	0.00	0.00	
7,900.0	90.00	0.00	7,130.0	655.2	40.0	655.2	0.00	0.00	
8,000.0	90.00	0.00	7,130.0	755.2	40.0	755.2	0.00	0.00	
8,100.0	90.00	0.00	7,130.0	855.2	40.0	855.2	0.00	0.00	
8,200.0	90.00	0.00	7,130.0	955.2	40.0	955.2	0.00	0.00	
8,300.0	90.00	0.00	7,130.0	1,055.2	40.0	1,055.2	0.00	0.00	
8,400.0	90.00	0.00	7,130.0	1,155.2	40.0	1,155.2	0.00	0.00	
8,500.0	90.00	0.00	7,130.0	1,255.2	40.0	1,255.2	0.00	0.00	
8,600.0	90.00	0.00	7,130.0	1,355.2	40.0	1,355.2	0.00	0.00	
8,700.0	90.00	0.00	7,130.0	1,455.2	40.0	1,455.2	0.00	0.00	
8,800.0	90.00	0.00	7,130.0	1,555.2	40.0	1,555.2	0.00	0.00	
8,900.0	90.00	0.00	7,130.0	1,655.2	40.0	1,655.2	0.00	0.00	
9,000.0	90.00	0.00	7,130.0	1,755.2	40.0	1,755.2	0.00	0.00	
9,100.0	90.00	0.00	7,130.0	1,855.2	40.0	1,855.2	0.00	0.00	
9,200.0	90.00	0.00	7,130.0	1,955.2	40.0	1,955.2	0.00	0.00	
9,300.0	90.00	0.00	7,130.0	2,055.2	40.0	2,055.2	0.00	0.00	

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Site:	S35-T3N-R67W (Kiyota)	**North Reference:**	True
Well:	Kiyota 4F-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
9,344.8	90.00	0.00	7,130.0	2,100.0	40.0	2,100.0	0.00	0.00	Start turn @ 9344' MD - Kiyota 4F-35H-O367 T
9,400.0	90.00	359.45	7,130.0	2,155.2	39.7	2,155.2	1.00	0.00	
9,447.2	90.00	358.98	7,130.0	2,202.5	39.1	2,202.5	1.00	0.00	End of turn @ 9447' MD
9,500.0	90.00	358.98	7,130.0	2,255.2	38.1	2,255.2	0.00	0.00	
9,600.0	90.00	358.98	7,130.0	2,355.2	36.4	2,355.2	0.00	0.00	
9,700.0	90.00	358.98	7,130.0	2,455.2	34.6	2,455.2	0.00	0.00	
9,800.0	90.00	358.98	7,130.0	2,555.2	32.8	2,555.2	0.00	0.00	
9,900.0	90.00	358.98	7,130.0	2,655.2	31.0	2,655.2	0.00	0.00	
10,000.0	90.00	358.98	7,130.0	2,755.1	29.2	2,755.1	0.00	0.00	
10,100.0	90.00	358.98	7,130.0	2,855.1	27.4	2,855.1	0.00	0.00	
10,200.0	90.00	358.98	7,130.0	2,955.1	25.6	2,955.1	0.00	0.00	
10,300.0	90.00	358.98	7,130.0	3,055.1	23.8	3,055.1	0.00	0.00	
10,400.0	90.00	358.98	7,130.0	3,155.1	22.0	3,155.1	0.00	0.00	
10,500.0	90.00	358.98	7,130.0	3,255.1	20.3	3,255.1	0.00	0.00	
10,600.0	90.00	358.98	7,130.0	3,355.0	18.5	3,355.0	0.00	0.00	
10,700.0	90.00	358.98	7,130.0	3,455.0	16.7	3,455.0	0.00	0.00	
10,800.0	90.00	358.98	7,130.0	3,555.0	14.9	3,555.0	0.00	0.00	
10,900.0	90.00	358.98	7,130.0	3,655.0	13.1	3,655.0	0.00	0.00	
11,000.0	90.00	358.98	7,130.0	3,755.0	11.3	3,755.0	0.00	0.00	
11,100.0	90.00	358.98	7,130.0	3,855.0	9.5	3,855.0	0.00	0.00	
11,200.0	90.00	358.98	7,130.0	3,954.9	7.7	3,954.9	0.00	0.00	
11,300.0	90.00	358.98	7,130.0	4,054.9	6.0	4,054.9	0.00	0.00	
11,400.0	90.00	358.98	7,130.0	4,154.9	4.2	4,154.9	0.00	0.00	
11,500.0	90.00	358.98	7,130.0	4,254.9	2.4	4,254.9	0.00	0.00	
11,600.0	90.00	358.98	7,130.0	4,354.9	0.6	4,354.9	0.00	0.00	
11,664.3	90.00	358.98	7,130.0	4,419.1	-0.6	4,419.1	0.00	0.00	TD at 11664.3 - Kiyota 4F-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 4F-35H-O367 TG - plan hits target center - Point	0.00	0.00	7,130.0	2,100.0	40.0	1,309,558.89	3,180,622.99	40.181321	-104.853570
Kiyota 4F-35H-O367 PB - plan hits target center - Point	0.00	0.00	7,130.0	4,419.1	-0.6	1,311,877.65	3,180,565.53	40.187687	-104.853715

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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			
4,134.6	4,126.0	Sussex			
4,425.9	4,416.0	Shannon			
4,727.3	4,716.0	Teepee Buttes (*if present)			
7,104.0	6,991.0	Sharon Springs			
7,285.9	7,079.0	Niobrara			
7,401.4	7,113.0	B Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,900.0	1,900.0	0.0	0.0	KOP @ 1900'
2,449.7	2,448.9	-26.3	2.2	EOB; Inc=5.5°
6,364.3	6,345.5	-399.9	33.7	Start build/turn @ 6364' MD
7,557.8	7,130.0	313.0	40.0	LP @ 7130' TVD; 90°
9,344.8	7,130.0	2,100.0	40.0	Start turn @ 9344' MD
9,447.2	7,130.0	2,202.5	39.1	End of turn @ 9447' MD
11,664.3	7,130.0	4,419.1	-0.6	TD at 11664.3

EnCana Oil & Gas (USA) Inc

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

Anticollision Report

19 May, 2014

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	11,662.6	Plan #1 (Hz)	Geolink MWD	Geolink MWD

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	10,806.1	7,102.0	234.2	156.5	3.014	CC, ES, SF
KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURV	11,664.3	7,089.0	638.5	546.0	6.902	CC, ES, SF
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - NO S	10,150.1	7,094.0	757.3	690.8	11.398	CC, ES
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - NO S	10,300.0	7,094.0	772.0	703.0	11.188	SF
KAWAKAMI 4-0-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - NO S	11,653.2	7,093.0	884.2	791.9	9.578	CC
KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - NO S	11,664.3	7,093.0	884.3	791.8	9.559	ES, SF
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO S	9,925.9	7,092.0	903.4	840.8	14.428	CC, ES
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO S	10,100.0	7,092.0	920.0	854.4	14.029	SF
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SUR	11,664.3	7,182.3	429.4	335.2	4.556	CC, ES, SF
KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURV	8,983.2	7,117.0	749.4	702.5	15.977	CC
KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURV	9,000.0	7,117.0	749.6	702.4	15.888	ES
KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURV	9,200.0	7,117.0	780.2	729.7	15.456	SF
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,469.5	7,106.0	200.7	162.0	5.185	CC, ES
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,500.0	7,106.0	203.0	163.8	5.182	SF
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	7,460.3	7,109.4	533.7	507.6	20.467	CC, ES
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	7,600.0	7,116.0	551.5	524.3	20.269	SF
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV	9,031.2	7,109.0	382.8	335.2	8.029	CC, ES
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV	9,100.0	7,109.0	389.0	340.2	7.969	SF
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	7,400.5	7,087.8	608.1	582.5	23.721	CC, ES
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	7,500.0	7,102.7	616.1	589.8	23.398	SF
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Kiyota 4A-35H-O367 - Hz - Plan #1	200.0	200.0	37.7	37.1	57.791	CC, ES
Kiyota 4A-35H-O367 - Hz - Plan #1	700.0	695.7	58.4	56.0	24.343	SF
Kiyota 4B-35H-O367 - Hz - Plan #1	300.0	300.0	30.2	29.2	30.124	CC, ES
Kiyota 4B-35H-O367 - Hz - Plan #1	11,664.3	11,914.3	927.5	771.2	5.936	SF
Kiyota 4C-35H-O367 - Hz - Plan #1	400.0	400.0	22.6	21.3	16.755	CC, ES
Kiyota 4C-35H-O367 - Hz - Plan #1	11,664.3	11,677.4	675.5	515.1	4.210	SF
Kiyota 4D-35H-O367 - Hz - Plan #1	500.0	500.0	15.1	13.4	8.876	CC, ES
Kiyota 4D-35H-O367 - Hz - Plan #1	11,664.3	11,733.5	455.8	297.2	2.874	SF
Kiyota 4E-35H-O367 - Hz - Plan #1	600.0	600.0	7.5	5.5	3.682	CC, ES
Kiyota 4E-35H-O367 - Hz - Plan #1	11,664.3	11,886.4	314.9	197.3	2.678	SF
Kiyota 4G-35H-O367 - Hz - Plan #1	700.0	700.0	7.3	4.9	3.030	CC, ES
Kiyota 4G-35H-O367 - Hz - Plan #1	11,000.0	10,967.7	176.0	49.6	1.392	Level 3, SF
Kiyota 4H-35H-O367 - Hz - Plan #1	600.0	600.0	14.8	12.8	7.230	CC, ES
Kiyota 4H-35H-O367 - Hz - Plan #1	11,664.3	11,892.7	501.3	356.7	3.466	SF
Kiyota 4I-35H-O367 - Hz - Plan #1	500.0	500.0	22.4	20.7	13.152	CC, ES
Kiyota 4I-35H-O367 - Hz - Plan #1	11,664.3	11,695.8	675.7	515.9	4.228	SF
Kiyota 4J-35H-O367 - Hz - Plan #1	400.0	400.0	29.9	28.6	22.135	CC, ES
Kiyota 4J-35H-O367 - Hz - Plan #1	11,664.3	11,695.7	899.2	741.3	5.696	SF
Kiyota 4K-35H-O367 - Hz - Plan #1	300.0	300.0	37.4	36.4	37.378	CC, ES
Kiyota 4K-35H-O367 - Hz - Plan #1	700.0	697.0	50.5	48.1	21.083	SF
Kiyota 4L-35H-O367 - Hz - Plan #1	200.0	200.0	45.0	44.3	68.924	CC, ES
Kiyota 4L-35H-O367 - Hz - Plan #1	800.0	793.5	75.0	72.2	27.389	SF
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	4,044.1	4,105.5	28.7	8.6	1.430	Level 3, CC, ES, SF
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,289.9	7,098.0	64.9	12.9	1.249	Level 2, CC, ES, SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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
9,900.0	7,130.0	7,102.0	7,102.0	49.8	12.4	90.00	3,565.2	248.9	935.8	873.6	62.19	15.048	
10,000.0	7,130.0	7,102.0	7,102.0	51.5	12.4	90.00	3,565.2	248.9	839.4	775.5	63.89	13.138	
10,100.0	7,130.0	7,102.0	7,102.0	53.2	12.4	90.00	3,565.2	248.9	743.9	678.3	65.59	11.341	
10,200.0	7,130.0	7,102.0	7,102.0	54.9	12.4	90.00	3,565.2	248.9	649.7	582.4	67.30	9.654	
10,300.0	7,130.0	7,102.0	7,102.0	56.6	12.4	90.00	3,565.2	248.9	557.6	488.6	69.01	8.080	
10,400.0	7,130.0	7,102.0	7,102.0	58.3	12.4	90.00	3,565.2	248.9	468.8	398.0	70.72	6.628	
10,500.0	7,130.0	7,102.0	7,102.0	60.1	12.4	90.00	3,565.2	248.9	385.4	312.9	72.44	5.320	
10,600.0	7,130.0	7,102.0	7,102.0	61.8	12.4	90.00	3,565.2	248.9	311.9	237.8	74.15	4.207	
10,700.0	7,130.0	7,102.0	7,102.0	63.5	12.4	90.00	3,565.2	248.9	257.1	181.2	75.87	3.388	
10,800.0	7,130.0	7,102.0	7,102.0	65.2	12.4	90.00	3,565.2	248.9	234.3	156.7	77.59	3.019	
10,806.1	7,130.0	7,102.0	7,102.0	65.3	12.4	90.00	3,565.2	248.9	234.2	156.5	77.70	3.014	CC, ES, SF
10,900.0	7,130.0	7,102.0	7,102.0	66.9	12.4	90.00	3,565.2	248.9	252.3	173.0	79.32	3.181	
11,000.0	7,130.0	7,102.0	7,102.0	68.7	12.4	90.00	3,565.2	248.9	304.1	223.0	81.04	3.752	
11,100.0	7,130.0	7,102.0	7,102.0	70.4	12.4	90.00	3,565.2	248.9	375.8	293.1	82.77	4.541	
11,200.0	7,130.0	7,102.0	7,102.0	72.1	12.4	90.00	3,565.2	248.9	458.3	373.8	84.49	5.424	
11,300.0	7,130.0	7,102.0	7,102.0	73.8	12.4	90.00	3,565.2	248.9	546.6	460.4	86.22	6.340	
11,400.0	7,130.0	7,102.0	7,102.0	75.6	12.4	90.00	3,565.2	248.9	638.4	550.5	87.95	7.259	
11,500.0	7,130.0	7,102.0	7,102.0	77.3	12.4	90.00	3,565.2	248.9	732.4	642.7	89.68	8.167	
11,600.0	7,130.0	7,102.0	7,102.0	79.0	12.4	90.00	3,565.2	248.9	827.8	736.3	91.41	9.055	
11,664.3	7,130.0	7,102.0	7,102.0	80.1	12.4	90.00	3,565.2	248.9	889.6	797.1	92.53	9.615	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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
11,000.0	7,130.0	7,098.8	7,097.6	68.7	12.5	-90.14	4,447.5	-638.5	949.6	868.6	81.04	11.719	
11,100.0	7,130.0	7,097.3	7,096.1	70.4	12.5	-90.01	4,447.5	-638.4	878.1	795.3	82.76	10.610	
11,200.0	7,130.0	7,095.8	7,094.5	72.1	12.5	-89.87	4,447.5	-638.4	812.5	728.0	84.48	9.617	
11,300.0	7,130.0	7,094.3	7,093.0	73.8	12.5	-89.73	4,447.6	-638.4	754.6	668.4	86.21	8.753	
11,400.0	7,130.0	7,092.8	7,091.6	75.6	12.5	-89.60	4,447.6	-638.4	706.1	618.1	87.94	8.030	
11,500.0	7,130.0	7,091.3	7,090.1	77.3	12.5	-89.47	4,447.6	-638.4	669.1	579.5	89.66	7.463	
11,600.0	7,130.0	7,089.9	7,088.7	79.0	12.5	-89.34	4,447.6	-638.3	645.7	554.3	91.39	7.065	
11,664.3	7,130.0	7,089.0	7,087.8	80.1	12.5	-89.26	4,447.6	-638.3	638.5	546.0	92.50	6.902	CC, ES, SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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
9,500.0	7,130.0	7,094.0	7,094.0	43.1	12.4	-90.00	2,891.7	-730.6	998.1	942.6	55.42	18.008	
9,600.0	7,130.0	7,094.0	7,094.0	44.7	12.4	-90.00	2,891.7	-730.6	936.0	878.9	57.10	16.391	
9,700.0	7,130.0	7,094.0	7,094.0	46.4	12.4	-90.00	2,891.7	-730.6	881.0	822.2	58.79	14.985	
9,800.0	7,130.0	7,094.0	7,094.0	48.1	12.4	-90.00	2,891.7	-730.6	834.3	773.8	60.48	13.794	
9,900.0	7,130.0	7,094.0	7,094.0	49.8	12.4	-90.00	2,891.7	-730.6	797.5	735.3	62.18	12.826	
10,000.0	7,130.0	7,094.0	7,094.0	51.5	12.4	-90.00	2,891.7	-730.6	772.0	708.1	63.88	12.086	
10,100.0	7,130.0	7,094.0	7,094.0	53.2	12.4	-90.00	2,891.7	-730.6	758.9	693.3	65.58	11.572	
10,150.1	7,130.0	7,094.0	7,094.0	54.1	12.4	-90.00	2,891.7	-730.6	757.3	690.8	66.44	11.398	CC, ES
10,200.0	7,130.0	7,094.0	7,094.0	54.9	12.4	-90.00	2,891.7	-730.6	758.9	691.6	67.29	11.279	
10,300.0	7,130.0	7,094.0	7,094.0	56.6	12.4	-90.00	2,891.7	-730.6	772.0	703.0	69.00	11.188	SF
10,400.0	7,130.0	7,094.0	7,094.0	58.3	12.4	-90.00	2,891.7	-730.6	797.4	726.7	70.71	11.278	
10,500.0	7,130.0	7,094.0	7,094.0	60.1	12.4	-90.00	2,891.7	-730.6	834.2	761.8	72.42	11.518	
10,600.0	7,130.0	7,094.0	7,094.0	61.8	12.4	-90.00	2,891.7	-730.6	880.8	806.7	74.14	11.880	
10,700.0	7,130.0	7,094.0	7,094.0	63.5	12.4	-90.00	2,891.7	-730.6	935.8	860.0	75.86	12.337	
10,800.0	7,130.0	7,094.0	7,094.0	65.2	12.4	-90.00	2,891.7	-730.6	997.9	920.3	77.58	12.863	

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

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 7919-Geolink MWD

Offset Well Error: 0.0 ft

Reference 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
11,200.0	7,130.0	7,093.0	7,093.0	72.1	12.4	90.00	4,423.9	883.7	993.6	909.1	84.48	11.762	
11,300.0	7,130.0	7,093.0	7,093.0	73.8	12.4	90.00	4,423.9	883.7	952.1	865.9	86.20	11.045	
11,400.0	7,130.0	7,093.0	7,093.0	75.6	12.4	90.00	4,423.9	883.7	919.7	831.8	87.93	10.459	
11,500.0	7,130.0	7,093.0	7,093.0	77.3	12.4	90.00	4,423.9	883.7	897.4	807.7	89.66	10.008	
11,600.0	7,130.0	7,093.0	7,093.0	79.0	12.4	90.00	4,423.9	883.7	885.8	794.4	91.40	9.692	
11,653.2	7,130.0	7,093.0	7,093.0	79.9	12.4	90.00	4,423.9	883.7	884.2	791.9	92.32	9.578	CC
11,664.3	7,130.0	7,093.0	7,093.0	80.1	12.4	90.00	4,423.9	883.7	884.3	791.8	92.51	9.559	ES, SF

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

Offset Design S35-T3N-R67W (Kiyota) - KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 7930-Geolink MWD

Offset Well Error: 0.0 ft

Reference 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
9,500.0	7,130.0	7,092.0	7,092.0	43.1	12.4	90.00	2,697.2	933.8	998.7	943.3	55.42	18.021	
9,600.0	7,130.0	7,092.0	7,092.0	44.7	12.4	90.00	2,697.2	933.8	960.4	903.3	57.10	16.819	
9,700.0	7,130.0	7,092.0	7,092.0	46.4	12.4	90.00	2,697.2	933.8	931.2	872.4	58.79	15.840	
9,800.0	7,130.0	7,092.0	7,092.0	48.1	12.4	90.00	2,697.2	933.8	912.1	851.6	60.48	15.082	
9,900.0	7,130.0	7,092.0	7,092.0	49.8	12.4	90.00	2,697.2	933.8	903.8	841.6	62.17	14.536	
9,925.9	7,130.0	7,092.0	7,092.0	50.3	12.4	90.00	2,697.2	933.8	903.4	840.8	62.61	14.428	CC, ES
10,000.0	7,130.0	7,092.0	7,092.0	51.5	12.4	90.00	2,697.2	933.8	906.4	842.5	63.87	14.191	
10,100.0	7,130.0	7,092.0	7,092.0	53.2	12.4	90.00	2,697.2	933.8	920.0	854.4	65.58	14.029	SF
10,200.0	7,130.0	7,092.0	7,092.0	54.9	12.4	90.00	2,697.2	933.8	944.1	876.8	67.28	14.031	
10,300.0	7,130.0	7,092.0	7,092.0	56.6	12.4	90.00	2,697.2	933.8	977.8	908.8	68.99	14.172	

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 4F-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 4F-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
11,100.0	7,130.0	7,187.1	7,121.7	70.4	19.2	93.78	4,821.6	148.9	976.7	892.3	84.41	11.571	
11,200.0	7,130.0	7,186.2	7,120.9	72.1	19.2	93.45	4,821.6	148.9	878.2	792.0	86.16	10.193	
11,300.0	7,130.0	7,185.3	7,120.0	73.8	19.2	93.14	4,821.6	148.9	780.0	692.1	87.90	8.873	
11,400.0	7,130.0	7,184.5	7,119.2	75.6	19.2	92.83	4,821.6	148.9	682.3	592.7	89.65	7.611	
11,500.0	7,130.0	7,183.7	7,118.3	77.3	19.2	92.53	4,821.7	148.9	585.5	494.1	91.39	6.406	
11,600.0	7,130.0	7,182.8	7,117.5	79.0	19.2	92.24	4,821.7	148.9	489.8	396.7	93.13	5.260	
11,664.3	7,130.0	7,182.3	7,117.0	80.1	19.2	92.05	4,821.7	149.0	429.4	335.2	94.25	4.556	CC, ES, SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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
8,400.0	7,130.0	7,117.0	7,117.0	25.2	12.4	-90.00	1,738.4	-709.4	949.6	911.9	37.65	25.220	
8,500.0	7,130.0	7,117.0	7,117.0	26.8	12.4	-90.00	1,738.4	-709.4	891.7	852.5	39.19	22.754	
8,600.0	7,130.0	7,117.0	7,117.0	28.3	12.4	-90.00	1,738.4	-709.4	841.7	800.9	40.75	20.655	
8,700.0	7,130.0	7,117.0	7,117.0	29.9	12.4	-90.00	1,738.4	-709.4	801.1	758.8	42.33	18.924	
8,800.0	7,130.0	7,117.0	7,117.0	31.5	12.4	-90.00	1,738.4	-709.4	771.5	727.6	43.94	17.559	
8,900.0	7,130.0	7,117.0	7,117.0	33.1	12.4	-90.00	1,738.4	-709.4	754.0	708.5	45.55	16.553	
8,983.2	7,130.0	7,117.0	7,117.0	34.5	12.4	-90.00	1,738.4	-709.4	749.4	702.5	46.91	15.977	CC
9,000.0	7,130.0	7,117.0	7,117.0	34.8	12.4	-90.00	1,738.4	-709.4	749.6	702.4	47.18	15.888	ES
9,100.0	7,130.0	7,117.0	7,117.0	36.4	12.4	-90.00	1,738.4	-709.4	758.5	709.7	48.82	15.535	
9,200.0	7,130.0	7,117.0	7,117.0	38.1	12.4	-90.00	1,738.4	-709.4	780.2	729.7	50.48	15.456	SF
9,300.0	7,130.0	7,117.0	7,117.0	39.7	12.4	-90.00	1,738.4	-709.4	813.7	761.5	52.14	15.606	
9,400.0	7,130.0	7,117.0	7,117.0	41.4	12.4	-90.00	1,738.4	-709.4	857.3	803.5	53.80	15.936	
9,500.0	7,130.0	7,117.0	7,117.0	43.1	12.4	-90.00	1,738.4	-709.4	908.8	853.4	55.46	16.386	
9,600.0	7,130.0	7,117.0	7,117.0	44.7	12.4	-90.00	1,738.4	-709.4	967.8	910.7	57.14	16.936	

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 4F-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 4F-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
7,500.0	7,127.7	7,103.7	7,103.7	14.0	12.4	-68.79	1,224.7	-160.7	990.0	964.8	25.17	39.337	
7,600.0	7,130.0	7,106.0	7,106.0	14.8	12.4	-90.00	1,224.7	-160.7	892.4	865.2	27.19	32.817	
7,700.0	7,130.0	7,106.0	7,106.0	15.8	12.4	-90.00	1,224.7	-160.7	795.2	767.0	28.20	28.205	
7,800.0	7,130.0	7,106.0	7,106.0	16.9	12.4	-90.00	1,224.7	-160.7	698.9	669.6	29.32	23.837	
7,900.0	7,130.0	7,106.0	7,106.0	18.2	12.4	-90.00	1,224.7	-160.7	603.8	573.3	30.55	19.766	
8,000.0	7,130.0	7,106.0	7,106.0	19.5	12.4	-90.00	1,224.7	-160.7	510.6	478.7	31.86	16.029	
8,100.0	7,130.0	7,106.0	7,106.0	20.8	12.4	-90.00	1,224.7	-160.7	420.5	387.2	33.23	12.654	
8,200.0	7,130.0	7,106.0	7,106.0	22.3	12.4	-90.00	1,224.7	-160.7	336.0	301.4	34.65	9.696	
8,300.0	7,130.0	7,106.0	7,106.0	23.7	12.4	-90.00	1,224.7	-160.7	262.7	226.6	36.13	7.271	
8,400.0	7,130.0	7,106.0	7,106.0	25.2	12.4	-90.00	1,224.7	-160.7	212.4	174.7	37.63	5.643	
8,469.5	7,130.0	7,106.0	7,106.0	26.3	12.4	-90.00	1,224.7	-160.7	200.7	162.0	38.70	5.185	CC, ES
8,500.0	7,130.0	7,106.0	7,106.0	26.8	12.4	-90.00	1,224.7	-160.7	203.0	163.8	39.17	5.182	SF
8,600.0	7,130.0	7,106.0	7,106.0	28.3	12.4	-90.00	1,224.7	-160.7	239.4	198.6	40.73	5.877	
8,700.0	7,130.0	7,106.0	7,106.0	29.9	12.4	-90.00	1,224.7	-160.7	305.6	263.3	42.31	7.222	
8,800.0	7,130.0	7,106.0	7,106.0	31.5	12.4	-90.00	1,224.7	-160.7	386.6	342.7	43.92	8.804	
8,900.0	7,130.0	7,106.0	7,106.0	33.1	12.4	-90.00	1,224.7	-160.7	475.0	429.4	45.53	10.431	
9,000.0	7,130.0	7,106.0	7,106.0	34.8	12.4	-90.00	1,224.7	-160.7	567.2	520.0	47.16	12.026	
9,100.0	7,130.0	7,106.0	7,106.0	36.4	12.4	-90.00	1,224.7	-160.7	661.7	612.9	48.81	13.557	
9,200.0	7,130.0	7,106.0	7,106.0	38.1	12.4	-90.00	1,224.7	-160.7	757.6	707.1	50.46	15.014	
9,300.0	7,130.0	7,106.0	7,106.0	39.7	12.4	-90.00	1,224.7	-160.7	854.4	802.3	52.12	16.393	
9,400.0	7,130.0	7,106.0	7,106.0	41.4	12.4	-90.00	1,224.7	-160.7	951.8	898.0	53.78	17.699	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	-66.33	216.4	-493.8	539.3				
100.0	100.0	86.0	86.0	0.2	0.2	-66.33	216.4	-493.8	539.1	538.8	0.30	1,784.330	
200.0	200.0	186.0	186.0	0.3	0.3	-66.33	216.4	-493.8	539.1	538.4	0.65	827.854	
300.0	300.0	286.0	286.0	0.5	0.5	-66.33	216.4	-493.8	539.1	538.1	1.00	538.953	
400.0	400.0	386.0	386.0	0.7	0.7	-66.33	216.4	-493.8	539.1	537.7	1.35	399.527	
500.0	500.0	486.0	486.0	0.8	0.8	-66.33	216.4	-493.8	539.1	537.4	1.70	317.413	
600.0	600.0	586.0	586.0	1.0	1.0	-66.33	216.4	-493.8	539.1	537.0	2.05	263.298	
700.0	700.0	686.0	686.0	1.2	1.2	-66.33	216.4	-493.8	539.1	536.7	2.40	224.947	
800.0	800.0	786.0	786.0	1.4	1.4	-66.33	216.4	-493.8	539.1	536.3	2.75	196.348	
900.0	900.0	886.0	886.0	1.5	1.5	-66.33	216.4	-493.8	539.1	536.0	3.09	174.201	
1,000.0	1,000.0	986.0	986.0	1.7	1.7	-66.33	216.4	-493.8	539.1	535.6	3.44	156.543	
1,100.0	1,100.0	1,086.0	1,086.0	1.9	1.9	-66.33	216.4	-493.8	539.1	535.3	3.79	142.136	
1,200.0	1,200.0	1,186.0	1,186.0	2.1	2.1	-66.33	216.4	-493.8	539.1	534.9	4.14	130.157	
1,300.0	1,300.0	1,286.0	1,286.0	2.2	2.2	-66.33	216.4	-493.8	539.1	534.6	4.49	120.040	
1,400.0	1,400.0	1,386.0	1,386.0	2.4	2.4	-66.33	216.4	-493.8	539.1	534.2	4.84	111.383	
1,500.0	1,500.0	1,486.0	1,486.0	2.6	2.6	-66.33	216.4	-493.8	539.1	533.9	5.19	103.890	
1,600.0	1,600.0	1,586.0	1,586.0	2.8	2.8	-66.33	216.4	-493.8	539.1	533.5	5.54	97.342	
1,700.0	1,700.0	1,686.0	1,686.0	2.9	2.9	-66.33	216.4	-493.8	539.1	533.2	5.89	91.570	
1,800.0	1,800.0	1,786.0	1,786.0	3.1	3.1	-66.33	216.4	-493.8	539.1	532.9	6.24	86.445	
1,900.0	1,900.0	1,886.0	1,886.0	3.3	3.3	-66.33	216.4	-493.8	539.1	532.5	6.59	81.863	
2,000.0	2,000.0	1,986.0	1,986.0	3.5	3.5	118.55	216.4	-493.8	539.5	532.6	6.93	77.803	
2,100.0	2,100.0	2,085.9	2,085.9	3.6	3.6	118.79	216.4	-493.8	540.8	533.5	7.28	74.244	
2,200.0	2,199.9	2,185.9	2,185.9	3.8	3.8	119.17	216.4	-493.8	542.9	535.2	7.63	71.113	
2,300.0	2,299.7	2,285.7	2,285.7	4.0	4.0	119.70	216.4	-493.8	545.9	537.9	7.99	68.348	
2,400.0	2,399.4	2,385.4	2,385.4	4.2	4.2	120.38	216.4	-493.8	549.8	541.5	8.34	65.901	
2,500.0	2,498.9	2,484.9	2,484.9	4.4	4.3	121.19	216.4	-493.8	554.6	545.9	8.70	63.720	
2,600.0	2,598.5	2,584.5	2,584.5	4.6	4.5	122.03	216.4	-493.8	559.7	550.6	9.07	61.712	
2,700.0	2,698.0	2,684.0	2,684.0	4.8	4.7	122.85	216.4	-493.8	564.8	555.4	9.44	59.858	
2,800.0	2,797.5	2,783.5	2,783.5	5.0	4.9	123.65	216.4	-493.8	570.1	560.3	9.80	58.145	
2,900.0	2,897.1	2,883.1	2,883.1	5.2	5.0	124.45	216.4	-493.8	575.5	565.3	10.17	56.559	
3,000.0	2,996.6	2,982.6	2,982.6	5.4	5.2	125.22	216.4	-493.8	581.0	570.4	10.55	55.089	
3,100.0	3,096.2	3,082.2	3,082.2	5.6	5.4	125.99	216.4	-493.8	586.6	575.6	10.92	53.726	
3,200.0	3,195.7	3,181.7	3,181.7	5.8	5.6	126.73	216.4	-493.8	592.2	581.0	11.29	52.459	
3,300.0	3,295.2	3,281.2	3,281.2	6.1	5.7	127.47	216.4	-493.8	598.0	586.4	11.66	51.280	
3,400.0	3,394.8	3,380.8	3,380.8	6.3	5.9	128.19	216.4	-493.8	603.9	591.9	12.03	50.182	
3,500.0	3,494.3	3,480.3	3,480.3	6.5	6.1	128.89	216.4	-493.8	609.9	597.5	12.41	49.157	
3,600.0	3,593.9	3,579.9	3,579.9	6.7	6.2	129.58	216.4	-493.8	616.0	603.2	12.78	48.200	
3,700.0	3,693.4	3,679.4	3,679.4	7.0	6.4	130.26	216.4	-493.8	622.2	609.0	13.15	47.305	
3,800.0	3,792.9	3,778.9	3,778.9	7.2	6.6	130.93	216.4	-493.8	628.4	614.9	13.52	46.466	
3,900.0	3,892.5	3,878.5	3,878.5	7.4	6.8	131.58	216.4	-493.8	634.7	620.8	13.90	45.680	
4,000.0	3,992.0	3,978.0	3,978.0	7.6	6.9	132.22	216.4	-493.8	641.2	626.9	14.27	44.942	
4,100.0	4,091.6	4,077.6	4,077.6	7.9	7.1	132.84	216.4	-493.8	647.6	633.0	14.64	44.248	
4,200.0	4,191.1	4,177.1	4,177.1	8.1	7.3	133.46	216.4	-493.8	654.2	639.2	15.01	43.595	
4,300.0	4,290.6	4,276.6	4,276.6	8.3	7.5	134.06	216.4	-493.8	660.9	645.5	15.38	42.979	
4,400.0	4,390.2	4,376.2	4,376.2	8.5	7.6	134.65	216.4	-493.8	667.6	651.8	15.74	42.399	
4,500.0	4,489.7	4,475.7	4,475.7	8.8	7.8	135.22	216.4	-493.8	674.3	658.2	16.11	41.851	
4,600.0	4,589.3	4,575.3	4,575.3	9.0	8.0	135.79	216.4	-493.8	681.2	664.7	16.48	41.334	
4,700.0	4,688.8	4,674.8	4,674.8	9.2	8.2	136.35	216.4	-493.8	688.1	671.3	16.85	40.844	
4,800.0	4,788.3	4,774.3	4,774.3	9.5	8.3	136.89	216.4	-493.8	695.1	677.9	17.21	40.380	
4,900.0	4,887.9	4,873.9	4,873.9	9.7	8.5	137.42	216.4	-493.8	702.1	684.5	17.58	39.941	
5,000.0	4,987.4	4,973.4	4,973.4	9.9	8.7	137.95	216.4	-493.8	709.2	691.3	17.94	39.524	
5,100.0	5,087.0	5,073.0	5,073.0	10.2	8.9	138.46	216.4	-493.8	716.4	698.1	18.31	39.128	

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 4F-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 4F-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
5,200.0	5,186.5	5,172.5	5,172.5	10.4	9.0	138.96	216.4	-493.8	723.6	704.9	18.67	38.752	
5,300.0	5,286.0	5,272.0	5,272.0	10.6	9.2	139.45	216.4	-493.8	730.9	711.8	19.04	38.394	
5,400.0	5,385.6	5,371.6	5,371.6	10.9	9.4	139.93	216.4	-493.8	738.2	718.8	19.40	38.054	
5,500.0	5,485.1	5,471.1	5,471.1	11.1	9.5	140.41	216.4	-493.8	745.5	725.8	19.76	37.730	
5,600.0	5,584.7	5,570.7	5,570.7	11.3	9.7	140.87	216.4	-493.8	753.0	732.8	20.12	37.421	
5,700.0	5,684.2	5,670.2	5,670.2	11.6	9.9	141.33	216.4	-493.8	760.4	740.0	20.48	37.127	
5,800.0	5,783.8	5,769.7	5,769.7	11.8	10.1	141.77	216.4	-493.8	768.0	747.1	20.84	36.845	
5,900.0	5,883.3	5,869.3	5,869.3	12.1	10.2	142.21	216.4	-493.8	775.5	754.3	21.20	36.577	
6,000.0	5,982.8	5,968.8	5,968.8	12.3	10.4	142.64	216.4	-493.8	783.1	761.6	21.56	36.320	
6,100.0	6,082.4	6,068.4	6,068.4	12.5	10.6	143.06	216.4	-493.8	790.8	768.8	21.92	36.075	
6,200.0	6,181.9	6,167.9	6,167.9	12.8	10.8	143.47	216.4	-493.8	798.5	776.2	22.28	35.840	
6,300.0	6,281.5	6,267.4	6,267.4	13.0	10.9	143.87	216.4	-493.8	806.2	783.6	22.64	35.615	
6,400.0	6,381.1	6,367.1	6,367.1	13.2	11.1	149.51	216.4	-493.8	813.3	790.3	23.00	35.356	
6,500.0	6,480.9	6,466.9	6,466.9	13.3	11.3	-45.64	216.4	-493.8	812.0	788.7	23.27	34.899	
6,600.0	6,579.5	6,565.5	6,565.5	13.3	11.5	-44.14	216.4	-493.8	800.2	776.9	23.37	34.245	
6,700.0	6,674.9	6,660.9	6,660.9	13.2	11.6	-46.13	216.4	-493.8	778.6	755.3	23.35	33.344	
6,800.0	6,765.2	6,751.1	6,751.1	13.0	11.8	-49.92	216.4	-493.8	748.3	725.0	23.30	32.112	
6,900.0	6,848.6	6,834.6	6,834.6	12.8	11.9	-55.33	216.4	-493.8	711.2	687.8	23.34	30.468	
7,000.0	6,923.6	6,909.6	6,909.6	12.6	12.1	-62.18	216.4	-493.8	669.6	646.0	23.56	28.416	
7,100.0	6,988.6	6,974.6	6,974.6	12.5	12.2	-69.93	216.4	-493.8	626.9	602.9	23.98	26.138	
7,200.0	7,042.5	7,028.5	7,028.5	12.6	12.3	-77.65	216.4	-493.8	587.3	562.8	24.51	23.958	
7,300.0	7,084.1	7,070.1	7,070.1	12.8	12.3	-84.20	216.4	-493.8	555.6	530.6	25.06	22.170	
7,400.0	7,112.7	7,098.7	7,098.7	13.3	12.4	-88.62	216.4	-493.8	537.0	511.3	25.65	20.937	
7,460.3	7,123.4	7,109.4	7,109.4	13.7	12.4	-90.00	216.4	-493.8	533.7	507.6	26.08	20.467	CC, ES
7,500.0	7,127.7	7,113.7	7,113.7	14.0	12.4	-90.34	216.4	-493.8	535.1	508.8	26.35	20.309	
7,600.0	7,130.0	7,116.0	7,116.0	14.8	12.4	-90.00	216.4	-493.8	551.5	524.3	27.21	20.269	SF
7,700.0	7,130.0	7,116.0	7,116.0	15.8	12.4	-90.00	216.4	-493.8	584.7	556.5	28.21	20.726	
7,800.0	7,130.0	7,116.0	7,116.0	16.9	12.4	-90.00	216.4	-493.8	632.2	602.9	29.34	21.548	
7,900.0	7,130.0	7,116.0	7,116.0	18.2	12.4	-90.00	216.4	-493.8	691.0	660.4	30.57	22.607	
8,000.0	7,130.0	7,116.0	7,116.0	19.5	12.4	-90.00	216.4	-493.8	758.4	726.6	31.87	23.796	
8,100.0	7,130.0	7,116.0	7,116.0	20.8	12.4	-90.00	216.4	-493.8	832.5	799.2	33.25	25.040	
8,200.0	7,130.0	7,116.0	7,116.0	22.3	12.4	-90.00	216.4	-493.8	911.5	876.8	34.67	26.288	
8,300.0	7,130.0	7,116.0	7,116.0	23.7	12.4	-90.00	216.4	-493.8	994.2	958.1	36.14	27.509	

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 4F-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 4F-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	7,130.0	7,109.0	7,109.0	22.3	12.4	-90.00	1,786.4	-342.8	915.2	880.5	34.66	26.404	
8,300.0	7,130.0	7,109.0	7,109.0	23.7	12.4	-90.00	1,786.4	-342.8	825.4	789.3	36.13	22.845	
8,400.0	7,130.0	7,109.0	7,109.0	25.2	12.4	-90.00	1,786.4	-342.8	738.3	700.6	37.64	19.615	
8,500.0	7,130.0	7,109.0	7,109.0	26.8	12.4	-90.00	1,786.4	-342.8	654.8	615.6	39.17	16.715	
8,600.0	7,130.0	7,109.0	7,109.0	28.3	12.4	-90.00	1,786.4	-342.8	576.7	535.9	40.74	14.156	
8,700.0	7,130.0	7,109.0	7,109.0	29.9	12.4	-90.00	1,786.4	-342.8	506.2	463.9	42.32	11.962	
8,800.0	7,130.0	7,109.0	7,109.0	31.5	12.4	-90.00	1,786.4	-342.8	447.3	403.3	43.92	10.183	
8,900.0	7,130.0	7,109.0	7,109.0	33.1	12.4	-90.00	1,786.4	-342.8	404.7	359.2	45.54	8.887	
9,000.0	7,130.0	7,109.0	7,109.0	34.8	12.4	-90.00	1,786.4	-342.8	384.1	336.9	47.17	8.143	
9,031.2	7,130.0	7,109.0	7,109.0	35.3	12.4	-90.00	1,786.4	-342.8	382.8	335.2	47.68	8.029	CC, ES
9,100.0	7,130.0	7,109.0	7,109.0	36.4	12.4	-90.00	1,786.4	-342.8	389.0	340.2	48.81	7.969	SF
9,200.0	7,130.0	7,109.0	7,109.0	38.1	12.4	-90.00	1,786.4	-342.8	418.4	367.9	50.46	8.291	
9,300.0	7,130.0	7,109.0	7,109.0	39.7	12.4	-90.00	1,786.4	-342.8	467.8	415.6	52.12	8.974	
9,400.0	7,130.0	7,109.0	7,109.0	41.4	12.4	-90.00	1,786.4	-342.8	531.4	477.6	53.78	9.880	
9,500.0	7,130.0	7,109.0	7,109.0	43.1	12.4	-90.00	1,786.4	-342.8	604.0	548.6	55.45	10.894	
9,600.0	7,130.0	7,109.0	7,109.0	44.7	12.4	-90.00	1,786.4	-342.8	683.6	626.4	57.13	11.965	
9,700.0	7,130.0	7,109.0	7,109.0	46.4	12.4	-90.00	1,786.4	-342.8	767.9	709.1	58.82	13.055	
9,800.0	7,130.0	7,109.0	7,109.0	48.1	12.4	-90.00	1,786.4	-342.8	855.6	795.1	60.51	14.140	
9,900.0	7,130.0	7,109.0	7,109.0	49.8	12.4	-90.00	1,786.4	-342.8	945.7	883.5	62.20	15.203	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	76.47	155.9	648.0	667.0				
100.0	100.0	75.0	75.0	0.2	0.1	76.47	155.9	648.0	666.5	666.2	0.28	2,355.733	
200.0	200.0	175.0	175.0	0.3	0.3	76.47	155.9	648.0	666.5	665.9	0.63	1,054.601	
300.0	300.0	275.0	275.0	0.5	0.5	76.47	155.9	648.0	666.5	665.5	0.98	679.368	
400.0	400.0	375.0	375.0	0.7	0.7	76.47	155.9	648.0	666.5	665.2	1.33	501.081	
500.0	500.0	475.0	475.0	0.8	0.8	76.47	155.9	648.0	666.5	664.8	1.68	396.917	
600.0	600.0	575.0	575.0	1.0	1.0	76.47	155.9	648.0	666.5	664.5	2.03	328.607	
700.0	700.0	675.0	675.0	1.2	1.2	76.47	155.9	648.0	666.5	664.1	2.38	280.357	
800.0	800.0	775.0	775.0	1.4	1.4	76.47	155.9	648.0	666.5	663.8	2.73	244.463	
900.0	900.0	875.0	875.0	1.5	1.5	76.47	155.9	648.0	666.5	663.4	3.08	216.716	
1,000.0	1,000.0	975.0	975.0	1.7	1.7	76.47	155.9	648.0	666.5	663.1	3.42	194.626	
1,100.0	1,100.0	1,075.0	1,075.0	1.9	1.9	76.47	155.9	648.0	666.5	662.7	3.77	176.622	
1,200.0	1,200.0	1,175.0	1,175.0	2.1	2.1	76.47	155.9	648.0	666.5	662.4	4.12	161.668	
1,300.0	1,300.0	1,275.0	1,275.0	2.2	2.2	76.47	155.9	648.0	666.5	662.0	4.47	149.048	
1,400.0	1,400.0	1,375.0	1,375.0	2.4	2.4	76.47	155.9	648.0	666.5	661.7	4.82	138.255	
1,500.0	1,500.0	1,475.0	1,475.0	2.6	2.6	76.47	155.9	648.0	666.5	661.3	5.17	128.921	
1,600.0	1,600.0	1,575.0	1,575.0	2.8	2.7	76.47	155.9	648.0	666.5	661.0	5.52	120.766	
1,700.0	1,700.0	1,675.0	1,675.0	2.9	2.9	76.47	155.9	648.0	666.5	660.6	5.87	113.582	
1,800.0	1,800.0	1,775.0	1,775.0	3.1	3.1	76.47	155.9	648.0	666.5	660.3	6.22	107.205	
1,900.0	1,900.0	1,875.0	1,875.0	3.3	3.3	76.47	155.9	648.0	666.5	659.9	6.57	101.506	
2,000.0	2,000.0	1,975.0	1,975.0	3.5	3.4	-98.79	155.9	648.0	666.6	659.7	6.92	96.400	
2,100.0	2,100.0	2,074.9	2,074.9	3.6	3.6	-99.01	155.9	648.0	667.0	659.8	7.27	91.812	
2,200.0	2,199.9	2,174.9	2,174.9	3.8	3.8	-99.37	155.9	648.0	667.7	660.1	7.62	87.662	
2,300.0	2,299.7	2,274.7	2,274.7	4.0	4.0	-99.88	155.9	648.0	668.8	660.8	7.97	83.881	
2,400.0	2,399.4	2,374.4	2,374.4	4.2	4.1	-100.52	155.9	648.0	670.1	661.8	8.33	80.413	
2,500.0	2,498.9	2,473.9	2,473.9	4.4	4.3	-101.29	155.9	648.0	671.9	663.2	8.70	77.228	
2,600.0	2,598.5	2,573.5	2,573.5	4.6	4.5	-102.09	155.9	648.0	673.9	664.8	9.07	74.284	
2,700.0	2,698.0	2,673.0	2,673.0	4.8	4.7	-102.88	155.9	648.0	676.0	666.5	9.45	71.560	
2,800.0	2,797.5	2,772.5	2,772.5	5.0	4.8	-103.67	155.9	648.0	678.2	668.3	9.82	69.035	
2,900.0	2,897.1	2,872.1	2,872.1	5.2	5.0	-104.45	155.9	648.0	680.5	670.3	10.20	66.694	
3,000.0	2,996.6	2,971.6	2,971.6	5.4	5.2	-105.22	155.9	648.0	683.0	672.4	10.59	64.521	
3,100.0	3,096.2	3,071.2	3,071.2	5.6	5.4	-105.99	155.9	648.0	685.6	674.6	10.97	62.501	
3,200.0	3,195.7	3,170.7	3,170.7	5.8	5.5	-106.75	155.9	648.0	688.3	676.9	11.35	60.620	
3,300.0	3,295.2	3,270.2	3,270.2	6.1	5.7	-107.51	155.9	648.0	691.1	679.4	11.74	58.868	
3,400.0	3,394.8	3,369.8	3,369.8	6.3	5.9	-108.26	155.9	648.0	694.1	681.9	12.13	57.234	
3,500.0	3,494.3	3,469.3	3,469.3	6.5	6.1	-109.01	155.9	648.0	697.1	684.6	12.51	55.707	
3,600.0	3,593.9	3,568.9	3,568.9	6.7	6.2	-109.74	155.9	648.0	700.3	687.4	12.90	54.280	
3,700.0	3,693.4	3,668.4	3,668.4	7.0	6.4	-110.48	155.9	648.0	703.6	690.3	13.29	52.943	
3,800.0	3,792.9	3,767.9	3,767.9	7.2	6.6	-111.20	155.9	648.0	707.0	693.4	13.68	51.690	
3,900.0	3,892.5	3,867.5	3,867.5	7.4	6.8	-111.92	155.9	648.0	710.6	696.5	14.07	50.514	
4,000.0	3,992.0	3,967.0	3,967.0	7.6	6.9	-112.63	155.9	648.0	714.2	699.8	14.46	49.409	
4,100.0	4,091.6	4,066.6	4,066.6	7.9	7.1	-113.33	155.9	648.0	718.0	703.1	14.84	48.371	
4,200.0	4,191.1	4,166.1	4,166.1	8.1	7.3	-114.03	155.9	648.0	721.8	706.6	15.23	47.393	
4,300.0	4,290.6	4,265.6	4,265.6	8.3	7.4	-114.71	155.9	648.0	725.8	710.2	15.62	46.472	
4,400.0	4,390.2	4,365.2	4,365.2	8.5	7.6	-115.39	155.9	648.0	729.9	713.9	16.01	45.603	
4,500.0	4,489.7	4,464.7	4,464.7	8.8	7.8	-116.07	155.9	648.0	734.1	717.7	16.39	44.783	
4,600.0	4,589.3	4,564.3	4,564.3	9.0	8.0	-116.73	155.9	648.0	738.3	721.6	16.78	44.008	
4,700.0	4,688.8	4,663.8	4,663.8	9.2	8.1	-117.39	155.9	648.0	742.7	725.5	17.16	43.275	
4,800.0	4,788.3	4,763.3	4,763.3	9.5	8.3	-118.04	155.9	648.0	747.2	729.6	17.55	42.582	
4,900.0	4,887.9	4,862.9	4,862.9	9.7	8.5	-118.68	155.9	648.0	751.7	733.8	17.93	41.925	
5,000.0	4,987.4	4,962.4	4,962.4	9.9	8.7	-119.32	155.9	648.0	756.4	738.1	18.31	41.303	
5,100.0	5,087.0	5,062.0	5,062.0	10.2	8.8	-119.94	155.9	648.0	761.2	742.5	18.70	40.712	

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 4F-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 4F-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
5,200.0	5,186.5	5,161.5	5,161.5	10.4	9.0	-120.56	155.9	648.0	766.0	746.9	19.08	40.152	
5,300.0	5,286.0	5,261.0	5,261.0	10.6	9.2	-121.17	155.9	648.0	770.9	751.5	19.46	39.620	
5,400.0	5,385.6	5,360.6	5,360.6	10.9	9.4	-121.78	155.9	648.0	775.9	756.1	19.84	39.114	
5,500.0	5,485.1	5,460.1	5,460.1	11.1	9.5	-122.37	155.9	648.0	781.1	760.8	20.22	38.633	
5,600.0	5,584.7	5,559.7	5,559.7	11.3	9.7	-122.96	155.9	648.0	786.2	765.6	20.60	38.176	
5,700.0	5,684.2	5,659.2	5,659.2	11.6	9.9	-123.54	155.9	648.0	791.5	770.5	20.97	37.740	
5,800.0	5,783.8	5,758.7	5,758.7	11.8	10.1	-124.11	155.9	648.0	796.9	775.5	21.35	37.325	
5,900.0	5,883.3	5,858.3	5,858.3	12.1	10.2	-124.68	155.9	648.0	802.3	780.6	21.72	36.929	
6,000.0	5,982.8	5,957.8	5,957.8	12.3	10.4	-125.23	155.9	648.0	807.8	785.7	22.10	36.552	
6,100.0	6,082.4	6,057.4	6,057.4	12.5	10.6	-125.78	155.9	648.0	813.4	790.9	22.47	36.192	
6,200.0	6,181.9	6,156.9	6,156.9	12.8	10.7	-126.32	155.9	648.0	819.0	796.2	22.85	35.848	
6,300.0	6,281.5	6,256.4	6,256.4	13.0	10.9	-126.86	155.9	648.0	824.8	801.5	23.22	35.520	
6,400.0	6,381.1	6,356.1	6,356.1	13.2	11.1	-122.26	155.9	648.0	830.0	806.4	23.59	35.183	
6,500.0	6,480.9	6,455.9	6,455.9	13.3	11.3	43.03	155.9	648.0	827.7	803.9	23.84	34.719	
6,600.0	6,579.5	6,554.5	6,554.5	13.3	11.4	47.46	155.9	648.0	816.3	792.4	23.94	34.101	
6,700.0	6,674.9	6,649.9	6,649.9	13.2	11.6	51.02	155.9	648.0	796.3	772.4	23.92	33.287	
6,800.0	6,765.2	6,740.1	6,740.1	13.0	11.8	55.55	155.9	648.0	769.0	745.1	23.87	32.214	
6,900.0	6,848.6	6,823.6	6,823.6	12.8	11.9	61.24	155.9	648.0	736.4	712.5	23.88	30.835	
7,000.0	6,923.6	6,898.6	6,898.6	12.6	12.0	67.90	155.9	648.0	701.0	677.0	24.02	29.185	
7,100.0	6,988.6	6,963.6	6,963.6	12.5	12.2	74.95	155.9	648.0	666.4	642.1	24.30	27.427	
7,200.0	7,042.5	7,017.5	7,017.5	12.6	12.2	81.54	155.9	648.0	636.5	611.8	24.66	25.808	
7,300.0	7,084.1	7,059.1	7,059.1	12.8	12.3	86.78	155.9	648.0	615.8	590.7	25.10	24.536	
7,400.0	7,112.7	7,087.7	7,087.7	13.3	12.4	89.99	155.9	648.0	608.1	582.5	25.63	23.725	
7,400.5	7,112.8	7,087.8	7,087.8	13.3	12.4	90.00	155.9	648.0	608.1	582.5	25.64	23.721	CC, ES
7,500.0	7,127.7	7,102.7	7,102.7	14.0	12.4	90.75	155.9	648.0	616.1	589.8	26.33	23.398	SF
7,600.0	7,130.0	7,105.0	7,105.0	14.8	12.4	90.00	155.9	648.0	639.8	612.6	27.19	23.532	
7,700.0	7,130.0	7,105.0	7,105.0	15.8	12.4	90.00	155.9	648.0	677.7	649.5	28.19	24.036	
7,800.0	7,130.0	7,105.0	7,105.0	16.9	12.4	90.00	155.9	648.0	727.4	698.1	29.32	24.809	
7,900.0	7,130.0	7,105.0	7,105.0	18.2	12.4	90.00	155.9	648.0	786.7	756.2	30.55	25.756	
8,000.0	7,130.0	7,105.0	7,105.0	19.5	12.4	90.00	155.9	648.0	853.7	821.9	31.85	26.801	
8,100.0	7,130.0	7,105.0	7,105.0	20.8	12.4	90.00	155.9	648.0	926.6	893.4	33.23	27.889	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	-90.00	0.0	-37.7	37.7				
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-37.7	37.7	37.4	0.30	124.218	
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-37.7	37.7	37.1	0.65	57.791	CC, ES
300.0	300.0	299.4	299.4	0.5	0.5	-90.47	-0.3	-38.5	38.5	37.5	1.00	38.496	
400.0	400.0	398.7	398.7	0.7	0.7	-91.77	-1.3	-40.9	41.0	39.6	1.35	30.356	
500.0	500.0	497.9	497.8	0.8	0.9	-93.61	-2.8	-44.9	45.1	43.4	1.70	26.526	
600.0	600.0	596.9	596.6	1.0	1.1	-95.69	-5.0	-50.5	50.9	48.8	2.05	24.827	
700.0	700.0	695.7	695.1	1.2	1.3	-97.75	-7.9	-57.7	58.4	56.0	2.40	24.343	SF
800.0	800.0	794.2	793.1	1.4	1.5	-99.64	-11.3	-66.4	67.7	64.9	2.75	24.617	
900.0	900.0	892.3	890.7	1.5	1.7	-101.30	-15.3	-76.6	78.7	75.6	3.10	25.395	
1,000.0	1,000.0	990.1	987.6	1.7	2.0	-102.71	-19.9	-88.3	91.4	88.0	3.45	26.523	
1,100.0	1,100.0	1,087.4	1,083.8	1.9	2.3	-103.90	-25.1	-101.5	105.8	102.0	3.79	27.902	
1,200.0	1,200.0	1,184.1	1,179.3	2.1	2.6	-104.89	-30.9	-116.2	122.0	117.8	4.14	29.466	
1,300.0	1,300.0	1,281.7	1,275.4	2.2	2.9	-105.71	-37.2	-132.2	139.5	135.0	4.49	31.091	
1,400.0	1,400.0	1,380.1	1,372.2	2.4	3.3	-106.36	-43.6	-148.4	157.2	152.3	4.84	32.507	
1,500.0	1,500.0	1,478.5	1,469.0	2.6	3.6	-106.88	-50.0	-164.7	174.9	169.7	5.18	33.737	
1,600.0	1,600.0	1,576.9	1,565.9	2.8	4.0	-107.31	-56.4	-181.0	192.6	187.0	5.53	34.815	
1,700.0	1,700.0	1,675.4	1,662.7	2.9	4.3	-107.66	-62.8	-197.2	210.3	204.4	5.88	35.768	
1,800.0	1,800.0	1,773.8	1,759.6	3.1	4.6	-107.96	-69.2	-213.5	228.0	221.8	6.23	36.616	
1,900.0	1,900.0	1,872.2	1,856.4	3.3	5.0	-108.21	-75.6	-229.7	245.7	239.2	6.57	37.376	
2,000.0	2,000.0	1,970.6	1,953.3	3.5	5.3	76.39	-82.0	-246.0	263.3	256.4	6.88	38.240	
2,100.0	2,100.0	2,069.1	2,050.3	3.6	5.7	76.55	-88.4	-262.3	280.4	273.2	7.23	38.762	
2,200.0	2,199.9	2,167.7	2,147.2	3.8	6.0	77.00	-94.8	-278.5	297.1	289.5	7.59	39.165	
2,300.0	2,299.7	2,266.2	2,244.2	4.0	6.4	77.70	-101.2	-294.8	313.5	305.6	7.95	39.455	
2,400.0	2,399.4	2,364.7	2,341.2	4.2	6.7	78.62	-107.6	-311.1	329.7	321.4	8.32	39.638	
2,500.0	2,498.9	2,463.2	2,438.0	4.4	7.1	79.77	-114.0	-327.4	345.6	336.9	8.70	39.732	
2,600.0	2,598.5	2,561.6	2,534.9	4.6	7.4	80.93	-120.4	-343.6	361.7	352.6	9.09	39.789	
2,700.0	2,698.0	2,660.1	2,631.8	4.8	7.8	81.98	-126.8	-359.9	377.9	368.4	9.49	39.823	
2,800.0	2,797.5	2,758.5	2,728.7	5.0	8.1	82.95	-133.2	-376.2	394.3	384.4	9.90	39.839	
2,900.0	2,897.1	2,857.0	2,825.6	5.2	8.5	83.85	-139.6	-392.4	410.7	400.4	10.31	39.840	
3,000.0	2,996.6	2,955.4	2,922.5	5.4	8.8	84.67	-146.0	-408.7	427.2	416.5	10.73	39.830	
3,100.0	3,096.2	3,053.9	3,019.3	5.6	9.2	85.43	-152.4	-424.9	443.8	432.7	11.15	39.810	
3,200.0	3,195.7	3,152.3	3,116.2	5.8	9.5	86.14	-158.8	-441.2	460.5	448.9	11.57	39.784	
3,300.0	3,295.2	3,250.8	3,213.1	6.1	9.9	86.80	-165.3	-457.5	477.2	465.2	12.00	39.753	
3,400.0	3,394.8	3,349.2	3,310.0	6.3	10.2	87.41	-171.7	-473.7	494.0	481.6	12.44	39.717	
3,500.0	3,494.3	3,447.6	3,406.9	6.5	10.6	87.99	-178.1	-490.0	510.8	498.0	12.87	39.678	
3,600.0	3,593.9	3,546.1	3,503.8	6.7	10.9	88.52	-184.5	-506.3	527.7	514.4	13.31	39.638	
3,700.0	3,693.4	3,644.5	3,600.6	7.0	11.3	89.03	-190.9	-522.5	544.7	530.9	13.76	39.596	
3,800.0	3,792.9	3,743.0	3,697.5	7.2	11.7	89.50	-197.3	-538.8	561.6	547.4	14.20	39.554	
3,900.0	3,892.5	3,841.4	3,794.4	7.4	12.0	89.94	-203.7	-555.1	578.6	564.0	14.64	39.511	
4,000.0	3,992.0	3,939.9	3,891.3	7.6	12.4	90.36	-210.1	-571.3	595.7	580.6	15.09	39.468	
4,100.0	4,091.6	4,038.3	3,988.2	7.9	12.7	90.76	-216.5	-587.6	612.7	597.2	15.54	39.425	
4,200.0	4,191.1	4,136.8	4,085.1	8.1	13.1	91.14	-222.9	-603.8	629.8	613.8	15.99	39.383	
4,300.0	4,290.6	4,235.2	4,181.9	8.3	13.4	91.49	-229.3	-620.1	646.9	630.5	16.44	39.341	
4,400.0	4,390.2	4,333.7	4,278.8	8.5	13.8	91.83	-235.7	-636.4	664.1	647.2	16.90	39.300	
4,500.0	4,489.7	4,432.1	4,375.7	8.8	14.1	92.15	-242.1	-652.6	681.2	663.9	17.35	39.260	
4,600.0	4,589.3	4,530.6	4,472.6	9.0	14.5	92.45	-248.5	-668.9	698.4	680.6	17.81	39.221	
4,700.0	4,688.8	4,629.0	4,569.5	9.2	14.8	92.74	-254.9	-685.2	715.6	697.4	18.26	39.183	
4,800.0	4,788.3	4,727.5	4,666.4	9.5	15.2	93.02	-261.3	-701.4	732.8	714.1	18.72	39.145	
4,900.0	4,887.9	4,825.9	4,763.2	9.7	15.5	93.28	-267.7	-717.7	750.1	730.9	19.18	39.109	
5,000.0	4,987.4	4,924.3	4,860.1	9.9	15.9	93.54	-274.1	-734.0	767.3	747.7	19.64	39.074	
5,100.0	5,087.0	5,022.8	4,957.0	10.2	16.2	93.78	-280.5	-750.2	784.6	764.5	20.10	39.039	

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 4F-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 4F-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	5,186.5	5,121.2	5,053.9	10.4	16.6	94.01	-286.9	-766.5	801.8	781.3	20.56	39.006	
5,300.0	5,286.0	5,219.7	5,150.8	10.6	16.9	94.23	-293.3	-782.7	819.1	798.1	21.02	38.974	
5,400.0	5,385.6	5,318.1	5,247.6	10.9	17.3	94.44	-299.7	-799.0	836.4	814.9	21.48	38.942	
5,500.0	5,485.1	5,416.6	5,344.5	11.1	17.7	94.64	-306.1	-815.3	853.7	831.8	21.94	38.912	
5,600.0	5,584.7	5,515.0	5,441.4	11.3	18.0	94.84	-312.5	-831.5	871.0	848.6	22.40	38.882	
5,700.0	5,684.2	5,613.5	5,538.3	11.6	18.4	95.02	-318.9	-847.8	888.4	865.5	22.87	38.853	
5,800.0	5,783.8	5,711.9	5,635.2	11.8	18.7	95.20	-325.3	-864.1	905.7	882.4	23.33	38.825	
5,900.0	5,883.3	5,810.4	5,732.1	12.1	19.1	95.38	-331.7	-880.3	923.1	899.3	23.79	38.798	
6,000.0	5,982.8	5,908.8	5,828.9	12.3	19.4	95.54	-338.1	-896.6	940.4	916.2	24.26	38.772	
6,100.0	6,082.4	6,007.3	5,925.8	12.5	19.8	95.71	-344.5	-912.9	957.8	933.0	24.72	38.746	
6,200.0	6,181.9	6,105.7	6,022.7	12.8	20.1	95.86	-350.9	-929.1	975.1	949.9	25.18	38.721	
6,300.0	6,281.5	6,204.2	6,119.6	13.0	20.5	96.01	-357.3	-945.4	992.5	966.9	25.65	38.697	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	-90.02	0.0	-30.2	30.2				
100.0	100.0	100.0	100.0	0.2	0.2	-90.02	0.0	-30.2	30.2	29.9	0.30	99.374	
200.0	200.0	200.0	200.0	0.3	0.3	-90.02	0.0	-30.2	30.2	29.5	0.65	46.233	
300.0	300.0	300.0	300.0	0.5	0.5	-90.02	0.0	-30.2	30.2	29.2	1.00	30.124	CC, ES
400.0	400.0	399.5	399.5	0.7	0.7	-90.73	-0.4	-31.0	31.0	29.6	1.35	22.929	
500.0	500.0	499.0	498.9	0.8	0.9	-92.66	-1.5	-33.3	33.3	31.6	1.70	19.612	
600.0	600.0	598.3	598.2	1.0	1.0	-95.32	-3.5	-37.1	37.3	35.3	2.05	18.221	
700.0	700.0	697.5	697.2	1.2	1.2	-98.21	-6.1	-42.5	43.1	40.7	2.40	17.944	
800.0	800.0	796.4	795.8	1.4	1.4	-100.95	-9.6	-49.4	50.5	47.8	2.75	18.373	
900.0	900.0	895.0	894.0	1.5	1.7	-103.36	-13.7	-57.8	59.7	56.6	3.10	19.275	
1,000.0	1,000.0	993.3	991.6	1.7	1.9	-105.39	-18.6	-67.7	70.7	67.3	3.45	20.508	
1,100.0	1,100.0	1,091.2	1,088.7	1.9	2.2	-107.06	-24.3	-79.0	83.4	79.6	3.80	21.977	
1,200.0	1,200.0	1,189.5	1,186.0	2.1	2.4	-108.42	-30.5	-91.7	97.6	93.5	4.15	23.553	
1,300.0	1,300.0	1,288.4	1,283.8	2.2	2.7	-109.45	-36.9	-104.5	112.0	107.5	4.49	24.927	
1,400.0	1,400.0	1,387.4	1,381.7	2.4	3.0	-110.24	-43.3	-117.4	126.4	121.6	4.84	26.109	
1,500.0	1,500.0	1,486.3	1,479.6	2.6	3.3	-110.87	-49.7	-130.3	140.9	135.7	5.19	27.138	
1,600.0	1,600.0	1,585.3	1,577.5	2.8	3.6	-111.39	-56.1	-143.1	155.3	149.8	5.54	28.040	
1,700.0	1,700.0	1,684.2	1,675.4	2.9	3.9	-111.82	-62.4	-156.0	169.8	163.9	5.89	28.838	
1,800.0	1,800.0	1,783.1	1,773.3	3.1	4.2	-112.18	-68.8	-168.8	184.3	178.0	6.24	29.548	
1,900.0	1,900.0	1,882.1	1,871.2	3.3	4.5	-112.48	-75.2	-181.7	198.7	192.2	6.58	30.185	
2,000.0	2,000.0	1,981.1	1,969.1	3.5	4.8	72.15	-81.6	-194.6	213.0	206.1	6.91	30.840	
2,100.0	2,100.0	2,080.1	2,067.1	3.6	5.1	72.41	-88.0	-207.4	226.7	219.4	7.26	31.238	
2,200.0	2,199.9	2,179.2	2,165.2	3.8	5.4	73.03	-94.4	-220.3	239.9	232.2	7.61	31.515	
2,300.0	2,299.7	2,278.3	2,263.2	4.0	5.7	73.95	-100.8	-233.2	252.6	244.6	7.97	31.684	
2,400.0	2,399.4	2,377.3	2,361.2	4.2	6.0	75.15	-107.2	-246.1	265.0	256.6	8.34	31.755	
2,500.0	2,498.9	2,476.3	2,459.2	4.4	6.3	76.59	-113.5	-259.0	277.1	268.4	8.73	31.749	
2,600.0	2,598.5	2,575.3	2,557.1	4.6	6.6	78.01	-119.9	-271.8	289.4	280.3	9.12	31.726	
2,700.0	2,698.0	2,674.3	2,655.1	4.8	6.9	79.31	-126.3	-284.7	301.9	292.3	9.52	31.696	
2,800.0	2,797.5	2,773.3	2,753.0	5.0	7.2	80.51	-132.7	-297.6	314.4	304.5	9.93	31.661	
2,900.0	2,897.1	2,872.3	2,851.0	5.2	7.5	81.62	-139.1	-310.4	327.2	316.8	10.35	31.622	
3,000.0	2,996.6	2,971.3	2,948.9	5.4	7.8	82.64	-145.5	-323.3	340.0	329.2	10.77	31.580	
3,100.0	3,096.2	3,070.3	3,046.9	5.6	8.1	83.59	-151.9	-336.2	352.9	341.7	11.19	31.537	
3,200.0	3,195.7	3,169.3	3,144.8	5.8	8.4	84.48	-158.3	-349.0	365.9	354.3	11.62	31.493	
3,300.0	3,295.2	3,268.3	3,242.8	6.1	8.7	85.30	-164.6	-361.9	379.0	366.9	12.05	31.449	
3,400.0	3,394.8	3,367.3	3,340.7	6.3	9.0	86.06	-171.0	-374.8	392.2	379.7	12.49	31.406	
3,500.0	3,494.3	3,466.3	3,438.7	6.5	9.3	86.78	-177.4	-387.7	405.4	392.5	12.93	31.363	
3,600.0	3,593.9	3,565.3	3,536.6	6.7	9.7	87.45	-183.8	-400.5	418.7	405.3	13.37	31.320	
3,700.0	3,693.4	3,664.3	3,634.6	7.0	10.0	88.08	-190.2	-413.4	432.0	418.2	13.81	31.279	
3,800.0	3,792.9	3,763.3	3,732.5	7.2	10.3	88.68	-196.6	-426.3	445.4	431.1	14.26	31.240	
3,900.0	3,892.5	3,862.3	3,830.5	7.4	10.6	89.23	-203.0	-439.1	458.8	444.1	14.71	31.201	
4,000.0	3,992.0	3,961.3	3,928.4	7.6	10.9	89.76	-209.3	-452.0	472.3	457.1	15.15	31.164	
4,100.0	4,091.6	4,060.3	4,026.4	7.9	11.2	90.26	-215.7	-464.9	485.8	470.2	15.61	31.129	
4,200.0	4,191.1	4,159.3	4,124.3	8.1	11.5	90.73	-222.1	-477.7	499.3	483.3	16.06	31.095	
4,300.0	4,290.6	4,258.3	4,222.3	8.3	11.8	91.17	-228.5	-490.6	512.9	496.4	16.51	31.062	
4,400.0	4,390.2	4,357.3	4,320.2	8.5	12.1	91.60	-234.9	-503.5	526.5	509.6	16.97	31.030	
4,500.0	4,489.7	4,456.3	4,418.2	8.8	12.4	92.00	-241.3	-516.4	540.1	522.7	17.42	31.000	
4,600.0	4,589.3	4,555.3	4,516.1	9.0	12.7	92.38	-247.7	-529.2	553.8	535.9	17.88	30.971	
4,700.0	4,688.8	4,654.3	4,614.1	9.2	13.0	92.74	-254.1	-542.1	567.5	549.1	18.34	30.944	
4,800.0	4,788.3	4,753.3	4,712.0	9.5	13.3	93.09	-260.4	-555.0	581.2	562.4	18.80	30.917	
4,900.0	4,887.9	4,852.3	4,810.0	9.7	13.6	93.42	-266.8	-567.8	594.9	575.6	19.26	30.892	
5,000.0	4,987.4	4,951.3	4,907.9	9.9	13.9	93.74	-273.2	-580.7	608.6	588.9	19.72	30.868	
5,100.0	5,087.0	5,050.3	5,005.9	10.2	14.2	94.04	-279.6	-593.6	622.4	602.2	20.18	30.845	

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 4F-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 4F-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

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	5,186.5	5,149.3	5,103.8	10.4	14.5	94.33	-286.0	-606.4	636.2	615.5	20.64	30.822	
5,300.0	5,286.0	5,248.3	5,201.8	10.6	14.8	94.60	-292.4	-619.3	649.9	628.8	21.10	30.801	
5,400.0	5,385.6	5,347.3	5,299.7	10.9	15.1	94.87	-298.8	-632.2	663.7	642.2	21.56	30.781	
5,500.0	5,485.1	5,446.3	5,397.7	11.1	15.5	95.12	-305.2	-645.1	677.6	655.5	22.03	30.761	
5,600.0	5,584.7	5,545.2	5,495.6	11.3	15.8	95.36	-311.5	-657.9	691.4	668.9	22.49	30.743	
5,700.0	5,684.2	5,644.2	5,593.6	11.6	16.1	95.60	-317.9	-670.8	705.2	682.3	22.95	30.725	
5,800.0	5,783.8	5,743.2	5,691.5	11.8	16.4	95.82	-324.3	-683.7	719.1	695.6	23.42	30.707	
5,900.0	5,883.3	5,842.2	5,789.5	12.1	16.7	96.04	-330.7	-696.5	732.9	709.0	23.88	30.691	
6,000.0	5,982.8	5,941.2	5,887.4	12.3	17.0	96.25	-337.1	-709.4	746.8	722.4	24.35	30.675	
6,100.0	6,082.4	6,040.2	5,985.4	12.5	17.3	96.45	-343.5	-722.3	760.7	735.9	24.81	30.660	
6,200.0	6,181.9	6,139.2	6,083.3	12.8	17.6	96.64	-349.9	-735.1	774.6	749.3	25.28	30.645	
6,300.0	6,281.5	6,238.2	6,181.3	13.0	17.9	96.83	-356.2	-748.0	788.5	762.7	25.74	30.631	
6,400.0	6,381.1	6,337.2	6,279.2	13.2	18.2	102.51	-362.6	-760.9	802.3	776.1	26.23	30.590	
6,500.0	6,480.9	6,435.8	6,376.7	13.3	18.5	-92.00	-369.0	-773.7	815.7	789.2	26.58	30.686	
6,600.0	6,579.5	6,532.2	6,472.1	13.3	18.8	-89.58	-375.2	-786.2	828.8	802.1	26.70	31.039	
6,700.0	6,674.9	6,624.5	6,563.4	13.2	19.1	-90.05	-381.2	-798.2	842.4	815.8	26.63	31.634	
6,800.0	6,765.2	6,717.4	6,655.4	13.0	19.3	-91.40	-384.5	-810.3	857.6	831.2	26.40	32.487	
6,900.0	6,848.6	6,818.5	6,755.2	12.8	19.5	-93.00	-375.2	-823.4	874.3	848.3	26.05	33.566	
7,000.0	6,923.6	6,928.5	6,861.0	12.6	19.7	-94.71	-349.0	-837.3	892.2	866.5	25.65	34.781	
7,100.0	6,988.6	7,049.7	6,971.5	12.5	19.7	-96.50	-301.8	-851.8	910.4	885.1	25.29	35.997	
7,200.0	7,042.5	7,184.3	7,083.0	12.6	19.8	-98.32	-228.2	-866.5	928.1	903.0	25.08	36.998	
7,300.0	7,084.1	7,334.5	7,188.8	12.8	19.8	-100.09	-122.8	-880.4	944.0	918.8	25.20	37.462	
7,400.0	7,112.7	7,501.2	7,277.9	13.3	20.1	-101.65	17.1	-892.1	956.7	930.9	25.84	37.025	
7,500.0	7,127.7	7,682.3	7,335.6	14.0	20.7	-102.76	188.1	-899.7	964.7	937.5	27.21	35.449	
7,600.0	7,130.0	7,850.4	7,350.0	14.8	21.6	-103.15	355.2	-901.6	966.9	937.7	29.24	33.073	
7,700.0	7,130.0	7,950.4	7,350.0	15.8	22.3	-103.15	455.2	-901.6	966.9	935.7	31.19	30.999	
7,800.0	7,130.0	8,050.4	7,350.0	16.9	23.1	-103.15	555.2	-901.6	966.9	933.6	33.38	28.971	
7,900.0	7,130.0	8,150.4	7,350.0	18.2	24.0	-103.15	655.2	-901.6	966.9	931.2	35.75	27.044	
8,000.0	7,130.0	8,250.4	7,350.0	19.5	25.0	-103.15	755.2	-901.6	966.9	928.6	38.29	25.254	
8,100.0	7,130.0	8,350.4	7,350.0	20.8	26.1	-103.15	855.2	-901.6	966.9	926.0	40.95	23.611	
8,200.0	7,130.0	8,450.4	7,350.0	22.3	27.3	-103.15	955.2	-901.6	966.9	923.2	43.72	22.116	
8,300.0	7,130.0	8,550.4	7,350.0	23.7	28.5	-103.15	1,055.2	-901.6	966.9	920.4	46.58	20.760	
8,400.0	7,130.0	8,650.4	7,350.0	25.2	29.7	-103.15	1,155.2	-901.6	966.9	917.4	49.50	19.533	
8,500.0	7,130.0	8,750.4	7,350.0	26.8	31.1	-103.15	1,255.2	-901.6	966.9	914.4	52.49	18.422	
8,600.0	7,130.0	8,850.4	7,350.0	28.3	32.4	-103.15	1,355.2	-901.6	966.9	911.4	55.52	17.414	
8,700.0	7,130.0	8,950.4	7,350.0	29.9	33.8	-103.15	1,455.2	-901.6	966.9	908.3	58.60	16.500	
8,800.0	7,130.0	9,050.4	7,350.0	31.5	35.2	-103.15	1,555.2	-901.6	966.9	905.2	61.72	15.667	
8,900.0	7,130.0	9,150.4	7,350.0	33.1	36.7	-103.15	1,655.2	-901.6	966.9	902.1	64.86	14.908	
9,000.0	7,130.0	9,250.4	7,350.0	34.8	38.2	-103.15	1,755.2	-901.6	966.9	898.9	68.03	14.213	
9,100.0	7,130.0	9,350.4	7,350.0	36.4	39.7	-103.15	1,855.2	-901.6	966.9	895.7	71.22	13.576	
9,200.0	7,130.0	9,450.4	7,350.0	38.1	41.2	-103.15	1,955.2	-901.6	966.9	892.5	74.44	12.990	
9,300.0	7,130.0	9,550.4	7,350.0	39.7	42.7	-103.15	2,055.2	-901.6	966.9	889.3	77.67	12.449	
9,400.0	7,130.0	9,650.4	7,350.0	41.4	44.3	-103.16	2,155.2	-901.6	966.7	885.6	81.04	11.928	
9,500.0	7,130.0	9,750.4	7,350.0	43.1	45.9	-103.18	2,255.2	-901.6	965.1	880.7	84.39	11.436	
9,600.0	7,130.0	9,850.4	7,350.0	44.7	47.4	-103.20	2,355.2	-901.6	963.4	875.7	87.66	10.990	
9,700.0	7,130.0	9,950.4	7,350.0	46.4	49.0	-103.23	2,455.2	-901.6	961.6	870.7	90.93	10.575	
9,800.0	7,130.0	10,050.3	7,350.0	48.1	50.7	-103.25	2,555.1	-901.6	959.9	865.7	94.21	10.188	
9,900.0	7,130.0	10,150.3	7,350.0	49.8	52.3	-103.28	2,655.1	-901.6	958.2	860.7	97.51	9.827	
10,000.0	7,130.0	10,250.3	7,350.0	51.5	53.9	-103.30	2,755.1	-901.6	956.4	855.6	100.80	9.488	
10,100.0	7,130.0	10,350.3	7,350.0	53.2	55.5	-103.33	2,855.1	-901.6	954.7	850.6	104.11	9.170	
10,200.0	7,130.0	10,450.3	7,350.0	54.9	57.2	-103.35	2,955.1	-901.6	952.9	845.5	107.42	8.871	
10,300.0	7,130.0	10,550.3	7,350.0	56.6	58.8	-103.37	3,055.1	-901.6	951.2	840.5	110.73	8.590	

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 4F-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 4F-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	7,130.0	10,650.2	7,350.0	58.3	60.5	-103.40	3,155.1	-901.6	949.5	835.4	114.05	8.325	
10,500.0	7,130.0	10,750.2	7,350.0	60.1	62.1	-103.42	3,255.0	-901.6	947.7	830.3	117.37	8.074	
10,600.0	7,130.0	10,850.2	7,350.0	61.8	63.8	-103.45	3,355.0	-901.6	946.0	825.3	120.70	7.837	
10,700.0	7,130.0	10,950.2	7,350.0	63.5	65.4	-103.48	3,455.0	-901.6	944.2	820.2	124.03	7.613	
10,800.0	7,130.0	11,050.2	7,350.0	65.2	67.1	-103.50	3,555.0	-901.6	942.5	815.1	127.36	7.400	
10,900.0	7,130.0	11,150.2	7,350.0	66.9	68.8	-103.53	3,655.0	-901.6	940.8	810.1	130.70	7.198	
11,000.0	7,130.0	11,250.1	7,350.0	68.7	70.5	-103.55	3,755.0	-901.6	939.0	805.0	134.04	7.006	
11,100.0	7,130.0	11,350.1	7,350.0	70.4	72.2	-103.58	3,854.9	-901.6	937.3	799.9	137.38	6.823	
11,200.0	7,130.0	11,450.1	7,350.0	72.1	73.8	-103.60	3,954.9	-901.6	935.5	794.8	140.72	6.648	
11,300.0	7,130.0	11,550.1	7,350.0	73.8	75.5	-103.63	4,054.9	-901.6	933.8	789.7	144.06	6.482	
11,400.0	7,130.0	11,650.1	7,350.0	75.6	77.2	-103.65	4,154.9	-901.6	932.1	784.7	147.41	6.323	
11,500.0	7,130.0	11,750.1	7,350.0	77.3	78.9	-103.68	4,254.9	-901.6	930.3	779.6	150.75	6.171	
11,600.0	7,130.0	11,850.1	7,350.0	79.0	80.6	-103.71	4,354.9	-901.6	928.6	774.5	154.10	6.026	
11,664.3	7,130.0	11,914.3	7,350.0	80.1	81.7	-103.72	4,419.1	-901.6	927.5	771.2	156.25	5.936	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	-90.04	0.0	-22.6	22.6				
100.0	100.0	100.0	100.0	0.2	0.2	-90.04	0.0	-22.6	22.6	22.3	0.30	74.531	
200.0	200.0	200.0	200.0	0.3	0.3	-90.04	0.0	-22.6	22.6	22.0	0.65	34.675	
300.0	300.0	300.0	300.0	0.5	0.5	-90.04	0.0	-22.6	22.6	21.6	1.00	22.593	
400.0	400.0	400.0	400.0	0.7	0.7	-90.04	0.0	-22.6	22.6	21.3	1.35	16.755	CC, ES
500.0	500.0	499.7	499.7	0.8	0.8	-91.23	-0.5	-23.4	23.4	21.7	1.70	13.745	
600.0	600.0	599.3	599.2	1.0	1.0	-94.38	-2.0	-25.5	25.6	23.5	2.05	12.490	
700.0	700.0	698.7	698.6	1.2	1.2	-98.54	-4.4	-29.1	29.4	27.0	2.40	12.274	
800.0	800.0	798.1	797.7	1.4	1.4	-102.80	-7.7	-34.1	35.0	32.3	2.75	12.739	
900.0	900.0	897.1	896.5	1.5	1.6	-106.59	-12.1	-40.5	42.4	39.3	3.10	13.677	
1,000.0	1,000.0	995.9	994.8	1.7	1.8	-109.73	-17.3	-48.3	51.6	48.1	3.45	14.948	
1,100.0	1,100.0	1,094.3	1,092.6	1.9	2.1	-112.25	-23.5	-57.5	62.5	58.7	3.80	16.458	
1,200.0	1,200.0	1,193.4	1,191.0	2.1	2.3	-114.16	-30.3	-67.5	74.6	70.4	4.15	17.976	
1,300.0	1,300.0	1,292.7	1,289.5	2.2	2.6	-115.55	-37.1	-77.6	86.7	82.2	4.50	19.273	
1,400.0	1,400.0	1,391.9	1,388.0	2.4	2.8	-116.59	-43.9	-87.7	98.8	94.0	4.85	20.393	
1,500.0	1,500.0	1,491.2	1,486.5	2.6	3.1	-117.41	-50.7	-97.8	111.0	105.8	5.20	21.368	
1,600.0	1,600.0	1,590.4	1,585.0	2.8	3.4	-118.06	-57.5	-107.9	123.2	117.7	5.54	22.224	
1,700.0	1,700.0	1,689.7	1,683.5	2.9	3.6	-118.60	-64.3	-118.0	135.4	129.5	5.89	22.981	
1,800.0	1,800.0	1,788.9	1,782.0	3.1	3.9	-119.05	-71.1	-128.1	147.6	141.4	6.24	23.656	
1,900.0	1,900.0	1,888.1	1,880.5	3.3	4.1	-119.42	-77.9	-138.2	159.9	153.3	6.59	24.260	
2,000.0	2,000.0	1,987.4	1,979.0	3.5	4.4	65.22	-84.8	-148.3	171.7	164.8	6.92	24.823	
2,100.0	2,100.0	2,086.8	2,077.6	3.6	4.7	65.57	-91.6	-158.4	182.9	175.6	7.27	25.156	
2,200.0	2,199.9	2,186.2	2,176.3	3.8	5.0	66.34	-98.4	-168.5	193.3	185.7	7.62	25.355	
2,300.0	2,299.7	2,285.6	2,274.9	4.0	5.2	67.49	-105.2	-178.6	203.1	195.2	7.99	25.436	
2,400.0	2,399.4	2,385.0	2,373.6	4.2	5.5	68.96	-112.0	-188.7	212.4	204.1	8.36	25.413	
2,500.0	2,498.9	2,484.4	2,472.2	4.4	5.8	70.72	-118.8	-198.8	221.4	212.6	8.74	25.316	
2,600.0	2,598.5	2,583.8	2,570.8	4.6	6.0	72.43	-125.7	-208.9	230.4	221.3	9.14	25.216	
2,700.0	2,698.0	2,683.1	2,669.4	4.8	6.3	74.01	-132.5	-219.0	239.7	230.1	9.54	25.123	
2,800.0	2,797.5	2,782.5	2,768.1	5.0	6.6	75.47	-139.3	-229.1	249.1	239.1	9.95	25.037	
2,900.0	2,897.1	2,881.9	2,866.7	5.2	6.9	76.82	-146.1	-239.2	258.6	248.3	10.36	24.957	
3,000.0	2,996.6	2,981.2	2,965.3	5.4	7.1	78.08	-152.9	-249.4	268.3	257.6	10.78	24.882	
3,100.0	3,096.2	3,080.6	3,063.9	5.6	7.4	79.25	-159.7	-259.5	278.2	266.9	11.21	24.812	
3,200.0	3,195.7	3,179.9	3,162.5	5.8	7.7	80.34	-166.5	-269.6	288.1	276.4	11.64	24.746	
3,300.0	3,295.2	3,279.3	3,261.1	6.1	8.0	81.36	-173.3	-279.7	298.1	286.0	12.08	24.686	
3,400.0	3,394.8	3,378.7	3,359.7	6.3	8.2	82.31	-180.2	-289.8	308.2	295.7	12.51	24.629	
3,500.0	3,494.3	3,478.0	3,458.3	6.5	8.5	83.20	-187.0	-299.9	318.4	305.4	12.96	24.577	
3,600.0	3,593.9	3,577.4	3,556.9	6.7	8.8	84.04	-193.8	-310.0	328.7	315.3	13.40	24.528	
3,700.0	3,693.4	3,676.7	3,655.6	7.0	9.0	84.82	-200.6	-320.1	339.0	325.1	13.85	24.482	
3,800.0	3,792.9	3,776.1	3,754.2	7.2	9.3	85.56	-207.4	-330.2	349.4	335.1	14.29	24.440	
3,900.0	3,892.5	3,875.5	3,852.8	7.4	9.6	86.26	-214.2	-340.3	359.8	345.1	14.75	24.401	
4,000.0	3,992.0	3,974.8	3,951.4	7.6	9.9	86.91	-221.0	-350.4	370.3	355.1	15.20	24.365	
4,100.0	4,091.6	4,074.2	4,050.0	7.9	10.1	87.53	-227.9	-360.5	380.8	365.2	15.65	24.331	
4,200.0	4,191.1	4,173.6	4,148.6	8.1	10.4	88.12	-234.7	-370.6	391.4	375.3	16.11	24.300	
4,300.0	4,290.6	4,272.9	4,247.2	8.3	10.7	88.67	-241.5	-380.7	402.0	385.5	16.56	24.271	
4,400.0	4,390.2	4,372.3	4,345.8	8.5	11.0	89.20	-248.3	-390.8	412.7	395.6	17.02	24.244	
4,500.0	4,489.7	4,471.6	4,444.4	8.8	11.2	89.70	-255.1	-400.9	423.3	405.9	17.48	24.219	
4,600.0	4,589.3	4,571.0	4,543.1	9.0	11.5	90.18	-261.9	-411.0	434.1	416.1	17.94	24.195	
4,700.0	4,688.8	4,670.4	4,641.7	9.2	11.8	90.63	-268.7	-421.1	444.8	426.4	18.40	24.173	
4,800.0	4,788.3	4,769.7	4,740.3	9.5	12.1	91.06	-275.6	-431.2	455.6	436.7	18.86	24.153	
4,900.0	4,887.9	4,869.1	4,838.9	9.7	12.3	91.48	-282.4	-441.3	466.4	447.0	19.32	24.134	
5,000.0	4,987.4	4,968.4	4,937.5	9.9	12.6	91.87	-289.2	-451.4	477.2	457.4	19.79	24.117	
5,100.0	5,087.0	5,067.8	5,036.1	10.2	12.9	92.24	-296.0	-461.5	488.0	467.8	20.25	24.100	

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 4F-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 4F-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
5,200.0	5,186.5	5,167.2	5,134.7	10.4	13.2	92.60	-302.8	-471.7	498.9	478.1	20.71	24.085	
5,300.0	5,286.0	5,266.5	5,233.3	10.6	13.4	92.95	-309.6	-481.8	509.7	488.6	21.18	24.071	
5,400.0	5,385.6	5,365.9	5,331.9	10.9	13.7	93.28	-316.4	-491.9	520.6	499.0	21.64	24.057	
5,500.0	5,485.1	5,465.3	5,430.6	11.1	14.0	93.59	-323.3	-502.0	531.5	509.4	22.11	24.045	
5,600.0	5,584.7	5,564.6	5,529.2	11.3	14.3	93.90	-330.1	-512.1	542.5	519.9	22.57	24.034	
5,700.0	5,684.2	5,664.0	5,627.8	11.6	14.5	94.19	-336.9	-522.2	553.4	530.4	23.04	24.023	
5,800.0	5,783.8	5,763.3	5,726.4	11.8	14.8	94.47	-343.7	-532.3	564.3	540.8	23.50	24.013	
5,900.0	5,883.3	5,862.7	5,825.0	12.1	15.1	94.74	-350.5	-542.4	575.3	551.3	23.97	24.003	
6,000.0	5,982.8	5,962.1	5,923.6	12.3	15.4	95.00	-357.3	-552.5	586.3	561.8	24.43	23.994	
6,100.0	6,082.4	6,061.4	6,022.2	12.5	15.6	95.25	-364.1	-562.6	597.3	572.4	24.90	23.986	
6,200.0	6,181.9	6,160.8	6,120.8	12.8	15.9	95.49	-371.0	-572.7	608.3	582.9	25.37	23.978	
6,300.0	6,281.5	6,260.1	6,219.4	13.0	16.2	95.72	-377.8	-582.8	619.3	593.4	25.83	23.971	
6,400.0	6,381.1	6,359.5	6,318.1	13.2	16.5	101.35	-384.6	-592.9	630.3	604.0	26.31	23.959	
6,500.0	6,480.9	6,457.8	6,415.6	13.3	16.7	-93.41	-389.8	-602.9	641.1	614.5	26.60	24.104	
6,600.0	6,579.5	6,555.9	6,513.0	13.3	16.9	-90.49	-383.3	-612.9	651.8	625.2	26.63	24.482	
6,700.0	6,674.9	6,655.5	6,609.9	13.2	16.9	-89.79	-363.2	-622.8	662.4	636.0	26.44	25.055	
6,800.0	6,765.2	6,756.6	6,704.5	13.0	16.9	-89.51	-329.1	-632.5	672.5	646.5	26.09	25.779	
6,900.0	6,848.6	6,859.2	6,794.7	12.8	16.9	-89.40	-281.2	-641.8	682.1	656.4	25.66	26.580	
7,000.0	6,923.6	6,963.4	6,878.3	12.6	16.8	-89.38	-219.8	-650.3	690.8	665.5	25.26	27.345	
7,100.0	6,988.6	7,069.2	6,953.3	12.5	16.8	-89.42	-145.7	-658.0	698.5	673.4	25.02	27.917	
7,200.0	7,042.5	7,176.4	7,017.4	12.6	16.9	-89.49	-60.1	-664.6	704.9	679.9	25.06	28.125	
7,300.0	7,084.1	7,285.1	7,068.6	12.8	17.1	-89.60	35.5	-669.8	710.1	684.6	25.51	27.832	
7,400.0	7,112.7	7,394.8	7,105.1	13.3	17.5	-89.74	138.8	-673.6	713.7	687.3	26.43	27.007	
7,500.0	7,127.7	7,505.5	7,125.7	14.0	18.0	-89.89	247.4	-675.7	715.7	687.9	27.82	25.730	
7,600.0	7,130.0	7,613.5	7,130.0	14.8	18.7	-90.00	355.2	-676.1	716.1	686.5	29.59	24.198	
7,700.0	7,130.0	7,713.5	7,130.0	15.8	19.5	-90.00	455.2	-676.1	716.1	684.5	31.60	22.662	
7,800.0	7,130.0	7,813.5	7,130.0	16.9	20.5	-90.00	555.2	-676.1	716.1	682.3	33.85	21.154	
7,900.0	7,130.0	7,913.5	7,130.0	18.2	21.5	-90.00	655.2	-676.1	716.1	679.8	36.30	19.725	
8,000.0	7,130.0	8,013.5	7,130.0	19.5	22.6	-90.00	755.2	-676.1	716.1	677.2	38.92	18.400	
8,100.0	7,130.0	8,113.5	7,130.0	20.8	23.8	-90.00	855.2	-676.1	716.1	674.4	41.66	17.188	
8,200.0	7,130.0	8,213.5	7,130.0	22.3	25.1	-90.00	955.2	-676.1	716.1	671.6	44.52	16.086	
8,300.0	7,130.0	8,313.5	7,130.0	23.7	26.4	-90.00	1,055.2	-676.1	716.1	668.7	47.46	15.089	
8,400.0	7,130.0	8,413.5	7,130.0	25.2	27.7	-90.00	1,155.2	-676.1	716.1	665.6	50.47	14.188	
8,500.0	7,130.0	8,513.5	7,130.0	26.8	29.1	-90.00	1,255.2	-676.1	716.1	662.6	53.55	13.374	
8,600.0	7,130.0	8,613.5	7,130.0	28.3	30.6	-90.00	1,355.2	-676.1	716.1	659.4	56.67	12.637	
8,700.0	7,130.0	8,713.5	7,130.0	29.9	32.1	-90.00	1,455.2	-676.1	716.1	656.3	59.84	11.968	
8,800.0	7,130.0	8,813.5	7,130.0	31.5	33.6	-90.00	1,555.2	-676.1	716.1	653.1	63.04	11.360	
8,900.0	7,130.0	8,913.5	7,130.0	33.1	35.1	-90.00	1,655.2	-676.1	716.1	649.8	66.27	10.805	
9,000.0	7,130.0	9,013.5	7,130.0	34.8	36.6	-90.00	1,755.2	-676.1	716.1	646.6	69.53	10.299	
9,100.0	7,130.0	9,113.5	7,130.0	36.4	38.2	-90.00	1,855.2	-676.1	716.1	643.3	72.82	9.834	
9,200.0	7,130.0	9,213.5	7,130.0	38.1	39.8	-90.00	1,955.2	-676.1	716.1	640.0	76.12	9.408	
9,300.0	7,130.0	9,313.5	7,130.0	39.7	41.4	-90.00	2,055.2	-676.1	716.1	636.7	79.44	9.014	
9,400.0	7,130.0	9,413.5	7,130.0	41.4	43.0	-90.00	2,155.2	-676.1	715.8	633.0	82.87	8.638	
9,500.0	7,130.0	9,513.5	7,130.0	43.1	44.6	-90.00	2,255.2	-676.1	714.2	628.0	86.30	8.277	
9,600.0	7,130.0	9,613.4	7,130.0	44.7	46.2	-90.00	2,355.2	-676.1	712.5	622.8	89.66	7.946	
9,700.0	7,130.0	9,713.4	7,130.0	46.4	47.8	-90.00	2,455.2	-676.1	710.7	617.6	93.03	7.639	
9,800.0	7,130.0	9,813.4	7,130.0	48.1	49.5	-90.00	2,555.1	-676.1	708.9	612.5	96.41	7.352	
9,900.0	7,130.0	9,913.4	7,130.0	49.8	51.1	-90.00	2,655.1	-676.1	707.1	607.3	99.81	7.085	
10,000.0	7,130.0	10,013.4	7,130.0	51.5	52.8	-90.00	2,755.1	-676.1	705.3	602.1	103.21	6.834	
10,100.0	7,130.0	10,113.4	7,130.0	53.2	54.5	-90.00	2,855.1	-676.1	703.5	596.9	106.61	6.599	
10,200.0	7,130.0	10,213.3	7,130.0	54.9	56.1	-90.00	2,955.1	-676.1	701.7	591.7	110.02	6.378	
10,300.0	7,130.0	10,313.3	7,130.0	56.6	57.8	-90.00	3,055.1	-676.1	699.9	586.5	113.44	6.170	

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 4F-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 4F-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	7,130.0	10,413.3	7,130.0	58.3	59.5	-90.00	3,155.1	-676.1	698.2	581.3	116.87	5.974	
10,500.0	7,130.0	10,513.3	7,130.0	60.1	61.2	-90.00	3,255.0	-676.1	696.4	576.1	120.30	5.789	
10,600.0	7,130.0	10,613.3	7,130.0	61.8	62.8	-90.00	3,355.0	-676.1	694.6	570.9	123.73	5.614	
10,700.0	7,130.0	10,713.3	7,130.0	63.5	64.5	-90.00	3,455.0	-676.1	692.8	565.6	127.17	5.448	
10,800.0	7,130.0	10,813.2	7,130.0	65.2	66.2	-90.00	3,555.0	-676.1	691.0	560.4	130.61	5.291	
10,900.0	7,130.0	10,913.2	7,130.0	66.9	67.9	-90.00	3,655.0	-676.1	689.2	555.2	134.05	5.141	
11,000.0	7,130.0	11,013.2	7,130.0	68.7	69.6	-90.00	3,755.0	-676.1	687.4	549.9	137.50	5.000	
11,100.0	7,130.0	11,113.2	7,130.0	70.4	71.3	-90.00	3,854.9	-676.1	685.6	544.7	140.95	4.864	
11,200.0	7,130.0	11,213.2	7,130.0	72.1	73.0	-90.00	3,954.9	-676.1	683.9	539.4	144.40	4.736	
11,300.0	7,130.0	11,313.2	7,130.0	73.8	74.7	-90.00	4,054.9	-676.1	682.1	534.2	147.86	4.613	
11,400.0	7,130.0	11,413.1	7,130.0	75.6	76.4	-90.00	4,154.9	-676.1	680.3	529.0	151.32	4.496	
11,500.0	7,130.0	11,513.1	7,130.0	77.3	78.2	-90.00	4,254.9	-676.1	678.5	523.7	154.78	4.384	
11,600.0	7,130.0	11,613.1	7,130.0	79.0	79.9	-90.00	4,354.9	-676.1	676.7	518.5	158.24	4.276	
11,664.3	7,130.0	11,677.4	7,130.0	80.1	81.0	-90.00	4,419.1	-676.1	675.5	515.1	160.47	4.210	SF

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference 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	-90.09	0.0	-15.1	15.1				
100.0	100.0	100.0	100.0	0.2	0.2	-90.09	0.0	-15.1	15.1	14.8	0.30	49.687	
200.0	200.0	200.0	200.0	0.3	0.3	-90.09	0.0	-15.1	15.1	14.4	0.65	23.117	
300.0	300.0	300.0	300.0	0.5	0.5	-90.09	0.0	-15.1	15.1	14.1	1.00	15.062	
400.0	400.0	400.0	400.0	0.7	0.7	-90.09	0.0	-15.1	15.1	13.7	1.35	11.170	
500.0	500.0	500.0	500.0	0.8	0.8	-90.09	0.0	-15.1	15.1	13.4	1.70	8.876	CC, ES
600.0	600.0	599.8	599.8	1.0	1.0	-92.36	-0.6	-15.7	15.7	13.7	2.05	7.668	
700.0	700.0	699.6	699.5	1.2	1.2	-98.14	-2.5	-17.5	17.7	15.3	2.40	7.381	
800.0	800.0	799.2	799.0	1.4	1.4	-105.25	-5.6	-20.6	21.3	18.6	2.75	7.755	
900.0	900.0	898.6	898.3	1.5	1.6	-111.83	-9.9	-24.8	26.8	23.7	3.10	8.629	
1,000.0	1,000.0	997.8	997.2	1.7	1.8	-117.11	-15.5	-30.2	34.1	30.6	3.45	9.869	
1,100.0	1,100.0	1,097.0	1,096.0	1.9	2.0	-121.06	-22.1	-36.7	43.1	39.3	3.80	11.329	
1,200.0	1,200.0	1,196.6	1,195.0	2.1	2.2	-123.71	-29.0	-43.4	52.5	48.3	4.15	12.642	
1,300.0	1,300.0	1,296.1	1,294.1	2.2	2.4	-125.55	-35.8	-50.2	61.9	57.4	4.50	13.768	
1,400.0	1,400.0	1,395.6	1,393.2	2.4	2.7	-126.90	-42.7	-56.9	71.5	66.6	4.85	14.742	
1,500.0	1,500.0	1,495.2	1,492.2	2.6	2.9	-127.93	-49.6	-63.6	81.0	75.8	5.20	15.592	
1,600.0	1,600.0	1,594.7	1,591.3	2.8	3.1	-128.75	-56.4	-70.3	90.6	85.1	5.55	16.338	
1,700.0	1,700.0	1,694.2	1,690.4	2.9	3.4	-129.40	-63.3	-77.1	100.2	94.3	5.89	16.999	
1,800.0	1,800.0	1,793.8	1,789.5	3.1	3.6	-129.95	-70.2	-83.8	109.8	103.5	6.24	17.588	
1,900.0	1,900.0	1,893.3	1,888.5	3.3	3.8	-130.40	-77.0	-90.5	119.4	112.8	6.59	18.116	
2,000.0	2,000.0	1,992.9	1,987.6	3.5	4.1	54.26	-83.9	-97.2	128.5	121.6	6.93	18.550	
2,100.0	2,100.0	2,092.5	2,086.8	3.6	4.3	54.73	-90.8	-104.0	136.6	129.3	7.28	18.768	
2,200.0	2,199.9	2,192.3	2,186.1	3.8	4.5	55.72	-97.7	-110.7	143.7	136.1	7.63	18.829	
2,300.0	2,299.7	2,292.0	2,285.3	4.0	4.8	57.17	-104.5	-117.4	149.9	142.0	7.99	18.757	
2,400.0	2,399.4	2,391.7	2,384.6	4.2	5.0	59.05	-111.4	-124.2	155.4	147.0	8.36	18.575	
2,500.0	2,498.9	2,491.4	2,483.8	4.4	5.3	61.31	-118.3	-130.9	160.2	151.4	8.75	18.317	
2,600.0	2,598.5	2,591.1	2,583.0	4.6	5.5	63.51	-125.2	-137.6	165.2	156.0	9.14	18.077	
2,700.0	2,698.0	2,690.8	2,682.2	4.8	5.7	65.58	-132.0	-144.4	170.4	160.8	9.54	17.866	
2,800.0	2,797.5	2,790.4	2,781.5	5.0	6.0	67.53	-138.9	-151.1	175.8	165.9	9.94	17.678	
2,900.0	2,897.1	2,890.1	2,880.7	5.2	6.2	69.36	-145.8	-157.8	181.4	171.1	10.36	17.512	
3,000.0	2,996.6	2,989.8	2,979.9	5.4	6.4	71.08	-152.7	-164.6	187.2	176.4	10.78	17.364	
3,100.0	3,096.2	3,089.5	3,079.1	5.6	6.7	72.70	-159.5	-171.3	193.1	181.9	11.21	17.233	
3,200.0	3,195.7	3,189.2	3,178.3	5.8	6.9	74.21	-166.4	-178.0	199.2	187.6	11.64	17.116	
3,300.0	3,295.2	3,288.8	3,277.5	6.1	7.2	75.64	-173.3	-184.8	205.5	193.4	12.08	17.013	
3,400.0	3,394.8	3,388.5	3,376.7	6.3	7.4	76.98	-180.2	-191.5	211.8	199.3	12.52	16.920	
3,500.0	3,494.3	3,488.2	3,476.0	6.5	7.6	78.25	-187.0	-198.2	218.2	205.3	12.96	16.838	
3,600.0	3,593.9	3,587.9	3,575.2	6.7	7.9	79.44	-193.9	-205.0	224.8	211.4	13.41	16.765	
3,700.0	3,693.4	3,687.5	3,674.4	7.0	8.1	80.56	-200.8	-211.7	231.4	217.6	13.86	16.700	
3,800.0	3,792.9	3,787.2	3,773.6	7.2	8.4	81.62	-207.7	-218.4	238.1	223.8	14.31	16.643	
3,900.0	3,892.5	3,886.9	3,872.8	7.4	8.6	82.62	-214.5	-225.2	244.9	230.2	14.76	16.591	
4,000.0	3,992.0	3,986.6	3,972.0	7.6	8.9	83.57	-221.4	-231.9	251.8	236.6	15.22	16.546	
4,100.0	4,091.6	4,086.3	4,071.2	7.9	9.1	84.47	-228.3	-238.6	258.8	243.1	15.68	16.506	
4,200.0	4,191.1	4,185.9	4,170.5	8.1	9.3	85.32	-235.2	-245.3	265.8	249.6	16.14	16.470	
4,300.0	4,290.6	4,285.6	4,269.7	8.3	9.6	86.13	-242.0	-252.1	272.8	256.2	16.59	16.439	
4,400.0	4,390.2	4,385.3	4,368.9	8.5	9.8	86.89	-248.9	-258.8	279.9	262.8	17.06	16.412	
4,500.0	4,489.7	4,485.0	4,468.1	8.8	10.1	87.62	-255.8	-265.5	287.1	269.5	17.52	16.387	
4,600.0	4,589.3	4,584.7	4,567.3	9.0	10.3	88.31	-262.7	-272.3	294.2	276.3	17.98	16.366	
4,700.0	4,688.8	4,684.3	4,666.5	9.2	10.5	88.97	-269.5	-279.0	301.5	283.0	18.44	16.348	
4,800.0	4,788.3	4,784.0	4,765.7	9.5	10.8	89.60	-276.4	-285.7	308.8	289.8	18.90	16.332	
4,900.0	4,887.9	4,883.7	4,865.0	9.7	11.0	90.20	-283.3	-292.5	316.1	296.7	19.37	16.318	
5,000.0	4,987.4	4,983.4	4,964.2	9.9	11.3	90.77	-290.2	-299.2	323.4	303.6	19.83	16.306	
5,100.0	5,087.0	5,083.1	5,063.4	10.2	11.5	91.32	-297.0	-305.9	330.8	310.5	20.30	16.296	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference 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	5,186.5	5,182.7	5,162.6	10.4	11.7	91.84	-303.9	-312.7	338.2	317.4	20.76	16.288	
5,300.0	5,286.0	5,282.4	5,261.8	10.6	12.0	92.34	-310.8	-319.4	345.6	324.4	21.23	16.281	
5,400.0	5,385.6	5,382.1	5,361.0	10.9	12.2	92.82	-317.7	-326.1	353.0	331.4	21.69	16.275	
5,500.0	5,485.1	5,481.8	5,460.2	11.1	12.5	93.28	-324.5	-332.9	360.5	338.4	22.16	16.271	
5,600.0	5,584.7	5,581.5	5,559.4	11.3	12.7	93.72	-331.4	-339.6	368.0	345.4	22.62	16.267	
5,700.0	5,684.2	5,681.1	5,658.7	11.6	13.0	94.15	-338.3	-346.3	375.5	352.4	23.09	16.265	
5,800.0	5,783.8	5,780.8	5,757.9	11.8	13.2	94.55	-345.2	-353.1	383.1	359.5	23.55	16.263	
5,900.0	5,883.3	5,880.5	5,857.1	12.1	13.4	94.94	-352.0	-359.8	390.6	366.6	24.02	16.263	
6,000.0	5,982.8	5,980.2	5,956.3	12.3	13.7	95.32	-358.9	-366.5	398.2	373.7	24.49	16.262	
6,100.0	6,082.4	6,079.9	6,055.5	12.5	13.9	95.68	-365.8	-373.3	405.8	380.8	24.95	16.263	
6,200.0	6,181.9	6,179.5	6,154.7	12.8	14.2	96.03	-372.7	-380.0	413.4	388.0	25.42	16.264	
6,300.0	6,281.5	6,279.2	6,253.9	13.0	14.4	96.37	-379.5	-386.7	421.0	395.1	25.88	16.266	
6,400.0	6,381.1	6,378.9	6,353.2	13.2	14.6	101.96	-386.4	-393.5	428.6	402.3	26.34	16.273	
6,500.0	6,480.9	6,477.9	6,451.8	13.3	14.9	-93.61	-393.1	-400.2	435.9	409.3	26.60	16.386	
6,600.0	6,579.5	6,576.7	6,550.2	13.3	15.0	-91.91	-390.9	-406.8	443.4	416.8	26.61	16.667	
6,700.0	6,674.9	6,677.4	6,649.3	13.2	15.1	-92.39	-374.8	-413.6	451.1	424.7	26.39	17.090	
6,800.0	6,765.2	6,780.3	6,747.2	13.0	15.0	-93.21	-344.1	-420.2	458.8	432.8	26.03	17.626	
6,900.0	6,848.6	6,885.4	6,841.6	12.8	14.9	-94.12	-298.6	-426.6	466.3	440.7	25.59	18.220	
7,000.0	6,923.6	6,992.7	6,930.1	12.6	14.8	-95.00	-238.4	-432.6	473.5	448.3	25.19	18.793	
7,100.0	6,988.6	7,102.3	7,010.1	12.5	14.7	-95.82	-163.9	-438.0	480.0	455.0	24.95	19.237	
7,200.0	7,042.5	7,213.9	7,079.0	12.6	14.7	-96.55	-76.4	-442.7	485.6	460.6	25.00	19.426	
7,300.0	7,084.1	7,327.3	7,134.4	12.8	14.9	-97.16	22.5	-446.5	490.2	464.8	25.44	19.271	
7,400.0	7,112.7	7,442.3	7,173.9	13.3	15.3	-97.64	130.3	-449.2	493.5	467.2	26.33	18.743	
7,500.0	7,127.7	7,558.4	7,195.7	14.0	15.9	-97.98	244.2	-450.6	495.4	467.8	27.69	17.893	
7,600.0	7,130.0	7,669.6	7,200.0	14.8	16.8	-98.11	355.2	-450.9	495.9	466.5	29.44	16.847	
7,700.0	7,130.0	7,769.6	7,200.0	15.8	17.6	-98.11	455.2	-450.9	495.9	464.5	31.43	15.779	
7,800.0	7,130.0	7,869.6	7,200.0	16.9	18.7	-98.11	555.2	-450.9	495.9	462.2	33.65	14.735	
7,900.0	7,130.0	7,969.6	7,200.0	18.2	19.8	-98.11	655.2	-450.9	495.9	459.8	36.08	13.745	
8,000.0	7,130.0	8,069.6	7,200.0	19.5	21.0	-98.11	755.2	-450.9	495.9	457.2	38.66	12.826	
8,100.0	7,130.0	8,169.6	7,200.0	20.8	22.3	-98.11	855.2	-450.9	495.9	454.5	41.38	11.985	
8,200.0	7,130.0	8,269.6	7,200.0	22.3	23.6	-98.11	955.2	-450.9	495.9	451.7	44.20	11.220	
8,300.0	7,130.0	8,369.6	7,200.0	23.7	25.0	-98.11	1,055.2	-450.9	495.9	448.8	47.11	10.527	
8,400.0	7,130.0	8,469.6	7,200.0	25.2	26.4	-98.11	1,155.2	-450.9	495.9	445.8	50.09	9.901	
8,500.0	7,130.0	8,569.6	7,200.0	26.8	27.9	-98.11	1,255.2	-450.9	495.9	442.8	53.13	9.334	
8,600.0	7,130.0	8,669.6	7,200.0	28.3	29.4	-98.11	1,355.2	-450.9	495.9	439.7	56.22	8.821	
8,700.0	7,130.0	8,769.6	7,200.0	29.9	30.9	-98.11	1,455.2	-450.9	495.9	436.5	59.35	8.355	
8,800.0	7,130.0	8,869.6	7,200.0	31.5	32.5	-98.11	1,555.2	-450.9	495.9	433.4	62.52	7.932	
8,900.0	7,130.0	8,969.6	7,200.0	33.1	34.1	-98.11	1,655.2	-450.9	495.9	430.2	65.72	7.545	
9,000.0	7,130.0	9,069.6	7,200.0	34.8	35.7	-98.11	1,755.2	-450.9	495.9	426.9	68.95	7.192	
9,100.0	7,130.0	9,169.6	7,200.0	36.4	37.3	-98.11	1,855.2	-450.9	495.9	423.7	72.20	6.869	
9,200.0	7,130.0	9,269.6	7,200.0	38.1	38.9	-98.11	1,955.2	-450.9	495.9	420.4	75.47	6.571	
9,300.0	7,130.0	9,369.6	7,200.0	39.7	40.5	-98.11	2,055.2	-450.9	495.9	417.1	78.75	6.297	
9,400.0	7,130.0	9,469.6	7,200.0	41.4	42.1	-98.12	2,155.2	-450.9	495.6	413.5	82.11	6.036	
9,500.0	7,130.0	9,569.6	7,200.0	43.1	43.8	-98.15	2,255.2	-450.9	494.1	408.6	85.47	5.780	
9,600.0	7,130.0	9,669.6	7,200.0	44.7	45.4	-98.18	2,355.2	-450.9	492.3	403.5	88.79	5.544	
9,700.0	7,130.0	9,769.6	7,200.0	46.4	47.1	-98.21	2,455.2	-450.9	490.5	398.4	92.12	5.324	
9,800.0	7,130.0	9,869.6	7,200.0	48.1	48.8	-98.24	2,555.1	-450.9	488.7	393.3	95.46	5.120	
9,900.0	7,130.0	9,969.5	7,200.0	49.8	50.4	-98.27	2,655.1	-450.9	487.0	388.2	98.81	4.928	
10,000.0	7,130.0	10,069.5	7,200.0	51.5	52.1	-98.30	2,755.1	-450.9	485.2	383.0	102.17	4.749	
10,100.0	7,130.0	10,169.5	7,200.0	53.2	53.8	-98.33	2,855.1	-450.9	483.4	377.9	105.53	4.581	
10,200.0	7,130.0	10,269.5	7,200.0	54.9	55.5	-98.36	2,955.1	-450.9	481.7	372.8	108.90	4.423	
10,300.0	7,130.0	10,369.5	7,200.0	56.6	57.2	-98.39	3,055.1	-450.9	479.9	367.6	112.27	4.274	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference 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	7,130.0	10,469.5	7,200.0	58.3	58.9	-98.42	3,155.1	-450.9	478.1	362.5	115.65	4.134	
10,500.0	7,130.0	10,569.5	7,200.0	60.1	60.6	-98.45	3,255.0	-450.9	476.4	357.3	119.03	4.002	
10,600.0	7,130.0	10,669.4	7,200.0	61.8	62.3	-98.48	3,355.0	-450.9	474.6	352.2	122.42	3.877	
10,700.0	7,130.0	10,769.4	7,200.0	63.5	64.0	-98.52	3,455.0	-450.9	472.8	347.0	125.81	3.758	
10,800.0	7,130.0	10,869.4	7,200.0	65.2	65.7	-98.55	3,555.0	-450.9	471.1	341.8	129.20	3.646	
10,900.0	7,130.0	10,969.4	7,200.0	66.9	67.4	-98.58	3,655.0	-450.9	469.3	336.7	132.60	3.539	
11,000.0	7,130.0	11,069.4	7,200.0	68.7	69.1	-98.61	3,755.0	-450.9	467.5	331.5	135.99	3.438	
11,100.0	7,130.0	11,169.4	7,200.0	70.4	70.8	-98.65	3,854.9	-450.9	465.7	326.4	139.39	3.341	
11,200.0	7,130.0	11,269.3	7,200.0	72.1	72.6	-98.68	3,954.9	-450.9	464.0	321.2	142.80	3.249	
11,300.0	7,130.0	11,369.3	7,200.0	73.8	74.3	-98.71	4,054.9	-450.9	462.2	316.0	146.20	3.161	
11,400.0	7,130.0	11,469.3	7,200.0	75.6	76.0	-98.75	4,154.9	-450.9	460.4	310.8	149.61	3.078	
11,500.0	7,130.0	11,569.3	7,200.0	77.3	77.7	-98.78	4,254.9	-450.9	458.7	305.7	153.01	2.998	
11,600.0	7,130.0	11,669.3	7,200.0	79.0	79.4	-98.81	4,354.9	-450.9	456.9	300.5	156.42	2.921	
11,664.3	7,130.0	11,733.5	7,200.0	80.1	80.5	-98.84	4,419.1	-450.9	455.8	297.2	158.61	2.874	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	-90.25	0.0	-7.5	7.5				
100.0	100.0	100.0	100.0	0.2	0.2	-90.25	0.0	-7.5	7.5	7.2	0.30	24.844	
200.0	200.0	200.0	200.0	0.3	0.3	-90.25	0.0	-7.5	7.5	6.9	0.65	11.558	
300.0	300.0	300.0	300.0	0.5	0.5	-90.25	0.0	-7.5	7.5	6.5	1.00	7.531	
400.0	400.0	400.0	400.0	0.7	0.7	-90.25	0.0	-7.5	7.5	6.2	1.35	5.585	
500.0	500.0	500.0	500.0	0.8	0.8	-90.25	0.0	-7.5	7.5	5.8	1.70	4.438	
600.0	600.0	600.0	600.0	1.0	1.0	-90.25	0.0	-7.5	7.5	5.5	2.05	3.682	CC, ES
700.0	700.0	699.9	699.9	1.2	1.2	-95.78	-0.8	-8.0	8.0	5.6	2.40	3.332	
800.0	800.0	799.8	799.8	1.4	1.4	-108.77	-3.1	-9.2	9.7	6.9	2.75	3.524	
900.0	900.0	899.5	899.4	1.5	1.6	-121.88	-7.0	-11.2	13.2	10.1	3.10	4.257	
1,000.0	1,000.0	999.1	998.8	1.7	1.7	-131.33	-12.3	-14.0	18.7	15.3	3.45	5.424	
1,100.0	1,100.0	1,098.7	1,098.0	1.9	1.9	-137.32	-19.0	-17.5	26.0	22.2	3.80	6.834	
1,200.0	1,200.0	1,198.3	1,197.4	2.1	2.1	-140.76	-25.9	-21.2	33.6	29.4	4.15	8.094	
1,300.0	1,300.0	1,298.0	1,296.8	2.2	2.4	-142.92	-32.8	-24.8	41.2	36.8	4.50	9.176	
1,400.0	1,400.0	1,397.7	1,396.2	2.4	2.6	-144.40	-39.7	-28.4	49.0	44.1	4.84	10.110	
1,500.0	1,500.0	1,497.4	1,495.6	2.6	2.8	-145.48	-46.6	-32.1	56.7	51.5	5.19	10.923	
1,600.0	1,600.0	1,597.1	1,595.0	2.8	3.0	-146.29	-53.5	-35.7	64.5	58.9	5.54	11.637	
1,700.0	1,700.0	1,696.8	1,694.4	2.9	3.2	-146.94	-60.4	-39.3	72.3	66.4	5.89	12.268	
1,800.0	1,800.0	1,796.5	1,793.8	3.1	3.4	-147.45	-67.3	-42.9	80.0	73.8	6.24	12.830	
1,900.0	1,900.0	1,896.2	1,893.2	3.3	3.6	-147.88	-74.2	-46.6	87.8	81.2	6.59	13.333	
2,000.0	2,000.0	1,996.0	1,992.6	3.5	3.8	36.85	-81.1	-50.2	94.9	88.0	6.93	13.697	
2,100.0	2,100.0	2,095.8	2,092.1	3.6	4.1	37.38	-88.0	-53.8	100.6	93.4	7.28	13.822	
2,200.0	2,199.9	2,195.7	2,191.7	3.8	4.3	38.44	-94.9	-57.5	105.0	97.3	7.63	13.754	
2,300.0	2,299.7	2,295.6	2,291.3	4.0	4.5	40.00	-101.8	-61.1	108.0	100.0	7.99	13.524	
2,400.0	2,399.4	2,395.5	2,390.9	4.2	4.7	42.09	-108.7	-64.7	109.8	101.5	8.35	13.157	
2,500.0	2,498.9	2,495.4	2,490.5	4.4	4.9	44.67	-115.6	-68.4	110.7	102.0	8.72	12.696	
2,600.0	2,598.5	2,595.2	2,590.0	4.6	5.1	47.28	-122.5	-72.0	111.6	102.5	9.10	12.268	
2,700.0	2,698.0	2,695.1	2,689.6	4.8	5.4	49.85	-129.4	-75.6	112.8	103.3	9.49	11.888	
2,800.0	2,797.5	2,795.0	2,789.2	5.0	5.6	52.35	-136.3	-79.3	114.2	104.3	9.89	11.550	
2,900.0	2,897.1	2,894.8	2,888.7	5.2	5.8	54.80	-143.2	-82.9	115.8	105.5	10.30	11.250	
3,000.0	2,996.6	2,994.7	2,988.3	5.4	6.0	57.17	-150.1	-86.5	117.6	106.9	10.71	10.983	
3,100.0	3,096.2	3,094.6	3,087.8	5.6	6.2	59.46	-157.0	-90.2	119.6	108.5	11.13	10.746	
3,200.0	3,195.7	3,194.4	3,187.4	5.8	6.5	61.68	-163.9	-93.8	121.8	110.3	11.56	10.536	
3,300.0	3,295.2	3,294.3	3,287.0	6.1	6.7	63.82	-170.8	-97.4	124.2	112.2	12.00	10.350	
3,400.0	3,394.8	3,394.2	3,386.5	6.3	6.9	65.87	-177.7	-101.1	126.7	114.3	12.44	10.186	
3,500.0	3,494.3	3,494.0	3,486.1	6.5	7.1	67.84	-184.6	-104.7	129.4	116.5	12.89	10.041	
3,600.0	3,593.9	3,593.9	3,585.6	6.7	7.3	69.73	-191.5	-108.3	132.3	118.9	13.34	9.914	
3,700.0	3,693.4	3,693.8	3,685.2	7.0	7.6	71.53	-198.4	-112.0	135.3	121.5	13.80	9.802	
3,800.0	3,792.9	3,793.6	3,784.8	7.2	7.8	73.26	-205.3	-115.6	138.4	124.1	14.26	9.705	
3,900.0	3,892.5	3,893.5	3,884.3	7.4	8.0	74.91	-212.2	-119.2	141.6	126.9	14.72	9.620	
4,000.0	3,992.0	3,993.4	3,983.9	7.6	8.2	76.49	-219.2	-122.9	144.9	129.7	15.18	9.546	
4,100.0	4,091.6	4,093.2	4,083.5	7.9	8.4	77.99	-226.1	-126.5	148.4	132.7	15.65	9.482	
4,200.0	4,191.1	4,193.1	4,183.0	8.1	8.7	79.43	-233.0	-130.1	151.9	135.8	16.11	9.427	
4,300.0	4,290.6	4,293.0	4,282.6	8.3	8.9	80.79	-239.9	-133.8	155.5	139.0	16.58	9.381	
4,400.0	4,390.2	4,392.8	4,382.1	8.5	9.1	82.10	-246.8	-137.4	159.3	142.2	17.05	9.341	
4,500.0	4,489.7	4,492.7	4,481.7	8.8	9.3	83.35	-253.7	-141.0	163.0	145.5	17.52	9.308	
4,600.0	4,589.3	4,592.6	4,581.3	9.0	9.5	84.53	-260.6	-144.7	166.9	148.9	17.99	9.281	
4,700.0	4,688.8	4,692.4	4,680.8	9.2	9.8	85.67	-267.5	-148.3	170.9	152.4	18.45	9.259	
4,800.0	4,788.3	4,792.3	4,780.4	9.5	10.0	86.75	-274.4	-152.0	174.9	155.9	18.92	9.241	
4,900.0	4,887.9	4,892.2	4,879.9	9.7	10.2	87.78	-281.3	-155.6	178.9	159.5	19.39	9.227	
5,000.0	4,987.4	4,992.0	4,979.5	9.9	10.4	88.77	-288.2	-159.2	183.0	163.2	19.86	9.217	
5,100.0	5,087.0	5,091.9	5,079.1	10.2	10.6	89.72	-295.1	-162.9	187.2	166.9	20.32	9.211	

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 4F-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 4F-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	5,186.5	5,191.8	5,178.6	10.4	10.9	90.62	-302.0	-166.5	191.4	170.6	20.79	9.207	
5,300.0	5,286.0	5,291.6	5,278.2	10.6	11.1	91.48	-308.9	-170.1	195.7	174.4	21.26	9.205	
5,400.0	5,385.6	5,391.5	5,377.8	10.9	11.3	92.31	-315.8	-173.8	200.0	178.3	21.72	9.206	
5,500.0	5,485.1	5,491.4	5,477.3	11.1	11.5	93.10	-322.7	-177.4	204.3	182.1	22.19	9.209	
5,600.0	5,584.7	5,591.2	5,576.9	11.3	11.7	93.86	-329.6	-181.0	208.7	186.1	22.65	9.214	
5,700.0	5,684.2	5,691.1	5,676.4	11.6	12.0	94.59	-336.5	-184.7	213.1	190.0	23.12	9.220	
5,800.0	5,783.8	5,790.9	5,776.0	11.8	12.2	95.28	-343.4	-188.3	217.6	194.0	23.58	9.228	
5,900.0	5,883.3	5,890.8	5,875.6	12.1	12.4	95.95	-350.3	-191.9	222.1	198.0	24.04	9.237	
6,000.0	5,982.8	5,990.7	5,975.1	12.3	12.6	96.60	-357.2	-195.6	226.6	202.1	24.50	9.247	
6,100.0	6,082.4	6,090.5	6,074.7	12.5	12.8	97.22	-364.1	-199.2	231.1	206.1	24.96	9.257	
6,200.0	6,181.9	6,190.4	6,174.2	12.8	13.1	97.81	-371.0	-202.8	235.7	210.2	25.43	9.269	
6,300.0	6,281.5	6,290.3	6,273.8	13.0	13.3	98.38	-378.0	-206.5	240.3	214.4	25.89	9.282	
6,400.0	6,381.1	6,390.2	6,373.4	13.2	13.5	104.02	-384.9	-210.1	244.8	218.5	26.33	9.298	
6,500.0	6,480.9	6,489.5	6,472.5	13.3	13.7	-92.79	-391.7	-213.7	248.8	222.2	26.60	9.353	
6,600.0	6,579.5	6,586.7	6,569.3	13.3	13.9	-94.59	-398.4	-217.2	253.4	226.8	26.64	9.514	
6,700.0	6,674.9	6,685.2	6,667.7	13.2	14.1	-100.10	-400.5	-220.8	261.4	235.1	26.38	9.909	
6,800.0	6,765.2	6,789.0	6,770.6	13.0	14.1	-105.66	-388.1	-224.6	272.8	246.9	25.88	10.543	
6,900.0	6,848.6	6,898.4	6,875.9	12.8	14.0	-110.80	-359.2	-228.4	286.7	261.5	25.19	11.381	
7,000.0	6,923.6	7,014.0	6,981.0	12.6	13.9	-115.35	-311.6	-232.3	302.1	277.7	24.44	12.364	
7,100.0	6,988.6	7,136.4	7,082.4	12.5	13.7	-119.23	-243.5	-236.0	317.9	294.1	23.74	13.391	
7,200.0	7,042.5	7,265.7	7,175.4	12.6	13.5	-122.40	-153.9	-239.4	332.6	309.4	23.24	14.311	
7,300.0	7,084.1	7,401.6	7,254.0	12.8	13.5	-124.84	-43.3	-242.2	345.2	322.1	23.10	14.944	
7,400.0	7,112.7	7,543.2	7,312.3	13.3	13.9	-126.52	85.5	-244.4	354.5	331.0	23.45	15.116	
7,500.0	7,127.7	7,688.8	7,344.6	14.0	14.7	-127.43	227.2	-245.5	359.7	335.3	24.38	14.752	
7,600.0	7,130.0	7,817.0	7,350.0	14.8	15.7	-127.59	355.2	-245.7	360.6	334.8	25.81	13.973	
7,700.0	7,130.0	7,917.0	7,350.0	15.8	16.7	-127.59	455.2	-245.7	360.6	333.2	27.40	13.164	
7,800.0	7,130.0	8,017.0	7,350.0	16.9	17.7	-127.59	555.2	-245.7	360.6	331.5	29.16	12.366	
7,900.0	7,130.0	8,117.0	7,350.0	18.2	18.9	-127.59	655.2	-245.7	360.6	329.5	31.08	11.602	
8,000.0	7,130.0	8,217.0	7,350.0	19.5	20.2	-127.59	755.2	-245.7	360.6	327.5	33.12	10.887	
8,100.0	7,130.0	8,317.0	7,350.0	20.8	21.5	-127.59	855.2	-245.7	360.6	325.4	35.27	10.225	
8,200.0	7,130.0	8,417.0	7,350.0	22.3	22.9	-127.59	955.2	-245.7	360.6	323.1	37.50	9.617	
8,300.0	7,130.0	8,517.0	7,350.0	23.7	24.3	-127.59	1,055.2	-245.7	360.6	320.8	39.80	9.061	
8,400.0	7,130.0	8,617.0	7,350.0	25.2	25.8	-127.59	1,155.2	-245.7	360.6	318.5	42.16	8.554	
8,500.0	7,130.0	8,717.0	7,350.0	26.8	27.3	-127.59	1,255.2	-245.7	360.6	316.1	44.57	8.091	
8,600.0	7,130.0	8,817.0	7,350.0	28.3	28.9	-127.59	1,355.2	-245.7	360.6	313.6	47.02	7.669	
8,700.0	7,130.0	8,917.0	7,350.0	29.9	30.4	-127.59	1,455.2	-245.7	360.6	311.1	49.51	7.284	
8,800.0	7,130.0	9,017.0	7,350.0	31.5	32.0	-127.59	1,555.2	-245.7	360.6	308.6	52.03	6.931	
8,900.0	7,130.0	9,117.0	7,350.0	33.1	33.6	-127.59	1,655.2	-245.7	360.6	306.1	54.57	6.608	
9,000.0	7,130.0	9,217.0	7,350.0	34.8	35.2	-127.59	1,755.2	-245.7	360.6	303.5	57.14	6.311	
9,100.0	7,130.0	9,317.0	7,350.0	36.4	36.8	-127.59	1,855.2	-245.7	360.6	300.9	59.73	6.038	
9,200.0	7,130.0	9,417.0	7,350.0	38.1	38.5	-127.59	1,955.2	-245.7	360.6	298.3	62.33	5.786	
9,300.0	7,130.0	9,517.0	7,350.0	39.7	40.1	-127.59	2,055.2	-245.7	360.6	295.7	64.95	5.552	
9,400.0	7,130.0	9,617.0	7,350.0	41.4	41.8	-127.62	2,155.2	-245.7	360.4	292.8	67.60	5.332	
9,500.0	7,130.0	9,717.0	7,350.0	43.1	43.4	-127.78	2,255.2	-245.7	359.2	289.0	70.13	5.121	
9,600.0	7,130.0	9,817.0	7,350.0	44.7	45.1	-127.95	2,355.2	-245.7	357.7	285.1	72.63	4.925	
9,700.0	7,130.0	9,917.0	7,350.0	46.4	46.8	-128.13	2,455.2	-245.7	356.3	281.2	75.13	4.743	
9,800.0	7,130.0	10,017.0	7,350.0	48.1	48.4	-128.31	2,555.1	-245.7	354.9	277.3	77.62	4.573	
9,900.0	7,130.0	10,117.0	7,350.0	49.8	50.1	-128.49	2,655.1	-245.7	353.5	273.4	80.10	4.414	
10,000.0	7,130.0	10,216.9	7,350.0	51.5	51.8	-128.67	2,755.1	-245.7	352.1	269.6	82.57	4.264	
10,100.0	7,130.0	10,316.9	7,350.0	53.2	53.5	-128.85	2,855.1	-245.7	350.7	265.7	85.04	4.124	
10,200.0	7,130.0	10,416.9	7,350.0	54.9	55.2	-129.04	2,955.1	-245.7	349.3	261.9	87.49	3.993	
10,300.0	7,130.0	10,516.9	7,350.0	56.6	56.9	-129.22	3,055.1	-245.7	348.0	258.0	89.94	3.869	

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 4F-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 4F-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	7,130.0	10,616.9	7,350.0	58.3	58.6	-129.41	3,155.1	-245.7	346.6	254.2	92.37	3.752	
10,500.0	7,130.0	10,716.9	7,350.0	60.1	60.3	-129.60	3,255.0	-245.7	345.2	250.4	94.79	3.642	
10,600.0	7,130.0	10,816.9	7,350.0	61.8	62.0	-129.79	3,355.0	-245.7	343.8	246.6	97.19	3.537	
10,700.0	7,130.0	10,916.8	7,350.0	63.5	63.8	-129.98	3,455.0	-245.7	342.4	242.9	99.58	3.439	
10,800.0	7,130.0	11,016.8	7,350.0	65.2	65.5	-130.17	3,555.0	-245.7	341.1	239.1	101.96	3.345	
10,900.0	7,130.0	11,116.8	7,350.0	66.9	67.2	-130.37	3,655.0	-245.7	339.7	235.4	104.33	3.256	
11,000.0	7,130.0	11,216.8	7,350.0	68.7	68.9	-130.56	3,755.0	-245.7	338.4	231.7	106.67	3.172	
11,100.0	7,130.0	11,316.8	7,350.0	70.4	70.6	-130.76	3,854.9	-245.7	337.0	228.0	109.01	3.092	
11,200.0	7,130.0	11,425.9	7,350.0	72.1	72.5	-131.19	3,964.1	-243.9	334.3	223.3	111.09	3.010	
11,300.0	7,130.0	11,526.5	7,350.0	73.8	74.2	-131.85	4,064.6	-239.9	330.1	217.4	112.66	2.930	
11,400.0	7,130.0	11,626.4	7,350.0	75.6	75.9	-132.52	4,164.3	-236.0	325.8	211.7	114.13	2.855	
11,500.0	7,130.0	11,726.2	7,350.0	77.3	77.7	-133.21	4,264.1	-232.0	321.6	206.1	115.51	2.784	
11,600.0	7,130.0	11,826.0	7,350.0	79.0	79.4	-133.91	4,363.9	-228.1	317.5	200.7	116.79	2.718	
11,664.3	7,130.0	11,886.4	7,350.0	80.1	80.4	-134.35	4,424.2	-225.7	314.9	197.3	117.56	2.678	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	90.07	0.0	7.3	7.3				
100.0	100.0	100.0	100.0	0.2	0.2	90.07	0.0	7.3	7.3	7.0	0.30	23.923	
200.0	200.0	200.0	200.0	0.3	0.3	90.07	0.0	7.3	7.3	6.6	0.65	11.130	
300.0	300.0	300.0	300.0	0.5	0.5	90.07	0.0	7.3	7.3	6.3	1.00	7.252	
400.0	400.0	400.0	400.0	0.7	0.7	90.07	0.0	7.3	7.3	5.9	1.35	5.378	
500.0	500.0	500.0	500.0	0.8	0.8	90.07	0.0	7.3	7.3	5.6	1.70	4.274	
600.0	600.0	600.0	600.0	1.0	1.0	90.07	0.0	7.3	7.3	5.2	2.05	3.546	
700.0	700.0	700.0	700.0	1.2	1.2	90.07	0.0	7.3	7.3	4.9	2.40	3.030	CC, ES
800.0	800.0	799.9	799.9	1.4	1.4	96.02	-0.8	7.6	7.7	4.9	2.75	2.790	
900.0	900.0	899.8	899.8	1.5	1.6	110.16	-3.2	8.7	9.3	6.2	3.10	2.989	
1,000.0	1,000.0	999.6	999.4	1.7	1.7	124.38	-7.2	10.5	12.7	9.2	3.45	3.681	
1,100.0	1,100.0	1,099.3	1,099.0	1.9	1.9	134.27	-12.5	12.9	18.0	14.2	3.79	4.744	
1,200.0	1,200.0	1,199.1	1,198.6	2.1	2.1	139.76	-18.2	15.4	23.9	19.7	4.14	5.760	
1,300.0	1,300.0	1,298.9	1,298.2	2.2	2.3	143.06	-23.8	17.9	29.9	25.4	4.49	6.648	
1,400.0	1,400.0	1,398.7	1,397.8	2.4	2.5	145.26	-29.5	20.4	35.9	31.1	4.84	7.422	
1,500.0	1,500.0	1,498.5	1,497.4	2.6	2.7	146.82	-35.1	23.0	42.0	36.8	5.19	8.099	
1,600.0	1,600.0	1,598.3	1,597.0	2.8	2.9	147.98	-40.7	25.5	48.1	42.6	5.54	8.694	
1,700.0	1,700.0	1,698.1	1,696.7	2.9	3.1	148.88	-46.4	28.0	54.3	48.4	5.89	9.222	
1,800.0	1,800.0	1,797.9	1,796.3	3.1	3.3	149.60	-52.0	30.5	60.4	54.2	6.23	9.693	
1,900.0	1,900.0	1,897.7	1,895.9	3.3	3.5	150.19	-57.7	33.0	66.6	60.0	6.58	10.114	
2,000.0	2,000.0	1,997.6	1,995.6	3.5	3.7	-24.78	-63.3	35.6	71.9	65.0	6.93	10.376	
2,100.0	2,100.0	2,097.5	2,095.3	3.6	3.9	-25.15	-68.9	38.1	75.7	68.4	7.28	10.398	
2,200.0	2,199.9	2,197.5	2,195.1	3.8	4.1	-26.03	-74.6	40.6	78.0	70.3	7.63	10.213	
2,300.0	2,299.7	2,297.5	2,294.9	4.0	4.3	-27.45	-80.2	43.1	78.6	70.7	7.98	9.850	
2,400.0	2,399.4	2,397.4	2,394.6	4.2	4.5	-29.47	-85.9	45.7	77.8	69.5	8.34	9.337	
2,500.0	2,498.9	2,497.3	2,494.3	4.4	4.7	-32.13	-91.5	48.2	75.9	67.2	8.70	8.720	
2,600.0	2,598.5	2,597.3	2,594.1	4.6	4.9	-35.02	-97.2	50.7	73.9	64.8	9.07	8.143	
2,700.0	2,698.0	2,697.2	2,693.8	4.8	5.1	-38.06	-102.8	53.2	72.1	62.6	9.45	7.626	
2,800.0	2,797.5	2,797.1	2,793.5	5.0	5.3	-41.24	-108.5	55.8	70.5	60.6	9.84	7.164	
2,900.0	2,897.1	2,897.0	2,893.2	5.2	5.5	-44.56	-114.1	58.3	69.1	58.9	10.24	6.752	
3,000.0	2,996.6	2,996.9	2,992.9	5.4	5.7	-48.00	-119.7	60.8	68.0	57.4	10.65	6.386	
3,100.0	3,096.2	3,096.8	3,092.7	5.6	5.9	-51.54	-125.4	63.3	67.2	56.1	11.07	6.065	
3,200.0	3,195.7	3,196.7	3,192.4	5.8	6.1	-55.16	-131.0	65.8	66.6	55.0	11.51	5.783	
3,300.0	3,295.2	3,296.6	3,292.1	6.1	6.3	-58.83	-136.7	68.4	66.2	54.3	11.95	5.540	
3,369.6	3,364.5	3,366.1	3,361.5	6.2	6.5	-61.40	-140.6	70.1	66.2	53.9	12.27	5.392	
3,400.0	3,394.8	3,396.5	3,391.8	6.3	6.5	-62.52	-142.3	70.9	66.2	53.8	12.41	5.333	
3,500.0	3,494.3	3,496.4	3,491.5	6.5	6.7	-66.20	-148.0	73.4	66.4	53.5	12.87	5.158	
3,600.0	3,593.9	3,596.3	3,591.2	6.7	6.9	-69.84	-153.6	75.9	66.9	53.5	13.34	5.014	
3,700.0	3,693.4	3,696.2	3,691.0	7.0	7.1	-73.42	-159.3	78.5	67.6	53.8	13.81	4.897	
3,800.0	3,792.9	3,796.2	3,790.7	7.2	7.3	-76.90	-164.9	81.0	68.7	54.4	14.29	4.806	
3,900.0	3,892.5	3,896.1	3,890.4	7.4	7.5	-80.27	-170.5	83.5	69.9	55.2	14.76	4.738	
4,000.0	3,992.0	3,996.0	3,990.1	7.6	7.7	-83.51	-176.2	86.0	71.4	56.2	15.23	4.691	
4,100.0	4,091.6	4,095.9	4,089.8	7.9	8.0	-86.60	-181.8	88.6	73.1	57.4	15.69	4.661	
4,200.0	4,191.1	4,195.8	4,189.5	8.1	8.2	-89.55	-187.5	91.1	75.1	58.9	16.15	4.647	
4,300.0	4,290.6	4,295.7	4,289.3	8.3	8.4	-92.34	-193.1	93.6	77.2	60.6	16.60	4.647	
4,400.0	4,390.2	4,395.6	4,389.0	8.5	8.6	-94.98	-198.8	96.1	79.4	62.4	17.05	4.659	
4,500.0	4,489.7	4,495.5	4,488.7	8.8	8.8	-97.47	-204.4	98.7	81.9	64.4	17.49	4.681	
4,600.0	4,589.3	4,595.4	4,588.4	9.0	9.0	-99.81	-210.1	101.2	84.5	66.5	17.93	4.711	
4,700.0	4,688.8	4,695.3	4,688.1	9.2	9.2	-102.00	-215.7	103.7	87.2	68.8	18.36	4.749	
4,800.0	4,788.3	4,795.2	4,787.9	9.5	9.4	-104.07	-221.3	106.2	90.0	71.2	18.78	4.792	
4,900.0	4,887.9	4,895.2	4,887.6	9.7	9.6	-106.00	-227.0	108.7	93.0	73.8	19.20	4.841	
5,000.0	4,987.4	4,995.1	4,987.3	9.9	9.8	-107.81	-232.6	111.3	96.0	76.4	19.62	4.894	

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 4F-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 4F-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
5,100.0	5,087.0	5,095.0	5,087.0	10.2	10.0	-109.51	-238.3	113.8	99.1	79.1	20.03	4.950	
5,200.0	5,186.5	5,194.9	5,186.7	10.4	10.2	-111.11	-243.9	116.3	102.4	81.9	20.44	5.009	
5,300.0	5,286.0	5,294.8	5,286.4	10.6	10.4	-112.60	-249.6	118.8	105.7	84.8	20.84	5.069	
5,400.0	5,385.6	5,394.7	5,386.2	10.9	10.6	-114.01	-255.2	121.4	109.0	87.8	21.24	5.131	
5,500.0	5,485.1	5,494.6	5,485.9	11.1	10.8	-115.33	-260.9	123.9	112.4	90.8	21.64	5.195	
5,600.0	5,584.7	5,594.5	5,585.6	11.3	11.0	-116.57	-266.5	126.4	115.9	93.9	22.04	5.259	
5,700.0	5,684.2	5,694.4	5,685.3	11.6	11.2	-117.74	-272.1	128.9	119.4	97.0	22.44	5.324	
5,800.0	5,783.8	5,794.3	5,785.0	11.8	11.4	-118.84	-277.8	131.5	123.0	100.2	22.83	5.388	
5,900.0	5,883.3	5,894.2	5,884.7	12.1	11.6	-119.88	-283.4	134.0	126.6	103.4	23.22	5.453	
6,000.0	5,982.8	5,994.2	5,984.5	12.3	11.8	-120.86	-289.1	136.5	130.3	106.7	23.61	5.518	
6,100.0	6,082.4	6,094.1	6,084.2	12.5	12.0	-121.78	-294.7	139.0	134.0	110.0	24.00	5.582	
6,200.0	6,181.9	6,194.0	6,183.9	12.8	12.2	-122.66	-300.4	141.6	137.7	113.3	24.39	5.646	
6,300.0	6,281.5	6,293.9	6,283.6	13.0	12.5	-123.49	-306.0	144.1	141.5	116.7	24.78	5.709	
6,400.0	6,381.1	6,393.8	6,383.3	13.2	12.7	-118.89	-311.7	146.6	144.7	119.5	25.17	5.748	
6,500.0	6,480.9	6,489.3	6,478.7	13.3	12.8	48.88	-316.2	149.0	141.7	116.2	25.53	5.551	
6,600.0	6,579.5	6,578.9	6,568.0	13.3	12.9	55.78	-311.3	151.3	137.0	111.4	25.67	5.338	
6,700.0	6,674.9	6,669.6	6,657.2	13.2	12.9	61.26	-294.9	153.5	132.4	106.8	25.62	5.168	
6,800.0	6,765.2	6,761.7	6,744.9	13.0	12.9	67.10	-267.0	155.7	128.2	102.8	25.43	5.042	
6,900.0	6,848.6	6,855.4	6,829.6	12.8	12.8	73.51	-227.3	157.9	125.0	99.8	25.19	4.963	
7,000.0	6,923.6	6,950.9	6,909.9	12.6	12.7	80.43	-175.8	159.9	123.2	98.2	24.99	4.931	
7,059.0	6,963.3	7,008.1	6,954.5	12.5	12.7	84.66	-139.9	161.1	122.9	98.0	24.92	4.930	
7,100.0	6,988.6	7,048.3	6,984.0	12.5	12.7	87.63	-112.7	161.8	123.0	98.2	24.88	4.944	
7,200.0	7,042.5	7,147.8	7,050.2	12.6	12.8	94.82	-38.5	163.5	124.7	99.8	24.94	5.000	
7,300.0	7,084.1	7,249.6	7,106.6	12.8	13.0	101.72	46.2	164.9	128.1	102.9	25.17	5.090	
7,400.0	7,112.7	7,353.8	7,151.3	13.3	13.4	108.05	140.2	166.0	132.9	107.3	25.58	5.196	
7,500.0	7,127.7	7,460.5	7,182.4	14.0	14.1	113.67	242.2	166.8	138.8	112.6	26.19	5.299	
7,600.0	7,130.0	7,569.9	7,198.3	14.8	15.0	118.22	350.2	167.2	144.5	117.4	27.08	5.334	
7,700.0	7,130.0	7,674.9	7,200.0	15.8	16.0	118.81	455.2	167.3	145.2	116.4	28.80	5.043	
7,800.0	7,130.0	7,774.9	7,200.0	16.9	17.1	118.81	555.2	167.3	145.2	114.5	30.78	4.719	
7,900.0	7,130.0	7,874.9	7,200.0	18.2	18.3	118.81	655.2	167.3	145.2	112.3	32.92	4.412	
8,000.0	7,130.0	7,974.9	7,200.0	19.5	19.6	118.81	755.2	167.3	145.2	110.0	35.20	4.126	
8,100.0	7,130.0	8,074.9	7,200.0	20.8	21.0	118.81	855.2	167.3	145.2	107.6	37.60	3.863	
8,200.0	7,130.0	8,174.9	7,200.0	22.3	22.4	118.81	955.2	167.3	145.2	105.2	40.09	3.623	
8,300.0	7,130.0	8,274.9	7,200.0	23.7	23.9	118.81	1,055.2	167.3	145.2	102.6	42.66	3.405	
8,400.0	7,130.0	8,374.9	7,200.0	25.2	25.4	118.81	1,155.2	167.3	145.2	100.0	45.29	3.207	
8,500.0	7,130.0	8,474.9	7,200.0	26.8	26.9	118.81	1,255.2	167.3	145.2	97.3	47.98	3.027	
8,600.0	7,130.0	8,574.9	7,200.0	28.3	28.5	118.81	1,355.2	167.3	145.2	94.5	50.71	2.864	
8,700.0	7,130.0	8,674.9	7,200.0	29.9	30.0	118.81	1,455.2	167.3	145.2	91.8	53.47	2.716	
8,800.0	7,130.0	8,774.9	7,200.0	31.5	31.6	118.81	1,555.2	167.3	145.2	89.0	56.28	2.581	
8,900.0	7,130.0	8,874.9	7,200.0	33.1	33.2	118.81	1,655.2	167.3	145.2	86.1	59.10	2.457	
9,000.0	7,130.0	8,974.9	7,200.0	34.8	34.9	118.81	1,755.2	167.3	145.2	83.3	61.96	2.344	
9,100.0	7,130.0	9,074.9	7,200.0	36.4	36.5	118.81	1,855.2	167.3	145.2	80.4	64.83	2.240	
9,200.0	7,130.0	9,174.9	7,200.0	38.1	38.2	118.81	1,955.2	167.3	145.2	77.5	67.72	2.145	
9,300.0	7,130.0	9,274.9	7,200.0	39.7	39.8	118.81	2,055.2	167.3	145.2	74.6	70.63	2.057	
9,320.1	7,130.0	9,294.9	7,200.0	40.1	40.1	118.81	2,075.3	167.3	145.3	74.1	71.21	2.040	
9,400.0	7,130.0	9,374.9	7,200.0	41.4	41.5	118.76	2,155.2	167.3	145.5	71.9	73.54	1.978	
9,500.0	7,130.0	9,474.9	7,200.0	43.1	43.2	118.47	2,255.2	167.3	146.9	70.2	76.63	1.917	
9,600.0	7,130.0	9,574.8	7,200.0	44.7	44.8	118.14	2,355.2	167.3	148.5	68.6	79.80	1.860	
9,700.0	7,130.0	9,674.8	7,200.0	46.4	46.5	117.82	2,455.2	167.3	150.0	67.0	83.00	1.808	
9,800.0	7,130.0	9,774.8	7,200.0	48.1	48.2	117.50	2,555.1	167.3	151.6	65.4	86.21	1.759	
9,900.0	7,130.0	9,874.8	7,200.0	49.8	49.9	117.19	2,655.1	167.3	153.2	63.8	89.44	1.713	
10,000.0	7,130.0	9,974.8	7,200.0	51.5	51.6	116.89	2,755.1	167.3	154.8	62.1	92.69	1.670	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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
10,100.0	7,130.0	10,074.8	7,200.0	53.2	53.3	116.59	2,855.1	167.3	156.4	60.4	95.96	1.630	
10,200.0	7,130.0	10,174.7	7,200.0	54.9	55.0	116.30	2,955.1	167.3	158.0	58.8	99.24	1.592	
10,300.0	7,130.0	10,274.7	7,200.0	56.6	56.7	116.02	3,055.1	167.3	159.6	57.1	102.53	1.557	
10,400.0	7,130.0	10,374.7	7,200.0	58.3	58.4	115.74	3,155.1	167.3	161.2	55.4	105.84	1.523	
10,500.0	7,130.0	10,474.7	7,200.0	60.1	60.1	115.47	3,255.0	167.3	162.8	53.7	109.16	1.492	Level 3
10,600.0	7,130.0	10,574.7	7,200.0	61.8	61.8	115.20	3,355.0	167.3	164.4	51.9	112.49	1.462	Level 3
10,700.0	7,130.0	10,674.7	7,200.0	63.5	63.6	114.94	3,455.0	167.3	166.1	50.2	115.83	1.434	Level 3
10,800.0	7,130.0	10,773.2	7,200.0	65.2	65.3	114.65	3,553.6	167.5	167.9	48.7	119.19	1.409	Level 3
10,900.0	7,130.0	10,870.5	7,200.0	66.9	66.9	114.16	3,650.9	169.3	171.2	48.5	122.71	1.395	Level 3
11,000.0	7,130.0	10,967.7	7,200.0	68.7	68.6	113.48	3,748.0	172.6	176.0	49.6	126.43	1.392	Level 3, SF
11,100.0	7,130.0	11,064.7	7,200.0	70.4	70.3	112.63	3,844.8	177.6	182.4	52.1	130.31	1.400	Level 3
11,200.0	7,130.0	11,161.4	7,200.0	72.1	71.9	111.66	3,941.3	184.3	190.4	56.1	134.31	1.418	Level 3
11,300.0	7,130.0	11,259.4	7,200.0	73.8	73.6	110.61	4,038.9	192.5	199.8	61.4	138.40	1.444	Level 3
11,400.0	7,130.0	11,358.8	7,200.0	75.6	75.4	109.61	4,138.0	201.0	209.5	67.1	142.47	1.471	Level 3
11,500.0	7,130.0	11,458.3	7,200.0	77.3	77.1	108.71	4,237.1	209.5	219.3	72.8	146.47	1.497	Level 3
11,600.0	7,130.0	11,557.8	7,200.0	79.0	78.8	107.88	4,336.2	218.0	229.1	78.7	150.42	1.523	
11,664.3	7,130.0	11,621.7	7,200.0	80.1	79.9	107.38	4,399.9	223.4	235.4	82.5	152.92	1.540	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	91.41	-0.4	14.8	14.8				
100.0	100.0	100.0	100.0	0.2	0.2	91.41	-0.4	14.8	14.8	14.5	0.30	48.782	
200.0	200.0	200.0	200.0	0.3	0.3	91.41	-0.4	14.8	14.8	14.2	0.65	22.695	
300.0	300.0	300.0	300.0	0.5	0.5	91.41	-0.4	14.8	14.8	13.8	1.00	14.788	
400.0	400.0	400.0	400.0	0.7	0.7	91.41	-0.4	14.8	14.8	13.5	1.35	10.966	
500.0	500.0	500.0	500.0	0.8	0.8	91.41	-0.4	14.8	14.8	13.1	1.70	8.715	
600.0	600.0	600.0	600.0	1.0	1.0	91.41	-0.4	14.8	14.8	12.8	2.05	7.230	CC, ES
700.0	700.0	699.8	699.8	1.2	1.2	93.71	-1.0	15.4	15.4	13.0	2.40	6.438	
800.0	800.0	799.6	799.5	1.4	1.4	99.59	-2.9	17.2	17.4	14.7	2.75	6.346	
900.0	900.0	899.2	899.0	1.5	1.6	106.76	-6.1	20.1	21.1	18.0	3.10	6.801	
1,000.0	1,000.0	998.6	998.3	1.7	1.7	113.36	-10.5	24.3	26.5	23.1	3.45	7.691	
1,100.0	1,100.0	1,097.8	1,097.2	1.9	1.9	118.64	-16.2	29.6	33.8	30.0	3.79	8.913	
1,200.0	1,200.0	1,197.0	1,195.9	2.1	2.2	122.58	-23.0	36.0	42.9	38.7	4.14	10.355	
1,300.0	1,300.0	1,296.5	1,295.0	2.2	2.4	125.23	-30.1	42.6	52.4	47.9	4.49	11.681	
1,400.0	1,400.0	1,396.0	1,394.0	2.4	2.6	127.07	-37.2	49.3	62.1	57.2	4.84	12.832	
1,500.0	1,500.0	1,495.6	1,493.0	2.6	2.8	128.40	-44.3	55.9	71.7	66.5	5.18	13.838	
1,600.0	1,600.0	1,595.1	1,592.1	2.8	3.1	129.43	-51.5	62.6	81.4	75.9	5.53	14.723	
1,700.0	1,700.0	1,694.6	1,691.1	2.9	3.3	130.23	-58.6	69.3	91.2	85.3	5.88	15.506	
1,800.0	1,800.0	1,794.1	1,790.2	3.1	3.5	130.88	-65.7	75.9	100.9	94.7	6.23	16.204	
1,900.0	1,900.0	1,893.6	1,889.2	3.3	3.8	131.41	-72.8	82.6	110.6	104.1	6.57	16.830	
2,000.0	2,000.0	1,993.2	1,988.3	3.5	4.0	-43.55	-80.0	89.2	119.8	112.8	6.93	17.287	
2,100.0	2,100.0	2,092.9	2,087.5	3.6	4.2	-43.90	-87.1	95.9	127.6	120.4	7.28	17.535	
2,200.0	2,199.9	2,192.7	2,186.8	3.8	4.5	-44.73	-94.2	102.6	134.3	126.6	7.63	17.593	
2,300.0	2,299.7	2,292.5	2,286.1	4.0	4.7	-46.00	-101.4	109.3	139.7	131.7	7.99	17.488	
2,400.0	2,399.4	2,392.3	2,385.4	4.2	4.9	-47.69	-108.5	116.0	144.1	135.7	8.35	17.244	
2,500.0	2,498.9	2,492.1	2,484.8	4.4	5.2	-49.73	-115.7	122.6	147.5	138.8	8.73	16.901	
2,600.0	2,598.5	2,591.9	2,584.1	4.6	5.4	-51.76	-122.8	129.3	151.0	141.9	9.11	16.575	
2,700.0	2,698.0	2,691.7	2,683.4	4.8	5.7	-53.70	-129.9	136.0	154.7	145.2	9.50	16.281	
2,800.0	2,797.5	2,791.5	2,782.7	5.0	5.9	-55.54	-137.1	142.7	158.6	148.7	9.90	16.015	
2,900.0	2,897.1	2,891.3	2,882.0	5.2	6.1	-57.29	-144.2	149.4	162.6	152.3	10.31	15.775	
3,000.0	2,996.6	2,991.1	2,981.4	5.4	6.4	-58.96	-151.4	156.0	166.8	156.1	10.72	15.556	
3,100.0	3,096.2	3,090.9	3,080.7	5.6	6.6	-60.54	-158.5	162.7	171.1	160.0	11.14	15.357	
3,200.0	3,195.7	3,190.7	3,180.0	5.8	6.9	-62.05	-165.7	169.4	175.5	164.0	11.57	15.175	
3,300.0	3,295.2	3,290.5	3,279.3	6.1	7.1	-63.48	-172.8	176.1	180.1	168.1	12.00	15.010	
3,400.0	3,394.8	3,390.3	3,378.6	6.3	7.3	-64.84	-179.9	182.7	184.7	172.3	12.43	14.858	
3,500.0	3,494.3	3,490.1	3,478.0	6.5	7.6	-66.13	-187.1	189.4	189.5	176.6	12.87	14.720	
3,600.0	3,593.9	3,589.9	3,577.3	6.7	7.8	-67.36	-194.2	196.1	194.3	181.0	13.32	14.593	
3,700.0	3,693.4	3,689.6	3,676.6	7.0	8.1	-68.53	-201.4	202.8	199.2	185.5	13.76	14.476	
3,800.0	3,792.9	3,789.4	3,775.9	7.2	8.3	-69.64	-208.5	209.5	204.2	190.0	14.21	14.369	
3,900.0	3,892.5	3,889.2	3,875.2	7.4	8.6	-70.70	-215.6	216.1	209.3	194.6	14.67	14.271	
4,000.0	3,992.0	3,989.0	3,974.5	7.6	8.8	-71.71	-222.8	222.8	214.4	199.3	15.12	14.181	
4,100.0	4,091.6	4,088.8	4,073.9	7.9	9.0	-72.67	-229.9	229.5	219.7	204.1	15.58	14.098	
4,200.0	4,191.1	4,188.6	4,173.2	8.1	9.3	-73.59	-237.1	236.2	224.9	208.9	16.04	14.022	
4,300.0	4,290.6	4,288.4	4,272.5	8.3	9.5	-74.46	-244.2	242.9	230.2	213.7	16.50	13.952	
4,400.0	4,390.2	4,388.2	4,371.8	8.5	9.8	-75.30	-251.4	249.5	235.6	218.7	16.97	13.887	
4,500.0	4,489.7	4,488.0	4,471.1	8.8	10.0	-76.09	-258.5	256.2	241.0	223.6	17.43	13.827	
4,600.0	4,589.3	4,587.8	4,570.4	9.0	10.3	-76.86	-265.6	262.9	246.5	228.6	17.90	13.772	
4,700.0	4,688.8	4,687.6	4,669.8	9.2	10.5	-77.58	-272.8	269.6	252.0	233.6	18.37	13.721	
4,800.0	4,788.3	4,787.4	4,769.1	9.5	10.7	-78.28	-279.9	276.2	257.6	238.7	18.84	13.674	
4,900.0	4,887.9	4,887.2	4,868.4	9.7	11.0	-78.95	-287.1	282.9	263.1	243.8	19.31	13.630	
5,000.0	4,987.4	4,987.0	4,967.7	9.9	11.2	-79.59	-294.2	289.6	268.7	249.0	19.78	13.590	
5,100.0	5,087.0	5,086.8	5,067.0	10.2	11.5	-80.20	-301.3	296.3	274.4	254.1	20.25	13.552	

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 4F-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 4F-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	5,186.5	5,186.6	5,166.4	10.4	11.7	-80.79	-308.5	303.0	280.1	259.4	20.72	13.518	
5,300.0	5,286.0	5,286.4	5,265.7	10.6	12.0	-81.36	-315.6	309.6	285.8	264.6	21.19	13.486	
5,400.0	5,385.6	5,386.2	5,365.0	10.9	12.2	-81.90	-322.8	316.3	291.5	269.8	21.66	13.456	
5,500.0	5,485.1	5,486.0	5,464.3	11.1	12.4	-82.43	-329.9	323.0	297.3	275.1	22.14	13.428	
5,600.0	5,584.7	5,585.8	5,563.6	11.3	12.7	-82.93	-337.1	329.7	303.1	280.4	22.61	13.403	
5,700.0	5,684.2	5,685.6	5,662.9	11.6	12.9	-83.41	-344.2	336.4	308.9	285.8	23.09	13.379	
5,800.0	5,783.8	5,785.4	5,762.3	11.8	13.2	-83.88	-351.3	343.0	314.7	291.1	23.56	13.357	
5,900.0	5,883.3	5,885.2	5,861.6	12.1	13.4	-84.33	-358.5	349.7	320.5	296.5	24.03	13.336	
6,000.0	5,982.8	5,985.0	5,960.9	12.3	13.7	-84.76	-365.6	356.4	326.4	301.9	24.51	13.317	
6,100.0	6,082.4	6,084.8	6,060.2	12.5	13.9	-85.18	-372.8	363.1	332.3	307.3	24.98	13.299	
6,200.0	6,181.9	6,184.6	6,159.5	12.8	14.1	-85.58	-379.9	369.8	338.2	312.7	25.46	13.283	
6,300.0	6,281.5	6,284.4	6,258.9	13.0	14.4	-85.97	-387.0	376.4	344.1	318.2	25.94	13.267	
6,400.0	6,381.1	6,384.2	6,358.2	13.2	14.6	-81.20	-394.2	383.1	350.0	323.6	26.40	13.260	
6,500.0	6,480.9	6,483.5	6,457.0	13.3	14.9	84.96	-401.3	389.8	355.8	329.2	26.63	13.360	
6,600.0	6,579.5	6,580.5	6,553.5	13.3	15.1	90.93	-408.2	396.2	362.5	335.9	26.60	13.625	
6,700.0	6,674.9	6,678.9	6,651.6	13.2	15.3	96.00	-412.1	402.8	371.8	345.5	26.31	14.130	
6,800.0	6,765.2	6,783.8	6,755.6	13.0	15.4	100.59	-402.1	409.8	383.8	358.0	25.84	14.852	
6,900.0	6,848.6	6,895.0	6,863.1	12.8	15.4	104.73	-375.0	417.1	397.8	372.5	25.27	15.739	
7,000.0	6,923.6	7,013.2	6,971.3	12.6	15.2	108.41	-328.2	424.3	412.8	388.1	24.69	16.718	
7,100.0	6,988.6	7,139.1	7,076.5	12.5	15.1	111.60	-259.6	431.4	427.7	403.5	24.20	17.671	
7,200.0	7,042.5	7,273.0	7,173.3	12.6	14.9	114.25	-167.6	437.9	441.5	417.6	23.95	18.432	
7,300.0	7,084.1	7,414.3	7,255.1	12.8	15.0	116.28	-52.8	443.4	453.0	428.9	24.08	18.812	
7,400.0	7,112.7	7,561.8	7,314.8	13.3	15.3	117.62	81.8	447.4	461.0	436.3	24.68	18.683	
7,500.0	7,127.7	7,713.4	7,346.2	14.0	16.1	118.22	229.7	449.6	464.9	439.1	25.84	17.991	
7,600.0	7,130.0	7,839.0	7,350.0	14.8	17.0	118.23	355.2	449.8	465.1	437.7	27.41	16.969	
7,700.0	7,130.0	7,939.0	7,350.0	15.8	17.9	118.23	455.2	449.8	465.1	436.0	29.17	15.943	
7,800.0	7,130.0	8,039.0	7,350.0	16.9	18.9	118.23	555.2	449.8	465.1	434.0	31.15	14.934	
7,900.0	7,130.0	8,139.0	7,350.0	18.2	20.0	118.23	655.2	449.8	465.1	431.8	33.29	13.972	
8,000.0	7,130.0	8,239.0	7,350.0	19.5	21.2	118.23	755.2	449.8	465.1	429.6	35.58	13.074	
8,100.0	7,130.0	8,339.0	7,350.0	20.8	22.5	118.23	855.2	449.8	465.1	427.2	37.98	12.248	
8,200.0	7,130.0	8,439.0	7,350.0	22.3	23.8	118.23	955.2	449.8	465.1	424.7	40.47	11.493	
8,300.0	7,130.0	8,539.0	7,350.0	23.7	25.2	118.23	1,055.2	449.8	465.1	422.1	43.04	10.806	
8,400.0	7,130.0	8,639.0	7,350.0	25.2	26.6	118.23	1,155.2	449.8	465.1	419.4	45.68	10.182	
8,500.0	7,130.0	8,739.0	7,350.0	26.8	28.1	118.23	1,255.2	449.8	465.1	416.8	48.37	9.615	
8,600.0	7,130.0	8,839.0	7,350.0	28.3	29.6	118.23	1,355.2	449.8	465.1	414.0	51.11	9.100	
8,700.0	7,130.0	8,939.0	7,350.0	29.9	31.1	118.23	1,455.2	449.8	465.1	411.2	53.89	8.631	
8,800.0	7,130.0	9,039.0	7,350.0	31.5	32.6	118.23	1,555.2	449.8	465.1	408.4	56.70	8.203	
8,900.0	7,130.0	9,139.0	7,350.0	33.1	34.2	118.23	1,655.2	449.8	465.1	405.6	59.54	7.812	
9,000.0	7,130.0	9,239.0	7,350.0	34.8	35.8	118.23	1,755.2	449.8	465.1	402.7	62.40	7.454	
9,100.0	7,130.0	9,339.0	7,350.0	36.4	37.4	118.23	1,855.2	449.8	465.1	399.8	65.29	7.124	
9,200.0	7,130.0	9,439.0	7,350.0	38.1	39.0	118.23	1,955.2	449.8	465.1	396.9	68.19	6.821	
9,300.0	7,130.0	9,539.0	7,350.0	39.7	40.6	118.23	2,055.2	449.8	465.1	394.0	71.11	6.541	
9,320.1	7,130.0	9,559.1	7,350.0	40.1	41.0	118.23	2,075.3	449.8	465.1	393.5	71.68	6.489	
9,400.0	7,130.0	9,639.0	7,350.0	41.4	42.3	118.21	2,155.2	449.8	465.4	391.4	73.98	6.291	
9,500.0	7,130.0	9,739.0	7,350.0	43.1	43.9	118.12	2,255.2	449.8	466.8	389.9	76.91	6.069	
9,600.0	7,130.0	9,839.0	7,350.0	44.7	45.6	118.02	2,355.2	449.8	468.3	388.4	79.94	5.859	
9,700.0	7,130.0	9,939.0	7,350.0	46.4	47.2	117.92	2,455.2	449.8	469.9	386.9	82.98	5.663	
9,800.0	7,130.0	10,038.9	7,350.0	48.1	48.9	117.82	2,555.1	449.8	471.5	385.5	86.04	5.480	
9,900.0	7,130.0	10,138.9	7,350.0	49.8	50.6	117.72	2,655.1	449.8	473.1	384.0	89.11	5.309	
10,000.0	7,130.0	10,238.9	7,350.0	51.5	52.2	117.62	2,755.1	449.8	474.7	382.5	92.19	5.149	
10,100.0	7,130.0	10,338.9	7,350.0	53.2	53.9	117.52	2,855.1	449.8	476.3	381.0	95.29	4.998	
10,200.0	7,130.0	10,438.9	7,350.0	54.9	55.6	117.42	2,955.1	449.8	477.8	379.4	98.39	4.856	

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 4F-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 4F-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
10,300.0	7,130.0	10,538.9	7,350.0	56.6	57.3	117.32	3,055.1	449.8	479.4	377.9	101.51	4.723	
10,400.0	7,130.0	10,638.8	7,350.0	58.3	59.0	117.22	3,155.1	449.8	481.0	376.4	104.63	4.597	
10,500.0	7,130.0	10,738.8	7,350.0	60.1	60.7	117.12	3,255.0	449.8	482.6	374.8	107.77	4.478	
10,600.0	7,130.0	10,838.8	7,350.0	61.8	62.4	117.03	3,355.0	449.8	484.2	373.3	110.91	4.366	
10,700.0	7,130.0	10,938.8	7,350.0	63.5	64.1	116.93	3,455.0	449.8	485.8	371.7	114.06	4.259	
10,800.0	7,130.0	11,038.8	7,350.0	65.2	65.8	116.84	3,555.0	449.8	487.4	370.2	117.22	4.158	
10,900.0	7,130.0	11,138.8	7,350.0	66.9	67.5	116.74	3,655.0	449.8	489.0	368.6	120.39	4.062	
11,000.0	7,130.0	11,238.7	7,350.0	68.7	69.2	116.65	3,755.0	449.8	490.6	367.0	123.56	3.970	
11,100.0	7,130.0	11,338.7	7,350.0	70.4	70.9	116.55	3,854.9	449.8	492.2	365.4	126.74	3.883	
11,200.0	7,130.0	11,438.7	7,350.0	72.1	72.6	116.46	3,954.9	449.8	493.8	363.9	129.93	3.800	
11,300.0	7,130.0	11,538.7	7,350.0	73.8	74.4	116.37	4,054.9	449.8	495.4	362.3	133.12	3.721	
11,400.0	7,130.0	11,638.7	7,350.0	75.6	76.1	116.28	4,154.9	449.8	497.0	360.7	136.32	3.646	
11,500.0	7,130.0	11,738.7	7,350.0	77.3	77.8	116.19	4,254.9	449.8	498.6	359.1	139.53	3.573	
11,600.0	7,130.0	11,838.7	7,350.0	79.0	79.5	116.10	4,354.9	449.8	500.2	357.5	142.74	3.504	
11,664.3	7,130.0	11,892.7	7,350.0	80.1	80.4	116.05	4,408.9	449.8	501.3	356.7	144.64	3.466	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	90.95	-0.4	22.4	22.4				
100.0	100.0	100.0	100.0	0.2	0.2	90.95	-0.4	22.4	22.4	22.1	0.30	73.621	
200.0	200.0	200.0	200.0	0.3	0.3	90.95	-0.4	22.4	22.4	21.7	0.65	34.251	
300.0	300.0	300.0	300.0	0.5	0.5	90.95	-0.4	22.4	22.4	21.4	1.00	22.317	
400.0	400.0	400.0	400.0	0.7	0.7	90.95	-0.4	22.4	22.4	21.0	1.35	16.550	
500.0	500.0	500.0	500.0	0.8	0.8	90.95	-0.4	22.4	22.4	20.7	1.70	13.152	CC, ES
600.0	600.0	599.7	599.7	1.0	1.0	92.13	-0.9	23.1	23.1	21.0	2.05	11.272	
700.0	700.0	699.3	699.2	1.2	1.2	95.26	-2.3	25.2	25.3	22.9	2.40	10.569	
800.0	800.0	798.8	798.6	1.4	1.4	99.37	-4.7	28.8	29.2	26.5	2.75	10.638	
900.0	900.0	898.1	897.7	1.5	1.6	103.55	-8.1	33.8	34.8	31.7	3.10	11.253	
1,000.0	1,000.0	997.1	996.5	1.7	1.8	107.26	-12.5	40.2	42.2	38.8	3.44	12.264	
1,100.0	1,100.0	1,095.9	1,094.8	1.9	2.0	110.33	-17.8	48.0	51.4	47.6	3.79	13.566	
1,200.0	1,200.0	1,194.3	1,192.6	2.1	2.2	112.79	-24.0	57.1	62.4	58.2	4.14	15.084	
1,300.0	1,300.0	1,292.6	1,290.1	2.2	2.5	114.72	-31.1	67.6	75.0	70.6	4.48	16.749	
1,400.0	1,400.0	1,391.8	1,388.3	2.4	2.7	116.14	-38.5	78.5	88.2	83.4	4.83	18.277	
1,500.0	1,500.0	1,490.9	1,486.6	2.6	3.0	117.20	-46.0	89.4	101.5	96.3	5.17	19.608	
1,600.0	1,600.0	1,590.0	1,584.8	2.8	3.3	118.01	-53.4	100.4	114.7	109.2	5.52	20.777	
1,700.0	1,700.0	1,689.1	1,683.0	2.9	3.5	118.65	-60.8	111.3	128.0	122.1	5.87	21.810	
1,800.0	1,800.0	1,788.2	1,781.2	3.1	3.8	119.18	-68.2	122.2	141.3	135.0	6.21	22.729	
1,900.0	1,900.0	1,887.3	1,879.5	3.3	4.1	119.61	-75.7	133.2	154.5	148.0	6.56	23.553	
2,000.0	2,000.0	1,986.5	1,977.7	3.5	4.4	-55.36	-83.1	144.1	167.4	160.4	6.92	24.196	
2,100.0	2,100.0	2,085.8	2,076.1	3.6	4.7	-55.62	-90.6	155.1	179.2	171.9	7.27	24.655	
2,200.0	2,199.9	2,185.1	2,174.6	3.8	4.9	-56.29	-98.0	166.0	190.0	182.4	7.62	24.934	
2,300.0	2,299.7	2,284.6	2,273.2	4.0	5.2	-57.30	-105.5	177.0	200.0	192.0	7.98	25.056	
2,400.0	2,399.4	2,384.0	2,371.8	4.2	5.5	-58.62	-112.9	188.0	209.1	200.8	8.35	25.040	
2,500.0	2,498.9	2,483.5	2,470.3	4.4	5.8	-60.21	-120.4	198.9	217.6	208.8	8.73	24.920	
2,600.0	2,598.5	2,582.9	2,568.9	4.6	6.1	-61.76	-127.8	209.9	226.1	217.0	9.12	24.792	
2,700.0	2,698.0	2,682.4	2,667.5	4.8	6.4	-63.20	-135.3	220.9	234.8	225.3	9.52	24.671	
2,800.0	2,797.5	2,781.8	2,766.0	5.0	6.6	-64.53	-142.7	231.8	243.6	233.7	9.92	24.557	
2,900.0	2,897.1	2,881.3	2,864.6	5.2	6.9	-65.78	-150.2	242.8	252.5	242.2	10.33	24.448	
3,000.0	2,996.6	2,980.8	2,963.2	5.4	7.2	-66.93	-157.6	253.8	261.6	250.8	10.75	24.344	
3,100.0	3,096.2	3,080.2	3,061.7	5.6	7.5	-68.01	-165.1	264.8	270.7	259.6	11.17	24.245	
3,200.0	3,195.7	3,179.7	3,160.3	5.8	7.8	-69.02	-172.6	275.7	280.0	268.4	11.59	24.150	
3,300.0	3,295.2	3,279.1	3,258.9	6.1	8.1	-69.97	-180.0	286.7	289.3	277.3	12.02	24.061	
3,400.0	3,394.8	3,378.6	3,357.4	6.3	8.4	-70.85	-187.5	297.7	298.7	286.2	12.46	23.975	
3,500.0	3,494.3	3,478.0	3,456.0	6.5	8.7	-71.68	-194.9	308.6	308.1	295.2	12.90	23.894	
3,600.0	3,593.9	3,577.5	3,554.6	6.7	8.9	-72.46	-202.4	319.6	317.7	304.3	13.34	23.817	
3,700.0	3,693.4	3,676.9	3,653.1	7.0	9.2	-73.20	-209.8	330.6	327.2	313.4	13.78	23.743	
3,800.0	3,792.9	3,776.4	3,751.7	7.2	9.5	-73.89	-217.3	341.5	336.8	322.6	14.23	23.673	
3,900.0	3,892.5	3,875.8	3,850.3	7.4	9.8	-74.55	-224.7	352.5	346.5	331.8	14.68	23.607	
4,000.0	3,992.0	3,975.3	3,948.8	7.6	10.1	-75.17	-232.2	363.5	356.2	341.1	15.13	23.544	
4,100.0	4,091.6	4,074.8	4,047.4	7.9	10.4	-75.76	-239.6	374.5	366.0	350.4	15.58	23.483	
4,200.0	4,191.1	4,174.2	4,146.0	8.1	10.7	-76.31	-247.1	385.4	375.8	359.7	16.04	23.426	
4,300.0	4,290.6	4,273.7	4,244.5	8.3	11.0	-76.84	-254.6	396.4	385.6	369.1	16.50	23.372	
4,400.0	4,390.2	4,373.1	4,343.1	8.5	11.2	-77.34	-262.0	407.4	395.4	378.5	16.96	23.320	
4,500.0	4,489.7	4,472.6	4,441.7	8.8	11.5	-77.82	-269.5	418.3	405.3	387.9	17.42	23.271	
4,600.0	4,589.3	4,572.0	4,540.2	9.0	11.8	-78.28	-276.9	429.3	415.2	397.4	17.88	23.224	
4,700.0	4,688.8	4,671.5	4,638.8	9.2	12.1	-78.71	-284.4	440.3	425.2	406.8	18.34	23.180	
4,800.0	4,788.3	4,770.9	4,737.4	9.5	12.4	-79.12	-291.8	451.3	435.1	416.3	18.81	23.137	
4,900.0	4,887.9	4,870.4	4,835.9	9.7	12.7	-79.52	-299.3	462.2	445.1	425.8	19.27	23.096	
5,000.0	4,987.4	4,969.9	4,934.5	9.9	13.0	-79.90	-306.7	473.2	455.1	435.4	19.74	23.058	
5,100.0	5,087.0	5,069.3	5,033.1	10.2	13.3	-80.26	-314.2	484.2	465.1	444.9	20.20	23.021	

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 4F-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 4F-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	5,186.5	5,168.8	5,131.6	10.4	13.6	-80.61	-321.6	495.1	475.1	454.5	20.67	22.985	
5,300.0	5,286.0	5,268.2	5,230.2	10.6	13.9	-80.94	-329.1	506.1	485.2	464.1	21.14	22.951	
5,400.0	5,385.6	5,367.7	5,328.8	10.9	14.1	-81.26	-336.6	517.1	495.3	473.7	21.61	22.919	
5,500.0	5,485.1	5,467.1	5,427.3	11.1	14.4	-81.56	-344.0	528.0	505.3	483.3	22.08	22.888	
5,600.0	5,584.7	5,566.6	5,525.9	11.3	14.7	-81.86	-351.5	539.0	515.4	492.9	22.55	22.858	
5,700.0	5,684.2	5,666.0	5,624.5	11.6	15.0	-82.14	-358.9	550.0	525.5	502.5	23.02	22.830	
5,800.0	5,783.8	5,765.5	5,723.0	11.8	15.3	-82.41	-366.4	561.0	535.7	512.2	23.49	22.803	
5,900.0	5,883.3	5,864.9	5,821.6	12.1	15.6	-82.67	-373.8	571.9	545.8	521.8	23.96	22.777	
6,000.0	5,982.8	5,964.4	5,920.2	12.3	15.9	-82.93	-381.3	582.9	555.9	531.5	24.44	22.752	
6,100.0	6,082.4	6,063.9	6,018.7	12.5	16.2	-83.17	-388.7	593.9	566.1	541.2	24.91	22.727	
6,200.0	6,181.9	6,163.3	6,117.3	12.8	16.5	-83.40	-396.2	604.8	576.3	550.9	25.38	22.704	
6,300.0	6,281.5	6,262.8	6,215.9	13.0	16.7	-83.63	-403.6	615.8	586.4	560.6	25.85	22.682	
6,400.0	6,381.1	6,362.2	6,314.4	13.2	17.0	-78.89	-411.1	626.8	596.6	570.3	26.33	22.657	
6,500.0	6,480.9	6,462.7	6,414.1	13.3	17.3	86.11	-416.9	637.9	607.0	580.4	26.62	22.807	
6,600.0	6,579.5	6,565.6	6,516.1	13.3	17.5	89.12	-410.0	649.1	617.4	590.7	26.64	23.178	
6,700.0	6,674.9	6,670.1	6,617.5	13.2	17.5	89.90	-388.0	660.1	627.3	600.9	26.44	23.728	
6,800.0	6,765.2	6,776.1	6,716.1	13.0	17.5	90.24	-350.8	670.7	636.8	610.7	26.08	24.413	
6,900.0	6,848.6	6,883.5	6,809.4	12.8	17.4	90.41	-298.7	680.6	645.4	619.8	25.65	25.159	
7,000.0	6,923.6	6,992.3	6,894.9	12.6	17.4	90.48	-232.1	689.4	653.1	627.8	25.26	25.855	
7,100.0	6,988.6	7,102.3	6,970.1	12.5	17.3	90.48	-152.4	697.1	659.6	634.5	25.03	26.351	
7,200.0	7,042.5	7,213.2	7,032.8	12.6	17.4	90.44	-61.3	703.2	664.7	639.6	25.11	26.477	
7,300.0	7,084.1	7,324.7	7,081.1	12.8	17.6	90.35	39.0	707.7	668.4	642.8	25.59	26.123	
7,400.0	7,112.7	7,436.6	7,113.4	13.3	18.0	90.23	146.0	710.3	670.5	644.0	26.54	25.269	
7,500.0	7,127.7	7,548.4	7,128.7	14.0	18.5	90.07	256.6	711.0	671.1	643.1	27.94	24.014	
7,600.0	7,130.0	7,652.9	7,130.0	14.8	19.2	90.00	361.1	710.3	670.3	640.6	29.71	22.560	
7,700.0	7,130.0	7,752.9	7,130.0	15.8	20.0	90.00	461.1	709.4	669.4	637.7	31.72	21.103	
7,800.0	7,130.0	7,852.9	7,130.0	16.9	20.9	90.00	561.0	708.5	668.6	634.6	33.98	19.677	
7,900.0	7,130.0	7,952.9	7,130.0	18.2	21.9	90.00	661.0	707.7	667.7	631.3	36.43	18.328	
8,000.0	7,130.0	8,052.9	7,130.0	19.5	23.0	90.00	761.0	706.8	666.8	627.8	39.05	17.078	
8,100.0	7,130.0	8,152.9	7,130.0	20.8	24.2	90.00	861.0	705.9	665.9	624.1	41.79	15.935	
8,200.0	7,130.0	8,252.9	7,130.0	22.3	25.4	90.00	961.0	705.0	665.1	620.4	44.64	14.897	
8,300.0	7,130.0	8,352.8	7,130.0	23.7	26.7	90.00	1,061.0	704.2	664.2	616.6	47.59	13.958	
8,400.0	7,130.0	8,452.8	7,130.0	25.2	28.1	90.00	1,161.0	703.3	663.3	612.7	50.60	13.109	
8,500.0	7,130.0	8,552.8	7,130.0	26.8	29.4	90.00	1,261.0	702.4	662.4	608.8	53.67	12.342	
8,600.0	7,130.0	8,652.8	7,130.0	28.3	30.9	90.00	1,361.0	701.5	661.6	604.8	56.80	11.648	
8,700.0	7,130.0	8,752.8	7,130.0	29.9	32.3	90.00	1,461.0	700.7	660.7	600.7	59.96	11.018	
8,800.0	7,130.0	8,852.8	7,130.0	31.5	33.8	90.00	1,561.0	699.8	659.8	596.7	63.17	10.446	
8,900.0	7,130.0	8,952.8	7,130.0	33.1	35.3	90.00	1,661.0	698.9	659.0	592.6	66.40	9.924	
9,000.0	7,130.0	9,052.8	7,130.0	34.8	36.9	90.00	1,761.0	698.1	658.1	588.4	69.66	9.447	
9,100.0	7,130.0	9,152.8	7,130.0	36.4	38.4	90.00	1,860.9	697.2	657.2	584.3	72.94	9.010	
9,200.0	7,130.0	9,252.8	7,130.0	38.1	40.0	90.00	1,960.9	696.3	656.3	580.1	76.25	8.608	
9,300.0	7,130.0	9,352.8	7,130.0	39.7	41.6	90.00	2,060.9	695.4	655.5	575.9	79.57	8.238	
9,395.9	7,130.0	9,448.7	7,130.0	41.3	43.1	90.00	2,156.8	694.6	655.1	572.4	82.66	7.925	
9,400.0	7,130.0	9,452.8	7,130.0	41.4	43.2	90.00	2,160.9	694.6	654.9	572.1	82.79	7.910	
9,500.0	7,130.0	9,552.8	7,130.0	43.1	44.8	90.00	2,260.9	693.7	655.6	569.5	86.03	7.620	
9,600.0	7,130.0	9,652.8	7,130.0	44.7	46.4	90.00	2,360.9	692.8	656.5	567.1	89.40	7.344	
9,700.0	7,130.0	9,752.8	7,130.0	46.4	48.0	90.00	2,460.9	691.9	657.4	564.6	92.77	7.087	
9,800.0	7,130.0	9,852.8	7,130.0	48.1	49.7	90.00	2,560.9	691.1	658.3	562.2	96.15	6.847	
9,900.0	7,130.0	9,952.8	7,130.0	49.8	51.3	90.00	2,660.9	690.2	659.2	559.7	99.54	6.623	
10,000.0	7,130.0	10,052.8	7,130.0	51.5	53.0	90.00	2,760.9	689.3	660.2	557.2	102.94	6.413	
10,100.0	7,130.0	10,152.8	7,130.0	53.2	54.6	90.00	2,860.9	688.5	661.1	554.7	106.34	6.216	
10,200.0	7,130.0	10,252.8	7,130.0	54.9	56.3	90.00	2,960.9	687.6	662.0	552.2	109.75	6.032	

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 4F-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 4F-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
10,300.0	7,130.0	10,352.8	7,130.0	56.6	58.0	90.00	3,060.9	686.7	662.9	549.7	113.17	5.857	
10,400.0	7,130.0	10,452.8	7,130.0	58.3	59.6	90.00	3,160.8	685.8	663.8	547.2	116.60	5.693	
10,500.0	7,130.0	10,552.8	7,130.0	60.1	61.3	90.00	3,260.8	685.0	664.7	544.7	120.02	5.538	
10,600.0	7,130.0	10,652.8	7,130.0	61.8	63.0	90.00	3,360.8	684.1	665.6	542.2	123.46	5.392	
10,700.0	7,130.0	10,752.8	7,130.0	63.5	64.7	90.00	3,460.8	683.2	666.6	539.7	126.89	5.253	
10,800.0	7,130.0	10,852.7	7,130.0	65.2	66.4	90.00	3,560.8	682.3	667.5	537.1	130.33	5.121	
10,900.0	7,130.0	10,952.7	7,130.0	66.9	68.1	90.00	3,660.8	681.5	668.4	534.6	133.78	4.996	
11,000.0	7,130.0	11,052.7	7,130.0	68.7	69.8	90.00	3,760.8	680.6	669.3	532.1	137.22	4.877	
11,100.0	7,130.0	11,152.7	7,130.0	70.4	71.5	90.00	3,860.8	679.7	670.2	529.5	140.68	4.764	
11,200.0	7,130.0	11,252.7	7,130.0	72.1	73.2	90.00	3,960.8	678.9	671.1	527.0	144.13	4.657	
11,300.0	7,130.0	11,352.7	7,130.0	73.8	74.9	90.00	4,060.8	678.0	672.1	524.5	147.58	4.554	
11,400.0	7,130.0	11,452.7	7,130.0	75.6	76.6	90.00	4,160.8	677.1	673.0	521.9	151.04	4.456	
11,500.0	7,130.0	11,552.7	7,130.0	77.3	78.3	90.00	4,260.8	676.2	673.9	519.4	154.50	4.362	
11,600.0	7,130.0	11,652.7	7,130.0	79.0	80.0	90.00	4,360.7	675.4	674.8	516.8	157.97	4.272	
11,664.3	7,130.0	11,695.8	7,130.0	80.1	80.7	90.00	4,403.8	675.0	675.7	515.9	159.82	4.228	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	90.73	-0.4	29.9	29.9				
100.0	100.0	100.0	100.0	0.2	0.2	90.73	-0.4	29.9	29.9	29.6	0.30	98.462	
200.0	200.0	200.0	200.0	0.3	0.3	90.73	-0.4	29.9	29.9	29.2	0.65	45.809	
300.0	300.0	300.0	300.0	0.5	0.5	90.73	-0.4	29.9	29.9	28.9	1.00	29.847	
400.0	400.0	400.0	400.0	0.7	0.7	90.73	-0.4	29.9	29.9	28.6	1.35	22.135	CC, ES
500.0	500.0	499.5	499.5	0.8	0.8	91.51	-0.8	30.7	30.7	29.0	1.70	18.047	
600.0	600.0	599.0	599.0	1.0	1.0	93.63	-2.1	32.9	33.0	30.9	2.05	16.109	
700.0	700.0	698.4	698.2	1.2	1.2	96.55	-4.2	36.7	36.9	34.5	2.40	15.414	
800.0	800.0	797.5	797.2	1.4	1.4	99.72	-7.2	41.9	42.6	39.8	2.75	15.517	
900.0	900.0	896.5	895.9	1.5	1.6	102.73	-11.0	48.6	50.0	46.9	3.09	16.166	
1,000.0	1,000.0	995.1	994.0	1.7	1.8	105.37	-15.6	56.8	59.2	55.7	3.44	17.202	
1,100.0	1,100.0	1,093.4	1,091.7	1.9	2.1	107.59	-21.0	66.4	70.1	66.3	3.79	18.520	
1,200.0	1,200.0	1,191.3	1,188.8	2.1	2.3	109.42	-27.3	77.4	82.8	78.7	4.13	20.046	
1,300.0	1,300.0	1,289.3	1,285.8	2.2	2.6	110.91	-34.3	89.7	97.1	92.6	4.47	21.698	
1,400.0	1,400.0	1,388.2	1,383.6	2.4	2.9	112.05	-41.5	102.5	111.8	106.9	4.82	23.182	
1,500.0	1,500.0	1,487.1	1,481.4	2.6	3.2	112.93	-48.7	115.2	126.5	121.3	5.17	24.474	
1,600.0	1,600.0	1,586.0	1,579.2	2.8	3.5	113.62	-55.9	127.9	141.2	135.7	5.51	25.608	
1,700.0	1,700.0	1,684.9	1,677.0	2.9	3.8	114.18	-63.2	140.7	155.9	150.1	5.86	26.610	
1,800.0	1,800.0	1,783.8	1,774.8	3.1	4.1	114.64	-70.4	153.4	170.7	164.5	6.21	27.501	
1,900.0	1,900.0	1,882.7	1,872.6	3.3	4.4	115.03	-77.6	166.2	185.4	178.9	6.55	28.299	
2,000.0	2,000.0	1,981.7	1,970.5	3.5	4.7	-59.91	-84.8	178.9	199.8	192.9	6.91	28.915	
2,100.0	2,100.0	2,080.8	2,068.5	3.6	5.0	-60.11	-92.1	191.7	213.2	206.0	7.26	29.374	
2,200.0	2,199.9	2,179.9	2,166.6	3.8	5.3	-60.66	-99.3	204.5	225.9	218.3	7.61	29.664	
2,300.0	2,299.7	2,279.1	2,264.7	4.0	5.6	-61.51	-106.6	217.2	237.7	229.7	7.97	29.805	
2,400.0	2,399.4	2,378.4	2,362.8	4.2	5.9	-62.64	-113.8	230.0	248.8	240.4	8.35	29.811	
2,500.0	2,498.9	2,477.6	2,461.0	4.4	6.2	-64.02	-121.0	242.8	259.3	250.6	8.73	29.714	
2,600.0	2,598.5	2,576.9	2,559.1	4.6	6.5	-65.38	-128.3	255.6	269.9	260.8	9.12	29.603	
2,700.0	2,698.0	2,676.1	2,657.3	4.8	6.8	-66.63	-135.5	268.4	280.6	271.1	9.51	29.493	
2,800.0	2,797.5	2,775.4	2,755.4	5.0	7.1	-67.79	-142.8	281.2	291.4	281.5	9.92	29.383	
2,900.0	2,897.1	2,874.6	2,853.6	5.2	7.4	-68.87	-150.0	294.0	302.4	292.1	10.33	29.276	
3,000.0	2,996.6	2,973.9	2,951.7	5.4	7.7	-69.87	-157.3	306.8	313.4	302.7	10.75	29.170	
3,100.0	3,096.2	3,073.1	3,049.9	5.6	8.0	-70.80	-164.5	319.5	324.6	313.4	11.17	29.066	
3,200.0	3,195.7	3,172.3	3,148.0	5.8	8.3	-71.67	-171.8	332.3	335.8	324.2	11.59	28.966	
3,300.0	3,295.2	3,271.6	3,246.2	6.1	8.6	-72.49	-179.0	345.1	347.1	335.1	12.02	28.868	
3,400.0	3,394.8	3,370.8	3,344.3	6.3	8.9	-73.25	-186.3	357.9	358.5	346.0	12.46	28.773	
3,500.0	3,494.3	3,470.1	3,442.5	6.5	9.3	-73.97	-193.5	370.7	369.9	357.0	12.90	28.682	
3,600.0	3,593.9	3,569.3	3,540.6	6.7	9.6	-74.64	-200.8	383.5	381.3	368.0	13.34	28.593	
3,700.0	3,693.4	3,668.6	3,638.8	7.0	9.9	-75.27	-208.0	396.3	392.9	379.1	13.78	28.508	
3,800.0	3,792.9	3,767.8	3,736.9	7.2	10.2	-75.87	-215.2	409.0	404.4	390.2	14.23	28.427	
3,900.0	3,892.5	3,867.0	3,835.1	7.4	10.5	-76.44	-222.5	421.8	416.0	401.3	14.68	28.348	
4,000.0	3,992.0	3,966.3	3,933.2	7.6	10.8	-76.97	-229.7	434.6	427.7	412.5	15.13	28.273	
4,100.0	4,091.6	4,065.5	4,031.4	7.9	11.1	-77.48	-237.0	447.4	439.3	423.8	15.58	28.200	
4,200.0	4,191.1	4,164.8	4,129.5	8.1	11.4	-77.96	-244.2	460.2	451.0	435.0	16.03	28.131	
4,300.0	4,290.6	4,264.0	4,227.7	8.3	11.7	-78.41	-251.5	473.0	462.8	446.3	16.49	28.064	
4,400.0	4,390.2	4,363.3	4,325.8	8.5	12.0	-78.85	-258.7	485.8	474.6	457.6	16.95	28.000	
4,500.0	4,489.7	4,462.5	4,424.0	8.8	12.3	-79.26	-266.0	498.5	486.3	468.9	17.41	27.939	
4,600.0	4,589.3	4,561.7	4,522.1	9.0	12.7	-79.65	-273.2	511.3	498.2	480.3	17.87	27.880	
4,700.0	4,688.8	4,661.0	4,620.3	9.2	13.0	-80.02	-280.5	524.1	510.0	491.7	18.33	27.824	
4,800.0	4,788.3	4,760.2	4,718.4	9.5	13.3	-80.38	-287.7	536.9	521.9	503.1	18.79	27.770	
4,900.0	4,887.9	4,859.5	4,816.6	9.7	13.6	-80.72	-295.0	549.7	533.7	514.5	19.26	27.718	
5,000.0	4,987.4	4,958.7	4,914.7	9.9	13.9	-81.05	-302.2	562.5	545.6	525.9	19.72	27.668	
5,100.0	5,087.0	5,058.0	5,012.9	10.2	14.2	-81.36	-309.5	575.3	557.5	537.3	20.19	27.620	

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 4F-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 4F-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	5,186.5	5,157.2	5,111.0	10.4	14.5	-81.66	-316.7	588.1	569.5	548.8	20.65	27.574	
5,300.0	5,286.0	5,256.4	5,209.2	10.6	14.8	-81.95	-323.9	600.8	581.4	560.3	21.12	27.530	
5,400.0	5,385.6	5,355.7	5,307.3	10.9	15.1	-82.22	-331.2	613.6	593.4	571.8	21.59	27.487	
5,500.0	5,485.1	5,454.9	5,405.5	11.1	15.5	-82.49	-338.4	626.4	605.3	583.3	22.05	27.446	
5,600.0	5,584.7	5,554.2	5,503.6	11.3	15.8	-82.74	-345.7	639.2	617.3	594.8	22.52	27.407	
5,700.0	5,684.2	5,653.4	5,601.8	11.6	16.1	-82.99	-352.9	652.0	629.3	606.3	22.99	27.369	
5,800.0	5,783.8	5,752.7	5,699.9	11.8	16.4	-83.22	-360.2	664.8	641.3	617.8	23.46	27.332	
5,900.0	5,883.3	5,851.9	5,798.0	12.1	16.7	-83.45	-367.4	677.6	653.3	629.4	23.93	27.297	
6,000.0	5,982.8	5,951.1	5,896.2	12.3	17.0	-83.67	-374.7	690.3	665.3	640.9	24.40	27.263	
6,100.0	6,082.4	6,050.4	5,994.3	12.5	17.3	-83.88	-381.9	703.1	677.4	652.5	24.88	27.230	
6,200.0	6,181.9	6,149.6	6,092.5	12.8	17.6	-84.09	-389.2	715.9	689.4	664.1	25.35	27.198	
6,300.0	6,281.5	6,248.9	6,190.6	13.0	17.9	-84.28	-396.4	728.7	701.5	675.6	25.82	27.168	
6,400.0	6,381.1	6,348.1	6,288.8	13.2	18.2	-79.58	-403.7	741.5	713.5	687.2	26.31	27.121	
6,500.0	6,480.9	6,446.8	6,386.4	13.3	18.6	85.27	-410.9	754.2	725.7	699.1	26.64	27.238	
6,600.0	6,579.5	6,545.4	6,484.0	13.3	18.8	88.87	-416.6	766.9	738.3	711.6	26.71	27.640	
6,700.0	6,674.9	6,648.3	6,585.7	13.2	19.0	90.42	-410.0	780.2	751.3	724.7	26.55	28.300	
6,800.0	6,765.2	6,755.1	6,689.2	13.0	19.2	91.52	-387.8	793.7	764.3	738.0	26.21	29.156	
6,900.0	6,848.6	6,866.2	6,792.2	12.8	19.2	92.43	-348.4	807.1	776.9	751.1	25.78	30.134	
7,000.0	6,923.6	6,981.9	6,891.5	12.6	19.2	93.20	-291.0	820.0	788.8	763.5	25.36	31.107	
7,100.0	6,988.6	7,102.0	6,983.7	12.5	19.2	93.84	-215.1	832.0	799.6	774.5	25.07	31.896	
7,200.0	7,042.5	7,226.4	7,064.4	12.6	19.2	94.36	-121.3	842.5	808.7	783.6	25.06	32.265	
7,300.0	7,084.1	7,354.4	7,129.5	12.8	19.4	94.72	-11.5	851.0	815.9	790.4	25.47	32.031	
7,400.0	7,112.7	7,485.2	7,174.9	13.3	19.7	94.92	110.8	856.9	820.7	794.3	26.40	31.088	
7,500.0	7,127.7	7,617.4	7,197.6	14.0	20.3	94.94	240.8	859.9	823.0	795.2	27.85	29.552	
7,600.0	7,130.0	7,731.9	7,200.0	14.8	21.0	94.88	355.2	860.2	823.2	793.5	29.63	27.780	
7,700.0	7,130.0	7,831.9	7,200.0	15.8	21.7	94.88	455.2	860.2	823.2	791.6	31.63	26.028	
7,800.0	7,130.0	7,931.9	7,200.0	16.9	22.5	94.88	555.2	860.2	823.2	789.3	33.87	24.307	
7,900.0	7,130.0	8,031.9	7,200.0	18.2	23.4	94.88	655.2	860.2	823.2	786.9	36.30	22.675	
8,000.0	7,130.0	8,131.9	7,200.0	19.5	24.5	94.88	755.2	860.2	823.2	784.3	38.90	21.159	
8,100.0	7,130.0	8,231.9	7,200.0	20.8	25.6	94.88	855.2	860.2	823.2	781.5	41.64	19.771	
8,200.0	7,130.0	8,331.9	7,200.0	22.3	26.7	94.88	955.2	860.2	823.2	778.7	44.47	18.509	
8,300.0	7,130.0	8,431.9	7,200.0	23.7	28.0	94.88	1,055.2	860.2	823.2	775.8	47.40	17.367	
8,400.0	7,130.0	8,531.9	7,200.0	25.2	29.3	94.88	1,155.2	860.2	823.2	772.8	50.40	16.333	
8,500.0	7,130.0	8,631.9	7,200.0	26.8	30.6	94.88	1,255.2	860.2	823.2	769.7	53.46	15.398	
8,600.0	7,130.0	8,731.9	7,200.0	28.3	32.0	94.88	1,355.2	860.2	823.2	766.6	56.57	14.552	
8,700.0	7,130.0	8,831.9	7,200.0	29.9	33.4	94.88	1,455.2	860.2	823.2	763.5	59.72	13.784	
8,800.0	7,130.0	8,931.9	7,200.0	31.5	34.8	94.88	1,555.2	860.2	823.2	760.3	62.91	13.085	
8,900.0	7,130.0	9,031.9	7,200.0	33.1	36.3	94.88	1,655.2	860.2	823.2	757.0	66.13	12.448	
9,000.0	7,130.0	9,131.9	7,200.0	34.8	37.8	94.88	1,755.2	860.2	823.2	753.8	69.38	11.865	
9,100.0	7,130.0	9,231.9	7,200.0	36.4	39.3	94.88	1,855.2	860.2	823.2	750.5	72.65	11.331	
9,200.0	7,130.0	9,331.9	7,200.0	38.1	40.9	94.88	1,955.2	860.2	823.2	747.2	75.94	10.840	
9,300.0	7,130.0	9,431.9	7,200.0	39.7	42.4	94.88	2,055.2	860.2	823.2	743.9	79.24	10.388	
9,320.1	7,130.0	9,451.9	7,200.0	40.1	42.7	94.88	2,075.3	860.2	823.2	743.3	79.88	10.305	
9,400.0	7,130.0	9,531.9	7,200.0	41.4	44.0	94.88	2,155.2	860.2	823.4	741.0	82.43	9.990	
9,500.0	7,130.0	9,631.9	7,200.0	43.1	45.6	94.87	2,255.2	860.2	825.0	739.4	85.64	9.634	
9,600.0	7,130.0	9,731.9	7,200.0	44.7	47.2	94.86	2,355.2	860.2	826.8	737.8	88.99	9.291	
9,700.0	7,130.0	9,831.8	7,200.0	46.4	48.8	94.85	2,455.2	860.2	828.6	736.2	92.35	8.972	
9,800.0	7,130.0	9,931.8	7,200.0	48.1	50.4	94.84	2,555.1	860.2	830.4	734.7	95.72	8.675	
9,900.0	7,130.0	10,019.3	7,200.0	49.8	51.8	94.83	2,642.7	860.5	832.6	733.7	98.89	8.420	
10,000.0	7,130.0	10,117.0	7,200.0	51.5	53.4	94.81	2,740.3	862.2	836.1	733.9	102.23	8.178	
10,100.0	7,130.0	10,217.0	7,200.0	53.2	55.0	94.79	2,840.3	864.0	839.7	734.0	105.63	7.949	
10,200.0	7,130.0	10,316.9	7,200.0	54.9	56.7	94.76	2,940.2	865.8	843.2	734.2	109.03	7.734	

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 4F-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 4F-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
10,300.0	7,130.0	10,416.8	7,200.0	56.6	58.3	94.74	3,040.1	867.6	846.8	734.3	112.43	7.531	
10,400.0	7,130.0	10,516.8	7,200.0	58.3	60.0	94.73	3,140.0	869.3	850.3	734.5	115.84	7.340	
10,500.0	7,130.0	10,616.7	7,200.0	60.1	61.7	94.71	3,239.9	871.1	853.9	734.6	119.26	7.160	
10,600.0	7,130.0	10,716.6	7,200.0	61.8	63.4	94.69	3,339.9	872.9	857.4	734.7	122.68	6.989	
10,700.0	7,130.0	10,816.6	7,200.0	63.5	65.0	94.67	3,439.8	874.6	860.9	734.8	126.11	6.827	
10,800.0	7,130.0	10,916.5	7,200.0	65.2	66.7	94.65	3,539.7	876.4	864.5	735.0	129.54	6.674	
10,900.0	7,130.0	11,016.5	7,200.0	66.9	68.4	94.63	3,639.6	878.2	868.0	735.1	132.97	6.528	
11,000.0	7,130.0	11,116.4	7,200.0	68.7	70.1	94.61	3,739.5	880.0	871.6	735.2	136.41	6.390	
11,100.0	7,130.0	11,216.3	7,200.0	70.4	71.8	94.59	3,839.5	881.7	875.1	735.3	139.85	6.258	
11,200.0	7,130.0	11,316.3	7,200.0	72.1	73.5	94.57	3,939.4	883.5	878.7	735.4	143.29	6.132	
11,300.0	7,130.0	11,416.2	7,200.0	73.8	75.2	94.55	4,039.3	885.3	882.2	735.5	146.74	6.012	
11,400.0	7,130.0	11,516.1	7,200.0	75.6	76.9	94.54	4,139.2	887.1	885.8	735.6	150.19	5.898	
11,500.0	7,130.0	11,616.1	7,200.0	77.3	78.6	94.52	4,239.2	888.8	889.3	735.7	153.64	5.789	
11,600.0	7,130.0	11,695.7	7,200.0	79.0	79.9	94.50	4,318.7	890.2	893.1	736.4	156.74	5.698	
11,664.3	7,130.0	11,695.7	7,200.0	80.1	79.9	94.50	4,318.7	890.2	899.2	741.3	157.85	5.696	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	90.60	-0.4	37.4	37.4				
100.0	100.0	100.0	100.0	0.2	0.2	90.60	-0.4	37.4	37.4	37.1	0.30	123.304	
200.0	200.0	200.0	200.0	0.3	0.3	90.60	-0.4	37.4	37.4	36.8	0.65	57.366	
300.0	300.0	300.0	300.0	0.5	0.5	90.60	-0.4	37.4	37.4	36.4	1.00	37.378	CC, ES
400.0	400.0	399.4	399.4	0.7	0.7	91.10	-0.7	38.2	38.2	36.9	1.35	28.332	
500.0	500.0	498.7	498.7	0.8	0.9	92.51	-1.8	40.6	40.7	39.0	1.70	23.942	
600.0	600.0	597.9	597.8	1.0	1.0	94.51	-3.5	44.5	44.7	42.7	2.05	21.854	
700.0	700.0	697.0	696.7	1.2	1.2	96.77	-5.9	50.0	50.5	48.1	2.39	21.083	SF
800.0	800.0	795.8	795.2	1.4	1.4	99.00	-9.0	57.1	58.0	55.2	2.74	21.142	
900.0	900.0	894.3	893.2	1.5	1.7	101.05	-12.8	65.6	67.2	64.1	3.09	21.758	
1,000.0	1,000.0	992.4	990.7	1.7	1.9	102.85	-17.3	75.7	78.2	74.7	3.43	22.763	
1,100.0	1,100.0	1,090.2	1,087.7	1.9	2.2	104.37	-22.3	87.2	90.9	87.1	3.78	24.049	
1,200.0	1,200.0	1,187.5	1,183.9	2.1	2.4	105.65	-28.1	100.2	105.3	101.2	4.12	25.544	
1,300.0	1,300.0	1,284.2	1,279.4	2.2	2.8	106.72	-34.4	114.6	121.4	117.0	4.46	27.195	
1,400.0	1,400.0	1,381.6	1,375.2	2.4	3.1	107.61	-41.4	130.4	139.0	134.2	4.81	28.913	
1,500.0	1,500.0	1,480.0	1,472.0	2.6	3.4	108.32	-48.5	146.5	156.8	151.7	5.15	30.434	
1,600.0	1,600.0	1,578.4	1,568.8	2.8	3.7	108.88	-55.6	162.6	174.7	169.2	5.50	31.766	
1,700.0	1,700.0	1,676.8	1,665.6	2.9	4.1	109.34	-62.7	178.7	192.5	186.7	5.84	32.943	
1,800.0	1,800.0	1,775.2	1,762.4	3.1	4.4	109.72	-69.8	194.9	210.4	204.2	6.19	33.989	
1,900.0	1,900.0	1,873.5	1,859.2	3.3	4.8	110.04	-76.9	211.0	228.2	221.7	6.54	34.925	
2,000.0	2,000.0	1,972.0	1,956.1	3.5	5.1	-64.90	-84.1	227.1	245.7	238.9	6.89	35.669	
2,100.0	2,100.0	2,070.6	2,053.1	3.6	5.5	-65.02	-91.2	243.3	262.5	255.3	7.24	36.264	
2,200.0	2,199.9	2,169.2	2,150.1	3.8	5.8	-65.45	-98.3	259.4	278.6	271.0	7.59	36.692	
2,300.0	2,299.7	2,267.9	2,247.2	4.0	6.2	-66.13	-105.5	275.6	294.0	286.0	7.95	36.966	
2,400.0	2,399.4	2,366.7	2,344.4	4.2	6.5	-67.03	-112.6	291.8	308.8	300.5	8.32	37.099	
2,500.0	2,498.9	2,465.5	2,441.6	4.4	6.9	-68.16	-119.7	308.0	323.1	314.4	8.70	37.118	
2,600.0	2,598.5	2,564.2	2,538.7	4.6	7.2	-69.29	-126.9	324.1	337.4	328.3	9.09	37.106	
2,700.0	2,698.0	2,663.0	2,635.9	4.8	7.6	-70.33	-134.0	340.3	351.9	342.4	9.49	37.079	
2,800.0	2,797.5	2,761.7	2,733.0	5.0	7.9	-71.29	-141.1	356.5	366.5	356.6	9.90	37.039	
2,900.0	2,897.1	2,860.5	2,830.2	5.2	8.3	-72.17	-148.3	372.7	381.2	370.9	10.31	36.989	
3,000.0	2,996.6	2,959.2	2,927.3	5.4	8.6	-72.99	-155.4	388.9	395.9	385.2	10.72	36.932	
3,100.0	3,096.2	3,058.0	3,024.5	5.6	9.0	-73.75	-162.6	405.0	410.8	399.6	11.14	36.869	
3,200.0	3,195.7	3,156.7	3,121.7	5.8	9.3	-74.45	-169.7	421.2	425.7	414.1	11.57	36.802	
3,300.0	3,295.2	3,255.5	3,218.8	6.1	9.7	-75.11	-176.8	437.4	440.6	428.6	12.00	36.732	
3,400.0	3,394.8	3,354.2	3,316.0	6.3	10.1	-75.73	-184.0	453.6	455.6	443.2	12.43	36.660	
3,500.0	3,494.3	3,453.0	3,413.1	6.5	10.4	-76.30	-191.1	469.7	470.7	457.8	12.86	36.587	
3,600.0	3,593.9	3,551.7	3,510.3	6.7	10.8	-76.84	-198.2	485.9	485.8	472.5	13.30	36.514	
3,700.0	3,693.4	3,650.5	3,607.4	7.0	11.1	-77.35	-205.4	502.1	500.9	487.2	13.75	36.442	
3,800.0	3,792.9	3,749.2	3,704.6	7.2	11.5	-77.83	-212.5	518.3	516.1	501.9	14.19	36.369	
3,900.0	3,892.5	3,848.0	3,801.8	7.4	11.8	-78.28	-219.7	534.5	531.3	516.7	14.64	36.298	
4,000.0	3,992.0	3,946.7	3,898.9	7.6	12.2	-78.70	-226.8	550.6	546.5	531.5	15.09	36.228	
4,100.0	4,091.6	4,045.5	3,996.1	7.9	12.5	-79.11	-233.9	566.8	561.8	546.3	15.54	36.160	
4,200.0	4,191.1	4,144.3	4,093.2	8.1	12.9	-79.49	-241.1	583.0	577.1	561.1	15.99	36.093	
4,300.0	4,290.6	4,243.0	4,190.4	8.3	13.2	-79.85	-248.2	599.2	592.4	576.0	16.44	36.027	
4,400.0	4,390.2	4,341.8	4,287.5	8.5	13.6	-80.19	-255.3	615.4	607.8	590.9	16.90	35.964	
4,500.0	4,489.7	4,440.5	4,384.7	8.8	14.0	-80.52	-262.5	631.5	623.1	605.8	17.36	35.902	
4,600.0	4,589.3	4,539.3	4,481.8	9.0	14.3	-80.83	-269.6	647.7	638.5	620.7	17.81	35.841	
4,700.0	4,688.8	4,638.0	4,579.0	9.2	14.7	-81.13	-276.8	663.9	653.9	635.6	18.27	35.783	
4,800.0	4,788.3	4,736.8	4,676.2	9.5	15.0	-81.41	-283.9	680.1	669.3	650.6	18.73	35.726	
4,900.0	4,887.9	4,835.5	4,773.3	9.7	15.4	-81.68	-291.0	696.3	684.7	665.5	19.20	35.671	
5,000.0	4,987.4	4,934.3	4,870.5	9.9	15.7	-81.94	-298.2	712.4	700.2	680.5	19.66	35.617	
5,100.0	5,087.0	5,033.0	4,967.6	10.2	16.1	-82.18	-305.3	728.6	715.6	695.5	20.12	35.565	

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 4F-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 4F-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
5,200.0	5,186.5	5,131.8	5,064.8	10.4	16.5	-82.42	-312.4	744.8	731.1	710.5	20.59	35.515	
5,300.0	5,286.0	5,230.5	5,161.9	10.6	16.8	-82.65	-319.6	761.0	746.6	725.5	21.05	35.466	
5,400.0	5,385.6	5,329.3	5,259.1	10.9	17.2	-82.86	-326.7	777.2	762.1	740.5	21.52	35.418	
5,500.0	5,485.1	5,428.0	5,356.3	11.1	17.5	-83.07	-333.9	793.3	777.5	755.6	21.98	35.373	
5,600.0	5,584.7	5,526.8	5,453.4	11.3	17.9	-83.27	-341.0	809.5	793.1	770.6	22.45	35.328	
5,700.0	5,684.2	5,625.5	5,550.6	11.6	18.2	-83.46	-348.1	825.7	808.6	785.7	22.92	35.285	
5,800.0	5,783.8	5,724.3	5,647.7	11.8	18.6	-83.65	-355.3	841.9	824.1	800.7	23.38	35.243	
5,900.0	5,883.3	5,823.0	5,744.9	12.1	18.9	-83.83	-362.4	858.1	839.6	815.8	23.85	35.202	
6,000.0	5,982.8	5,921.8	5,842.0	12.3	19.3	-84.00	-369.6	874.2	855.2	830.9	24.32	35.163	
6,100.0	6,082.4	6,020.6	5,939.2	12.5	19.7	-84.17	-376.7	890.4	870.7	845.9	24.79	35.125	
6,200.0	6,181.9	6,119.3	6,036.4	12.8	20.0	-84.33	-383.8	906.6	886.3	861.0	25.26	35.087	
6,300.0	6,281.5	6,218.1	6,133.5	13.0	20.4	-84.48	-391.0	922.8	901.8	876.1	25.73	35.051	
6,400.0	6,381.1	6,316.8	6,230.7	13.2	20.7	-79.86	-398.1	939.0	917.4	891.2	26.24	34.957	
6,500.0	6,480.9	6,415.0	6,327.3	13.3	21.1	84.54	-405.2	955.1	933.0	906.4	26.66	35.001	
6,600.0	6,579.5	6,511.0	6,421.7	13.3	21.4	87.56	-412.1	970.8	948.9	922.0	26.82	35.375	
6,700.0	6,674.9	6,602.8	6,512.0	13.2	21.8	88.96	-418.8	985.8	965.5	938.7	26.79	36.045	
6,800.0	6,765.2	6,689.4	6,597.2	13.0	22.1	90.29	-425.0	1,000.0	984.1	957.5	26.63	36.955	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	90.51	-0.4	45.0	45.0				
100.0	100.0	100.0	100.0	0.2	0.2	90.51	-0.4	45.0	45.0	44.7	0.30	148.147	
200.0	200.0	200.0	200.0	0.3	0.3	90.51	-0.4	45.0	45.0	44.3	0.65	68.924	CC, ES
300.0	300.0	299.3	299.3	0.5	0.5	90.87	-0.7	45.8	45.8	44.8	1.00	45.779	
400.0	400.0	398.5	398.4	0.7	0.7	91.90	-1.6	48.2	48.3	46.9	1.35	35.788	
500.0	500.0	497.5	497.4	0.8	0.9	93.39	-3.1	52.2	52.4	50.7	1.70	30.876	
600.0	600.0	596.4	596.1	1.0	1.1	95.12	-5.2	57.8	58.2	56.2	2.04	28.469	
700.0	700.0	695.1	694.5	1.2	1.3	96.89	-7.9	65.0	65.7	63.3	2.39	27.485	
800.0	800.0	793.5	792.4	1.4	1.5	98.57	-11.1	73.8	75.0	72.2	2.74	27.389	SF
900.0	900.0	891.5	889.8	1.5	1.7	100.08	-14.9	84.0	86.0	82.9	3.08	27.883	
1,000.0	1,000.0	989.1	986.6	1.7	2.0	101.41	-19.3	95.8	98.7	95.2	3.43	28.789	
1,100.0	1,100.0	1,086.3	1,082.7	1.9	2.3	102.55	-24.3	109.1	113.1	109.3	3.77	29.991	
1,200.0	1,200.0	1,182.9	1,178.1	2.1	2.6	103.51	-29.8	123.8	129.2	125.1	4.11	31.412	
1,300.0	1,300.0	1,279.0	1,272.6	2.2	2.9	104.34	-35.8	139.9	147.0	142.5	4.45	32.999	
1,400.0	1,400.0	1,374.5	1,366.3	2.4	3.3	105.03	-42.3	157.4	166.4	161.6	4.79	34.713	
1,500.0	1,500.0	1,470.0	1,459.7	2.6	3.7	105.63	-49.3	176.3	187.5	182.3	5.13	36.512	
1,600.0	1,600.0	1,567.7	1,555.0	2.8	4.1	106.12	-56.7	196.1	209.0	203.5	5.48	38.146	
1,700.0	1,700.0	1,665.3	1,650.4	2.9	4.5	106.52	-64.0	215.8	230.5	224.7	5.82	39.590	
1,800.0	1,800.0	1,763.0	1,745.7	3.1	4.9	106.86	-71.4	235.6	252.1	245.9	6.17	40.873	
1,900.0	1,900.0	1,860.6	1,841.0	3.3	5.3	107.14	-78.7	255.3	273.6	267.1	6.51	42.020	
2,000.0	2,000.0	1,958.3	1,936.5	3.5	5.7	-67.77	-86.1	275.1	294.8	288.0	6.86	42.957	
2,100.0	2,100.0	2,056.2	2,032.0	3.6	6.1	-67.80	-93.5	294.9	315.4	308.2	7.21	43.740	
2,200.0	2,199.9	2,154.1	2,127.6	3.8	6.5	-68.10	-100.8	314.7	335.4	327.8	7.56	44.342	
2,300.0	2,299.7	2,252.2	2,223.4	4.0	6.9	-68.61	-108.2	334.5	354.7	346.8	7.92	44.779	
2,400.0	2,399.4	2,350.2	2,319.1	4.2	7.3	-69.31	-115.6	354.3	373.5	365.2	8.29	45.058	
2,500.0	2,498.9	2,448.3	2,414.9	4.4	7.7	-70.23	-123.0	374.2	391.9	383.2	8.67	45.206	
2,600.0	2,598.5	2,546.4	2,510.6	4.6	8.1	-71.18	-130.4	394.0	410.3	401.2	9.06	45.301	
2,700.0	2,698.0	2,644.4	2,606.4	4.8	8.5	-72.04	-137.8	413.8	428.8	419.3	9.45	45.364	
2,800.0	2,797.5	2,742.5	2,702.2	5.0	8.9	-72.84	-145.2	433.7	447.4	437.5	9.85	45.400	
2,900.0	2,897.1	2,840.6	2,797.9	5.2	9.3	-73.57	-152.6	453.5	466.0	455.8	10.26	45.414	
3,000.0	2,996.6	2,938.7	2,893.7	5.4	9.7	-74.24	-160.0	473.3	484.8	474.1	10.68	45.410	
3,100.0	3,096.2	3,036.7	2,989.5	5.6	10.2	-74.86	-167.3	493.2	503.6	492.5	11.09	45.392	
3,200.0	3,195.7	3,134.8	3,085.2	5.8	10.6	-75.44	-174.7	513.0	522.4	510.9	11.52	45.362	
3,300.0	3,295.2	3,232.9	3,181.0	6.1	11.0	-75.98	-182.1	532.9	541.3	529.4	11.94	45.323	
3,400.0	3,394.8	3,331.0	3,276.7	6.3	11.4	-76.48	-189.5	552.7	560.2	547.9	12.37	45.277	
3,500.0	3,494.3	3,429.0	3,372.5	6.5	11.8	-76.95	-196.9	572.5	579.2	566.4	12.81	45.226	
3,600.0	3,593.9	3,527.1	3,468.3	6.7	12.2	-77.39	-204.3	592.4	598.2	585.0	13.24	45.171	
3,700.0	3,693.4	3,625.2	3,564.0	7.0	12.6	-77.80	-211.7	612.2	617.3	603.6	13.68	45.112	
3,800.0	3,792.9	3,723.3	3,659.8	7.2	13.0	-78.19	-219.1	632.0	636.3	622.2	14.12	45.051	
3,900.0	3,892.5	3,821.4	3,755.6	7.4	13.4	-78.56	-226.4	651.9	655.4	640.9	14.57	44.989	
4,000.0	3,992.0	3,919.4	3,851.3	7.6	13.9	-78.90	-233.8	671.7	674.6	659.6	15.02	44.926	
4,100.0	4,091.6	4,017.5	3,947.1	7.9	14.3	-79.23	-241.2	691.5	693.7	678.3	15.46	44.862	
4,200.0	4,191.1	4,115.6	4,042.9	8.1	14.7	-79.54	-248.6	711.4	712.9	697.0	15.91	44.798	
4,300.0	4,290.6	4,213.7	4,138.6	8.3	15.1	-79.83	-256.0	731.2	732.1	715.7	16.36	44.735	
4,400.0	4,390.2	4,311.7	4,234.4	8.5	15.5	-80.10	-263.4	751.0	751.3	734.5	16.82	44.672	
4,500.0	4,489.7	4,409.8	4,330.2	8.8	15.9	-80.37	-270.8	770.9	770.5	753.2	17.27	44.610	
4,600.0	4,589.3	4,507.9	4,425.9	9.0	16.3	-80.62	-278.2	790.7	789.7	772.0	17.73	44.549	
4,700.0	4,688.8	4,606.0	4,521.7	9.2	16.7	-80.86	-285.6	810.6	809.0	790.8	18.18	44.489	
4,800.0	4,788.3	4,704.0	4,617.5	9.5	17.2	-81.09	-292.9	830.4	828.2	809.6	18.64	44.430	
4,900.0	4,887.9	4,802.1	4,713.2	9.7	17.6	-81.30	-300.3	850.2	847.5	828.4	19.10	44.372	
5,000.0	4,987.4	4,900.2	4,809.0	9.9	18.0	-81.51	-307.7	870.1	866.8	847.2	19.56	44.315	
5,100.0	5,087.0	4,998.3	4,904.7	10.2	18.4	-81.71	-315.1	889.9	886.1	866.1	20.02	44.259	

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 4F-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 4F-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
5,200.0	5,186.5	5,096.3	5,000.5	10.4	18.8	-81.90	-322.5	909.7	905.4	884.9	20.48	44.205	
5,300.0	5,286.0	5,194.4	5,096.3	10.6	19.2	-82.08	-329.9	929.6	924.7	903.7	20.94	44.152	
5,400.0	5,385.6	5,292.5	5,192.0	10.9	19.6	-82.26	-337.3	949.4	944.0	922.6	21.41	44.100	
5,500.0	5,485.1	5,390.6	5,287.8	11.1	20.1	-82.42	-344.7	969.2	963.3	941.5	21.87	44.049	
5,600.0	5,584.7	5,488.6	5,383.6	11.3	20.5	-82.58	-352.1	989.1	982.7	960.3	22.33	44.000	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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	-68.93	192.0	-498.2	533.9				
100.0	100.0	101.3	101.3	0.2	0.2	-68.92	192.0	-498.2	533.9	533.6	0.33	1,628.560	
200.0	200.0	201.5	201.5	0.3	0.4	-68.90	192.2	-498.0	533.9	533.2	0.68	789.164	
300.0	300.0	301.7	301.7	0.5	0.5	-68.86	192.5	-497.8	533.7	532.7	1.03	520.675	
400.0	400.0	402.0	402.0	0.7	0.7	-68.81	192.9	-497.5	533.6	532.2	1.37	388.434	
500.0	500.0	502.2	502.2	0.8	0.9	-68.74	193.4	-497.1	533.4	531.7	1.72	309.704	
600.0	600.0	602.4	602.4	1.0	1.0	-68.66	194.1	-496.6	533.2	531.1	2.07	257.463	
700.0	700.0	702.6	702.6	1.2	1.2	-68.56	194.8	-496.1	532.9	530.5	2.42	220.260	
800.0	800.0	802.8	802.8	1.4	1.4	-68.44	195.7	-495.4	532.6	529.9	2.77	192.414	
900.0	900.0	913.6	913.5	1.5	1.6	-68.30	196.6	-493.9	531.7	528.6	3.14	169.490	
1,000.0	1,000.0	1,024.7	1,024.6	1.7	1.8	-68.33	194.9	-490.5	528.3	524.8	3.50	150.814	
1,100.0	1,100.0	1,140.5	1,140.1	1.9	2.0	-68.54	190.4	-484.4	521.9	518.1	3.88	134.659	
1,200.0	1,200.0	1,253.0	1,252.2	2.1	2.2	-68.95	183.5	-476.7	513.4	509.1	4.24	120.965	
1,300.0	1,300.0	1,362.9	1,361.2	2.2	2.5	-69.61	173.7	-467.4	502.3	497.7	4.61	109.006	
1,400.0	1,400.0	1,468.2	1,465.5	2.4	2.7	-70.31	163.6	-457.3	489.9	484.9	4.97	98.619	
1,500.0	1,500.0	1,573.3	1,569.5	2.6	3.0	-70.93	153.9	-445.2	476.0	470.7	5.33	89.322	
1,600.0	1,600.0	1,686.1	1,680.7	2.8	3.3	-71.74	142.1	-430.8	460.5	454.8	5.71	80.663	
1,700.0	1,700.0	1,789.6	1,782.2	2.9	3.7	-72.70	129.3	-415.1	442.3	436.2	6.08	72.760	
1,800.0	1,800.0	1,896.5	1,886.8	3.1	4.0	-73.89	115.0	-398.0	423.0	416.6	6.46	65.443	
1,900.0	1,900.0	1,994.8	1,982.6	3.3	4.4	-75.17	100.9	-381.1	402.5	395.7	6.84	58.828	
2,000.0	2,000.0	2,097.4	2,082.6	3.5	4.8	108.51	86.3	-363.1	382.3	375.0	7.31	52.280	
2,100.0	2,100.0	2,198.3	2,180.5	3.6	5.2	107.43	71.0	-344.2	361.3	353.6	7.74	46.698	
2,200.0	2,199.9	2,293.2	2,272.6	3.8	5.6	106.60	56.9	-326.3	340.9	332.8	8.15	41.826	
2,300.0	2,299.7	2,390.1	2,366.9	4.0	6.0	106.04	43.3	-308.6	321.9	313.3	8.57	37.550	
2,400.0	2,399.4	2,487.4	2,461.7	4.2	6.4	105.75	29.9	-291.0	303.6	294.6	8.99	33.749	
2,500.0	2,498.9	2,589.2	2,560.6	4.4	6.9	105.47	15.3	-272.3	285.4	275.9	9.45	30.199	
2,600.0	2,598.5	2,688.9	2,657.3	4.6	7.3	104.84	-0.3	-253.3	266.2	256.3	9.93	26.819	
2,700.0	2,698.0	2,782.7	2,748.3	4.8	7.7	104.19	-14.8	-236.2	248.0	237.6	10.40	23.847	
2,800.0	2,797.5	2,881.6	2,844.6	5.0	8.2	103.45	-29.8	-218.8	230.4	219.5	10.90	21.147	
2,900.0	2,897.1	2,981.1	2,941.2	5.2	8.6	102.79	-44.2	-200.4	212.1	200.7	11.40	18.612	
3,000.0	2,996.6	3,078.5	3,035.9	5.4	9.0	101.98	-58.4	-182.7	194.2	182.3	11.91	16.301	
3,100.0	3,096.2	3,176.9	3,131.7	5.6	9.4	101.01	-72.7	-164.8	176.3	163.9	12.45	14.160	
3,200.0	3,195.7	3,274.4	3,226.6	5.8	9.9	99.98	-86.5	-147.3	158.8	145.8	13.00	12.212	
3,300.0	3,295.2	3,372.7	3,322.4	6.1	10.3	98.80	-100.1	-130.2	141.9	128.3	13.58	10.449	
3,400.0	3,394.8	3,471.4	3,418.6	6.3	10.7	97.12	-114.1	-112.7	124.7	110.5	14.21	8.774	
3,500.0	3,494.3	3,569.8	3,514.4	6.5	11.1	94.93	-128.1	-95.4	107.7	92.8	14.90	7.229	
3,600.0	3,593.9	3,668.6	3,610.7	6.7	11.6	92.16	-141.7	-77.8	90.8	75.1	15.67	5.793	
3,700.0	3,693.4	3,767.5	3,706.8	7.0	12.0	87.58	-155.9	-59.6	73.7	57.1	16.62	4.432	
3,800.0	3,792.9	3,866.4	3,802.9	7.2	12.5	80.25	-170.0	-40.6	56.4	38.5	17.83	3.161	
3,900.0	3,892.5	3,964.0	3,897.5	7.4	12.9	66.35	-184.2	-21.3	40.4	21.0	19.42	2.083	
4,000.0	3,992.0	4,062.2	3,992.7	7.6	13.4	39.18	-199.1	-2.3	30.0	9.5	20.56	1.461	Level 3
4,044.1	4,036.0	4,105.5	4,034.5	7.7	13.6	22.05	-205.7	6.5	28.7	8.6	20.06	1.430	Level 3, CC, ES, SF
4,100.0	4,091.6	4,160.5	4,087.9	7.9	13.8	1.86	-213.9	17.0	30.5	11.9	18.59	1.640	
4,200.0	4,191.1	4,259.0	4,183.7	8.1	14.3	-23.71	-227.7	35.3	40.2	23.9	16.31	2.463	
4,300.0	4,290.6	4,357.7	4,279.7	8.3	14.7	-38.30	-241.0	53.6	54.1	38.5	15.66	3.457	
4,400.0	4,390.2	4,457.8	4,377.5	8.5	15.1	-46.71	-253.6	70.9	68.5	52.6	15.91	4.309	
4,500.0	4,489.7	4,556.6	4,474.4	8.8	15.5	-51.67	-265.6	86.4	82.2	65.8	16.42	5.007	
4,600.0	4,589.3	4,656.2	4,572.0	9.0	15.9	-55.17	-277.7	101.9	96.2	79.2	17.01	5.660	
4,700.0	4,688.8	4,756.7	4,670.8	9.2	16.2	-57.64	-289.5	116.1	109.0	91.4	17.59	6.197	
4,800.0	4,788.3	4,855.8	4,768.3	9.5	16.6	-59.61	-301.1	130.0	121.9	103.7	18.18	6.706	
4,900.0	4,887.9	4,957.1	4,868.0	9.7	16.9	-61.31	-312.2	143.3	133.7	115.0	18.77	7.126	
5,000.0	4,987.4	5,057.8	4,967.5	9.9	17.2	-62.70	-322.9	155.3	144.4	125.1	19.34	7.466	

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 4F-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 4F-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	5,087.0	5,159.2	5,067.8	10.2	17.6	-64.56	-331.7	167.1	154.2	134.2	19.98	7.718	
5,200.0	5,186.5	5,260.5	5,168.2	10.4	17.8	-66.58	-339.0	177.9	162.7	142.0	20.65	7.877	
5,300.0	5,286.0	5,361.4	5,268.3	10.6	18.1	-68.18	-346.6	187.7	170.7	149.4	21.30	8.013	
5,400.0	5,385.6	5,461.7	5,368.0	10.9	18.4	-69.72	-353.7	196.8	177.8	155.9	21.94	8.106	
5,500.0	5,485.1	5,564.3	5,470.1	11.1	18.6	-71.34	-360.2	205.4	184.5	161.9	22.60	8.161	
5,600.0	5,584.7	5,663.4	5,568.7	11.3	18.9	-72.85	-366.2	213.2	190.5	167.3	23.25	8.194	
5,700.0	5,684.2	5,764.5	5,669.3	11.6	19.1	-74.54	-371.5	220.9	196.4	172.4	23.94	8.203	
5,800.0	5,783.8	5,866.3	5,770.7	11.8	19.3	-76.19	-376.5	228.0	201.7	177.1	24.61	8.194	
5,900.0	5,883.3	5,969.4	5,873.6	12.1	19.5	-78.20	-379.8	233.9	205.7	180.4	25.34	8.118	
6,000.0	5,982.8	6,072.1	5,976.2	12.3	19.6	-80.43	-381.9	238.3	208.4	182.3	26.10	7.983	
6,100.0	6,082.4	6,173.5	6,077.5	12.5	19.8	-82.41	-384.5	241.5	210.3	183.5	26.83	7.839	
6,200.0	6,181.9	6,277.8	6,181.8	12.8	19.9	-84.51	-386.7	243.1	210.8	183.2	27.56	7.648	
6,300.0	6,281.5	6,378.6	6,282.6	13.0	20.0	-87.00	-387.2	243.2	210.2	181.9	28.32	7.421	
6,400.0	6,381.1	6,478.1	6,382.1	13.2	20.1	-84.17	-387.2	243.3	209.9	180.9	29.03	7.230	
6,500.0	6,480.9	6,578.0	6,482.0	13.3	20.2	81.55	-387.0	243.3	208.9	179.8	29.15	7.166	
6,600.0	6,579.5	6,676.9	6,580.8	13.3	20.3	88.95	-386.9	243.3	207.8	179.2	28.55	7.277	
6,620.2	6,599.1	6,696.7	6,600.7	13.3	20.3	90.49	-386.8	243.3	207.7	179.4	28.35	7.328	
6,700.0	6,674.9	6,772.7	6,676.7	13.2	20.4	97.29	-386.4	243.1	209.3	181.9	27.38	7.644	
6,800.0	6,765.2	6,863.2	6,767.2	13.0	20.5	107.00	-386.1	242.8	219.0	193.1	25.90	8.456	
6,900.0	6,848.6	6,947.1	6,851.1	12.8	20.5	116.41	-386.0	242.4	242.4	217.9	24.47	9.904	
7,000.0	6,923.6	7,021.9	6,925.8	12.6	20.6	123.77	-385.9	242.0	282.5	259.2	23.30	12.125	
7,100.0	6,988.6	7,086.7	6,990.7	12.5	20.7	128.39	-385.8	241.7	339.0	316.5	22.48	15.075	
7,200.0	7,042.5	7,140.5	7,044.4	12.6	20.7	129.93	-385.7	241.6	409.1	386.9	22.26	18.376	
7,300.0	7,084.1	7,182.1	7,086.1	12.8	20.8	127.81	-385.6	241.6	489.9	466.9	23.07	21.241	
7,400.0	7,112.7	7,210.8	7,114.8	13.3	20.8	120.49	-385.6	241.6	578.4	553.0	25.38	22.787	
7,500.0	7,127.7	7,226.2	7,130.1	14.0	20.8	104.69	-385.5	241.6	671.8	642.8	29.02	23.151	
7,600.0	7,130.0	7,228.7	7,132.7	14.8	20.8	90.45	-385.5	241.6	767.7	736.8	30.93	24.823	
7,700.0	7,130.0	7,229.0	7,132.9	15.8	20.8	90.52	-385.5	241.6	864.6	832.7	31.93	27.078	
7,800.0	7,130.0	7,229.2	7,133.2	16.9	20.8	90.59	-385.5	241.6	962.1	929.1	33.06	29.106	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4F-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 4F-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
8,300.0	7,130.0	7,098.0	7,098.0	23.7	12.4	-90.00	2,045.1	-24.9	992.0	955.9	36.11	27.470	
8,400.0	7,130.0	7,098.0	7,098.0	25.2	12.4	-90.00	2,045.1	-24.9	892.2	854.6	37.62	23.718	
8,500.0	7,130.0	7,098.0	7,098.0	26.8	12.4	-90.00	2,045.1	-24.9	792.5	753.4	39.16	20.241	
8,600.0	7,130.0	7,098.0	7,098.0	28.3	12.4	-90.00	2,045.1	-24.9	692.9	652.2	40.72	17.018	
8,700.0	7,130.0	7,098.0	7,098.0	29.9	12.4	-90.00	2,045.1	-24.9	593.4	551.1	42.30	14.029	
8,800.0	7,130.0	7,098.0	7,098.0	31.5	12.4	-90.00	2,045.1	-24.9	494.1	450.2	43.90	11.256	
8,900.0	7,130.0	7,098.0	7,098.0	33.1	12.4	-90.00	2,045.1	-24.9	395.2	349.7	45.52	8.683	
9,000.0	7,130.0	7,098.0	7,098.0	34.8	12.4	-90.00	2,045.1	-24.9	297.0	249.9	47.15	6.300	
9,100.0	7,130.0	7,098.0	7,098.0	36.4	12.4	-90.00	2,045.1	-24.9	200.6	151.9	48.79	4.112	
9,200.0	7,130.0	7,098.0	7,098.0	38.1	12.4	-90.00	2,045.1	-24.9	110.8	60.4	50.44	2.197	
9,289.9	7,130.0	7,098.0	7,098.0	39.6	12.4	-90.00	2,045.1	-24.9	64.9	12.9	51.94	1.249	Level 2, CC, ES, SF
9,300.0	7,130.0	7,098.0	7,098.0	39.7	12.4	-90.00	2,045.1	-24.9	65.7	13.5	52.10	1.260	Level 3
9,400.0	7,130.0	7,098.0	7,098.0	41.4	12.4	-90.00	2,045.1	-24.9	127.7	73.9	53.76	2.375	
9,500.0	7,130.0	7,098.0	7,098.0	43.1	12.4	-90.00	2,045.1	-24.9	219.4	163.9	55.43	3.957	
9,600.0	7,130.0	7,098.0	7,098.0	44.7	12.4	-90.00	2,045.1	-24.9	316.1	259.0	57.11	5.535	
9,700.0	7,130.0	7,098.0	7,098.0	46.4	12.4	-90.00	2,045.1	-24.9	414.4	355.6	58.80	7.047	
9,800.0	7,130.0	7,098.0	7,098.0	48.1	12.4	-90.00	2,045.1	-24.9	513.3	452.8	60.49	8.486	
9,900.0	7,130.0	7,098.0	7,098.0	49.8	12.4	-90.00	2,045.1	-24.9	612.6	550.4	62.18	9.851	
10,000.0	7,130.0	7,098.0	7,098.0	51.5	12.4	-90.00	2,045.1	-24.9	712.1	648.2	63.88	11.147	
10,100.0	7,130.0	7,098.0	7,098.0	53.2	12.4	-90.00	2,045.1	-24.9	811.7	746.1	65.59	12.376	
10,200.0	7,130.0	7,098.0	7,098.0	54.9	12.4	-90.00	2,045.1	-24.9	911.4	844.1	67.29	13.544	

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