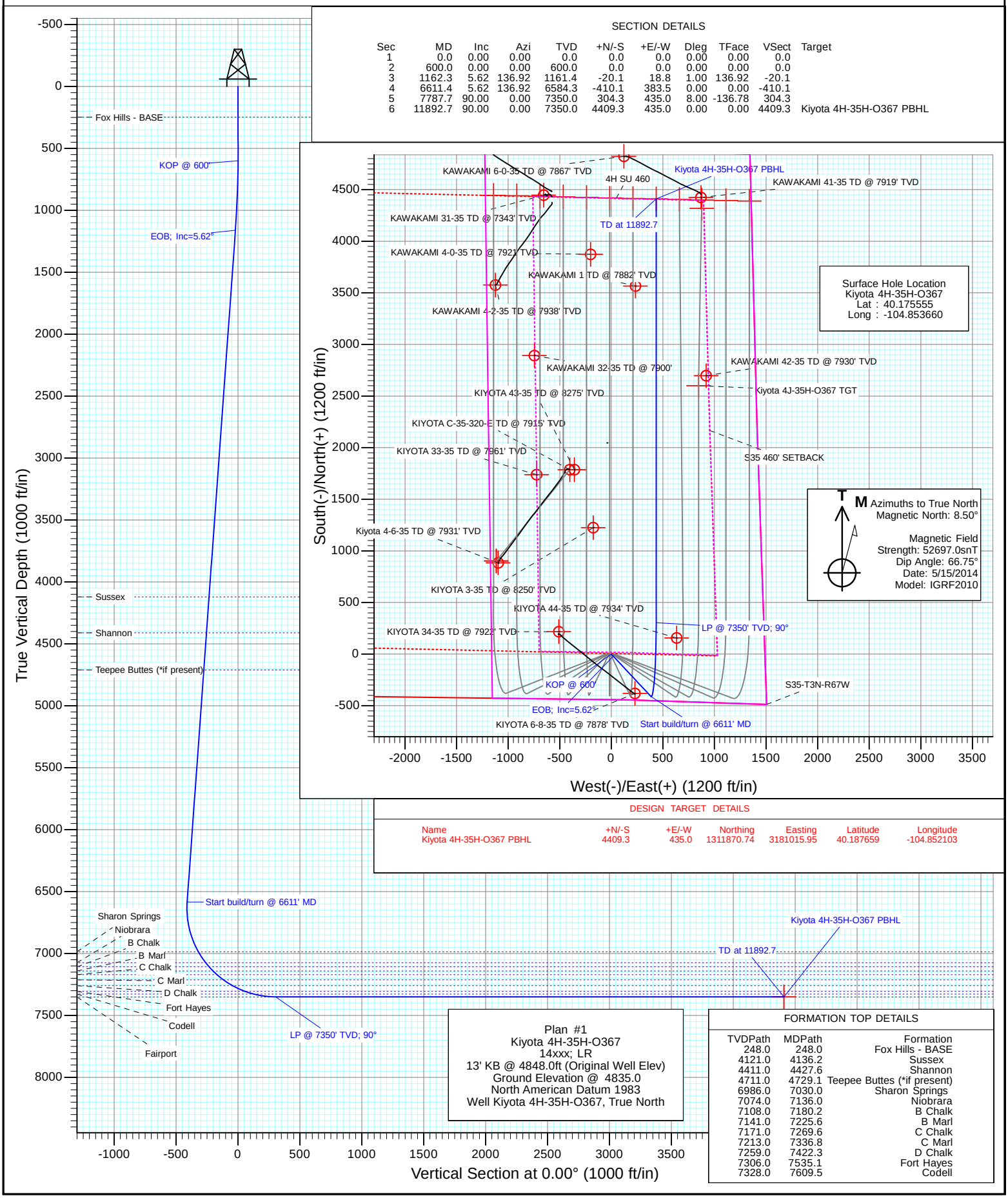
encana natural gas

Project: DJ Wattenberg
Site: S35-T3N-R67W (Kiyota)
Well: Kiyota 4H-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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1162.3	5.62	136.92	1161.4	-20.1	18.8	1.00	136.92	-20.1	
4	6611.4	5.62	136.92	6584.3	-410.1	383.5	0.00	0.00	-410.1	
5	7787.7	90.00	0.00	7350.0	304.3	435.0	8.00	-136.78	304.3	
6	11892.7	90.00	0.00	7350.0	4409.3	435.0	0.00	0.00	4409.3	Kiyota 4H-35H-O367 PBHL



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Kiyota 4H-35H-O367 PBHL	4409.3	435.0	1311870.74	3181015.95	40.187659	-104.852103

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

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
248.0	248.0	Fox Hills - BASE
4121.0	4136.2	Sussex
4411.0	4427.6	Shannon
4711.0	4729.1	Teepee Buttes (*if present)
6986.0	7030.0	Sharon Springs
7074.0	7136.0	Niobrara
7108.0	7180.2	B Chalk
7141.0	7225.6	B Marl
7171.0	7269.6	C Chalk
7213.0	7336.8	C Marl
7259.0	7422.3	D Chalk
7306.0	7535.1	Fort Hayes
7328.0	7609.5	Codell

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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 4H-35H-O367

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,307,458.40 ft	**Latitude:**	40.175555
	+E/-W	0.0 ft	**Easting:**	3,180,613.11 ft	**Longitude:**	-104.853660
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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,162.3	5.62	136.92	1,161.4	-20.1	18.8	1.00	1.00	0.00	136.92	
6,611.4	5.62	136.92	6,584.3	-410.1	383.5	0.00	0.00	0.00	0.00	
7,787.7	90.00	0.00	7,350.0	304.3	435.0	8.00	7.17	-11.64	-136.78	
11,892.7	90.00	0.00	7,350.0	4,409.3	435.0	0.00	0.00	0.00	0.00	Kiyota 4H-35H-O367

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	KOP @ 600'
700.0	1.00	136.92	700.0	-0.6	0.6	-0.6	1.00	1.00	
800.0	2.00	136.92	800.0	-2.5	2.4	-2.5	1.00	1.00	
900.0	3.00	136.92	899.9	-5.7	5.4	-5.7	1.00	1.00	
1,000.0	4.00	136.92	999.7	-10.2	9.5	-10.2	1.00	1.00	
1,100.0	5.00	136.92	1,099.4	-15.9	14.9	-15.9	1.00	1.00	
1,162.3	5.62	136.92	1,161.4	-20.1	18.8	-20.1	1.00	1.00	EOB; Inc=5.62°
1,200.0	5.62	136.92	1,198.9	-22.8	21.4	-22.8	0.00	0.00	
1,300.0	5.62	136.92	1,298.4	-30.0	28.0	-30.0	0.00	0.00	
1,400.0	5.62	136.92	1,398.0	-37.1	34.7	-37.1	0.00	0.00	
1,500.0	5.62	136.92	1,497.5	-44.3	41.4	-44.3	0.00	0.00	
1,600.0	5.62	136.92	1,597.0	-51.5	48.1	-51.5	0.00	0.00	
1,700.0	5.62	136.92	1,696.5	-58.6	54.8	-58.6	0.00	0.00	
1,800.0	5.62	136.92	1,796.0	-65.8	61.5	-65.8	0.00	0.00	
1,900.0	5.62	136.92	1,895.5	-72.9	68.2	-72.9	0.00	0.00	
2,000.0	5.62	136.92	1,995.1	-80.1	74.9	-80.1	0.00	0.00	
2,100.0	5.62	136.92	2,094.6	-87.2	81.6	-87.2	0.00	0.00	
2,200.0	5.62	136.92	2,194.1	-94.4	88.3	-94.4	0.00	0.00	
2,300.0	5.62	136.92	2,293.6	-101.6	95.0	-101.6	0.00	0.00	
2,400.0	5.62	136.92	2,393.1	-108.7	101.7	-108.7	0.00	0.00	
2,500.0	5.62	136.92	2,492.7	-115.9	108.4	-115.9	0.00	0.00	
2,600.0	5.62	136.92	2,592.2	-123.0	115.0	-123.0	0.00	0.00	
2,700.0	5.62	136.92	2,691.7	-130.2	121.7	-130.2	0.00	0.00	
2,800.0	5.62	136.92	2,791.2	-137.3	128.4	-137.3	0.00	0.00	
2,900.0	5.62	136.92	2,890.7	-144.5	135.1	-144.5	0.00	0.00	
3,000.0	5.62	136.92	2,990.3	-151.6	141.8	-151.6	0.00	0.00	
3,100.0	5.62	136.92	3,089.8	-158.8	148.5	-158.8	0.00	0.00	
3,200.0	5.62	136.92	3,189.3	-166.0	155.2	-166.0	0.00	0.00	
3,300.0	5.62	136.92	3,288.8	-173.1	161.9	-173.1	0.00	0.00	
3,400.0	5.62	136.92	3,388.3	-180.3	168.6	-180.3	0.00	0.00	
3,500.0	5.62	136.92	3,487.9	-187.4	175.3	-187.4	0.00	0.00	
3,600.0	5.62	136.92	3,587.4	-194.6	182.0	-194.6	0.00	0.00	
3,700.0	5.62	136.92	3,686.9	-201.7	188.7	-201.7	0.00	0.00	
3,800.0	5.62	136.92	3,786.4	-208.9	195.4	-208.9	0.00	0.00	
3,900.0	5.62	136.92	3,885.9	-216.0	202.0	-216.0	0.00	0.00	
4,000.0	5.62	136.92	3,985.4	-223.2	208.7	-223.2	0.00	0.00	
4,100.0	5.62	136.92	4,085.0	-230.4	215.4	-230.4	0.00	0.00	
4,136.2	5.62	136.92	4,121.0	-233.0	217.9	-233.0	0.00	0.00	Sussex
4,200.0	5.62	136.92	4,184.5	-237.5	222.1	-237.5	0.00	0.00	
4,300.0	5.62	136.92	4,284.0	-244.7	228.8	-244.7	0.00	0.00	
4,400.0	5.62	136.92	4,383.5	-251.8	235.5	-251.8	0.00	0.00	
4,427.6	5.62	136.92	4,411.0	-253.8	237.4	-253.8	0.00	0.00	Shannon
4,500.0	5.62	136.92	4,483.0	-259.0	242.2	-259.0	0.00	0.00	
4,600.0	5.62	136.92	4,582.6	-266.1	248.9	-266.1	0.00	0.00	
4,700.0	5.62	136.92	4,682.1	-273.3	255.6	-273.3	0.00	0.00	

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Well:	Kiyota 4H-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
4,729.1	5.62	136.92	4,711.0	-275.4	257.5	-275.4	0.00	0.00	Teepee Buttes (*if present)
4,800.0	5.62	136.92	4,781.6	-280.5	262.3	-280.5	0.00	0.00	
4,900.0	5.62	136.92	4,881.1	-287.6	269.0	-287.6	0.00	0.00	
5,000.0	5.62	136.92	4,980.6	-294.8	275.7	-294.8	0.00	0.00	
5,100.0	5.62	136.92	5,080.2	-301.9	282.4	-301.9	0.00	0.00	
5,200.0	5.62	136.92	5,179.7	-309.1	289.0	-309.1	0.00	0.00	
5,300.0	5.62	136.92	5,279.2	-316.2	295.7	-316.2	0.00	0.00	
5,400.0	5.62	136.92	5,378.7	-323.4	302.4	-323.4	0.00	0.00	
5,500.0	5.62	136.92	5,478.2	-330.5	309.1	-330.5	0.00	0.00	
5,600.0	5.62	136.92	5,577.7	-337.7	315.8	-337.7	0.00	0.00	
5,700.0	5.62	136.92	5,677.3	-344.9	322.5	-344.9	0.00	0.00	
5,800.0	5.62	136.92	5,776.8	-352.0	329.2	-352.0	0.00	0.00	
5,900.0	5.62	136.92	5,876.3	-359.2	335.9	-359.2	0.00	0.00	
6,000.0	5.62	136.92	5,975.8	-366.3	342.6	-366.3	0.00	0.00	
6,100.0	5.62	136.92	6,075.3	-373.5	349.3	-373.5	0.00	0.00	
6,200.0	5.62	136.92	6,174.9	-380.6	356.0	-380.6	0.00	0.00	
6,300.0	5.62	136.92	6,274.4	-387.8	362.7	-387.8	0.00	0.00	
6,400.0	5.62	136.92	6,373.9	-394.9	369.4	-394.9	0.00	0.00	
6,500.0	5.62	136.92	6,473.4	-402.1	376.1	-402.1	0.00	0.00	
6,600.0	5.62	136.92	6,572.9	-409.3	382.7	-409.3	0.00	0.00	
6,611.4	5.62	136.92	6,584.3	-410.1	383.5	-410.1	0.00	0.00	Start build/turn @ 6611' MD
6,700.0	4.87	52.16	6,672.6	-410.9	389.4	-410.9	8.00	-0.85	
6,800.0	11.63	19.07	6,771.6	-398.8	396.1	-398.8	8.00	6.76	
6,900.0	19.36	11.04	6,867.9	-373.0	402.6	-373.0	8.00	7.73	
7,000.0	27.24	7.51	6,959.7	-333.9	408.7	-333.9	8.00	7.88	
7,030.0	29.61	6.80	6,986.0	-319.8	410.5	-319.8	8.00	7.92	Sharon Springs
7,100.0	35.17	5.48	7,045.1	-282.5	414.5	-282.5	8.00	7.94	
7,136.0	38.03	4.93	7,074.0	-261.1	416.4	-261.1	8.00	7.95	Niobrara
7,180.2	41.55	4.35	7,108.0	-232.9	418.7	-232.9	8.00	7.96	B Chalk
7,200.0	43.12	4.12	7,122.6	-219.7	419.7	-219.7	8.00	7.96	
7,225.6	45.16	3.83	7,141.0	-201.8	420.9	-201.8	8.00	7.96	B Marl
7,269.6	48.66	3.39	7,171.0	-169.8	423.0	-169.8	8.00	7.97	C Chalk
7,300.0	51.09	3.11	7,190.6	-146.6	424.3	-146.6	8.00	7.97	
7,336.8	54.02	2.80	7,213.0	-117.4	425.8	-117.4	8.00	7.97	C Marl
7,400.0	59.06	2.31	7,247.8	-64.8	428.1	-64.8	8.00	7.97	
7,422.3	60.84	2.15	7,259.0	-45.5	428.9	-45.5	8.00	7.98	D Chalk
7,500.0	67.04	1.63	7,293.1	24.2	431.2	24.2	8.00	7.98	
7,535.1	69.84	1.41	7,306.0	56.9	432.0	56.9	8.00	7.98	Fort Hayes
7,600.0	75.02	1.03	7,325.6	118.7	433.4	118.7	8.00	7.98	
7,609.5	75.78	0.98	7,328.0	127.9	433.5	127.9	8.00	7.98	Codell
7,700.0	83.00	0.47	7,344.7	216.8	434.6	216.8	8.00	7.98	
7,787.7	90.00	0.00	7,350.0	304.3	435.0	304.3	8.00	7.98	LP @ 7350' TVD; 90°
7,800.0	90.00	0.00	7,350.0	316.6	435.0	316.6	0.00	0.00	
7,900.0	90.00	0.00	7,350.0	416.6	435.0	416.6	0.00	0.00	
8,000.0	90.00	0.00	7,350.0	516.6	435.0	516.6	0.00	0.00	
8,100.0	90.00	0.00	7,350.0	616.6	435.0	616.6	0.00	0.00	
8,200.0	90.00	0.00	7,350.0	716.6	435.0	716.6	0.00	0.00	
8,300.0	90.00	0.00	7,350.0	816.6	435.0	816.6	0.00	0.00	
8,400.0	90.00	0.00	7,350.0	916.6	435.0	916.6	0.00	0.00	
8,500.0	90.00	0.00	7,350.0	1,016.6	435.0	1,016.6	0.00	0.00	
8,600.0	90.00	0.00	7,350.0	1,116.6	435.0	1,116.6	0.00	0.00	
8,700.0	90.00	0.00	7,350.0	1,216.6	435.0	1,216.6	0.00	0.00	

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	0.00	7,350.0	1,316.6	435.0	1,316.6	0.00	0.00	
8,900.0	90.00	0.00	7,350.0	1,416.6	435.0	1,416.6	0.00	0.00	
9,000.0	90.00	0.00	7,350.0	1,516.6	435.0	1,516.6	0.00	0.00	
9,100.0	90.00	0.00	7,350.0	1,616.6	435.0	1,616.6	0.00	0.00	
9,200.0	90.00	0.00	7,350.0	1,716.6	435.0	1,716.6	0.00	0.00	
9,300.0	90.00	0.00	7,350.0	1,816.6	435.0	1,816.6	0.00	0.00	
9,400.0	90.00	0.00	7,350.0	1,916.6	435.0	1,916.6	0.00	0.00	
9,500.0	90.00	0.00	7,350.0	2,016.6	435.0	2,016.6	0.00	0.00	
9,600.0	90.00	0.00	7,350.0	2,116.6	435.0	2,116.6	0.00	0.00	
9,700.0	90.00	0.00	7,350.0	2,216.6	435.0	2,216.6	0.00	0.00	
9,800.0	90.00	0.00	7,350.0	2,316.6	435.0	2,316.6	0.00	0.00	
9,900.0	90.00	0.00	7,350.0	2,416.6	435.0	2,416.6	0.00	0.00	
10,000.0	90.00	0.00	7,350.0	2,516.6	435.0	2,516.6	0.00	0.00	
10,100.0	90.00	0.00	7,350.0	2,616.6	435.0	2,616.6	0.00	0.00	
10,200.0	90.00	0.00	7,350.0	2,716.6	435.0	2,716.6	0.00	0.00	
10,300.0	90.00	0.00	7,350.0	2,816.6	435.0	2,816.6	0.00	0.00	
10,400.0	90.00	0.00	7,350.0	2,916.6	435.0	2,916.6	0.00	0.00	
10,500.0	90.00	0.00	7,350.0	3,016.6	435.0	3,016.6	0.00	0.00	
10,600.0	90.00	0.00	7,350.0	3,116.6	435.0	3,116.6	0.00	0.00	
10,700.0	90.00	0.00	7,350.0	3,216.6	435.0	3,216.6	0.00	0.00	
10,800.0	90.00	0.00	7,350.0	3,316.6	435.0	3,316.6	0.00	0.00	
10,900.0	90.00	0.00	7,350.0	3,416.6	435.0	3,416.6	0.00	0.00	
11,000.0	90.00	0.00	7,350.0	3,516.6	435.0	3,516.6	0.00	0.00	
11,100.0	90.00	0.00	7,350.0	3,616.6	435.0	3,616.6	0.00	0.00	
11,200.0	90.00	0.00	7,350.0	3,716.6	435.0	3,716.6	0.00	0.00	
11,300.0	90.00	0.00	7,350.0	3,816.6	435.0	3,816.6	0.00	0.00	
11,400.0	90.00	0.00	7,350.0	3,916.6	435.0	3,916.6	0.00	0.00	
11,500.0	90.00	0.00	7,350.0	4,016.6	435.0	4,016.6	0.00	0.00	
11,600.0	90.00	0.00	7,350.0	4,116.6	435.0	4,116.6	0.00	0.00	
11,700.0	90.00	0.00	7,350.0	4,216.6	435.0	4,216.6	0.00	0.00	
11,800.0	90.00	0.00	7,350.0	4,316.6	435.0	4,316.6	0.00	0.00	
11,892.7	90.00	0.00	7,350.0	4,409.3	435.0	4,409.3	0.00	0.00	TD at 11892.7

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 4H-35H-O367 PB - plan hits target center - Point	0.00	0.00	7,350.0	4,409.3	435.0	1,311,870.74	3,181,015.95	40.187659	-104.852103

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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			
4,136.2	4,121.0	Sussex			
4,427.6	4,411.0	Shannon			
4,729.1	4,711.0	Teepee Buttes (*if present)			
7,030.0	6,986.0	Sharon Springs			
7,136.0	7,074.0	Niobrara			
7,180.2	7,108.0	B Chalk			
7,225.6	7,141.0	B Marl			
7,269.6	7,171.0	C Chalk			
7,336.8	7,213.0	C Marl			
7,422.3	7,259.0	D Chalk			
7,535.1	7,306.0	Fort Hayes			
7,609.5	7,328.0	Codell			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
600.0	600.0	0.0	0.0	KOP @ 600'
1,162.3	1,161.4	-20.1	18.8	EOB; Inc=5.62°
6,611.4	6,584.3	-410.1	383.5	Start build/turn @ 6611' MD
7,787.7	7,350.0	304.3	435.0	LP @ 7350' TVD; 90°
11,892.7	7,350.0	4,409.3	435.0	TD at 11892.7

EnCana Oil & Gas (USA) Inc

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

Anticollision Report

16 May, 2014

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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** 5/16/2014

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,892.7	Plan #1 (Hz)	Geolink MWD	Geolink MWD

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	11,049.0	7,322.0	200.9	122.6	2.565	CC, ES, SF
KAWAKAMI 31-35 (EXISTING) - ENCANA WELL - SURV						Out of range
KAWAKAMI 32-35 (EXISTING) - ENCANA WELL - NO S						Out of range
KAWAKAMI 4-0-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 41-35 (EXISTING) - ENCANA WELL - NO S	11,892.7	7,313.0	434.1	341.3	4.676	CC, ES, SF
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO S	10,181.0	7,312.0	484.0	420.5	7.628	CC, ES
KAWAKAMI 42-35 (EXISTING) - ENCANA WELL - NO S	10,200.0	7,312.0	484.3	420.6	7.595	SF
KAWAKAMI 4-2-35 (EXISTING) - ENCANA WELL - SUR						Out of range
KAWAKAMI 6-0-35 (EXISTING) - ENCANA WELL - SUR	11,892.7	7,389.6	512.9	418.4	5.430	CC, ES, SF
KIYOTA 33-35 (EXISTING) - ENCANA WELL - NO SURV						Out of range
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,708.5	7,326.0	610.5	571.1	15.523	CC, ES
KIYOTA 3-35 (EXISTING) - ENCANA WELL - NO SURVE	8,900.0	7,326.0	639.8	597.5	15.123	SF
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	600.0	586.0	552.8	550.8	270.008	CC, ES
KIYOTA 34-35 (EXISTING) - ENCANA WELL - NO SURV	8,000.0	7,336.0	990.1	960.4	33.429	SF
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV	9,270.2	7,329.0	792.6	744.4	16.423	CC, ES
KIYOTA 43-35 (EXISTING) - ENCANA WELL - NO SURV	9,500.0	7,329.0	825.3	773.2	15.857	SF
KIYOTA 44-35 (EXISTING) - ENCANA WELL - NO SURV	7,641.5	7,310.2	199.2	172.7	7.522	CC, ES, SF
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - Plan #2						Out of range
KIYOTA 4-6-35 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Kiyota 4A-35H-O367 - Hz - Plan #1	200.0	200.0	52.5	51.9	80.482	CC, ES
Kiyota 4A-35H-O367 - Hz - Plan #1	800.0	792.6	84.2	81.5	30.684	SF
Kiyota 4B-35H-O367 - Hz - Plan #1	300.0	300.0	45.0	44.0	44.908	CC, ES
Kiyota 4B-35H-O367 - Hz - Plan #1	700.0	696.6	58.2	55.8	24.287	SF
Kiyota 4C-35H-O367 - Hz - Plan #1	400.0	400.0	37.4	36.1	27.719	CC, ES
Kiyota 4C-35H-O367 - Hz - Plan #1	700.0	698.1	44.6	42.2	18.614	SF
Kiyota 4D-35H-O367 - Hz - Plan #1	500.0	500.0	29.9	28.2	17.589	CC, ES
Kiyota 4D-35H-O367 - Hz - Plan #1	11,892.7	11,723.3	913.1	755.1	5.778	SF
Kiyota 4E-35H-O367 - Hz - Plan #1	600.0	600.0	22.4	20.3	10.911	CC, ES
Kiyota 4E-35H-O367 - Hz - Plan #1	11,892.7	11,867.7	675.5	515.4	4.218	SF
Kiyota 4F-35H-O367 - Hz - Plan #1	600.0	600.0	14.8	12.8	7.230	CC, ES
Kiyota 4F-35H-O367 - Hz - Plan #1	11,892.7	11,652.9	501.2	356.6	3.465	SF
Kiyota 4G-35H-O367 - Hz - Plan #1	600.0	600.0	7.6	5.5	3.686	CC, ES
Kiyota 4G-35H-O367 - Hz - Plan #1	11,892.7	11,727.2	270.6	135.9	2.009	SF
Kiyota 4I-35H-O367 - Hz - Plan #1	500.0	500.0	7.5	5.8	4.438	CC, ES
Kiyota 4I-35H-O367 - Hz - Plan #1	11,892.7	11,695.8	314.9	197.4	2.682	SF
Kiyota 4J-35H-O367 - Hz - Plan #1	400.0	400.0	15.1	13.7	11.170	CC, ES
Kiyota 4J-35H-O367 - Hz - Plan #1	11,800.0	11,685.3	465.2	316.2	3.123	SF
Kiyota 4K-35H-O367 - Hz - Plan #1	300.0	300.0	22.6	21.6	22.593	CC, ES
Kiyota 4K-35H-O367 - Hz - Plan #1	11,892.7	11,965.4	675.7	515.8	4.225	SF
Kiyota 4L-35H-O367 - Hz - Plan #1	200.0	200.0	30.2	29.5	46.233	CC, ES
Kiyota 4L-35H-O367 - Hz - Plan #1	11,892.7	11,786.9	927.7	772.2	5.964	SF
KIYOTA 6-8-35 (EXISTING) - ENCANA WELL - SURVEY	5,824.3	5,903.8	117.9	89.3	4.119	CC, ES, SF
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,528.9	7,318.0	474.7	422.2	9.041	CC, ES
KIYOTA C-35-320-E (EXISTING) - ENCANA WELL - NO	9,600.0	7,318.0	480.0	426.3	8.941	SF

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

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

Offset Site Error: 0.0 ft

Survey Program: 7882-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,100.0	7,350.0	7,322.0	7,322.0	49.9	12.8	-90.00	3,565.6	234.1	970.0	908.0	62.09	15.623	
10,200.0	7,350.0	7,322.0	7,322.0	51.6	12.8	-90.00	3,565.6	234.1	872.5	808.7	63.79	13.678	
10,300.0	7,350.0	7,322.0	7,322.0	53.3	12.8	-90.00	3,565.6	234.1	775.5	710.0	65.48	11.842	
10,400.0	7,350.0	7,322.0	7,322.0	54.9	12.8	-90.00	3,565.6	234.1	679.4	612.2	67.19	10.112	
10,500.0	7,350.0	7,322.0	7,322.0	56.6	12.8	-90.00	3,565.6	234.1	584.6	515.7	68.89	8.486	
10,600.0	7,350.0	7,322.0	7,322.0	58.3	12.8	-90.00	3,565.6	234.1	491.9	421.3	70.60	6.967	
10,700.0	7,350.0	7,322.0	7,322.0	60.0	12.8	-90.00	3,565.6	234.1	402.7	330.4	72.31	5.569	
10,800.0	7,350.0	7,322.0	7,322.0	61.7	12.8	-90.00	3,565.6	234.1	319.9	245.9	74.03	4.322	
10,900.0	7,350.0	7,322.0	7,322.0	63.4	12.8	-90.00	3,565.6	234.1	250.1	174.4	75.74	3.302	
11,000.0	7,350.0	7,322.0	7,322.0	65.1	12.8	-90.00	3,565.6	234.1	206.8	129.3	77.46	2.669	
11,049.0	7,350.0	7,322.0	7,322.0	66.0	12.8	-90.00	3,565.6	234.1	200.9	122.6	78.30	2.565	CC, ES, SF
11,100.0	7,350.0	7,322.0	7,322.0	66.8	12.8	-90.00	3,565.6	234.1	207.2	128.1	79.18	2.617	
11,200.0	7,350.0	7,322.0	7,322.0	68.5	12.8	-90.00	3,565.6	234.1	251.3	170.4	80.90	3.106	
11,300.0	7,350.0	7,322.0	7,322.0	70.3	12.8	-90.00	3,565.6	234.1	321.5	238.8	82.62	3.891	
11,400.0	7,350.0	7,322.0	7,322.0	72.0	12.8	-90.00	3,565.6	234.1	404.4	320.0	84.35	4.794	
11,500.0	7,350.0	7,322.0	7,322.0	73.7	12.8	-90.00	3,565.6	234.1	493.7	407.6	86.07	5.736	
11,600.0	7,350.0	7,322.0	7,322.0	75.4	12.8	-90.00	3,565.6	234.1	586.4	498.6	87.80	6.679	
11,700.0	7,350.0	7,322.0	7,322.0	77.1	12.8	-90.00	3,565.6	234.1	681.3	591.7	89.53	7.609	
11,800.0	7,350.0	7,322.0	7,322.0	78.8	12.8	-90.00	3,565.6	234.1	777.4	686.1	91.26	8.518	
11,892.7	7,350.0	7,322.0	7,322.0	80.4	12.8	-90.00	3,565.6	234.1	867.3	774.4	92.86	9.339	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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
11,100.0	7,350.0	7,313.0	7,313.0	66.8	12.8	90.00	4,424.2	868.9	916.8	837.7	79.16	11.582	
11,200.0	7,350.0	7,313.0	7,313.0	68.5	12.8	90.00	4,424.2	868.9	830.1	749.2	80.88	10.263	
11,300.0	7,350.0	7,313.0	7,313.0	70.3	12.8	90.00	4,424.2	868.9	746.7	664.1	82.61	9.039	
11,400.0	7,350.0	7,313.0	7,313.0	72.0	12.8	90.00	4,424.2	868.9	667.8	583.5	84.33	7.919	
11,500.0	7,350.0	7,313.0	7,313.0	73.7	12.8	90.00	4,424.2	868.9	595.3	509.3	86.06	6.918	
11,600.0	7,350.0	7,313.0	7,313.0	75.4	12.8	90.00	4,424.2	868.9	531.9	444.1	87.78	6.059	
11,700.0	7,350.0	7,313.0	7,313.0	77.1	12.8	90.00	4,424.2	868.9	481.0	391.5	89.51	5.374	
11,800.0	7,350.0	7,313.0	7,313.0	78.8	12.8	90.00	4,424.2	868.9	447.0	355.8	91.24	4.899	
11,892.7	7,350.0	7,313.0	7,313.0	80.4	12.8	90.00	4,424.2	868.9	434.1	341.3	92.85	4.676	CC, ES, SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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
9,400.0	7,350.0	7,312.0	7,312.0	38.4	12.8	90.00	2,697.5	919.0	918.8	868.4	50.36	18.243	
9,500.0	7,350.0	7,312.0	7,312.0	40.0	12.8	90.00	2,697.5	919.0	835.4	783.4	52.01	16.061	
9,600.0	7,350.0	7,312.0	7,312.0	41.6	12.8	90.00	2,697.5	919.0	756.1	702.4	53.68	14.087	
9,700.0	7,350.0	7,312.0	7,312.0	43.3	12.8	90.00	2,697.5	919.0	682.3	627.0	55.34	12.329	
9,800.0	7,350.0	7,312.0	7,312.0	44.9	12.8	90.00	2,697.5	919.0	615.9	558.9	57.02	10.802	
9,900.0	7,350.0	7,312.0	7,312.0	46.6	12.8	90.00	2,697.5	919.0	559.6	500.9	58.70	9.534	
10,000.0	7,350.0	7,312.0	7,312.0	48.2	12.8	90.00	2,697.5	919.0	516.7	456.3	60.38	8.557	
10,100.0	7,350.0	7,312.0	7,312.0	49.9	12.8	90.00	2,697.5	919.0	490.7	428.6	62.07	7.905	
10,181.0	7,350.0	7,312.0	7,312.0	51.3	12.8	90.00	2,697.5	919.0	484.0	420.5	63.45	7.628	CC, ES
10,200.0	7,350.0	7,312.0	7,312.0	51.6	12.8	90.00	2,697.5	919.0	484.3	420.6	63.77	7.595	SF
10,300.0	7,350.0	7,312.0	7,312.0	53.3	12.8	90.00	2,697.5	919.0	498.4	432.9	65.47	7.613	
10,400.0	7,350.0	7,312.0	7,312.0	54.9	12.8	90.00	2,697.5	919.0	531.2	464.0	67.17	7.909	
10,500.0	7,350.0	7,312.0	7,312.0	56.6	12.8	90.00	2,697.5	919.0	579.7	510.8	68.87	8.416	
10,600.0	7,350.0	7,312.0	7,312.0	58.3	12.8	90.00	2,697.5	919.0	640.2	569.6	70.58	9.070	
10,700.0	7,350.0	7,312.0	7,312.0	60.0	12.8	90.00	2,697.5	919.0	709.7	637.4	72.29	9.816	
10,800.0	7,350.0	7,312.0	7,312.0	61.7	12.8	90.00	2,697.5	919.0	785.8	711.8	74.01	10.617	
10,900.0	7,350.0	7,312.0	7,312.0	63.4	12.8	90.00	2,697.5	919.0	866.7	791.0	75.72	11.446	
11,000.0	7,350.0	7,312.0	7,312.0	65.1	12.8	90.00	2,697.5	919.0	951.3	873.9	77.44	12.285	

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

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

Offset Site Error: 0.0 ft

Survey Program: 528-Geolink MWD

Offset Well Error: 0.0 ft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,400.0	7,350.0	7,388.6	7,323.3	72.0	19.5	-88.47	4,821.9	130.4	955.2	869.3	85.93	11.116	
11,500.0	7,350.0	7,388.8	7,323.5	73.7	19.5	-88.51	4,821.9	130.4	861.0	773.4	87.65	9.823	
11,600.0	7,350.0	7,389.0	7,323.7	75.4	19.5	-88.55	4,821.9	130.4	768.3	678.9	89.38	8.596	
11,700.0	7,350.0	7,389.2	7,323.9	77.1	19.5	-88.58	4,821.9	130.4	677.7	586.6	91.11	7.438	
11,800.0	7,350.0	7,389.4	7,324.1	78.8	19.5	-88.62	4,821.9	130.4	590.1	497.2	92.84	6.356	
11,892.7	7,350.0	7,389.6	7,324.3	80.4	19.5	-88.65	4,821.9	130.4	512.9	418.4	94.45	5.430	CC, ES, SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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
8,000.0	7,350.0	7,326.0	7,326.0	18.5	12.8	-90.00	1,225.1	-175.5	935.2	905.6	29.60	31.596	
8,100.0	7,350.0	7,326.0	7,326.0	19.5	12.8	-90.00	1,225.1	-175.5	862.0	831.2	30.77	28.011	
8,200.0	7,350.0	7,326.0	7,326.0	20.7	12.8	-90.00	1,225.1	-175.5	794.5	762.5	32.03	24.803	
8,300.0	7,350.0	7,326.0	7,326.0	22.0	12.8	-90.00	1,225.1	-175.5	734.5	701.2	33.37	22.014	
8,400.0	7,350.0	7,326.0	7,326.0	23.3	12.8	-90.00	1,225.1	-175.5	684.0	649.2	34.76	19.678	
8,500.0	7,350.0	7,326.0	7,326.0	24.6	12.8	-90.00	1,225.1	-175.5	645.1	608.9	36.20	17.820	
8,600.0	7,350.0	7,326.0	7,326.0	26.0	12.8	-90.00	1,225.1	-175.5	620.0	582.4	37.68	16.455	
8,700.0	7,350.0	7,326.0	7,326.0	27.5	12.8	-90.00	1,225.1	-175.5	610.5	571.3	39.20	15.576	
8,708.5	7,350.0	7,326.0	7,326.0	27.6	12.8	-90.00	1,225.1	-175.5	610.5	571.1	39.33	15.523	CC, ES
8,800.0	7,350.0	7,326.0	7,326.0	29.0	12.8	-90.00	1,225.1	-175.5	617.3	576.6	40.74	15.152	
8,900.0	7,350.0	7,326.0	7,326.0	30.5	12.8	-90.00	1,225.1	-175.5	639.8	597.5	42.31	15.123	SF
9,000.0	7,350.0	7,326.0	7,326.0	32.0	12.8	-90.00	1,225.1	-175.5	676.5	632.6	43.89	15.413	
9,100.0	7,350.0	7,326.0	7,326.0	33.6	12.8	-90.00	1,225.1	-175.5	725.2	679.7	45.50	15.940	
9,200.0	7,350.0	7,326.0	7,326.0	35.2	12.8	-90.00	1,225.1	-175.5	783.7	736.6	47.11	16.635	
9,300.0	7,350.0	7,326.0	7,326.0	36.8	12.8	-90.00	1,225.1	-175.5	850.0	801.3	48.75	17.438	
9,400.0	7,350.0	7,326.0	7,326.0	38.4	12.8	-90.00	1,225.1	-175.5	922.4	872.0	50.39	18.306	
9,500.0	7,350.0	7,326.0	7,326.0	40.0	12.8	-90.00	1,225.1	-175.5	999.6	947.5	52.04	19.208	

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 4H-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 4H-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	-66.92	216.7	-508.6	553.0				
100.0	100.0	86.0	86.0	0.2	0.2	-66.92	216.7	-508.6	552.8	552.5	0.30	1,829.806	
200.0	200.0	186.0	186.0	0.3	0.3	-66.92	216.7	-508.6	552.8	552.2	0.65	848.953	
300.0	300.0	286.0	286.0	0.5	0.5	-66.92	216.7	-508.6	552.8	551.8	1.00	552.688	
400.0	400.0	386.0	386.0	0.7	0.7	-66.92	216.7	-508.6	552.8	551.5	1.35	409.710	
500.0	500.0	486.0	486.0	0.8	0.8	-66.92	216.7	-508.6	552.8	551.1	1.70	325.503	
600.0	600.0	586.0	586.0	1.0	1.0	-66.92	216.7	-508.6	552.8	550.8	2.05	270.008	CC, ES
700.0	700.0	686.0	686.0	1.2	1.2	156.20	216.7	-508.6	553.6	551.2	2.40	231.027	
800.0	800.0	785.9	785.9	1.4	1.4	156.30	216.7	-508.6	556.0	553.3	2.75	202.547	
900.0	899.9	885.9	885.9	1.6	1.5	156.46	216.7	-508.6	560.0	556.9	3.09	180.998	
1,000.0	999.7	985.7	985.7	1.7	1.7	156.69	216.7	-508.6	565.6	562.2	3.44	164.261	
1,100.0	1,099.4	1,085.4	1,085.4	2.0	1.9	156.97	216.7	-508.6	572.8	569.0	3.79	151.004	
1,200.0	1,198.9	1,184.9	1,184.9	2.2	2.1	157.31	216.7	-508.6	581.6	577.4	4.15	140.291	
1,300.0	1,298.4	1,284.4	1,284.4	2.4	2.2	157.68	216.7	-508.6	590.6	586.1	4.50	131.256	
1,400.0	1,398.0	1,383.9	1,383.9	2.6	2.4	158.03	216.7	-508.6	599.7	594.8	4.85	123.536	
1,500.0	1,497.5	1,483.5	1,483.5	2.8	2.6	158.38	216.7	-508.6	608.8	603.6	5.21	116.869	
1,600.0	1,597.0	1,583.0	1,583.0	3.1	2.8	158.71	216.7	-508.6	617.9	612.4	5.56	111.056	
1,700.0	1,696.5	1,682.5	1,682.5	3.3	2.9	159.04	216.7	-508.6	627.1	621.2	5.92	105.945	
1,800.0	1,796.0	1,782.0	1,782.0	3.5	3.1	159.35	216.7	-508.6	636.2	630.0	6.27	101.417	
1,900.0	1,895.5	1,881.5	1,881.5	3.8	3.3	159.66	216.7	-508.6	645.4	638.8	6.63	97.379	
2,000.0	1,995.1	1,981.1	1,981.1	4.0	3.5	159.96	216.7	-508.6	654.6	647.6	6.98	93.756	
2,100.0	2,094.6	2,080.6	2,080.6	4.2	3.6	160.25	216.7	-508.6	663.8	656.5	7.34	90.488	
2,200.0	2,194.1	2,180.1	2,180.1	4.5	3.8	160.53	216.7	-508.6	673.1	665.4	7.69	87.526	
2,300.0	2,293.6	2,279.6	2,279.6	4.7	4.0	160.80	216.7	-508.6	682.3	674.3	8.04	84.828	
2,400.0	2,393.1	2,379.1	2,379.1	5.0	4.2	161.07	216.7	-508.6	691.6	683.2	8.40	82.362	
2,500.0	2,492.7	2,478.7	2,478.7	5.2	4.3	161.33	216.7	-508.6	700.9	692.1	8.75	80.099	
2,600.0	2,592.2	2,578.2	2,578.2	5.4	4.5	161.58	216.7	-508.6	710.2	701.1	9.10	78.015	
2,700.0	2,691.7	2,677.7	2,677.7	5.7	4.7	161.83	216.7	-508.6	719.5	710.0	9.46	76.090	
2,800.0	2,791.2	2,777.2	2,777.2	5.9	4.8	162.07	216.7	-508.6	728.8	719.0	9.81	74.306	
2,900.0	2,890.7	2,876.7	2,876.7	6.2	5.0	162.30	216.7	-508.6	738.1	728.0	10.16	72.649	
3,000.0	2,990.3	2,976.2	2,976.2	6.4	5.2	162.53	216.7	-508.6	747.5	737.0	10.51	71.105	
3,100.0	3,089.8	3,075.8	3,075.8	6.6	5.4	162.75	216.7	-508.6	756.8	746.0	10.86	69.664	
3,200.0	3,189.3	3,175.3	3,175.3	6.9	5.5	162.97	216.7	-508.6	766.2	755.0	11.22	68.315	
3,300.0	3,288.8	3,274.8	3,274.8	7.1	5.7	163.18	216.7	-508.6	775.6	764.0	11.57	67.051	
3,400.0	3,388.3	3,374.3	3,374.3	7.4	5.9	163.39	216.7	-508.6	785.0	773.0	11.92	65.862	
3,500.0	3,487.9	3,473.8	3,473.8	7.6	6.1	163.59	216.7	-508.6	794.4	782.1	12.27	64.744	
3,600.0	3,587.4	3,573.4	3,573.4	7.9	6.2	163.79	216.7	-508.6	803.8	791.1	12.62	63.689	
3,700.0	3,686.9	3,672.9	3,672.9	8.1	6.4	163.98	216.7	-508.6	813.2	800.2	12.97	62.693	
3,800.0	3,786.4	3,772.4	3,772.4	8.3	6.6	164.17	216.7	-508.6	822.6	809.3	13.32	61.751	
3,900.0	3,885.9	3,871.9	3,871.9	8.6	6.8	164.35	216.7	-508.6	832.0	818.4	13.67	60.858	
4,000.0	3,985.4	3,971.4	3,971.4	8.8	6.9	164.53	216.7	-508.6	841.5	827.5	14.02	60.011	
4,100.0	4,085.0	4,071.0	4,071.0	9.1	7.1	164.71	216.7	-508.6	850.9	836.6	14.37	59.206	
4,200.0	4,184.5	4,170.5	4,170.5	9.3	7.3	164.88	216.7	-508.6	860.4	845.7	14.72	58.441	
4,300.0	4,284.0	4,270.0	4,270.0	9.6	7.5	165.05	216.7	-508.6	869.9	854.8	15.07	57.712	
4,400.0	4,383.5	4,369.5	4,369.5	9.8	7.6	165.21	216.7	-508.6	879.3	863.9	15.42	57.018	
4,500.0	4,483.0	4,469.0	4,469.0	10.0	7.8	165.38	216.7	-508.6	888.8	873.0	15.77	56.354	
4,600.0	4,582.6	4,568.5	4,568.5	10.3	8.0	165.53	216.7	-508.6	898.3	882.2	16.12	55.721	
4,700.0	4,682.1	4,668.1	4,668.1	10.5	8.1	165.69	216.7	-508.6	907.8	891.3	16.47	55.115	
4,800.0	4,781.6	4,767.6	4,767.6	10.8	8.3	165.84	216.7	-508.6	917.3	900.5	16.82	54.535	
4,900.0	4,881.1	4,867.1	4,867.1	11.0	8.5	165.99	216.7	-508.6	926.8	909.6	17.17	53.979	
5,000.0	4,980.6	4,966.6	4,966.6	11.3	8.7	166.13	216.7	-508.6	936.3	918.8	17.52	53.446	
5,100.0	5,080.2	5,066.1	5,066.1	11.5	8.8	166.27	216.7	-508.6	945.8	928.0	17.87	52.934	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	5,179.7	5,165.7	5,165.7	11.7	9.0	166.41	216.7	-508.6	955.3	937.1	18.22	52.443	
5,300.0	5,279.2	5,265.2	5,265.2	12.0	9.2	166.55	216.7	-508.6	964.9	946.3	18.57	51.970	
5,400.0	5,378.7	5,364.7	5,364.7	12.2	9.4	166.68	216.7	-508.6	974.4	955.5	18.91	51.516	
5,500.0	5,478.2	5,464.2	5,464.2	12.5	9.5	166.82	216.7	-508.6	983.9	964.7	19.26	51.078	
5,600.0	5,577.7	5,563.7	5,563.7	12.7	9.7	166.94	216.7	-508.6	993.5	973.9	19.61	50.657	
7,400.0	7,247.8	7,233.8	7,233.8	15.0	12.6	-82.47	216.7	-508.6	978.1	952.7	25.35	38.589	
7,500.0	7,293.1	7,279.1	7,279.1	15.1	12.7	-86.09	216.7	-508.6	959.3	933.5	25.75	37.247	
7,600.0	7,325.6	7,311.6	7,311.6	15.5	12.8	-88.73	216.7	-508.6	947.0	920.8	26.24	36.091	
7,691.3	7,343.6	7,329.5	7,329.5	15.9	12.8	-90.00	216.7	-508.6	943.2	916.4	26.81	35.186	
7,700.0	7,344.7	7,330.7	7,330.7	16.0	12.8	-90.06	216.7	-508.6	943.2	916.3	26.86	35.120	
7,800.0	7,350.0	7,336.0	7,336.0	16.7	12.8	-90.00	216.7	-508.6	948.8	921.2	27.62	34.352	
7,900.0	7,350.0	7,336.0	7,336.0	17.5	12.8	-90.00	216.7	-508.6	964.5	935.9	28.55	33.779	
8,000.0	7,350.0	7,336.0	7,336.0	18.5	12.8	-90.00	216.7	-508.6	990.1	960.4	29.62	33.429	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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
8,700.0	7,350.0	7,329.0	7,329.0	27.5	12.8	-90.00	1,786.8	-357.6	976.5	937.2	39.20	24.908	
8,800.0	7,350.0	7,329.0	7,329.0	29.0	12.8	-90.00	1,786.8	-357.6	921.6	880.9	40.74	22.620	
8,900.0	7,350.0	7,329.0	7,329.0	30.5	12.8	-90.00	1,786.8	-357.6	874.9	832.5	42.31	20.677	
9,000.0	7,350.0	7,329.0	7,329.0	32.0	12.8	-90.00	1,786.8	-357.6	837.4	793.5	43.90	19.077	
9,100.0	7,350.0	7,329.0	7,329.0	33.6	12.8	-90.00	1,786.8	-357.6	810.7	765.2	45.50	17.818	
9,200.0	7,350.0	7,329.0	7,329.0	35.2	12.8	-90.00	1,786.8	-357.6	795.8	748.6	47.12	16.888	
9,270.2	7,350.0	7,329.0	7,329.0	36.3	12.8	-90.00	1,786.8	-357.6	792.6	744.4	48.27	16.423	CC, ES
9,300.0	7,350.0	7,329.0	7,329.0	36.8	12.8	-90.00	1,786.8	-357.6	793.2	744.5	48.75	16.271	
9,400.0	7,350.0	7,329.0	7,329.0	38.4	12.8	-90.00	1,786.8	-357.6	803.2	752.8	50.39	15.939	
9,500.0	7,350.0	7,329.0	7,329.0	40.0	12.8	-90.00	1,786.8	-357.6	825.3	773.2	52.04	15.857	SF
9,600.0	7,350.0	7,329.0	7,329.0	41.6	12.8	-90.00	1,786.8	-357.6	858.5	804.8	53.70	15.986	
9,700.0	7,350.0	7,329.0	7,329.0	43.3	12.8	-90.00	1,786.8	-357.6	901.7	846.3	55.37	16.284	
9,800.0	7,350.0	7,329.0	7,329.0	44.9	12.8	-90.00	1,786.8	-357.6	953.4	896.3	57.05	16.712	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	76.14	156.3	633.2	652.7				
100.0	100.0	75.0	75.0	0.2	0.1	76.14	156.3	633.2	652.2	651.9	0.28	2,305.180	
200.0	200.0	175.0	175.0	0.3	0.3	76.14	156.3	633.2	652.2	651.6	0.63	1,031.969	
300.0	300.0	275.0	275.0	0.5	0.5	76.14	156.3	633.2	652.2	651.2	0.98	664.789	
400.0	400.0	375.0	375.0	0.7	0.7	76.14	156.3	633.2	652.2	650.9	1.33	490.328	
500.0	500.0	475.0	475.0	0.8	0.8	76.14	156.3	633.2	652.2	650.5	1.68	388.400	
600.0	600.0	575.0	575.0	1.0	1.0	76.14	156.3	633.2	652.2	650.2	2.03	321.555	
700.0	700.0	675.0	675.0	1.2	1.2	-60.85	156.3	633.2	651.8	649.4	2.38	274.135	
800.0	800.0	774.9	774.9	1.4	1.4	-61.07	156.3	633.2	650.5	647.8	2.73	238.418	
900.0	899.9	874.9	874.9	1.6	1.5	-61.42	156.3	633.2	648.4	645.3	3.08	210.317	
1,000.0	999.7	974.7	974.7	1.7	1.7	-61.92	156.3	633.2	645.5	642.1	3.44	187.439	
1,100.0	1,099.4	1,074.4	1,074.4	2.0	1.9	-62.57	156.3	633.2	641.8	638.0	3.81	168.296	
1,200.0	1,198.9	1,173.9	1,173.9	2.2	2.0	-63.35	156.3	633.2	637.5	633.3	4.19	152.025	
1,300.0	1,298.4	1,273.4	1,273.4	2.4	2.2	-64.14	156.3	633.2	633.2	628.6	4.58	138.261	
1,400.0	1,398.0	1,372.9	1,372.9	2.6	2.4	-64.94	156.3	633.2	628.9	624.0	4.97	126.541	
1,500.0	1,497.5	1,472.5	1,472.5	2.8	2.6	-65.75	156.3	633.2	624.8	619.5	5.36	116.467	
1,600.0	1,597.0	1,572.0	1,572.0	3.1	2.7	-66.57	156.3	633.2	620.9	615.1	5.76	107.733	
1,700.0	1,696.5	1,671.5	1,671.5	3.3	2.9	-67.40	156.3	633.2	617.0	610.8	6.16	100.101	
1,800.0	1,796.0	1,771.0	1,771.0	3.5	3.1	-68.24	156.3	633.2	613.3	606.7	6.57	93.385	
1,900.0	1,895.5	1,870.5	1,870.5	3.8	3.3	-69.09	156.3	633.2	609.7	602.7	6.97	87.436	
2,000.0	1,995.1	1,970.1	1,970.1	4.0	3.4	-69.95	156.3	633.2	606.3	598.9	7.38	82.138	
2,100.0	2,094.6	2,069.6	2,069.6	4.2	3.6	-70.82	156.3	633.2	603.0	595.2	7.79	77.394	
2,200.0	2,194.1	2,169.1	2,169.1	4.5	3.8	-71.70	156.3	633.2	599.8	591.6	8.20	73.127	
2,300.0	2,293.6	2,268.6	2,268.6	4.7	4.0	-72.59	156.3	633.2	596.8	588.2	8.62	69.272	
2,400.0	2,393.1	2,368.1	2,368.1	5.0	4.1	-73.49	156.3	633.2	593.9	584.9	9.03	65.775	
2,500.0	2,492.7	2,467.7	2,467.7	5.2	4.3	-74.40	156.3	633.2	591.2	581.8	9.45	62.593	
2,600.0	2,592.2	2,567.2	2,567.2	5.4	4.5	-75.31	156.3	633.2	588.6	578.8	9.86	59.688	
2,700.0	2,691.7	2,666.7	2,666.7	5.7	4.7	-76.23	156.3	633.2	586.2	575.9	10.28	57.028	
2,800.0	2,791.2	2,766.2	2,766.2	5.9	4.8	-77.16	156.3	633.2	583.9	573.2	10.70	54.586	
2,900.0	2,890.7	2,865.7	2,865.7	6.2	5.0	-78.10	156.3	633.2	581.8	570.7	11.12	52.339	
3,000.0	2,990.3	2,965.2	2,965.2	6.4	5.2	-79.04	156.3	633.2	579.9	568.3	11.54	50.266	
3,100.0	3,089.8	3,064.8	3,064.8	6.6	5.3	-79.99	156.3	633.2	578.1	566.1	11.96	48.350	
3,200.0	3,189.3	3,164.3	3,164.3	6.9	5.5	-80.95	156.3	633.2	576.5	564.1	12.38	46.576	
3,300.0	3,288.8	3,263.8	3,263.8	7.1	5.7	-81.91	156.3	633.2	575.0	562.2	12.80	44.930	
3,400.0	3,388.3	3,363.3	3,363.3	7.4	5.9	-82.87	156.3	633.2	573.7	560.5	13.22	43.402	
3,500.0	3,487.9	3,462.8	3,462.8	7.6	6.0	-83.84	156.3	633.2	572.6	558.9	13.64	41.980	
3,600.0	3,587.4	3,562.4	3,562.4	7.9	6.2	-84.81	156.3	633.2	571.6	557.5	14.06	40.655	
3,700.0	3,686.9	3,661.9	3,661.9	8.1	6.4	-85.79	156.3	633.2	570.8	556.3	14.48	39.420	
3,800.0	3,786.4	3,761.4	3,761.4	8.3	6.6	-86.76	156.3	633.2	570.1	555.2	14.90	38.267	
3,900.0	3,885.9	3,860.9	3,860.9	8.6	6.7	-87.74	156.3	633.2	569.7	554.3	15.32	37.189	
4,000.0	3,985.4	3,960.4	3,960.4	8.8	6.9	-88.72	156.3	633.2	569.4	553.6	15.74	36.181	
4,100.0	4,085.0	4,060.0	4,060.0	9.1	7.1	-89.70	156.3	633.2	569.2	553.1	16.15	35.238	
4,130.2	4,115.0	4,090.0	4,090.0	9.1	7.1	-90.00	156.3	633.2	569.2	552.9	16.28	34.965	
4,200.0	4,184.5	4,159.5	4,159.5	9.3	7.3	-90.69	156.3	633.2	569.3	552.7	16.57	34.354	
4,300.0	4,284.0	4,259.0	4,259.0	9.6	7.4	-91.67	156.3	633.2	569.5	552.5	16.99	33.525	
4,400.0	4,383.5	4,358.5	4,358.5	9.8	7.6	-92.65	156.3	633.2	569.8	552.4	17.40	32.748	
4,500.0	4,483.0	4,458.0	4,458.0	10.0	7.8	-93.63	156.3	633.2	570.4	552.6	17.81	32.018	
4,600.0	4,582.6	4,557.5	4,557.5	10.3	8.0	-94.60	156.3	633.2	571.1	552.8	18.23	31.334	
4,700.0	4,682.1	4,657.1	4,657.1	10.5	8.1	-95.58	156.3	633.2	571.9	553.3	18.64	30.690	
4,800.0	4,781.6	4,756.6	4,756.6	10.8	8.3	-96.55	156.3	633.2	573.0	553.9	19.04	30.086	
4,900.0	4,881.1	4,856.1	4,856.1	11.0	8.5	-97.51	156.3	633.2	574.2	554.7	19.45	29.518	
5,000.0	4,980.6	4,955.6	4,955.6	11.3	8.6	-98.47	156.3	633.2	575.6	555.7	19.86	28.984	

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 4H-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 4H-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
5,100.0	5,080.2	5,055.1	5,055.1	11.5	8.8	-99.43	156.3	633.2	577.1	556.8	20.26	28.482	
5,200.0	5,179.7	5,154.7	5,154.7	11.7	9.0	-100.38	156.3	633.2	578.8	558.1	20.66	28.009	
5,300.0	5,279.2	5,254.2	5,254.2	12.0	9.2	-101.33	156.3	633.2	580.6	559.6	21.06	27.565	
5,400.0	5,378.7	5,353.7	5,353.7	12.2	9.3	-102.27	156.3	633.2	582.7	561.2	21.46	27.147	
5,500.0	5,478.2	5,453.2	5,453.2	12.5	9.5	-103.21	156.3	633.2	584.8	563.0	21.86	26.754	
5,600.0	5,577.7	5,552.7	5,552.7	12.7	9.7	-104.13	156.3	633.2	587.1	564.9	22.25	26.385	
5,700.0	5,677.3	5,652.3	5,652.3	13.0	9.9	-105.05	156.3	633.2	589.6	567.0	22.65	26.037	
5,800.0	5,776.8	5,751.8	5,751.8	13.2	10.0	-105.96	156.3	633.2	592.3	569.2	23.04	25.710	
5,900.0	5,876.3	5,851.3	5,851.3	13.5	10.2	-106.87	156.3	633.2	595.0	571.6	23.42	25.402	
6,000.0	5,975.8	5,950.8	5,950.8	13.7	10.4	-107.76	156.3	633.2	598.0	574.2	23.81	25.113	
6,100.0	6,075.3	6,050.3	6,050.3	13.9	10.6	-108.65	156.3	633.2	601.0	576.8	24.20	24.841	
6,200.0	6,174.9	6,149.8	6,149.8	14.2	10.7	-109.52	156.3	633.2	604.3	579.7	24.58	24.585	
6,300.0	6,274.4	6,249.4	6,249.4	14.4	10.9	-110.39	156.3	633.2	607.6	582.7	24.96	24.345	
6,400.0	6,373.9	6,348.9	6,348.9	14.7	11.1	-111.25	156.3	633.2	611.1	585.8	25.34	24.120	
6,500.0	6,473.4	6,448.4	6,448.4	14.9	11.3	-112.09	156.3	633.2	614.7	589.0	25.71	23.908	
6,600.0	6,572.9	6,547.9	6,547.9	15.2	11.4	-112.93	156.3	633.2	618.5	592.4	26.09	23.709	
6,700.0	6,672.6	6,647.6	6,647.6	15.3	11.6	-29.00	156.3	633.2	617.4	591.0	26.35	23.426	
6,800.0	6,771.6	6,746.6	6,746.6	15.4	11.8	4.14	156.3	633.2	603.6	577.3	26.30	22.949	
6,900.0	6,867.9	6,842.9	6,842.9	15.4	11.9	13.23	156.3	633.2	577.3	551.4	25.94	22.259	
7,000.0	6,959.7	6,934.6	6,934.6	15.3	12.1	19.08	156.3	633.2	539.2	513.9	25.30	21.308	
7,100.0	7,045.1	7,020.1	7,020.1	15.1	12.3	25.17	156.3	633.2	490.3	465.8	24.51	20.000	
7,200.0	7,122.6	7,097.6	7,097.6	15.0	12.4	33.13	156.3	633.2	432.3	408.5	23.80	18.165	
7,300.0	7,190.6	7,165.6	7,165.6	14.9	12.5	44.27	156.3	633.2	367.9	344.4	23.58	15.605	
7,400.0	7,247.8	7,222.8	7,222.8	15.0	12.6	58.99	156.3	633.2	301.5	277.3	24.23	12.445	
7,500.0	7,293.1	7,268.1	7,268.1	15.1	12.7	74.83	156.3	633.2	241.3	216.0	25.37	9.512	
7,600.0	7,325.6	7,300.6	7,300.6	15.5	12.7	86.94	156.3	633.2	203.3	177.1	26.21	7.758	
7,641.5	7,335.2	7,310.2	7,310.2	15.7	12.8	90.00	156.3	633.2	199.2	172.7	26.48	7.522	CC, ES, SF
7,700.0	7,344.7	7,319.7	7,319.7	16.0	12.8	92.06	156.3	633.2	207.6	180.7	26.82	7.739	
7,800.0	7,350.0	7,325.0	7,325.0	16.7	12.8	90.00	156.3	633.2	254.9	227.3	27.60	9.235	
7,900.0	7,350.0	7,325.0	7,325.0	17.5	12.8	90.00	156.3	633.2	327.2	298.6	28.53	11.466	
8,000.0	7,350.0	7,325.0	7,325.0	18.5	12.8	90.00	156.3	633.2	411.2	381.6	29.60	13.893	
8,100.0	7,350.0	7,325.0	7,325.0	19.5	12.8	90.00	156.3	633.2	501.1	470.4	30.77	16.287	
8,200.0	7,350.0	7,325.0	7,325.0	20.7	12.8	90.00	156.3	633.2	594.3	562.3	32.03	18.554	
8,300.0	7,350.0	7,325.0	7,325.0	22.0	12.8	90.00	156.3	633.2	689.4	656.0	33.36	20.662	
8,400.0	7,350.0	7,325.0	7,325.0	23.3	12.8	90.00	156.3	633.2	785.7	750.9	34.76	22.605	
8,500.0	7,350.0	7,325.0	7,325.0	24.6	12.8	90.00	156.3	633.2	882.8	846.6	36.20	24.388	
8,600.0	7,350.0	7,325.0	7,325.0	26.0	12.8	90.00	156.3	633.2	980.5	942.8	37.68	26.022	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-89.60	0.4	-52.5	52.5				
100.0	100.0	100.0	100.0	0.2	0.2	-89.60	0.4	-52.5	52.5	52.2	0.30	172.989	
200.0	200.0	200.0	200.0	0.3	0.3	-89.60	0.4	-52.5	52.5	51.9	0.65	80.482	CC, ES
300.0	300.0	299.1	299.1	0.5	0.5	-89.95	0.1	-53.3	53.3	52.3	1.00	53.281	
400.0	400.0	398.2	398.2	0.7	0.7	-90.92	-0.9	-55.7	55.8	54.4	1.35	41.222	
500.0	500.0	497.2	497.1	0.8	0.9	-92.36	-2.5	-59.7	59.8	58.1	1.71	34.986	
600.0	600.0	596.0	595.7	1.0	1.1	-94.07	-4.6	-65.3	65.6	63.5	2.08	31.599	
700.0	700.0	694.5	693.9	1.2	1.3	127.68	-7.4	-72.4	73.5	71.1	2.39	30.709	
800.0	800.0	792.6	791.6	1.4	1.5	127.22	-10.9	-81.0	84.2	81.5	2.75	30.684	SF
900.0	899.9	890.3	888.6	1.6	1.7	127.37	-14.8	-91.2	97.6	94.5	3.10	31.490	
1,000.0	999.7	987.2	984.8	1.7	2.0	127.90	-19.4	-102.8	113.7	110.2	3.46	32.843	
1,100.0	1,099.4	1,083.5	1,080.0	2.0	2.3	128.63	-24.5	-115.8	132.4	128.6	3.83	34.560	
1,200.0	1,198.9	1,178.9	1,174.1	2.2	2.6	129.46	-30.2	-130.2	153.7	149.5	4.21	36.503	
1,300.0	1,298.4	1,275.1	1,268.8	2.4	2.9	130.11	-36.4	-145.9	176.6	172.0	4.60	38.387	
1,400.0	1,398.0	1,372.4	1,364.6	2.6	3.3	130.60	-42.7	-162.0	199.6	194.6	4.99	39.960	
1,500.0	1,497.5	1,469.7	1,460.3	2.8	3.6	130.99	-49.0	-178.0	222.6	217.2	5.39	41.279	
1,600.0	1,597.0	1,567.0	1,556.1	3.1	3.9	131.30	-55.4	-194.1	245.7	239.9	5.80	42.398	
1,700.0	1,696.5	1,664.3	1,651.8	3.3	4.3	131.57	-61.7	-210.2	268.8	262.6	6.20	43.358	
1,800.0	1,796.0	1,761.6	1,747.6	3.5	4.6	131.79	-68.0	-226.3	291.8	285.2	6.60	44.190	
1,900.0	1,895.5	1,858.9	1,843.3	3.8	4.9	131.98	-74.4	-242.3	314.9	307.9	7.01	44.916	
2,000.0	1,995.1	1,956.2	1,939.1	4.0	5.3	132.14	-80.7	-258.4	338.0	330.6	7.42	45.556	
2,100.0	2,094.6	2,053.4	2,034.8	4.2	5.6	132.28	-87.0	-274.5	361.0	353.2	7.83	46.123	
2,200.0	2,194.1	2,150.7	2,130.6	4.5	6.0	132.41	-93.3	-290.6	384.1	375.9	8.24	46.630	
2,300.0	2,293.6	2,248.0	2,226.3	4.7	6.3	132.52	-99.7	-306.6	407.2	398.6	8.65	47.084	
2,400.0	2,393.1	2,345.3	2,322.1	5.0	6.7	132.62	-106.0	-322.7	430.3	421.2	9.06	47.494	
2,500.0	2,492.7	2,442.6	2,417.8	5.2	7.0	132.71	-112.3	-338.8	453.4	443.9	9.47	47.866	
2,600.0	2,592.2	2,539.9	2,513.6	5.4	7.4	132.79	-118.7	-354.9	476.4	466.6	9.88	48.205	
2,700.0	2,691.7	2,637.2	2,609.3	5.7	7.7	132.86	-125.0	-370.9	499.5	489.2	10.30	48.514	
2,800.0	2,791.2	2,734.5	2,705.1	5.9	8.1	132.92	-131.3	-387.0	522.6	511.9	10.71	48.798	
2,900.0	2,890.7	2,831.8	2,800.8	6.2	8.4	132.99	-137.6	-403.1	545.7	534.6	11.12	49.059	
3,000.0	2,990.3	2,929.1	2,896.6	6.4	8.7	133.04	-144.0	-419.1	568.8	557.2	11.54	49.301	
3,100.0	3,089.8	3,026.4	2,992.3	6.6	9.1	133.09	-150.3	-435.2	591.9	579.9	11.95	49.524	
3,200.0	3,189.3	3,123.7	3,088.1	6.9	9.4	133.14	-156.6	-451.3	615.0	602.6	12.37	49.732	
3,300.0	3,288.8	3,221.0	3,183.8	7.1	9.8	133.18	-163.0	-467.4	638.0	625.3	12.78	49.925	
3,400.0	3,388.3	3,318.3	3,279.6	7.4	10.1	133.23	-169.3	-483.4	661.1	647.9	13.19	50.106	
3,500.0	3,487.9	3,415.6	3,375.4	7.6	10.5	133.26	-175.6	-499.5	684.2	670.6	13.61	50.275	
3,600.0	3,587.4	3,512.9	3,471.1	7.9	10.8	133.30	-181.9	-515.6	707.3	693.3	14.02	50.433	
3,700.0	3,686.9	3,610.2	3,566.9	8.1	11.2	133.33	-188.3	-531.7	730.4	715.9	14.44	50.582	
3,800.0	3,786.4	3,707.5	3,662.6	8.3	11.5	133.36	-194.6	-547.7	753.5	738.6	14.86	50.722	
3,900.0	3,885.9	3,804.8	3,758.4	8.6	11.9	133.39	-200.9	-563.8	776.6	761.3	15.27	50.854	
4,000.0	3,985.4	3,902.1	3,854.1	8.8	12.2	133.42	-207.3	-579.9	799.6	784.0	15.69	50.978	
4,100.0	4,085.0	3,999.4	3,949.9	9.1	12.6	133.45	-213.6	-596.0	822.7	806.6	16.10	51.096	
4,200.0	4,184.5	4,096.7	4,045.6	9.3	12.9	133.47	-219.9	-612.0	845.8	829.3	16.52	51.207	
4,300.0	4,284.0	4,194.0	4,141.4	9.6	13.3	133.50	-226.2	-628.1	868.9	852.0	16.93	51.313	
4,400.0	4,383.5	4,291.3	4,237.1	9.8	13.6	133.52	-232.6	-644.2	892.0	874.7	17.35	51.414	
4,500.0	4,483.0	4,388.6	4,332.9	10.0	14.0	133.54	-238.9	-660.3	915.1	897.3	17.77	51.509	
4,600.0	4,582.6	4,485.9	4,428.6	10.3	14.3	133.56	-245.2	-676.3	938.2	920.0	18.18	51.600	
4,700.0	4,682.1	4,583.2	4,524.4	10.5	14.7	133.58	-251.6	-692.4	961.3	942.7	18.60	51.687	
4,800.0	4,781.6	4,680.5	4,620.1	10.8	15.0	133.60	-257.9	-708.5	984.4	965.3	19.01	51.770	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-89.55	0.4	-45.0	45.0				
100.0	100.0	100.0	100.0	0.2	0.2	-89.55	0.4	-45.0	45.0	44.7	0.30	148.145	
200.0	200.0	200.0	200.0	0.3	0.3	-89.55	0.4	-45.0	45.0	44.3	0.65	68.924	
300.0	300.0	300.0	300.0	0.5	0.5	-89.55	0.4	-45.0	45.0	44.0	1.00	44.908	CC, ES
400.0	400.0	399.3	399.3	0.7	0.7	-90.03	0.0	-45.8	45.8	44.4	1.35	33.894	
500.0	500.0	498.5	498.5	0.8	0.9	-91.40	-1.2	-48.1	48.1	46.4	1.70	28.273	
600.0	600.0	597.6	597.5	1.0	1.0	-93.40	-3.1	-51.9	52.1	50.0	2.06	25.295	
700.0	700.0	696.6	696.2	1.2	1.2	127.99	-5.7	-57.3	58.2	55.8	2.40	24.287	SF
800.0	800.0	795.1	794.5	1.4	1.4	127.27	-9.1	-64.1	67.1	64.3	2.75	24.400	
900.0	899.9	893.3	892.3	1.6	1.7	127.27	-13.3	-72.5	78.6	75.5	3.11	25.306	
1,000.0	999.7	990.9	989.3	1.7	1.9	127.71	-18.1	-82.3	92.7	89.3	3.47	26.734	
1,100.0	1,099.4	1,087.9	1,085.4	2.0	2.2	128.37	-23.7	-93.4	109.5	105.7	3.84	28.506	
1,200.0	1,198.9	1,185.2	1,181.7	2.2	2.4	129.19	-29.9	-105.9	128.6	124.4	4.23	30.441	
1,300.0	1,298.4	1,283.3	1,278.7	2.4	2.7	129.94	-36.2	-118.7	148.2	143.5	4.62	32.079	
1,400.0	1,398.0	1,381.3	1,375.8	2.6	3.0	130.52	-42.5	-131.4	167.7	162.7	5.02	33.437	
1,500.0	1,497.5	1,479.4	1,472.8	2.8	3.3	130.97	-48.9	-144.2	187.3	181.9	5.42	34.576	
1,600.0	1,597.0	1,577.4	1,569.8	3.1	3.6	131.34	-55.2	-156.9	206.9	201.0	5.82	35.545	
1,700.0	1,696.5	1,675.5	1,666.8	3.3	3.9	131.65	-61.5	-169.7	226.4	220.2	6.23	36.377	
1,800.0	1,796.0	1,773.5	1,763.8	3.5	4.2	131.91	-67.8	-182.4	246.0	239.4	6.63	37.098	
1,900.0	1,895.5	1,871.6	1,860.9	3.8	4.5	132.13	-74.2	-195.2	265.6	258.6	7.04	37.729	
2,000.0	1,995.1	1,969.7	1,957.9	4.0	4.8	132.31	-80.5	-207.9	285.2	277.8	7.45	38.286	
2,100.0	2,094.6	2,067.7	2,054.9	4.2	5.1	132.48	-86.8	-220.6	304.8	297.0	7.86	38.780	
2,200.0	2,194.1	2,165.8	2,151.9	4.5	5.4	132.62	-93.1	-233.4	324.4	316.2	8.27	39.221	
2,300.0	2,293.6	2,263.8	2,248.9	4.7	5.7	132.75	-99.5	-246.1	344.0	335.4	8.68	39.618	
2,400.0	2,393.1	2,361.9	2,345.9	5.0	6.0	132.87	-105.8	-258.9	363.6	354.5	9.10	39.975	
2,500.0	2,492.7	2,459.9	2,443.0	5.2	6.3	132.97	-112.1	-271.6	383.2	373.7	9.51	40.300	
2,600.0	2,592.2	2,558.0	2,540.0	5.4	6.6	133.06	-118.4	-284.4	402.9	392.9	9.92	40.596	
2,700.0	2,691.7	2,656.1	2,637.0	5.7	6.9	133.15	-124.8	-297.1	422.5	412.1	10.34	40.867	
2,800.0	2,791.2	2,754.1	2,734.0	5.9	7.2	133.22	-131.1	-309.9	442.1	431.3	10.75	41.115	
2,900.0	2,890.7	2,852.2	2,831.0	6.2	7.5	133.29	-137.4	-322.6	461.7	450.5	11.17	41.344	
3,000.0	2,990.3	2,950.2	2,928.1	6.4	7.8	133.36	-143.8	-335.4	481.3	469.7	11.58	41.556	
3,100.0	3,089.8	3,048.3	3,025.1	6.6	8.1	133.42	-150.1	-348.1	500.9	488.9	12.00	41.752	
3,200.0	3,189.3	3,146.3	3,122.1	6.9	8.4	133.47	-156.4	-360.9	520.5	508.1	12.41	41.934	
3,300.0	3,288.8	3,244.4	3,219.1	7.1	8.7	133.52	-162.7	-373.6	540.1	527.3	12.83	42.104	
3,400.0	3,388.3	3,342.5	3,316.1	7.4	9.0	133.57	-169.1	-386.4	559.7	546.5	13.24	42.262	
3,500.0	3,487.9	3,440.5	3,413.2	7.6	9.3	133.62	-175.4	-399.1	579.4	565.7	13.66	42.411	
3,600.0	3,587.4	3,538.6	3,510.2	7.9	9.6	133.66	-181.7	-411.9	599.0	584.9	14.08	42.550	
3,700.0	3,686.9	3,636.6	3,607.2	8.1	9.9	133.70	-188.0	-424.6	618.6	604.1	14.49	42.681	
3,800.0	3,786.4	3,734.7	3,704.2	8.3	10.2	133.73	-194.4	-437.4	638.2	623.3	14.91	42.804	
3,900.0	3,885.9	3,832.7	3,801.2	8.6	10.5	133.77	-200.7	-450.1	657.8	642.5	15.33	42.920	
4,000.0	3,985.4	3,930.8	3,898.2	8.8	10.8	133.80	-207.0	-462.9	677.4	661.7	15.74	43.029	
4,100.0	4,085.0	4,028.9	3,995.3	9.1	11.1	133.83	-213.3	-475.6	697.0	680.9	16.16	43.133	
4,200.0	4,184.5	4,126.9	4,092.3	9.3	11.4	133.86	-219.7	-488.3	716.7	700.1	16.58	43.231	
4,300.0	4,284.0	4,225.0	4,189.3	9.6	11.7	133.88	-226.0	-501.1	736.3	719.3	16.99	43.325	
4,400.0	4,383.5	4,323.0	4,286.3	9.8	12.0	133.91	-232.3	-513.8	755.9	738.5	17.41	43.413	
4,500.0	4,483.0	4,421.1	4,383.3	10.0	12.3	133.93	-238.6	-526.6	775.5	757.7	17.83	43.497	
4,600.0	4,582.6	4,519.1	4,480.4	10.3	12.6	133.96	-245.0	-539.3	795.1	776.9	18.25	43.578	
4,700.0	4,682.1	4,617.2	4,577.4	10.5	12.9	133.98	-251.3	-552.1	814.7	796.1	18.66	43.654	
4,800.0	4,781.6	4,715.3	4,674.4	10.8	13.2	134.00	-257.6	-564.8	834.3	815.3	19.08	43.727	
4,900.0	4,881.1	4,813.3	4,771.4	11.0	13.5	134.02	-264.0	-577.6	854.0	834.5	19.50	43.797	
5,000.0	4,980.6	4,911.4	4,868.4	11.3	13.8	134.04	-270.3	-590.3	873.6	853.7	19.92	43.864	
5,100.0	5,080.2	5,009.4	4,965.5	11.5	14.1	134.06	-276.6	-603.1	893.2	872.9	20.33	43.927	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,179.7	5,107.5	5,062.5	11.7	14.4	134.08	-282.9	-615.8	912.8	892.1	20.75	43.989	
5,300.0	5,279.2	5,205.5	5,159.5	12.0	14.7	134.09	-289.3	-628.6	932.4	911.2	21.17	44.047	
5,400.0	5,378.7	5,303.6	5,256.5	12.2	15.0	134.11	-295.6	-641.3	952.0	930.4	21.59	44.104	
5,500.0	5,478.2	5,401.7	5,353.5	12.5	15.3	134.12	-301.9	-654.1	971.7	949.6	22.00	44.158	
5,600.0	5,577.7	5,499.7	5,450.5	12.7	15.6	134.14	-308.2	-666.8	991.3	968.8	22.42	44.210	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-89.47	0.3	-37.4	37.4				
100.0	100.0	100.0	100.0	0.2	0.2	-89.47	0.3	-37.4	37.4	37.1	0.30	123.303	
200.0	200.0	200.0	200.0	0.3	0.3	-89.47	0.3	-37.4	37.4	36.8	0.65	57.366	
300.0	300.0	300.0	300.0	0.5	0.5	-89.47	0.3	-37.4	37.4	36.4	1.00	37.378	
400.0	400.0	400.0	400.0	0.7	0.7	-89.47	0.3	-37.4	37.4	36.1	1.35	27.719	CC, ES
500.0	500.0	499.5	499.4	0.8	0.8	-90.20	-0.1	-38.2	38.2	36.5	1.70	22.456	
600.0	600.0	598.9	598.8	1.0	1.0	-92.25	-1.6	-40.3	40.4	38.3	2.05	19.677	
700.0	700.0	698.1	698.0	1.2	1.2	128.73	-4.0	-43.9	44.6	42.2	2.40	18.614	SF
800.0	800.0	797.1	796.8	1.4	1.4	127.62	-7.3	-48.9	51.6	48.8	2.75	18.740	
900.0	899.9	895.8	895.2	1.6	1.6	127.29	-11.6	-55.2	61.0	57.9	3.11	19.637	
1,000.0	999.7	994.1	993.0	1.7	1.8	127.47	-16.9	-63.0	73.1	69.6	3.47	21.038	
1,100.0	1,099.4	1,091.8	1,090.1	2.0	2.1	127.92	-23.0	-72.0	87.7	83.8	3.85	22.769	
1,200.0	1,198.9	1,190.3	1,187.8	2.2	2.3	128.67	-29.7	-82.0	104.2	100.0	4.24	24.576	
1,300.0	1,298.4	1,288.8	1,285.7	2.4	2.6	129.39	-36.5	-92.1	121.0	116.3	4.64	26.088	
1,400.0	1,398.0	1,387.4	1,383.5	2.6	2.8	129.94	-43.2	-102.1	137.7	132.7	5.04	27.341	
1,500.0	1,497.5	1,486.0	1,481.3	2.8	3.1	130.37	-50.0	-112.1	154.5	149.0	5.44	28.393	
1,600.0	1,597.0	1,584.6	1,579.2	3.1	3.3	130.72	-56.8	-122.1	171.3	165.4	5.85	29.288	
1,700.0	1,696.5	1,683.2	1,677.0	3.3	3.6	131.00	-63.5	-132.2	188.0	181.8	6.26	30.057	
1,800.0	1,796.0	1,781.7	1,774.8	3.5	3.9	131.24	-70.3	-142.2	204.8	198.2	6.67	30.723	
1,900.0	1,895.5	1,880.3	1,872.7	3.8	4.1	131.44	-77.0	-152.2	221.6	214.5	7.08	31.307	
2,000.0	1,995.1	1,978.9	1,970.5	4.0	4.4	131.61	-83.8	-162.2	238.4	230.9	7.49	31.822	
2,100.0	2,094.6	2,077.5	2,068.3	4.2	4.7	131.76	-90.6	-172.3	255.2	247.3	7.91	32.279	
2,200.0	2,194.1	2,176.0	2,166.2	4.5	4.9	131.89	-97.3	-182.3	272.0	263.7	8.32	32.687	
2,300.0	2,293.6	2,274.6	2,264.0	4.7	5.2	132.01	-104.1	-192.3	288.8	280.1	8.74	33.054	
2,400.0	2,393.1	2,373.2	2,361.8	5.0	5.5	132.11	-110.8	-202.3	305.6	296.5	9.15	33.385	
2,500.0	2,492.7	2,471.8	2,459.7	5.2	5.7	132.20	-117.6	-212.4	322.4	312.8	9.57	33.686	
2,600.0	2,592.2	2,570.4	2,557.5	5.4	6.0	132.29	-124.4	-222.4	339.2	329.2	9.99	33.960	
2,700.0	2,691.7	2,668.9	2,655.3	5.7	6.3	132.36	-131.1	-232.4	356.0	345.6	10.41	34.210	
2,800.0	2,791.2	2,767.5	2,753.2	5.9	6.5	132.43	-137.9	-242.4	372.8	362.0	10.82	34.440	
2,900.0	2,890.7	2,866.1	2,851.0	6.2	6.8	132.50	-144.6	-252.5	389.6	378.4	11.24	34.652	
3,000.0	2,990.3	2,964.7	2,948.8	6.4	7.1	132.55	-151.4	-262.5	406.4	394.7	11.66	34.848	
3,100.0	3,089.8	3,063.2	3,046.7	6.6	7.4	132.61	-158.2	-272.5	423.2	411.1	12.08	35.030	
3,200.0	3,189.3	3,161.8	3,144.5	6.9	7.6	132.66	-164.9	-282.5	440.0	427.5	12.50	35.199	
3,300.0	3,288.8	3,260.4	3,242.3	7.1	7.9	132.70	-171.7	-292.6	456.8	443.9	12.92	35.356	
3,400.0	3,388.3	3,359.0	3,340.2	7.4	8.2	132.74	-178.4	-302.6	473.6	460.3	13.34	35.503	
3,500.0	3,487.9	3,457.6	3,438.0	7.6	8.4	132.78	-185.2	-312.6	490.4	476.7	13.76	35.641	
3,600.0	3,587.4	3,556.1	3,535.8	7.9	8.7	132.82	-192.0	-322.6	507.2	493.1	14.18	35.770	
3,700.0	3,686.9	3,654.7	3,633.7	8.1	9.0	132.85	-198.7	-332.7	524.0	509.4	14.60	35.891	
3,800.0	3,786.4	3,753.3	3,731.5	8.3	9.3	132.89	-205.5	-342.7	540.8	525.8	15.02	36.005	
3,900.0	3,885.9	3,851.9	3,829.3	8.6	9.5	132.92	-212.3	-352.7	557.6	542.2	15.44	36.112	
4,000.0	3,985.4	3,950.4	3,927.2	8.8	9.8	132.94	-219.0	-362.7	574.4	558.6	15.86	36.214	
4,100.0	4,085.0	4,049.0	4,025.0	9.1	10.1	132.97	-225.8	-372.8	591.3	575.0	16.28	36.310	
4,200.0	4,184.5	4,147.6	4,122.8	9.3	10.3	133.00	-232.5	-382.8	608.1	591.4	16.70	36.401	
4,300.0	4,284.0	4,246.2	4,220.7	9.6	10.6	133.02	-239.3	-392.8	624.9	607.7	17.13	36.488	
4,400.0	4,383.5	4,344.7	4,318.5	9.8	10.9	133.04	-246.1	-402.8	641.7	624.1	17.55	36.570	
4,500.0	4,483.0	4,443.3	4,416.3	10.0	11.2	133.07	-252.8	-412.9	658.5	640.5	17.97	36.648	
4,600.0	4,582.6	4,541.9	4,514.2	10.3	11.4	133.09	-259.6	-422.9	675.3	656.9	18.39	36.723	
4,700.0	4,682.1	4,640.5	4,612.0	10.5	11.7	133.11	-266.3	-432.9	692.1	673.3	18.81	36.794	
4,800.0	4,781.6	4,739.1	4,709.8	10.8	12.0	133.12	-273.1	-442.9	708.9	689.7	19.23	36.861	
4,900.0	4,881.1	4,837.6	4,807.7	11.0	12.3	133.14	-279.9	-453.0	725.7	706.0	19.65	36.926	
5,000.0	4,980.6	4,936.2	4,905.5	11.3	12.5	133.16	-286.6	-463.0	742.5	722.4	20.07	36.988	
5,100.0	5,080.2	5,034.8	5,003.3	11.5	12.8	133.18	-293.4	-473.0	759.3	738.8	20.50	37.047	

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 4H-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 4H-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	5,179.7	5,133.4	5,101.2	11.7	13.1	133.19	-300.1	-483.0	776.1	755.2	20.92	37.104	
5,300.0	5,279.2	5,231.9	5,199.0	12.0	13.3	133.21	-306.9	-493.1	792.9	771.6	21.34	37.158	
5,400.0	5,378.7	5,330.5	5,296.8	12.2	13.6	133.22	-313.7	-503.1	809.7	788.0	21.76	37.211	
5,500.0	5,478.2	5,429.1	5,394.7	12.5	13.9	133.23	-320.4	-513.1	826.5	804.3	22.18	37.261	
5,600.0	5,577.7	5,527.7	5,492.5	12.7	14.2	133.25	-327.2	-523.1	843.3	820.7	22.60	37.309	
5,700.0	5,677.3	5,626.3	5,590.3	13.0	14.4	133.26	-333.9	-533.2	860.1	837.1	23.03	37.356	
5,800.0	5,776.8	5,724.8	5,688.2	13.2	14.7	133.27	-340.7	-543.2	876.9	853.5	23.45	37.401	
5,900.0	5,876.3	5,823.4	5,786.0	13.5	15.0	133.28	-347.5	-553.2	893.7	869.9	23.87	37.444	
6,000.0	5,975.8	5,922.0	5,883.8	13.7	15.2	133.29	-354.2	-563.2	910.6	886.3	24.29	37.485	
6,100.0	6,075.3	6,020.6	5,981.7	13.9	15.5	133.30	-361.0	-573.3	927.4	902.6	24.71	37.525	
6,200.0	6,174.9	6,119.1	6,079.5	14.2	15.8	133.32	-367.7	-583.3	944.2	919.0	25.13	37.564	
6,300.0	6,274.4	6,217.7	6,177.3	14.4	16.1	133.33	-374.5	-593.3	961.0	935.4	25.56	37.602	
6,400.0	6,373.9	6,316.3	6,275.2	14.7	16.3	133.34	-381.3	-603.3	977.8	951.8	25.98	37.638	
6,500.0	6,473.4	6,414.8	6,372.9	14.9	16.6	133.35	-388.0	-613.3	994.6	968.2	26.40	37.676	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	-89.35	0.3	-29.9	29.9				
100.0	100.0	100.0	100.0	0.2	0.2	-89.35	0.3	-29.9	29.9	29.6	0.30	98.461	
200.0	200.0	200.0	200.0	0.3	0.3	-89.35	0.3	-29.9	29.9	29.2	0.65	45.808	
300.0	300.0	300.0	300.0	0.5	0.5	-89.35	0.3	-29.9	29.9	28.9	1.00	29.847	
400.0	400.0	400.0	400.0	0.7	0.7	-89.35	0.3	-29.9	29.9	28.6	1.35	22.135	
500.0	500.0	500.0	500.0	0.8	0.8	-89.35	0.3	-29.9	29.9	28.2	1.70	17.589	CC, ES
600.0	600.0	599.6	599.6	1.0	1.0	-90.53	-0.3	-30.5	30.5	28.5	2.05	14.891	
700.0	700.0	699.2	699.2	1.2	1.2	130.45	-2.1	-32.3	33.0	30.6	2.40	13.744	
800.0	800.0	798.6	798.5	1.4	1.4	128.96	-5.2	-35.3	37.8	35.1	2.75	13.757	
900.0	899.9	897.8	897.5	1.6	1.6	128.10	-9.5	-39.6	45.1	42.0	3.11	14.514	
1,000.0	999.7	996.7	996.1	1.7	1.8	127.73	-15.0	-45.0	54.8	51.3	3.48	15.760	
1,100.0	1,099.4	1,095.5	1,094.5	2.0	2.0	127.75	-21.6	-51.4	66.7	62.9	3.86	17.301	
1,200.0	1,198.9	1,194.7	1,193.1	2.2	2.2	128.56	-28.5	-58.1	79.9	75.6	4.25	18.803	
1,300.0	1,298.4	1,293.7	1,291.8	2.4	2.4	129.35	-35.3	-64.8	93.3	88.6	4.65	20.070	
1,400.0	1,398.0	1,392.8	1,390.4	2.6	2.7	129.94	-42.2	-71.5	106.6	101.6	5.05	21.122	
1,500.0	1,497.5	1,491.9	1,489.0	2.8	2.9	130.40	-49.0	-78.2	120.0	114.6	5.45	22.007	
1,600.0	1,597.0	1,591.0	1,587.7	3.1	3.1	130.77	-55.8	-84.9	133.4	127.6	5.86	22.760	
1,700.0	1,696.5	1,690.1	1,686.3	3.3	3.3	131.07	-62.7	-91.6	146.8	140.5	6.27	23.407	
1,800.0	1,796.0	1,789.2	1,784.9	3.5	3.6	131.32	-69.5	-98.3	160.2	153.5	6.68	23.969	
1,900.0	1,895.5	1,888.3	1,883.6	3.8	3.8	131.53	-76.3	-105.0	173.6	166.5	7.10	24.462	
2,000.0	1,995.1	1,987.4	1,982.2	4.0	4.0	131.71	-83.2	-111.7	187.0	179.5	7.51	24.897	
2,100.0	2,094.6	2,086.5	2,080.8	4.2	4.3	131.87	-90.0	-118.4	200.4	192.5	7.93	25.283	
2,200.0	2,194.1	2,185.6	2,179.5	4.5	4.5	132.00	-96.8	-125.1	213.8	205.5	8.34	25.628	
2,300.0	2,293.6	2,284.7	2,278.1	4.7	4.8	132.12	-103.7	-131.7	227.3	218.5	8.76	25.938	
2,400.0	2,393.1	2,383.8	2,376.7	5.0	5.0	132.23	-110.5	-138.4	240.7	231.5	9.18	26.219	
2,500.0	2,492.7	2,482.9	2,475.4	5.2	5.2	132.33	-117.3	-145.1	254.1	244.5	9.60	26.473	
2,600.0	2,592.2	2,582.0	2,574.0	5.4	5.5	132.41	-124.2	-151.8	267.5	257.5	10.02	26.706	
2,700.0	2,691.7	2,681.1	2,672.6	5.7	5.7	132.49	-131.0	-158.5	280.9	270.5	10.44	26.918	
2,800.0	2,791.2	2,780.2	2,771.3	5.9	5.9	132.56	-137.8	-165.2	294.3	283.5	10.86	27.113	
2,900.0	2,890.7	2,879.3	2,869.9	6.2	6.2	132.63	-144.7	-171.9	307.7	296.5	11.28	27.293	
3,000.0	2,990.3	2,978.4	2,968.5	6.4	6.4	132.69	-151.5	-178.6	321.2	309.5	11.70	27.459	
3,100.0	3,089.8	3,077.5	3,067.2	6.6	6.7	132.74	-158.3	-185.3	334.6	322.5	12.12	27.614	
3,200.0	3,189.3	3,176.6	3,165.8	6.9	6.9	132.79	-165.2	-192.0	348.0	335.4	12.54	27.757	
3,300.0	3,288.8	3,275.7	3,264.4	7.1	7.1	132.84	-172.0	-198.7	361.4	348.4	12.96	27.891	
3,400.0	3,388.3	3,374.8	3,363.1	7.4	7.4	132.88	-178.9	-205.4	374.8	361.4	13.38	28.015	
3,500.0	3,487.9	3,473.9	3,461.7	7.6	7.6	132.92	-185.7	-212.1	388.2	374.4	13.80	28.132	
3,600.0	3,587.4	3,572.9	3,560.3	7.9	7.9	132.96	-192.5	-218.8	401.6	387.4	14.22	28.242	
3,700.0	3,686.9	3,672.0	3,659.0	8.1	8.1	133.00	-199.4	-225.4	415.1	400.4	14.64	28.345	
3,800.0	3,786.4	3,771.1	3,757.6	8.3	8.3	133.03	-206.2	-232.1	428.5	413.4	15.06	28.442	
3,900.0	3,885.9	3,870.2	3,856.2	8.6	8.6	133.06	-213.0	-238.8	441.9	426.4	15.49	28.534	
4,000.0	3,985.4	3,969.3	3,954.9	8.8	8.8	133.09	-219.9	-245.5	455.3	439.4	15.91	28.620	
4,100.0	4,085.0	4,068.4	4,053.5	9.1	9.0	133.12	-226.7	-252.2	468.7	452.4	16.33	28.702	
4,200.0	4,184.5	4,167.5	4,152.1	9.3	9.3	133.14	-233.5	-258.9	482.1	465.4	16.75	28.779	
4,300.0	4,284.0	4,266.6	4,250.7	9.6	9.5	133.17	-240.4	-265.6	495.6	478.4	17.18	28.853	
4,400.0	4,383.5	4,365.7	4,349.4	9.8	9.8	133.19	-247.2	-272.3	509.0	491.4	17.60	28.923	
4,500.0	4,483.0	4,464.8	4,448.0	10.0	10.0	133.21	-254.0	-279.0	522.4	504.4	18.02	28.990	
4,600.0	4,582.6	4,563.9	4,546.6	10.3	10.2	133.23	-260.9	-285.7	535.8	517.4	18.44	29.053	
4,700.0	4,682.1	4,663.0	4,645.3	10.5	10.5	133.25	-267.7	-292.4	549.2	530.4	18.87	29.113	
4,800.0	4,781.6	4,762.1	4,743.9	10.8	10.7	133.27	-274.5	-299.1	562.6	543.4	19.29	29.171	
4,900.0	4,881.1	4,861.2	4,842.5	11.0	11.0	133.29	-281.4	-305.8	576.1	556.4	19.71	29.226	
5,000.0	4,980.6	4,960.3	4,941.2	11.3	11.2	133.31	-288.2	-312.5	589.5	569.3	20.13	29.279	
5,100.0	5,080.2	5,059.4	5,039.8	11.5	11.4	133.32	-295.0	-319.2	602.9	582.3	20.56	29.329	

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 4H-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 4H-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	5,179.7	5,158.5	5,138.4	11.7	11.7	133.34	-301.9	-325.8	616.3	595.3	20.98	29.378	
5,300.0	5,279.2	5,257.6	5,237.1	12.0	11.9	133.36	-308.7	-332.5	629.7	608.3	21.40	29.424	
5,400.0	5,378.7	5,356.7	5,335.7	12.2	12.2	133.37	-315.6	-339.2	643.2	621.3	21.82	29.469	
5,500.0	5,478.2	5,455.8	5,434.3	12.5	12.4	133.38	-322.4	-345.9	656.6	634.3	22.25	29.512	
5,600.0	5,577.7	5,554.9	5,533.0	12.7	12.6	133.40	-329.2	-352.6	670.0	647.3	22.67	29.553	
5,700.0	5,677.3	5,654.0	5,631.6	13.0	12.9	133.41	-336.1	-359.3	683.4	660.3	23.09	29.593	
5,800.0	5,776.8	5,753.1	5,730.2	13.2	13.1	133.42	-342.9	-366.0	696.8	673.3	23.52	29.631	
5,900.0	5,876.3	5,852.1	5,828.9	13.5	13.4	133.43	-349.7	-372.7	710.2	686.3	23.94	29.668	
6,000.0	5,975.8	5,951.2	5,927.5	13.7	13.6	133.45	-356.6	-379.4	723.7	699.3	24.36	29.703	
6,100.0	6,075.3	6,050.3	6,026.1	13.9	13.8	133.46	-363.4	-386.1	737.1	712.3	24.79	29.737	
6,200.0	6,174.9	6,149.4	6,124.8	14.2	14.1	133.47	-370.2	-392.8	750.5	725.3	25.21	29.770	
6,300.0	6,274.4	6,248.5	6,223.4	14.4	14.3	133.48	-377.1	-399.5	763.9	738.3	25.63	29.802	
6,400.0	6,373.9	6,347.6	6,322.0	14.7	14.6	133.49	-383.9	-406.2	777.3	751.3	26.06	29.833	
6,500.0	6,473.4	6,446.7	6,420.7	14.9	14.8	133.50	-390.7	-412.9	790.7	764.3	26.48	29.863	
6,600.0	6,572.9	6,544.1	6,517.8	15.2	15.0	133.84	-392.8	-419.4	804.2	777.4	26.83	29.975	
6,700.0	6,672.6	6,639.3	6,612.1	15.3	15.1	-139.81	-382.2	-425.8	818.0	791.1	26.99	30.312	
6,800.0	6,771.6	6,733.1	6,702.8	15.4	15.0	-105.11	-359.6	-432.0	831.9	804.9	26.93	30.894	
6,900.0	6,867.9	6,825.6	6,788.7	15.4	15.0	-95.61	-325.8	-437.8	845.4	818.7	26.70	31.668	
7,000.0	6,959.7	6,917.1	6,868.6	15.3	14.9	-90.77	-281.8	-443.3	858.4	832.1	26.36	32.571	
7,100.0	7,045.1	7,007.7	6,941.7	15.1	14.7	-87.60	-228.5	-448.2	870.6	844.6	25.97	33.517	
7,200.0	7,122.6	7,100.0	7,008.6	15.0	14.7	-85.30	-165.2	-452.7	881.6	855.9	25.63	34.394	
7,300.0	7,190.6	7,187.1	7,063.8	14.9	14.7	-83.59	-98.0	-456.5	891.2	865.8	25.44	35.032	
7,400.0	7,247.8	7,276.1	7,111.3	15.0	14.8	-82.30	-22.9	-459.7	899.3	873.8	25.47	35.301	
7,500.0	7,293.1	7,365.0	7,149.2	15.1	15.0	-81.38	57.4	-462.3	905.6	879.8	25.83	35.061	
7,600.0	7,325.6	7,453.7	7,176.8	15.5	15.3	-80.79	141.6	-464.2	910.1	883.5	26.54	34.286	
7,700.0	7,344.7	7,542.4	7,193.8	16.0	15.8	-80.52	228.7	-465.3	912.6	884.9	27.65	33.008	
7,800.0	7,350.0	7,631.3	7,200.0	16.7	16.4	-80.54	317.2	-465.7	913.1	884.0	29.10	31.375	
7,835.6	7,350.0	7,666.2	7,200.0	17.0	16.7	-80.55	352.2	-465.7	913.1	883.4	29.75	30.697	
7,900.0	7,350.0	7,730.6	7,200.0	17.5	17.3	-80.55	416.6	-465.7	913.1	882.2	30.96	29.492	
8,000.0	7,350.0	7,830.6	7,200.0	18.5	18.3	-80.55	516.6	-465.7	913.1	880.1	33.07	27.611	
8,100.0	7,350.0	7,930.6	7,200.0	19.5	19.3	-80.55	616.6	-465.7	913.1	877.7	35.39	25.800	
8,200.0	7,350.0	8,030.6	7,200.0	20.7	20.5	-80.55	716.6	-465.7	913.1	875.2	37.89	24.099	
8,300.0	7,350.0	8,130.6	7,200.0	22.0	21.8	-80.55	816.6	-465.7	913.1	872.6	40.53	22.530	
8,400.0	7,350.0	8,230.6	7,200.0	23.3	23.1	-80.55	916.6	-465.7	913.1	869.9	43.28	21.096	
8,500.0	7,350.0	8,330.6	7,200.0	24.6	24.5	-80.55	1,016.6	-465.7	913.1	867.0	46.13	19.793	
8,600.0	7,350.0	8,430.6	7,200.0	26.0	25.9	-80.55	1,116.6	-465.7	913.1	864.1	49.06	18.611	
8,700.0	7,350.0	8,530.6	7,200.0	27.5	27.3	-80.55	1,216.6	-465.7	913.1	861.1	52.06	17.541	
8,800.0	7,350.0	8,630.6	7,200.0	29.0	28.8	-80.55	1,316.6	-465.7	913.1	858.0	55.11	16.570	
8,900.0	7,350.0	8,730.6	7,200.0	30.5	30.3	-80.55	1,416.6	-465.7	913.1	854.9	58.20	15.689	
9,000.0	7,350.0	8,830.6	7,200.0	32.0	31.9	-80.55	1,516.6	-465.7	913.1	851.8	61.34	14.887	
9,100.0	7,350.0	8,930.6	7,200.0	33.6	33.5	-80.55	1,616.6	-465.7	913.1	848.6	64.51	14.156	
9,200.0	7,350.0	9,030.6	7,200.0	35.2	35.0	-80.55	1,716.6	-465.7	913.1	845.4	67.70	13.488	
9,300.0	7,350.0	9,130.6	7,200.0	36.8	36.6	-80.55	1,816.6	-465.7	913.1	842.2	70.92	12.875	
9,400.0	7,350.0	9,230.6	7,200.0	38.4	38.2	-80.55	1,916.6	-465.7	913.1	839.0	74.17	12.312	
9,500.0	7,350.0	9,330.6	7,200.0	40.0	39.9	-80.55	2,016.6	-465.7	913.1	835.7	77.43	11.793	
9,600.0	7,350.0	9,430.6	7,200.0	41.6	41.5	-80.55	2,116.6	-465.7	913.1	832.4	80.71	11.314	
9,700.0	7,350.0	9,530.6	7,200.0	43.3	43.1	-80.55	2,216.6	-465.7	913.1	829.1	84.00	10.871	
9,800.0	7,350.0	9,630.6	7,200.0	44.9	44.8	-80.55	2,316.6	-465.7	913.1	825.8	87.31	10.459	
9,900.0	7,350.0	9,730.6	7,200.0	46.6	46.5	-80.55	2,416.6	-465.7	913.1	822.5	90.62	10.076	
10,000.0	7,350.0	9,830.6	7,200.0	48.2	48.1	-80.55	2,516.6	-465.7	913.1	819.2	93.95	9.719	
10,100.0	7,350.0	9,930.6	7,200.0	49.9	49.8	-80.55	2,616.6	-465.7	913.1	815.8	97.29	9.386	
10,200.0	7,350.0	10,030.6	7,200.0	51.6	51.5	-80.55	2,716.6	-465.7	913.1	812.5	100.63	9.074	

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 4H-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 4H-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
10,300.0	7,350.0	10,130.6	7,200.0	53.3	53.2	-80.55	2,816.6	-465.7	913.1	809.1	103.99	8.781	
10,400.0	7,350.0	10,230.6	7,200.0	54.9	54.8	-80.55	2,916.6	-465.7	913.1	805.8	107.35	8.506	
10,500.0	7,350.0	10,330.6	7,200.0	56.6	56.5	-80.55	3,016.6	-465.7	913.1	802.4	110.71	8.248	
10,600.0	7,350.0	10,430.6	7,200.0	58.3	58.2	-80.55	3,116.6	-465.7	913.1	799.1	114.09	8.004	
10,700.0	7,350.0	10,530.6	7,200.0	60.0	59.9	-80.55	3,216.6	-465.7	913.1	795.7	117.46	7.774	
10,800.0	7,350.0	10,630.6	7,200.0	61.7	61.6	-80.55	3,316.6	-465.7	913.1	792.3	120.85	7.556	
10,900.0	7,350.0	10,730.6	7,200.0	63.4	63.3	-80.55	3,416.6	-465.7	913.1	788.9	124.23	7.350	
11,000.0	7,350.0	10,830.6	7,200.0	65.1	65.0	-80.55	3,516.6	-465.7	913.1	785.5	127.62	7.155	
11,100.0	7,350.0	10,930.6	7,200.0	66.8	66.7	-80.55	3,616.6	-465.7	913.1	782.1	131.02	6.970	
11,200.0	7,350.0	11,030.6	7,200.0	68.5	68.5	-80.55	3,716.6	-465.7	913.1	778.7	134.41	6.793	
11,300.0	7,350.0	11,130.6	7,200.0	70.3	70.2	-80.55	3,816.6	-465.7	913.1	775.3	137.81	6.626	
11,400.0	7,350.0	11,230.6	7,200.0	72.0	71.9	-80.55	3,916.6	-465.7	913.1	771.9	141.22	6.466	
11,500.0	7,350.0	11,330.6	7,200.0	73.7	73.6	-80.55	4,016.6	-465.7	913.1	768.5	144.62	6.314	
11,600.0	7,350.0	11,430.6	7,200.0	75.4	75.3	-80.55	4,116.6	-465.7	913.1	765.1	148.03	6.168	
11,700.0	7,350.0	11,530.6	7,200.0	77.1	77.0	-80.55	4,216.6	-465.7	913.1	761.7	151.44	6.030	
11,800.0	7,350.0	11,630.6	7,200.0	78.8	78.8	-80.55	4,316.6	-465.7	913.1	758.3	154.86	5.897	
11,892.7	7,350.0	11,723.3	7,200.0	80.4	80.4	-80.55	4,409.3	-465.7	913.1	755.1	158.02	5.778	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	-89.15	0.3	-22.4	22.4				
100.0	100.0	100.0	100.0	0.2	0.2	-89.15	0.3	-22.4	22.4	22.1	0.30	73.619	
200.0	200.0	200.0	200.0	0.3	0.3	-89.15	0.3	-22.4	22.4	21.7	0.65	34.250	
300.0	300.0	300.0	300.0	0.5	0.5	-89.15	0.3	-22.4	22.4	21.4	1.00	22.316	
400.0	400.0	400.0	400.0	0.7	0.7	-89.15	0.3	-22.4	22.4	21.0	1.35	16.550	
500.0	500.0	500.0	500.0	0.8	0.8	-89.15	0.3	-22.4	22.4	20.7	1.70	13.152	
600.0	600.0	600.0	600.0	1.0	1.0	-89.15	0.3	-22.4	22.4	20.3	2.05	10.911	CC, ES
700.0	700.0	699.8	699.8	1.2	1.2	133.53	-0.5	-22.7	23.3	20.9	2.40	9.729	
800.0	800.0	799.6	799.6	1.4	1.4	132.50	-2.8	-23.9	26.3	23.5	2.75	9.549	
900.0	899.9	899.2	899.1	1.6	1.6	131.22	-6.7	-25.8	31.2	28.0	3.11	10.022	
1,000.0	999.7	998.7	998.4	1.7	1.7	129.96	-12.1	-28.4	38.0	34.5	3.48	10.932	
1,100.0	1,099.4	1,098.2	1,097.6	2.0	1.9	129.22	-18.9	-31.7	46.7	42.8	3.86	12.101	
1,200.0	1,198.9	1,197.7	1,196.8	2.2	2.1	129.88	-25.7	-35.0	56.4	52.2	4.25	13.286	
1,300.0	1,298.4	1,297.2	1,296.0	2.4	2.3	130.60	-32.5	-38.3	66.4	61.8	4.65	14.300	
1,400.0	1,398.0	1,396.7	1,395.3	2.6	2.6	131.13	-39.4	-41.6	76.4	71.4	5.05	15.142	
1,500.0	1,497.5	1,496.2	1,494.5	2.8	2.8	131.54	-46.2	-44.9	86.4	81.0	5.45	15.851	
1,600.0	1,597.0	1,595.7	1,593.7	3.1	3.0	131.86	-53.0	-48.2	96.4	90.6	5.86	16.454	
1,700.0	1,696.5	1,695.2	1,692.9	3.3	3.2	132.12	-59.9	-51.5	106.4	100.2	6.27	16.974	
1,800.0	1,796.0	1,794.7	1,792.1	3.5	3.4	132.34	-66.7	-54.9	116.4	109.8	6.68	17.426	
1,900.0	1,895.5	1,894.2	1,891.3	3.8	3.6	132.53	-73.5	-58.2	126.5	119.4	7.10	17.822	
2,000.0	1,995.1	1,993.7	1,990.5	4.0	3.8	132.68	-80.4	-61.5	136.5	129.0	7.51	18.172	
2,100.0	2,094.6	2,093.2	2,089.7	4.2	4.0	132.82	-87.2	-64.8	146.5	138.5	7.93	18.483	
2,200.0	2,194.1	2,192.7	2,188.9	4.5	4.3	132.93	-94.0	-68.1	156.5	148.1	8.34	18.761	
2,300.0	2,293.6	2,292.2	2,288.1	4.7	4.5	133.04	-100.9	-71.4	166.5	157.7	8.76	19.011	
2,400.0	2,393.1	2,391.7	2,387.3	5.0	4.7	133.13	-107.7	-74.8	176.5	167.3	9.18	19.237	
2,500.0	2,492.7	2,491.2	2,486.5	5.2	4.9	133.21	-114.6	-78.1	186.5	176.9	9.59	19.442	
2,600.0	2,592.2	2,590.7	2,585.7	5.4	5.1	133.29	-121.4	-81.4	196.5	186.5	10.01	19.629	
2,700.0	2,691.7	2,690.2	2,684.9	5.7	5.3	133.35	-128.2	-84.7	206.6	196.1	10.43	19.800	
2,800.0	2,791.2	2,789.7	2,784.1	5.9	5.5	133.41	-135.1	-88.0	216.6	205.7	10.85	19.958	
2,900.0	2,890.7	2,889.2	2,883.4	6.2	5.8	133.47	-141.9	-91.3	226.6	215.3	11.27	20.103	
3,000.0	2,990.3	2,988.7	2,982.6	6.4	6.0	133.52	-148.7	-94.6	236.6	224.9	11.69	20.237	
3,100.0	3,089.8	3,088.2	3,081.8	6.6	6.2	133.56	-155.6	-98.0	246.6	234.5	12.11	20.362	
3,200.0	3,189.3	3,187.7	3,181.0	6.9	6.4	133.61	-162.4	-101.3	256.6	244.1	12.53	20.478	
3,300.0	3,288.8	3,287.2	3,280.2	7.1	6.6	133.65	-169.2	-104.6	266.6	253.7	12.95	20.586	
3,400.0	3,388.3	3,386.7	3,379.4	7.4	6.8	133.68	-176.1	-107.9	276.7	263.3	13.37	20.687	
3,500.0	3,487.9	3,486.2	3,478.6	7.6	7.1	133.72	-182.9	-111.2	286.7	272.9	13.79	20.781	
3,600.0	3,587.4	3,585.7	3,577.8	7.9	7.3	133.75	-189.7	-114.5	296.7	282.5	14.22	20.870	
3,700.0	3,686.9	3,685.2	3,677.0	8.1	7.5	133.78	-196.6	-117.8	306.7	292.1	14.64	20.953	
3,800.0	3,786.4	3,784.7	3,776.2	8.3	7.7	133.81	-203.4	-121.2	316.7	301.7	15.06	21.032	
3,900.0	3,885.9	3,884.2	3,875.4	8.6	7.9	133.83	-210.2	-124.5	326.7	311.3	15.48	21.106	
4,000.0	3,985.4	3,983.6	3,974.6	8.8	8.1	133.86	-217.1	-127.8	336.8	320.8	15.90	21.175	
4,100.0	4,085.0	4,083.1	4,073.8	9.1	8.4	133.88	-223.9	-131.1	346.8	330.4	16.32	21.242	
4,200.0	4,184.5	4,182.6	4,173.0	9.3	8.6	133.90	-230.7	-134.4	356.8	340.0	16.75	21.304	
4,300.0	4,284.0	4,282.1	4,272.2	9.6	8.8	133.92	-237.6	-137.7	366.8	349.6	17.17	21.364	
4,400.0	4,383.5	4,381.6	4,371.4	9.8	9.0	133.94	-244.4	-141.0	376.8	359.2	17.59	21.421	
4,500.0	4,483.0	4,481.1	4,470.7	10.0	9.2	133.96	-251.3	-144.4	386.8	368.8	18.01	21.474	
4,600.0	4,582.6	4,580.6	4,569.9	10.3	9.5	133.98	-258.1	-147.7	396.8	378.4	18.44	21.526	
4,700.0	4,682.1	4,680.1	4,669.1	10.5	9.7	133.99	-264.9	-151.0	406.9	388.0	18.86	21.575	
4,800.0	4,781.6	4,779.6	4,768.3	10.8	9.9	134.01	-271.8	-154.3	416.9	397.6	19.28	21.621	
4,900.0	4,881.1	4,879.1	4,867.5	11.0	10.1	134.03	-278.6	-157.6	426.9	407.2	19.70	21.666	
5,000.0	4,980.6	4,978.6	4,966.7	11.3	10.3	134.04	-285.4	-160.9	436.9	416.8	20.13	21.709	
5,100.0	5,080.2	5,078.1	5,065.9	11.5	10.5	134.05	-292.3	-164.2	446.9	426.4	20.55	21.750	

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 4H-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 4H-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	5,179.7	5,177.6	5,165.1	11.7	10.8	134.07	-299.1	-167.6	456.9	436.0	20.97	21.789	
5,300.0	5,279.2	5,277.1	5,264.3	12.0	11.0	134.08	-305.9	-170.9	467.0	445.6	21.39	21.827	
5,400.0	5,378.7	5,376.6	5,363.5	12.2	11.2	134.09	-312.8	-174.2	477.0	455.2	21.82	21.863	
5,500.0	5,478.2	5,476.1	5,462.7	12.5	11.4	134.10	-319.6	-177.5	487.0	464.8	22.24	21.897	
5,600.0	5,577.7	5,575.6	5,561.9	12.7	11.6	134.11	-326.4	-180.8	497.0	474.3	22.66	21.931	
5,700.0	5,677.3	5,675.1	5,661.1	13.0	11.8	134.13	-333.3	-184.1	507.0	483.9	23.09	21.963	
5,800.0	5,776.8	5,774.6	5,760.3	13.2	12.1	134.14	-340.1	-187.4	517.0	493.5	23.51	21.994	
5,900.0	5,876.3	5,874.1	5,859.5	13.5	12.3	134.15	-346.9	-190.8	527.1	503.1	23.93	22.024	
6,000.0	5,975.8	5,973.6	5,958.8	13.7	12.5	134.16	-353.8	-194.1	537.1	512.7	24.35	22.052	
6,100.0	6,075.3	6,073.1	6,058.0	13.9	12.7	134.16	-360.6	-197.4	547.1	522.3	24.78	22.080	
6,200.0	6,174.9	6,172.6	6,157.2	14.2	12.9	134.17	-367.4	-200.7	557.1	531.9	25.20	22.107	
6,300.0	6,274.4	6,272.1	6,256.4	14.4	13.2	134.18	-374.3	-204.0	567.1	541.5	25.62	22.133	
6,400.0	6,373.9	6,371.6	6,355.6	14.7	13.4	134.19	-381.1	-207.3	577.1	551.1	26.05	22.158	
6,500.0	6,473.4	6,471.1	6,454.8	14.9	13.6	134.20	-388.0	-210.6	587.2	560.7	26.47	22.182	
6,600.0	6,572.9	6,570.6	6,554.0	15.2	13.8	134.21	-394.8	-214.0	597.2	570.3	26.89	22.205	
6,700.0	6,672.6	6,668.8	6,652.0	15.3	14.0	-140.77	-398.4	-217.2	607.2	580.0	27.17	22.344	
6,800.0	6,771.6	6,766.7	6,749.4	15.4	14.0	-107.44	-389.3	-220.5	617.1	589.8	27.21	22.676	
6,900.0	6,867.9	6,865.1	6,845.1	15.4	14.0	-99.21	-366.8	-223.7	626.7	599.7	27.05	23.169	
7,000.0	6,959.7	6,964.0	6,937.2	15.3	13.8	-95.55	-331.3	-226.8	635.9	609.2	26.74	23.782	
7,100.0	7,045.1	7,063.4	7,024.0	15.1	13.7	-93.44	-283.1	-229.7	644.5	618.1	26.36	24.453	
7,200.0	7,122.6	7,163.4	7,103.8	15.0	13.5	-92.09	-223.0	-232.3	652.3	626.3	25.99	25.094	
7,300.0	7,190.6	7,263.9	7,174.8	14.9	13.4	-91.17	-151.9	-234.7	659.2	633.4	25.76	25.587	
7,400.0	7,247.8	7,365.1	7,235.4	15.0	13.4	-90.55	-71.1	-236.7	665.0	639.2	25.77	25.803	
7,500.0	7,293.1	7,466.8	7,284.4	15.1	13.6	-90.16	18.0	-238.4	669.6	643.5	26.12	25.634	
7,600.0	7,325.6	7,569.1	7,320.4	15.5	13.9	-89.95	113.6	-239.6	673.0	646.1	26.87	25.041	
7,700.0	7,344.7	7,671.8	7,342.5	16.0	14.5	-89.90	213.8	-240.3	675.0	646.9	28.05	24.066	
7,800.0	7,350.0	7,774.9	7,350.0	16.7	15.3	-90.00	316.5	-240.6	675.6	646.0	29.60	22.823	
7,900.0	7,350.0	7,874.9	7,350.0	17.5	16.2	-90.00	416.6	-240.6	675.6	644.1	31.48	21.460	
8,000.0	7,350.0	7,974.9	7,350.0	18.5	17.2	-90.00	516.6	-240.6	675.6	641.9	33.61	20.102	
8,100.0	7,350.0	8,074.9	7,350.0	19.5	18.4	-90.00	616.6	-240.6	675.6	639.6	35.95	18.791	
8,200.0	7,350.0	8,174.9	7,350.0	20.7	19.6	-90.00	716.6	-240.6	675.6	637.1	38.47	17.559	
8,300.0	7,350.0	8,274.9	7,350.0	22.0	20.9	-90.00	816.6	-240.6	675.6	634.4	41.14	16.421	
8,400.0	7,350.0	8,374.9	7,350.0	23.3	22.3	-90.00	916.6	-240.6	675.6	631.6	43.93	15.379	
8,500.0	7,350.0	8,474.9	7,350.0	24.6	23.7	-90.00	1,016.6	-240.6	675.6	628.7	46.81	14.432	
8,600.0	7,350.0	8,574.9	7,350.0	26.0	25.2	-90.00	1,116.6	-240.6	675.6	625.8	49.77	13.573	
8,700.0	7,350.0	8,674.9	7,350.0	27.5	26.7	-90.00	1,216.6	-240.6	675.6	622.7	52.80	12.794	
8,800.0	7,350.0	8,774.9	7,350.0	29.0	28.2	-90.00	1,316.6	-240.6	675.6	619.7	55.89	12.088	
8,900.0	7,350.0	8,874.9	7,350.0	30.5	29.8	-90.00	1,416.6	-240.6	675.6	616.5	59.02	11.446	
9,000.0	7,350.0	8,974.9	7,350.0	32.0	31.3	-90.00	1,516.6	-240.6	675.6	613.4	62.20	10.862	
9,100.0	7,350.0	9,074.9	7,350.0	33.6	32.9	-90.00	1,616.6	-240.6	675.6	610.1	65.40	10.329	
9,200.0	7,350.0	9,174.9	7,350.0	35.2	34.5	-90.00	1,716.6	-240.6	675.6	606.9	68.64	9.842	
9,300.0	7,350.0	9,274.9	7,350.0	36.8	36.1	-90.00	1,816.6	-240.6	675.6	603.6	71.90	9.395	
9,400.0	7,350.0	9,374.9	7,350.0	38.4	37.8	-90.00	1,916.6	-240.6	675.6	600.4	75.19	8.985	
9,500.0	7,350.0	9,474.9	7,350.0	40.0	39.4	-90.00	2,016.6	-240.6	675.6	597.1	78.49	8.607	
9,600.0	7,350.0	9,574.9	7,350.0	41.6	41.1	-90.00	2,116.6	-240.6	675.6	593.7	81.81	8.257	
9,700.0	7,350.0	9,674.9	7,350.0	43.3	42.7	-90.00	2,216.6	-240.6	675.6	590.4	85.15	7.934	
9,800.0	7,350.0	9,774.9	7,350.0	44.9	44.4	-90.00	2,316.6	-240.6	675.6	587.1	88.50	7.634	
9,900.0	7,350.0	9,874.9	7,350.0	46.6	46.1	-90.00	2,416.6	-240.6	675.6	583.7	91.86	7.354	
10,000.0	7,350.0	9,974.9	7,350.0	48.2	47.8	-90.00	2,516.6	-240.6	675.6	580.3	95.23	7.094	
10,100.0	7,350.0	10,074.9	7,350.0	49.9	49.4	-90.00	2,616.6	-240.6	675.6	576.9	98.61	6.851	
10,200.0	7,350.0	10,174.9	7,350.0	51.6	51.1	-90.00	2,716.6	-240.6	675.6	573.5	102.00	6.623	
10,300.0	7,350.0	10,274.9	7,350.0	53.3	52.8	-90.00	2,816.6	-240.6	675.5	570.2	105.40	6.409	

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 4H-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 4H-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	7,350.0	10,374.9	7,350.0	54.9	54.5	-90.00	2,916.6	-240.6	675.5	566.7	108.80	6.209	
10,500.0	7,350.0	10,474.9	7,350.0	56.6	56.2	-90.00	3,016.6	-240.6	675.5	563.3	112.21	6.020	
10,600.0	7,350.0	10,574.9	7,350.0	58.3	57.9	-90.00	3,116.6	-240.6	675.5	559.9	115.63	5.842	
10,700.0	7,350.0	10,674.9	7,350.0	60.0	59.6	-90.00	3,216.6	-240.5	675.5	556.5	119.05	5.674	
10,800.0	7,350.0	10,774.9	7,350.0	61.7	61.4	-90.00	3,316.6	-240.5	675.5	553.1	122.48	5.516	
10,900.0	7,350.0	10,874.9	7,350.0	63.4	63.1	-90.00	3,416.6	-240.5	675.5	549.6	125.91	5.365	
11,000.0	7,350.0	10,974.9	7,350.0	65.1	64.8	-90.00	3,516.6	-240.5	675.5	546.2	129.35	5.223	
11,100.0	7,350.0	11,074.9	7,350.0	66.8	66.5	-90.00	3,616.6	-240.5	675.5	542.8	132.79	5.087	
11,200.0	7,350.0	11,174.9	7,350.0	68.5	68.2	-90.00	3,716.6	-240.5	675.5	539.3	136.23	4.959	
11,300.0	7,350.0	11,274.9	7,350.0	70.3	69.9	-90.00	3,816.6	-240.5	675.5	535.9	139.68	4.837	
11,400.0	7,350.0	11,374.9	7,350.0	72.0	71.7	-90.00	3,916.6	-240.5	675.5	532.4	143.12	4.720	
11,500.0	7,350.0	11,474.9	7,350.0	73.7	73.4	-90.00	4,016.6	-240.5	675.5	529.0	146.58	4.609	
11,600.0	7,350.0	11,574.9	7,350.0	75.4	75.1	-90.00	4,116.6	-240.5	675.5	525.5	150.03	4.503	
11,700.0	7,350.0	11,674.9	7,350.0	77.1	76.8	-90.00	4,216.6	-240.5	675.5	522.1	153.49	4.401	
11,800.0	7,350.0	11,774.9	7,350.0	78.8	78.6	-90.00	4,316.6	-240.5	675.5	518.6	156.95	4.304	
11,892.7	7,350.0	11,867.7	7,350.0	80.4	80.2	-90.00	4,409.3	-240.5	675.5	515.4	160.16	4.218	SF

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-88.59	0.4	-14.8	14.8				
100.0	100.0	100.0	100.0	0.2	0.2	-88.59	0.4	-14.8	14.8	14.5	0.30	48.782	
200.0	200.0	200.0	200.0	0.3	0.3	-88.59	0.4	-14.8	14.8	14.2	0.65	22.695	
300.0	300.0	300.0	300.0	0.5	0.5	-88.59	0.4	-14.8	14.8	13.8	1.00	14.788	
400.0	400.0	400.0	400.0	0.7	0.7	-88.59	0.4	-14.8	14.8	13.5	1.35	10.966	
500.0	500.0	500.0	500.0	0.8	0.8	-88.59	0.4	-14.8	14.8	13.1	1.70	8.715	
600.0	600.0	600.0	600.0	1.0	1.0	-88.59	0.4	-14.8	14.8	12.8	2.05	7.230	CC, ES
700.0	700.0	700.0	700.0	1.2	1.2	136.80	0.4	-14.8	15.4	13.0	2.40	6.438	
800.0	800.0	800.0	800.0	1.4	1.4	142.68	0.4	-14.8	17.4	14.7	2.75	6.347	
900.0	899.9	899.9	899.9	1.6	1.5	149.87	0.4	-14.8	21.1	18.0	3.10	6.805	
1,000.0	999.7	999.7	999.7	1.7	1.7	156.48	0.4	-14.8	26.5	23.1	3.45	7.702	
1,100.0	1,099.4	1,099.4	1,099.4	2.0	1.9	161.76	0.4	-14.8	33.9	30.1	3.79	8.934	
1,200.0	1,198.9	1,198.9	1,198.9	2.2	2.1	165.70	0.4	-14.8	43.0	38.8	4.14	10.384	
1,300.0	1,298.4	1,298.4	1,298.4	2.4	2.2	168.34	0.4	-14.8	52.5	48.0	4.49	11.708	
1,400.0	1,398.0	1,398.0	1,398.0	2.6	2.4	170.16	0.4	-14.8	62.1	57.3	4.83	12.858	
1,500.0	1,497.5	1,497.5	1,497.5	2.8	2.6	171.50	0.4	-14.8	71.8	66.6	5.18	13.862	
1,600.0	1,597.0	1,597.9	1,597.9	3.1	2.8	172.07	-0.5	-14.8	81.0	75.5	5.53	14.644	
1,700.0	1,696.5	1,698.5	1,698.4	3.3	2.9	171.64	-3.1	-14.8	89.1	83.2	5.88	15.141	
1,800.0	1,796.0	1,799.2	1,799.1	3.5	3.1	170.45	-7.4	-14.8	96.1	89.9	6.24	15.399	
1,900.0	1,895.5	1,900.0	1,899.7	3.8	3.3	168.62	-13.6	-14.8	102.1	95.5	6.61	15.462	
2,000.0	1,995.1	2,000.8	2,000.2	4.0	3.5	166.22	-21.5	-14.8	107.3	100.3	6.98	15.368	
2,100.0	2,094.6	2,100.6	2,099.6	4.2	3.7	163.69	-30.2	-14.8	112.2	104.8	7.36	15.230	
2,200.0	2,194.1	2,200.3	2,198.9	4.5	3.9	161.38	-38.8	-14.9	117.2	109.5	7.76	15.117	
2,300.0	2,293.6	2,300.1	2,298.3	4.7	4.1	159.26	-47.5	-14.9	122.5	114.3	8.15	15.022	
2,400.0	2,393.1	2,399.9	2,397.7	5.0	4.3	157.32	-56.2	-14.9	127.9	119.4	8.56	14.942	
2,500.0	2,492.7	2,499.6	2,497.1	5.2	4.5	155.54	-64.8	-14.9	133.5	124.5	8.97	14.875	
2,600.0	2,592.2	2,599.4	2,596.5	5.4	4.7	153.90	-73.5	-14.9	139.1	129.7	9.39	14.817	
2,700.0	2,691.7	2,699.1	2,695.9	5.7	4.9	152.40	-82.2	-14.9	144.9	135.1	9.81	14.768	
2,800.0	2,791.2	2,798.9	2,795.3	5.9	5.1	151.00	-90.9	-14.9	150.8	140.5	10.24	14.727	
2,900.0	2,890.7	2,898.7	2,894.6	6.2	5.4	149.72	-99.5	-14.9	156.7	146.0	10.67	14.691	
3,000.0	2,990.3	2,998.4	2,994.0	6.4	5.6	148.52	-108.2	-14.9	162.7	151.6	11.10	14.661	
3,100.0	3,089.8	3,098.2	3,093.4	6.6	5.8	147.41	-116.9	-14.9	168.8	157.3	11.53	14.635	
3,200.0	3,189.3	3,198.0	3,192.8	6.9	6.0	146.38	-125.5	-15.0	174.9	163.0	11.97	14.613	
3,300.0	3,288.8	3,297.7	3,292.2	7.1	6.2	145.42	-134.2	-15.0	181.1	168.7	12.41	14.594	
3,400.0	3,388.3	3,397.5	3,391.6	7.4	6.4	144.53	-142.9	-15.0	187.4	174.5	12.85	14.578	
3,500.0	3,487.9	3,497.3	3,491.0	7.6	6.7	143.69	-151.5	-15.0	193.7	180.4	13.30	14.565	
3,600.0	3,587.4	3,597.0	3,590.3	7.9	6.9	142.90	-160.2	-15.0	200.0	186.2	13.74	14.554	
3,700.0	3,686.9	3,696.8	3,689.7	8.1	7.1	142.17	-168.9	-15.0	206.3	192.1	14.19	14.545	
3,800.0	3,786.4	3,796.5	3,789.1	8.3	7.3	141.47	-177.5	-15.0	212.7	198.1	14.63	14.537	
3,900.0	3,885.9	3,896.3	3,888.5	8.6	7.6	140.82	-186.2	-15.0	219.1	204.1	15.08	14.531	
4,000.0	3,985.4	3,996.1	3,987.9	8.8	7.8	140.20	-194.9	-15.0	225.6	210.1	15.53	14.526	
4,100.0	4,085.0	4,095.8	4,087.3	9.1	8.0	139.62	-203.5	-15.1	232.1	216.1	15.98	14.523	
4,200.0	4,184.5	4,195.6	4,186.7	9.3	8.2	139.07	-212.2	-15.1	238.5	222.1	16.43	14.520	
4,300.0	4,284.0	4,295.4	4,286.1	9.6	8.4	138.55	-220.9	-15.1	245.1	228.2	16.88	14.518	
4,400.0	4,383.5	4,395.1	4,385.4	9.8	8.7	138.06	-229.5	-15.1	251.6	234.3	17.33	14.517	
4,500.0	4,483.0	4,494.9	4,484.8	10.0	8.9	137.59	-238.2	-15.1	258.1	240.4	17.78	14.516	
4,600.0	4,582.6	4,594.7	4,584.2	10.3	9.1	137.14	-246.9	-15.1	264.7	246.5	18.23	14.517	
4,700.0	4,682.1	4,694.4	4,683.6	10.5	9.3	136.72	-255.5	-15.1	271.3	252.6	18.69	14.517	
4,800.0	4,781.6	4,794.2	4,783.0	10.8	9.6	136.32	-264.2	-15.1	277.9	258.7	19.14	14.518	
4,900.0	4,881.1	4,893.9	4,882.4	11.0	9.8	135.93	-272.9	-15.1	284.5	264.9	19.59	14.520	
5,000.0	4,980.6	4,993.7	4,981.8	11.3	10.0	135.56	-281.5	-15.1	291.1	271.1	20.05	14.521	
5,100.0	5,080.2	5,093.5	5,081.1	11.5	10.3	135.21	-290.2	-15.2	297.7	277.2	20.50	14.524	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,179.7	5,193.2	5,180.5	11.7	10.5	134.88	-298.9	-15.2	304.4	283.4	20.95	14.526	
5,300.0	5,279.2	5,293.0	5,279.9	12.0	10.7	134.55	-307.5	-15.2	311.0	289.6	21.41	14.528	
5,400.0	5,378.7	5,392.8	5,379.3	12.2	10.9	134.25	-316.2	-15.2	317.7	295.8	21.86	14.531	
5,500.0	5,478.2	5,492.5	5,478.7	12.5	11.2	133.95	-324.9	-15.2	324.4	302.1	22.32	14.534	
5,600.0	5,577.7	5,592.3	5,578.1	12.7	11.4	133.67	-333.5	-15.2	331.1	308.3	22.77	14.537	
5,700.0	5,677.3	5,692.1	5,677.5	13.0	11.6	133.39	-342.2	-15.2	337.7	314.5	23.23	14.540	
5,800.0	5,776.8	5,791.8	5,776.8	13.2	11.8	133.13	-350.9	-15.2	344.4	320.8	23.68	14.544	
5,900.0	5,876.3	5,891.6	5,876.2	13.5	12.1	132.88	-359.6	-15.2	351.1	327.0	24.14	14.547	
6,000.0	5,975.8	5,991.3	5,975.6	13.7	12.3	132.64	-368.2	-15.2	357.8	333.2	24.59	14.550	
6,100.0	6,075.3	6,091.1	6,075.0	13.9	12.5	132.41	-376.9	-15.3	364.6	339.5	25.05	14.554	
6,200.0	6,174.9	6,190.9	6,174.4	14.2	12.8	132.18	-385.6	-15.3	371.3	345.8	25.50	14.557	
6,300.0	6,274.4	6,290.6	6,273.8	14.4	13.0	131.96	-394.2	-15.3	378.0	352.0	25.96	14.561	
6,400.0	6,373.9	6,390.6	6,373.4	14.7	13.2	131.80	-402.6	-15.3	384.7	358.3	26.40	14.571	
6,500.0	6,473.4	6,490.6	6,473.3	14.9	13.3	133.07	-401.2	-15.3	391.4	364.7	26.65	14.687	
6,600.0	6,572.9	6,586.4	6,568.0	15.2	13.3	136.11	-386.9	-15.3	398.7	372.1	26.65	14.962	
6,700.0	6,672.6	6,677.1	6,655.0	15.3	13.2	-135.00	-361.9	-15.3	408.1	381.7	26.40	15.459	
6,800.0	6,771.6	6,764.8	6,735.6	15.4	13.0	-98.05	-327.4	-15.3	419.1	393.1	26.02	16.107	
6,900.0	6,867.9	6,850.0	6,809.3	15.4	12.9	-86.55	-284.6	-15.3	431.1	405.5	25.60	16.844	
7,000.0	6,959.7	6,933.2	6,875.9	15.3	12.7	-79.99	-234.7	-15.3	443.5	418.3	25.18	17.613	
7,100.0	7,045.1	7,014.7	6,935.0	15.1	12.6	-75.36	-178.8	-15.3	455.7	430.9	24.82	18.357	
7,200.0	7,122.6	7,094.8	6,986.6	15.0	12.5	-71.86	-117.5	-15.4	467.1	442.6	24.56	19.019	
7,300.0	7,190.6	7,173.8	7,030.4	14.9	12.5	-69.16	-51.9	-15.4	477.4	453.0	24.44	19.535	
7,400.0	7,247.8	7,250.0	7,065.6	15.0	12.6	-67.11	15.7	-15.4	486.2	461.7	24.48	19.860	
7,500.0	7,293.1	7,329.2	7,094.4	15.1	12.9	-65.59	89.4	-15.4	493.1	468.3	24.75	19.920	
7,600.0	7,325.6	7,406.1	7,114.4	15.5	13.3	-64.58	163.6	-15.4	498.0	472.7	25.26	19.711	
7,700.0	7,344.7	7,482.7	7,126.3	16.0	13.8	-64.05	239.2	-15.4	500.7	474.7	26.05	19.223	
7,800.0	7,350.0	7,560.1	7,130.0	16.7	14.4	-63.96	316.6	-15.4	501.2	474.1	27.13	18.476	
7,900.0	7,350.0	7,660.1	7,130.0	17.5	15.4	-63.96	416.6	-15.4	501.2	472.4	28.85	17.376	
8,000.0	7,350.0	7,760.1	7,130.0	18.5	16.5	-63.96	516.6	-15.4	501.2	470.5	30.78	16.286	
8,100.0	7,350.0	7,860.1	7,130.0	19.5	17.7	-63.96	616.6	-15.4	501.2	468.3	32.90	15.235	
8,200.0	7,350.0	7,960.1	7,130.0	20.7	18.9	-63.96	716.6	-15.4	501.2	466.1	35.18	14.249	
8,300.0	7,350.0	8,060.1	7,130.0	22.0	20.3	-63.96	816.6	-15.4	501.2	463.6	37.58	13.337	
8,400.0	7,350.0	8,160.1	7,130.0	23.3	21.7	-63.96	916.6	-15.4	501.2	461.1	40.09	12.502	
8,500.0	7,350.0	8,260.1	7,130.0	24.6	23.1	-63.96	1,016.6	-15.4	501.2	458.5	42.69	11.742	
8,600.0	7,350.0	8,360.1	7,130.0	26.0	24.6	-63.96	1,116.6	-15.4	501.2	455.9	45.35	11.051	
8,700.0	7,350.0	8,460.1	7,130.0	27.5	26.2	-63.96	1,216.6	-15.4	501.2	453.1	48.08	10.425	
8,800.0	7,350.0	8,560.1	7,130.0	29.0	27.7	-63.96	1,316.6	-15.4	501.2	450.4	50.86	9.856	
8,900.0	7,350.0	8,660.1	7,130.0	30.5	29.3	-63.96	1,416.6	-15.4	501.2	447.6	53.68	9.338	
9,000.0	7,350.0	8,760.1	7,130.0	32.0	30.9	-63.96	1,516.6	-15.4	501.2	444.7	56.53	8.867	
9,100.0	7,350.0	8,860.1	7,130.0	33.6	32.5	-63.96	1,616.6	-15.4	501.2	441.8	59.41	8.436	
9,200.0	7,350.0	8,960.1	7,130.0	35.2	34.1	-63.96	1,716.6	-15.4	501.2	438.9	62.33	8.042	
9,300.0	7,350.0	9,060.1	7,130.0	36.8	35.8	-63.96	1,816.6	-15.4	501.2	436.0	65.26	7.681	
9,400.0	7,350.0	9,160.1	7,130.0	38.4	37.4	-63.96	1,916.6	-15.4	501.2	433.0	68.21	7.348	
9,500.0	7,350.0	9,260.1	7,130.0	40.0	39.1	-63.96	2,016.6	-15.4	501.2	430.0	71.19	7.041	
9,600.0	7,350.0	9,360.1	7,130.0	41.6	40.7	-63.96	2,116.6	-15.4	501.2	427.1	74.17	6.758	
9,700.0	7,350.0	9,460.1	7,130.0	43.3	42.4	-63.96	2,216.6	-15.4	501.2	424.1	77.17	6.495	
9,800.0	7,350.0	9,560.1	7,130.0	44.9	44.1	-63.96	2,316.6	-15.4	501.2	421.0	80.18	6.251	
9,900.0	7,350.0	9,660.1	7,130.0	46.6	45.8	-63.96	2,416.6	-15.4	501.2	418.0	83.21	6.024	
10,000.0	7,350.0	9,760.1	7,130.0	48.2	47.5	-63.96	2,516.6	-15.4	501.2	415.0	86.24	5.812	
10,100.0	7,350.0	9,860.1	7,130.0	49.9	49.2	-63.96	2,616.6	-15.4	501.2	411.9	89.28	5.614	
10,200.0	7,350.0	9,960.1	7,130.0	51.6	50.8	-63.96	2,716.6	-15.4	501.2	408.9	92.33	5.429	
10,300.0	7,350.0	10,060.1	7,130.0	53.3	52.6	-63.96	2,816.6	-15.4	501.2	405.8	95.39	5.255	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,350.0	10,160.1	7,130.0	54.9	54.3	-63.96	2,916.6	-15.4	501.2	402.8	98.45	5.091	
10,500.0	7,350.0	10,260.1	7,130.0	56.6	56.0	-63.96	3,016.6	-15.4	501.2	399.7	101.52	4.937	
10,600.0	7,350.0	10,360.1	7,130.0	58.3	57.7	-63.96	3,116.6	-15.4	501.2	396.6	104.59	4.792	
10,700.0	7,350.0	10,460.1	7,130.0	60.0	59.4	-63.96	3,216.6	-15.4	501.2	393.6	107.67	4.655	
10,800.0	7,350.0	10,560.1	7,130.0	61.7	61.1	-63.96	3,316.6	-15.4	501.2	390.5	110.75	4.526	
10,900.0	7,350.0	10,660.1	7,130.0	63.4	62.8	-63.96	3,416.6	-15.4	501.2	387.4	113.84	4.403	
11,000.0	7,350.0	10,760.1	7,130.0	65.1	64.5	-63.96	3,516.6	-15.4	501.2	384.3	116.93	4.287	
11,100.0	7,350.0	10,860.1	7,130.0	66.8	66.3	-63.96	3,616.6	-15.4	501.2	381.2	120.02	4.176	
11,200.0	7,350.0	10,960.1	7,130.0	68.5	68.0	-63.96	3,716.6	-15.4	501.2	378.1	123.12	4.071	
11,300.0	7,350.0	11,060.1	7,130.0	70.3	69.7	-63.96	3,816.6	-15.4	501.2	375.0	126.22	3.971	
11,400.0	7,350.0	11,160.1	7,130.0	72.0	71.4	-63.96	3,916.6	-15.4	501.2	371.9	129.32	3.876	
11,500.0	7,350.0	11,260.1	7,130.0	73.7	73.2	-63.96	4,016.6	-15.4	501.2	368.8	132.43	3.785	
11,600.0	7,350.0	11,360.1	7,130.0	75.4	74.9	-63.96	4,116.6	-15.4	501.2	365.7	135.53	3.698	
11,700.0	7,350.0	11,460.1	7,130.0	77.1	76.6	-63.96	4,216.6	-15.4	501.2	362.6	138.64	3.615	
11,800.0	7,350.0	11,560.1	7,130.0	78.8	78.4	-63.96	4,316.6	-15.4	501.2	359.5	141.76	3.536	
11,892.7	7,350.0	11,652.9	7,130.0	80.4	80.0	-63.96	4,409.3	-15.4	501.2	356.6	144.64	3.465	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	-87.30	0.4	-7.5	7.6				
100.0	100.0	100.0	100.0	0.2	0.2	-87.30	0.4	-7.5	7.6	7.2	0.30	24.871	
200.0	200.0	200.0	200.0	0.3	0.3	-87.30	0.4	-7.5	7.6	6.9	0.65	11.571	
300.0	300.0	300.0	300.0	0.5	0.5	-87.30	0.4	-7.5	7.6	6.6	1.00	7.539	
400.0	400.0	400.0	400.0	0.7	0.7	-87.30	0.4	-7.5	7.6	6.2	1.35	5.591	
500.0	500.0	500.0	500.0	0.8	0.8	-87.30	0.4	-7.5	7.6	5.9	1.70	4.443	
600.0	600.0	600.0	600.0	1.0	1.0	-87.30	0.4	-7.5	7.6	5.5	2.05	3.686	CC, ES
700.0	700.0	700.0	700.0	1.2	1.2	140.03	0.4	-7.5	8.2	5.8	2.40	3.420	
800.0	800.0	800.1	800.1	1.4	1.4	145.55	-0.4	-7.2	9.8	7.0	2.75	3.562	
900.0	899.9	900.2	900.1	1.6	1.6	147.46	-2.8	-6.1	11.8	8.7	3.10	3.804	
1,000.0	999.7	1,000.3	1,000.1	1.7	1.7	147.13	-6.8	-4.2	14.2	10.7	3.46	4.096	
1,100.0	1,099.4	1,100.4	1,100.1	2.0	1.9	145.51	-12.3	-1.6	16.9	13.1	3.82	4.418	
1,200.0	1,198.9	1,200.5	1,199.9	2.2	2.1	143.27	-19.3	1.7	20.0	15.8	4.20	4.752	
1,300.0	1,298.4	1,300.4	1,299.5	2.4	2.3	141.40	-26.7	5.2	23.1	18.5	4.60	5.036	
1,400.0	1,398.0	1,400.4	1,399.1	2.6	2.5	139.98	-34.0	8.6	26.3	21.3	4.99	5.272	
1,500.0	1,497.5	1,500.3	1,498.7	2.8	2.7	138.87	-41.3	12.1	29.5	24.1	5.40	5.469	
1,600.0	1,597.0	1,600.3	1,598.3	3.1	2.9	137.97	-48.7	15.5	32.7	26.9	5.81	5.637	
1,700.0	1,696.5	1,700.2	1,697.9	3.3	3.2	137.24	-56.0	19.0	36.0	29.7	6.22	5.779	
1,800.0	1,796.0	1,800.2	1,797.6	3.5	3.4	136.62	-63.4	22.4	39.2	32.5	6.64	5.902	
1,900.0	1,895.5	1,900.1	1,897.2	3.8	3.6	136.10	-70.7	25.9	42.4	35.3	7.05	6.009	
2,000.0	1,995.1	2,000.1	1,996.8	4.0	3.8	135.65	-78.0	29.4	45.6	38.1	7.47	6.103	
2,100.0	2,094.6	2,100.0	2,096.4	4.2	4.0	135.27	-85.4	32.8	48.8	41.0	7.90	6.186	
2,200.0	2,194.1	2,200.0	2,196.0	4.5	4.2	134.93	-92.7	36.3	52.1	43.8	8.32	6.259	
2,300.0	2,293.6	2,299.9	2,295.6	4.7	4.5	134.63	-100.1	39.7	55.3	46.6	8.75	6.324	
2,400.0	2,393.1	2,399.9	2,395.3	5.0	4.7	134.36	-107.4	43.2	58.5	49.4	9.17	6.383	
2,500.0	2,492.7	2,499.8	2,494.9	5.2	4.9	134.12	-114.8	46.6	61.8	52.2	9.60	6.436	
2,600.0	2,592.2	2,599.7	2,594.5	5.4	5.1	133.90	-122.1	50.1	65.0	55.0	10.03	6.484	
2,700.0	2,691.7	2,699.7	2,694.1	5.7	5.3	133.71	-129.4	53.5	68.2	57.8	10.46	6.528	
2,800.0	2,791.2	2,799.6	2,793.7	5.9	5.6	133.53	-136.8	57.0	71.5	60.6	10.88	6.568	
2,900.0	2,890.7	2,899.6	2,893.4	6.2	5.8	133.37	-144.1	60.4	74.7	63.4	11.31	6.604	
3,000.0	2,990.3	2,999.5	2,993.0	6.4	6.0	133.22	-151.5	63.9	78.0	66.2	11.74	6.638	
3,100.0	3,089.8	3,099.5	3,092.6	6.6	6.2	133.08	-158.8	67.4	81.2	69.0	12.18	6.669	
3,200.0	3,189.3	3,199.4	3,192.2	6.9	6.5	132.96	-166.1	70.8	84.4	71.8	12.61	6.698	
3,300.0	3,288.8	3,299.4	3,291.8	7.1	6.7	132.84	-173.5	74.3	87.7	74.6	13.04	6.724	
3,400.0	3,388.3	3,399.3	3,391.4	7.4	6.9	132.73	-180.8	77.7	90.9	77.4	13.47	6.749	
3,500.0	3,487.9	3,499.3	3,491.1	7.6	7.1	132.63	-188.2	81.2	94.2	80.3	13.90	6.772	
3,600.0	3,587.4	3,599.2	3,590.7	7.9	7.3	132.54	-195.5	84.6	97.4	83.1	14.34	6.794	
3,700.0	3,686.9	3,699.2	3,690.3	8.1	7.6	132.45	-202.9	88.1	100.6	85.9	14.77	6.814	
3,800.0	3,786.4	3,799.1	3,789.9	8.3	7.8	132.37	-210.2	91.5	103.9	88.7	15.20	6.833	
3,900.0	3,885.9	3,899.1	3,889.5	8.6	8.0	132.29	-217.5	95.0	107.1	91.5	15.64	6.851	
4,000.0	3,985.4	3,999.0	3,989.1	8.8	8.2	132.22	-224.9	98.5	110.4	94.3	16.07	6.868	
4,100.0	4,085.0	4,099.0	4,088.8	9.1	8.5	132.15	-232.2	101.9	113.6	97.1	16.50	6.884	
4,200.0	4,184.5	4,198.9	4,188.4	9.3	8.7	132.08	-239.6	105.4	116.8	99.9	16.94	6.899	
4,300.0	4,284.0	4,298.9	4,288.0	9.6	8.9	132.02	-246.9	108.8	120.1	102.7	17.37	6.913	
4,400.0	4,383.5	4,398.8	4,387.6	9.8	9.1	131.96	-254.2	112.3	123.3	105.5	17.80	6.927	
4,500.0	4,483.0	4,498.7	4,487.2	10.0	9.4	131.91	-261.6	115.7	126.6	108.3	18.24	6.940	
4,600.0	4,582.6	4,598.7	4,586.9	10.3	9.6	131.85	-268.9	119.2	129.8	111.1	18.67	6.952	
4,700.0	4,682.1	4,698.6	4,686.5	10.5	9.8	131.80	-276.3	122.6	133.1	113.9	19.11	6.963	
4,800.0	4,781.6	4,798.6	4,786.1	10.8	10.0	131.76	-283.6	126.1	136.3	116.8	19.54	6.974	
4,900.0	4,881.1	4,898.5	4,885.7	11.0	10.3	131.71	-291.0	129.5	139.5	119.6	19.98	6.985	
5,000.0	4,980.6	4,998.5	4,985.3	11.3	10.5	131.67	-298.3	133.0	142.8	122.4	20.41	6.995	
5,100.0	5,080.2	5,098.4	5,084.9	11.5	10.7	131.63	-305.6	136.5	146.0	125.2	20.85	7.005	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,179.7	5,198.4	5,184.6	11.7	10.9	131.59	-313.0	139.9	149.3	128.0	21.28	7.014	
5,300.0	5,279.2	5,298.3	5,284.2	12.0	11.1	131.55	-320.3	143.4	152.5	130.8	21.72	7.023	
5,400.0	5,378.7	5,398.3	5,383.8	12.2	11.4	131.51	-327.7	146.8	155.8	133.6	22.15	7.031	
5,500.0	5,478.2	5,498.2	5,483.4	12.5	11.6	131.48	-335.0	150.3	159.0	136.4	22.59	7.039	
5,600.0	5,577.7	5,598.2	5,583.0	12.7	11.8	131.44	-342.3	153.7	162.2	139.2	23.02	7.047	
5,700.0	5,677.3	5,698.1	5,682.6	13.0	12.0	131.41	-349.7	157.2	165.5	142.0	23.46	7.054	
5,800.0	5,776.8	5,798.1	5,782.3	13.2	12.3	131.38	-357.0	160.6	168.7	144.8	23.89	7.061	
5,900.0	5,876.3	5,898.0	5,881.9	13.5	12.5	131.35	-364.4	164.1	172.0	147.6	24.33	7.068	
6,000.0	5,975.8	5,998.0	5,981.5	13.7	12.7	131.32	-371.7	167.6	175.2	150.4	24.77	7.075	
6,100.0	6,075.3	6,097.9	6,081.1	13.9	12.9	131.29	-379.0	171.0	178.5	153.3	25.20	7.081	
6,200.0	6,174.9	6,197.9	6,180.7	14.2	13.2	131.27	-386.4	174.5	181.7	156.1	25.64	7.087	
6,300.0	6,274.4	6,297.8	6,280.3	14.4	13.4	131.24	-393.7	177.9	184.9	158.9	26.07	7.093	
6,400.0	6,373.9	6,397.7	6,380.0	14.7	13.6	131.22	-401.1	181.4	188.2	161.7	26.51	7.099	
6,500.0	6,473.4	6,498.0	6,480.0	14.9	13.8	131.68	-406.8	184.8	191.4	164.5	26.87	7.123	
6,600.0	6,572.9	6,596.9	6,578.5	15.2	13.9	135.61	-400.6	188.3	194.8	168.0	26.77	7.275	
6,700.0	6,672.6	6,691.9	6,671.6	15.3	13.8	-133.68	-381.9	191.5	200.1	173.8	26.27	7.617	
6,800.0	6,771.6	6,784.5	6,759.1	15.4	13.7	-95.16	-351.9	194.5	207.3	181.6	25.69	8.072	
6,900.0	6,867.9	6,874.9	6,840.1	15.4	13.6	-82.37	-312.0	197.3	215.9	190.7	25.14	8.586	
7,000.0	6,959.7	6,963.4	6,913.9	15.3	13.4	-74.78	-263.4	199.9	225.1	200.5	24.69	9.120	
7,100.0	7,045.1	7,050.0	6,979.8	15.1	13.3	-69.39	-207.4	202.2	234.5	210.2	24.33	9.640	
7,200.0	7,122.6	7,135.9	7,038.1	15.0	13.2	-65.30	-144.3	204.2	243.4	219.4	24.07	10.114	
7,300.0	7,190.6	7,220.4	7,087.6	14.9	13.2	-62.19	-76.0	205.9	251.6	227.7	23.92	10.516	
7,400.0	7,247.8	7,300.0	7,126.6	15.0	13.3	-59.90	-6.6	207.3	258.6	234.7	23.89	10.824	
7,500.0	7,293.1	7,386.8	7,160.0	15.1	13.5	-58.14	73.4	208.4	264.1	240.0	24.04	10.983	
7,600.0	7,325.6	7,469.1	7,182.6	15.5	13.9	-57.02	152.5	209.2	268.0	243.6	24.39	10.987	
7,700.0	7,344.7	7,550.0	7,195.9	16.0	14.4	-56.43	232.3	209.7	270.2	245.2	24.96	10.824	
7,800.0	7,350.0	7,634.5	7,200.0	16.7	15.1	-56.33	316.6	209.8	270.6	244.7	25.86	10.461	
7,900.0	7,350.0	7,734.5	7,200.0	17.5	16.0	-56.33	416.6	209.8	270.6	243.1	27.46	9.853	
8,000.0	7,350.0	7,834.5	7,200.0	18.5	17.0	-56.33	516.6	209.8	270.6	241.3	29.25	9.249	
8,100.0	7,350.0	7,934.5	7,200.0	19.5	18.2	-56.33	616.6	209.8	270.6	239.4	31.22	8.667	
8,200.0	7,350.0	8,034.5	7,200.0	20.7	19.4	-56.33	716.6	209.8	270.6	237.2	33.33	8.119	
8,300.0	7,350.0	8,134.5	7,200.0	22.0	20.7	-56.33	816.6	209.8	270.6	235.0	35.55	7.611	
8,400.0	7,350.0	8,234.5	7,200.0	23.3	22.1	-56.33	916.6	209.8	270.6	232.7	37.87	7.145	
8,500.0	7,350.0	8,334.5	7,200.0	24.6	23.6	-56.33	1,016.6	209.8	270.6	230.3	40.27	6.719	
8,600.0	7,350.0	8,434.5	7,200.0	26.0	25.0	-56.33	1,116.6	209.8	270.6	227.8	42.73	6.331	
8,700.0	7,350.0	8,534.5	7,200.0	27.5	26.5	-56.33	1,216.6	209.8	270.6	225.3	45.25	5.979	
8,800.0	7,350.0	8,634.5	7,200.0	29.0	28.1	-56.33	1,316.6	209.8	270.6	222.7	47.82	5.658	
8,900.0	7,350.0	8,734.5	7,200.0	30.5	29.6	-56.33	1,416.6	209.8	270.6	220.1	50.43	5.366	
9,000.0	7,350.0	8,834.5	7,200.0	32.0	31.2	-56.33	1,516.6	209.8	270.6	217.5	53.07	5.099	
9,100.0	7,350.0	8,934.5	7,200.0	33.6	32.8	-56.33	1,616.6	209.8	270.6	214.8	55.74	4.855	
9,200.0	7,350.0	9,034.5	7,200.0	35.2	34.4	-56.33	1,716.6	209.8	270.6	212.1	58.43	4.631	
9,300.0	7,350.0	9,134.5	7,200.0	36.8	36.0	-56.33	1,816.6	209.8	270.6	209.4	61.14	4.425	
9,400.0	7,350.0	9,234.5	7,200.0	38.4	37.7	-56.33	1,916.6	209.8	270.6	206.7	63.88	4.236	
9,500.0	7,350.0	9,334.5	7,200.0	40.0	39.3	-56.33	2,016.6	209.8	270.6	203.9	66.63	4.061	
9,600.0	7,350.0	9,434.5	7,200.0	41.6	41.0	-56.33	2,116.6	209.8	270.6	201.2	69.39	3.899	
9,700.0	7,350.0	9,534.5	7,200.0	43.3	42.6	-56.33	2,216.6	209.8	270.6	198.4	72.17	3.749	
9,800.0	7,350.0	9,634.5	7,200.0	44.9	44.3	-56.33	2,316.6	209.8	270.6	195.6	74.96	3.610	
9,900.0	7,350.0	9,734.5	7,200.0	46.6	46.0	-56.33	2,416.6	209.8	270.6	192.8	77.76	3.480	
10,000.0	7,350.0	9,834.5	7,200.0	48.2	47.7	-56.33	2,516.6	209.8	270.6	190.0	80.57	3.358	
10,100.0	7,350.0	9,934.5	7,200.0	49.9	49.4	-56.33	2,616.6	209.8	270.6	187.2	83.38	3.245	
10,200.0	7,350.0	10,034.5	7,200.0	51.6	51.1	-56.33	2,716.6	209.8	270.6	184.4	86.21	3.139	
10,300.0	7,350.0	10,134.5	7,200.0	53.3	52.7	-56.33	2,816.6	209.8	270.6	181.5	89.04	3.039	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,350.0	10,234.5	7,200.0	54.9	54.4	-56.33	2,916.6	209.8	270.6	178.7	91.87	2.945	
10,500.0	7,350.0	10,334.5	7,200.0	56.6	56.2	-56.33	3,016.6	209.8	270.6	175.9	94.72	2.857	
10,600.0	7,350.0	10,434.5	7,200.0	58.3	57.9	-56.33	3,116.6	209.8	270.6	173.0	97.56	2.773	
10,700.0	7,350.0	10,534.5	7,200.0	60.0	59.6	-56.33	3,216.6	209.8	270.6	170.2	100.42	2.694	
10,800.0	7,350.0	10,634.5	7,200.0	61.7	61.3	-56.33	3,316.6	209.8	270.6	167.3	103.27	2.620	
10,900.0	7,350.0	10,734.5	7,200.0	63.4	63.0	-56.33	3,416.6	209.8	270.6	164.4	106.13	2.549	
11,000.0	7,350.0	10,834.5	7,200.0	65.1	64.7	-56.33	3,516.6	209.8	270.6	161.6	109.00	2.482	
11,100.0	7,350.0	10,934.5	7,200.0	66.8	66.4	-56.33	3,616.6	209.8	270.6	158.7	111.86	2.419	
11,200.0	7,350.0	11,034.5	7,200.0	68.5	68.1	-56.33	3,716.6	209.8	270.6	155.8	114.73	2.358	
11,300.0	7,350.0	11,134.5	7,200.0	70.3	69.9	-56.33	3,816.6	209.8	270.6	153.0	117.61	2.301	
11,400.0	7,350.0	11,234.5	7,200.0	72.0	71.6	-56.33	3,916.6	209.8	270.6	150.1	120.48	2.246	
11,500.0	7,350.0	11,334.5	7,200.0	73.7	73.3	-56.33	4,016.6	209.8	270.6	147.2	123.36	2.193	
11,600.0	7,350.0	11,434.5	7,200.0	75.4	75.0	-56.33	4,116.6	209.8	270.6	144.3	126.24	2.143	
11,700.0	7,350.0	11,534.5	7,200.0	77.1	76.8	-56.33	4,216.6	209.8	270.6	141.4	129.12	2.095	
11,800.0	7,350.0	11,634.5	7,200.0	78.8	78.5	-56.33	4,316.6	209.8	270.6	138.6	132.01	2.050	
11,892.7	7,350.0	11,727.2	7,200.0	80.4	80.1	-56.33	4,409.3	209.8	270.6	135.9	134.68	2.009	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	90.06	0.0	7.5	7.5				
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	7.5	7.5	7.2	0.30	24.844	
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	7.5	7.5	6.9	0.65	11.558	
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	7.5	7.5	6.5	1.00	7.531	
400.0	400.0	400.0	400.0	0.7	0.7	90.06	0.0	7.5	7.5	6.2	1.35	5.585	
500.0	500.0	500.0	500.0	0.8	0.8	90.06	0.0	7.5	7.5	5.8	1.70	4.438	CC, ES
600.0	600.0	599.9	599.9	1.0	1.0	93.45	-0.5	8.3	8.3	6.2	2.05	4.042	
700.0	700.0	699.7	699.7	1.2	1.2	-39.21	-2.0	10.4	9.9	7.5	2.40	4.137	
800.0	800.0	799.5	799.4	1.4	1.4	-37.80	-4.4	14.0	11.8	9.0	2.75	4.291	
900.0	899.9	899.3	899.0	1.6	1.6	-38.15	-7.8	19.0	13.9	10.8	3.10	4.470	
1,000.0	999.7	999.1	998.4	1.7	1.8	-39.57	-12.2	25.5	16.2	12.7	3.47	4.661	
1,100.0	1,099.4	1,098.8	1,097.7	2.0	2.0	-41.62	-17.6	33.4	18.7	14.8	3.84	4.860	
1,200.0	1,198.9	1,198.4	1,196.7	2.2	2.2	-43.78	-23.9	42.7	21.5	17.3	4.23	5.083	
1,300.0	1,298.4	1,298.1	1,295.5	2.4	2.5	-43.98	-31.2	53.4	25.5	20.9	4.62	5.518	
1,400.0	1,398.0	1,398.0	1,394.5	2.6	2.8	-43.73	-38.6	64.4	29.9	24.9	5.02	5.951	
1,500.0	1,497.5	1,497.9	1,493.6	2.8	3.0	-43.53	-46.1	75.4	34.3	28.8	5.42	6.318	
1,600.0	1,597.0	1,597.8	1,592.6	3.1	3.3	-43.39	-53.6	86.4	38.6	32.8	5.83	6.630	
1,700.0	1,696.5	1,697.7	1,691.6	3.3	3.6	-43.27	-61.1	97.5	43.0	36.8	6.23	6.901	
1,800.0	1,796.0	1,797.6	1,790.6	3.5	3.8	-43.17	-68.6	108.5	47.4	40.7	6.64	7.136	
1,900.0	1,895.5	1,897.5	1,889.6	3.8	4.1	-43.09	-76.1	119.5	51.7	44.7	7.05	7.343	
2,000.0	1,995.1	1,997.4	1,988.6	4.0	4.4	-43.02	-83.6	130.5	56.1	48.6	7.45	7.526	
2,100.0	2,094.6	2,097.3	2,087.6	4.2	4.7	-42.97	-91.1	141.5	60.5	52.6	7.86	7.689	
2,200.0	2,194.1	2,197.2	2,186.6	4.5	5.0	-42.92	-98.5	152.6	64.8	56.6	8.28	7.835	
2,300.0	2,293.6	2,297.1	2,285.6	4.7	5.3	-42.87	-106.0	163.6	69.2	60.5	8.69	7.966	
2,400.0	2,393.1	2,397.0	2,384.7	5.0	5.5	-42.83	-113.5	174.6	73.6	64.5	9.10	8.086	
2,500.0	2,492.7	2,496.9	2,483.7	5.2	5.8	-42.80	-121.0	185.6	77.9	68.4	9.51	8.194	
2,600.0	2,592.2	2,596.9	2,582.7	5.4	6.1	-42.77	-128.5	196.6	82.3	72.4	9.93	8.293	
2,700.0	2,691.7	2,696.8	2,681.7	5.7	6.4	-42.74	-136.0	207.7	86.7	76.3	10.34	8.384	
2,800.0	2,791.2	2,796.7	2,780.7	5.9	6.7	-42.72	-143.5	218.7	91.1	80.3	10.75	8.467	
2,900.0	2,890.7	2,896.6	2,879.7	6.2	7.0	-42.69	-151.0	229.7	95.4	84.3	11.17	8.544	
3,000.0	2,990.3	2,996.5	2,978.7	6.4	7.3	-42.67	-158.5	240.7	99.8	88.2	11.58	8.615	
3,100.0	3,089.8	3,096.4	3,077.7	6.6	7.5	-42.65	-165.9	251.7	104.2	92.2	12.00	8.682	
3,200.0	3,189.3	3,196.3	3,176.8	6.9	7.8	-42.64	-173.4	262.8	108.5	96.1	12.41	8.743	
3,300.0	3,288.8	3,296.2	3,275.8	7.1	8.1	-42.62	-180.9	273.8	112.9	100.1	12.83	8.801	
3,400.0	3,388.3	3,396.1	3,374.8	7.4	8.4	-42.60	-188.4	284.8	117.3	104.0	13.24	8.854	
3,500.0	3,487.9	3,496.0	3,473.8	7.6	8.7	-42.59	-195.9	295.8	121.6	108.0	13.66	8.905	
3,600.0	3,587.4	3,595.9	3,572.8	7.9	9.0	-42.58	-203.4	306.8	126.0	111.9	14.08	8.952	
3,700.0	3,686.9	3,695.8	3,671.8	8.1	9.3	-42.57	-210.9	317.9	130.4	115.9	14.49	8.997	
3,800.0	3,786.4	3,795.7	3,770.8	8.3	9.6	-42.55	-218.4	328.9	134.8	119.8	14.91	9.038	
3,900.0	3,885.9	3,895.6	3,869.8	8.6	9.9	-42.54	-225.9	339.9	139.1	123.8	15.33	9.078	
4,000.0	3,985.4	3,995.5	3,968.9	8.8	10.2	-42.53	-233.3	350.9	143.5	127.8	15.74	9.115	
4,100.0	4,085.0	4,095.4	4,067.9	9.1	10.4	-42.53	-240.8	361.9	147.9	131.7	16.16	9.151	
4,200.0	4,184.5	4,195.3	4,166.9	9.3	10.7	-42.52	-248.3	372.9	152.2	135.7	16.57	9.184	
4,300.0	4,284.0	4,295.2	4,265.9	9.6	11.0	-42.51	-255.8	384.0	156.6	139.6	16.99	9.216	
4,400.0	4,383.5	4,395.1	4,364.9	9.8	11.3	-42.50	-263.3	395.0	161.0	143.6	17.41	9.247	
4,500.0	4,483.0	4,495.0	4,463.9	10.0	11.6	-42.49	-270.8	406.0	165.3	147.5	17.83	9.276	
4,600.0	4,582.6	4,594.9	4,562.9	10.3	11.9	-42.49	-278.3	417.0	169.7	151.5	18.24	9.303	
4,700.0	4,682.1	4,694.8	4,661.9	10.5	12.2	-42.48	-285.8	428.0	174.1	155.4	18.66	9.329	
4,800.0	4,781.6	4,794.8	4,761.0	10.8	12.5	-42.47	-293.2	439.1	178.4	159.4	19.08	9.354	
4,900.0	4,881.1	4,894.7	4,860.0	11.0	12.8	-42.47	-300.7	450.1	182.8	163.3	19.49	9.378	
5,000.0	4,980.6	4,994.6	4,959.0	11.3	13.1	-42.46	-308.2	461.1	187.2	167.3	19.91	9.401	
5,100.0	5,080.2	5,094.5	5,058.0	11.5	13.3	-42.46	-315.7	472.1	191.6	171.2	20.33	9.423	

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 4H-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 4H-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	5,179.7	5,194.4	5,157.0	11.7	13.6	-42.45	-323.2	483.1	195.9	175.2	20.75	9.444	
5,300.0	5,279.2	5,294.3	5,256.0	12.0	13.9	-42.45	-330.7	494.2	200.3	179.1	21.16	9.465	
5,400.0	5,378.7	5,394.2	5,355.0	12.2	14.2	-42.44	-338.2	505.2	204.7	183.1	21.58	9.484	
5,500.0	5,478.2	5,494.1	5,454.0	12.5	14.5	-42.44	-345.7	516.2	209.0	187.0	22.00	9.503	
5,600.0	5,577.7	5,594.0	5,553.0	12.7	14.8	-42.43	-353.2	527.2	213.4	191.0	22.42	9.521	
5,700.0	5,677.3	5,693.9	5,652.1	13.0	15.1	-42.43	-360.6	538.2	217.8	194.9	22.83	9.538	
5,800.0	5,776.8	5,793.8	5,751.1	13.2	15.4	-42.42	-368.1	549.3	222.1	198.9	23.25	9.555	
5,900.0	5,876.3	5,893.7	5,850.1	13.5	15.7	-42.42	-375.6	560.3	226.5	202.8	23.67	9.571	
6,000.0	5,975.8	5,993.6	5,949.1	13.7	16.0	-42.42	-383.1	571.3	230.9	206.8	24.09	9.586	
6,100.0	6,075.3	6,093.5	6,048.1	13.9	16.3	-42.41	-390.6	582.3	235.3	210.8	24.50	9.601	
6,200.0	6,174.9	6,193.4	6,147.1	14.2	16.5	-42.41	-398.1	593.3	239.6	214.7	24.92	9.616	
6,300.0	6,274.4	6,293.3	6,246.1	14.4	16.8	-42.41	-405.6	604.4	244.0	218.7	25.34	9.629	
6,400.0	6,373.9	6,393.2	6,345.1	14.7	17.1	-42.40	-413.1	615.4	248.4	222.6	25.76	9.643	
6,500.0	6,473.4	6,495.2	6,446.3	14.9	17.4	-43.48	-415.9	626.6	252.4	226.1	26.29	9.601	
6,600.0	6,572.9	6,594.5	6,544.4	15.2	17.5	-47.54	-405.0	637.4	256.2	229.1	27.18	9.427	
6,700.0	6,672.6	6,689.0	6,635.5	15.3	17.5	31.19	-382.1	647.2	262.0	233.9	28.15	9.308	
6,800.0	6,771.6	6,780.6	6,720.1	15.4	17.5	58.60	-348.6	656.3	270.0	241.2	28.73	9.396	
6,900.0	6,867.9	6,869.6	6,797.7	15.4	17.5	61.48	-305.8	664.5	279.4	250.5	28.84	9.686	
7,000.0	6,959.7	6,956.4	6,867.8	15.3	17.4	60.44	-255.1	671.8	289.6	261.1	28.49	10.164	
7,100.0	7,045.1	7,041.4	6,929.9	15.1	17.4	58.49	-197.6	678.2	300.0	272.3	27.74	10.815	
7,200.0	7,122.6	7,124.8	6,984.0	15.0	17.3	56.42	-134.4	683.6	310.1	283.4	26.71	11.609	
7,300.0	7,190.6	7,207.0	7,029.7	14.9	17.4	54.53	-66.3	688.1	319.3	293.7	25.56	12.489	
7,400.0	7,247.8	7,288.1	7,067.0	15.0	17.5	52.93	5.6	691.6	327.2	302.7	24.58	13.313	
7,500.0	7,293.1	7,368.4	7,095.7	15.1	17.7	51.65	80.5	694.1	333.6	309.8	23.85	13.988	
7,600.0	7,325.6	7,450.0	7,116.1	15.5	18.0	50.69	159.5	695.7	338.2	314.5	23.72	14.255	
7,700.0	7,344.7	7,527.3	7,127.1	16.0	18.4	50.11	236.0	696.2	340.8	316.4	24.33	14.003	
7,800.0	7,350.0	7,610.3	7,130.0	16.7	18.9	49.85	318.8	695.8	341.2	315.6	25.67	13.294	
7,900.0	7,350.0	7,710.3	7,130.0	17.5	19.6	49.76	418.8	695.0	340.6	313.5	27.07	12.583	
8,000.0	7,350.0	7,810.3	7,130.0	18.5	20.5	49.66	518.8	694.1	339.9	311.3	28.64	11.868	
8,100.0	7,350.0	7,910.3	7,130.0	19.5	21.5	49.57	618.8	693.2	339.2	308.9	30.37	11.171	
8,200.0	7,350.0	8,010.3	7,130.0	20.7	22.5	49.47	718.8	692.3	338.6	306.4	32.22	10.510	
8,300.0	7,350.0	8,110.3	7,130.0	22.0	23.7	49.38	818.8	691.5	337.9	303.7	34.16	9.891	
8,400.0	7,350.0	8,210.3	7,130.0	23.3	24.9	49.28	918.8	690.6	337.2	301.1	36.20	9.317	
8,500.0	7,350.0	8,310.3	7,130.0	24.6	26.1	49.18	1,018.8	689.7	336.6	298.3	38.30	8.788	
8,600.0	7,350.0	8,410.3	7,130.0	26.0	27.5	49.09	1,118.8	688.9	335.9	295.5	40.46	8.303	
8,700.0	7,350.0	8,510.3	7,130.0	27.5	28.8	48.99	1,218.8	688.0	335.3	292.6	42.66	7.859	
8,800.0	7,350.0	8,610.3	7,130.0	29.0	30.3	48.89	1,318.8	687.1	334.6	289.7	44.90	7.452	
8,900.0	7,350.0	8,710.3	7,130.0	30.5	31.7	48.79	1,418.8	686.2	334.0	286.8	47.17	7.079	
9,000.0	7,350.0	8,810.3	7,130.0	32.0	33.2	48.69	1,518.8	685.4	333.3	283.8	49.47	6.737	
9,100.0	7,350.0	8,910.2	7,130.0	33.6	34.7	48.59	1,618.7	684.5	332.6	280.9	51.79	6.423	
9,200.0	7,350.0	9,010.2	7,130.0	35.2	36.2	48.49	1,718.7	683.6	332.0	277.9	54.13	6.134	
9,300.0	7,350.0	9,110.2	7,130.0	36.8	37.8	48.39	1,818.7	682.7	331.3	274.9	56.48	5.867	
9,400.0	7,350.0	9,210.2	7,130.0	38.4	39.3	48.29	1,918.7	681.9	330.7	271.8	58.84	5.620	
9,500.0	7,350.0	9,310.2	7,130.0	40.0	40.9	48.19	2,018.7	681.0	330.0	268.8	61.20	5.392	
9,600.0	7,350.0	9,410.2	7,130.0	41.6	42.5	48.09	2,118.7	680.1	329.4	265.8	63.58	5.181	
9,700.0	7,350.0	9,510.2	7,130.0	43.3	44.1	47.99	2,218.7	679.3	328.7	262.8	65.96	4.984	
9,800.0	7,350.0	9,610.2	7,130.0	44.9	45.7	47.89	2,318.7	678.4	328.1	259.7	68.34	4.801	
9,900.0	7,350.0	9,710.2	7,130.0	46.6	47.3	47.79	2,418.7	677.5	327.4	256.7	70.73	4.630	
10,000.0	7,350.0	9,810.2	7,130.0	48.2	49.0	47.68	2,518.7	676.6	326.8	253.7	73.11	4.470	
10,100.0	7,350.0	9,910.2	7,130.0	49.9	50.6	47.58	2,618.7	675.8	326.1	250.7	75.49	4.320	
10,200.0	7,350.0	10,010.2	7,130.0	51.6	52.3	47.48	2,718.7	674.9	325.5	247.6	77.88	4.180	
10,300.0	7,350.0	10,110.2	7,130.0	53.3	53.9	47.37	2,818.7	674.0	324.9	244.6	80.26	4.048	

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 4H-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 4H-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
10,400.0	7,350.0	10,210.2	7,130.0	54.9	55.6	47.27	2,918.7	673.1	324.2	241.6	82.64	3.923	
10,500.0	7,350.0	10,310.2	7,130.0	56.6	57.2	47.16	3,018.6	672.3	323.6	238.6	85.01	3.806	
10,600.0	7,350.0	10,410.2	7,130.0	58.3	58.9	47.06	3,118.6	671.4	322.9	235.6	87.38	3.696	
10,700.0	7,350.0	10,510.2	7,130.0	60.0	60.6	46.95	3,218.6	670.5	322.3	232.6	89.75	3.591	
10,800.0	7,350.0	10,610.2	7,130.0	61.7	62.3	46.85	3,318.6	669.7	321.7	229.6	92.11	3.492	
10,900.0	7,350.0	10,710.2	7,130.0	63.4	64.0	46.74	3,418.6	668.8	321.0	226.6	94.47	3.398	
11,000.0	7,350.0	10,810.2	7,130.0	65.1	65.6	46.63	3,518.6	667.9	320.4	223.6	96.82	3.309	
11,100.0	7,350.0	10,910.2	7,130.0	66.8	67.3	46.53	3,618.6	667.0	319.8	220.6	99.16	3.225	
11,200.0	7,350.0	11,010.2	7,130.0	68.5	69.0	46.42	3,718.6	666.2	319.1	217.6	101.50	3.144	
11,300.0	7,350.0	11,110.2	7,130.0	70.3	70.7	46.31	3,818.6	665.3	318.5	214.7	103.83	3.067	
11,400.0	7,350.0	11,210.2	7,130.0	72.0	72.4	46.20	3,918.6	664.4	317.9	211.7	106.15	2.994	
11,500.0	7,350.0	11,310.2	7,130.0	73.7	74.1	46.09	4,018.6	663.5	317.2	208.8	108.47	2.925	
11,600.0	7,350.0	11,410.2	7,130.0	75.4	75.8	45.98	4,118.6	662.7	316.6	205.8	110.78	2.858	
11,700.0	7,350.0	11,510.1	7,130.0	77.1	77.6	45.87	4,218.6	661.8	316.0	202.9	113.08	2.794	
11,800.0	7,350.0	11,610.1	7,130.0	78.8	79.3	45.76	4,318.5	660.9	315.4	200.0	115.37	2.733	
11,871.4	7,350.0	11,681.5	7,130.0	80.1	80.5	45.68	4,389.9	660.3	314.9	197.9	117.00	2.691	
11,892.7	7,350.0	11,695.8	7,130.0	80.4	80.7	45.67	4,404.2	660.2	314.9	197.4	117.42	2.682	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	90.06	0.0	15.1	15.1				
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	15.1	15.1	14.8	0.30	49.687	
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	15.1	15.1	14.4	0.65	23.117	
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	15.1	15.1	14.1	1.00	15.062	
400.0	400.0	400.0	400.0	0.7	0.7	90.06	0.0	15.1	15.1	13.7	1.35	11.170	CC, ES
500.0	500.0	499.8	499.8	0.8	0.9	91.61	-0.4	15.8	15.9	14.2	1.70	9.328	
600.0	600.0	599.5	599.4	1.0	1.0	95.45	-1.7	18.1	18.2	16.2	2.05	8.885	
700.0	700.0	699.1	698.9	1.2	1.2	-38.27	-3.9	21.9	21.6	19.2	2.40	8.986	
800.0	800.0	798.6	798.3	1.4	1.4	-37.00	-6.9	27.1	25.2	22.4	2.75	9.162	
900.0	899.9	898.1	897.5	1.6	1.6	-36.97	-10.7	33.9	29.1	26.0	3.10	9.368	
1,000.0	999.7	997.5	996.4	1.7	1.8	-37.74	-15.4	42.2	33.2	29.7	3.46	9.585	
1,100.0	1,099.4	1,096.8	1,095.1	2.0	2.1	-39.04	-20.9	51.9	37.6	33.8	3.83	9.803	
1,200.0	1,198.9	1,196.1	1,193.5	2.2	2.3	-40.56	-27.2	63.1	42.3	38.1	4.22	10.039	
1,300.0	1,298.4	1,295.5	1,291.9	2.4	2.6	-41.30	-34.4	75.7	48.3	43.7	4.61	10.477	
1,400.0	1,398.0	1,395.3	1,390.6	2.6	2.9	-41.75	-41.7	88.6	54.5	49.5	5.01	10.886	
1,500.0	1,497.5	1,495.1	1,489.3	2.8	3.2	-42.12	-48.9	101.4	60.7	55.3	5.41	11.227	
1,600.0	1,597.0	1,594.9	1,588.0	3.1	3.5	-42.42	-56.2	114.3	66.9	61.1	5.81	11.514	
1,700.0	1,696.5	1,694.7	1,686.7	3.3	3.8	-42.66	-63.5	127.1	73.1	66.9	6.22	11.759	
1,800.0	1,796.0	1,794.6	1,785.4	3.5	4.1	-42.87	-70.8	140.0	79.4	72.7	6.63	11.970	
1,900.0	1,895.5	1,894.4	1,884.1	3.8	4.4	-43.05	-78.1	152.9	85.6	78.5	7.04	12.153	
2,000.0	1,995.1	1,994.2	1,982.8	4.0	4.7	-43.20	-85.4	165.7	91.8	84.3	7.45	12.314	
2,100.0	2,094.6	2,094.0	2,081.5	4.2	5.0	-43.33	-92.7	178.6	98.0	90.1	7.87	12.456	
2,200.0	2,194.1	2,193.8	2,180.3	4.5	5.3	-43.45	-100.0	191.4	104.2	95.9	8.28	12.582	
2,300.0	2,293.6	2,293.6	2,279.0	4.7	5.6	-43.56	-107.2	204.3	110.5	101.8	8.70	12.694	
2,400.0	2,393.1	2,393.4	2,377.7	5.0	5.9	-43.65	-114.5	217.2	116.7	107.6	9.12	12.795	
2,500.0	2,492.7	2,493.2	2,476.4	5.2	6.2	-43.73	-121.8	230.0	122.9	113.4	9.54	12.887	
2,600.0	2,592.2	2,593.0	2,575.1	5.4	6.5	-43.81	-129.1	242.9	129.1	119.2	9.95	12.969	
2,700.0	2,691.7	2,692.8	2,673.8	5.7	6.8	-43.88	-136.4	255.7	135.3	125.0	10.37	13.045	
2,800.0	2,791.2	2,792.6	2,772.5	5.9	7.1	-43.94	-143.7	268.6	141.5	130.8	10.79	13.114	
2,900.0	2,890.7	2,892.4	2,871.2	6.2	7.5	-44.00	-151.0	281.5	147.8	136.6	11.21	13.177	
3,000.0	2,990.3	2,992.2	2,969.9	6.4	7.8	-44.05	-158.3	294.3	154.0	142.4	11.63	13.235	
3,100.0	3,089.8	3,092.0	3,068.6	6.6	8.1	-44.10	-165.5	307.2	160.2	148.2	12.06	13.289	
3,200.0	3,189.3	3,191.8	3,167.3	6.9	8.4	-44.14	-172.8	320.0	166.4	153.9	12.48	13.339	
3,300.0	3,288.8	3,291.6	3,266.0	7.1	8.7	-44.19	-180.1	332.9	172.6	159.7	12.90	13.385	
3,400.0	3,388.3	3,391.5	3,364.7	7.4	9.0	-44.23	-187.4	345.7	178.9	165.5	13.32	13.428	
3,500.0	3,487.9	3,491.3	3,463.4	7.6	9.3	-44.26	-194.7	358.6	185.1	171.3	13.74	13.468	
3,600.0	3,587.4	3,591.1	3,562.1	7.9	9.6	-44.30	-202.0	371.5	191.3	177.1	14.16	13.506	
3,700.0	3,686.9	3,690.9	3,660.8	8.1	9.9	-44.33	-209.3	384.3	197.5	182.9	14.59	13.541	
3,800.0	3,786.4	3,790.7	3,759.5	8.3	10.3	-44.36	-216.6	397.2	203.7	188.7	15.01	13.574	
3,900.0	3,885.9	3,890.5	3,858.3	8.6	10.6	-44.39	-223.8	410.0	210.0	194.5	15.43	13.606	
4,000.0	3,985.4	3,990.3	3,957.0	8.8	10.9	-44.41	-231.1	422.9	216.2	200.3	15.86	13.635	
4,100.0	4,085.0	4,090.1	4,055.7	9.1	11.2	-44.44	-238.4	435.8	222.4	206.1	16.28	13.663	
4,200.0	4,184.5	4,189.9	4,154.4	9.3	11.5	-44.46	-245.7	448.6	228.6	211.9	16.70	13.689	
4,300.0	4,284.0	4,289.7	4,253.1	9.6	11.8	-44.48	-253.0	461.5	234.9	217.7	17.13	13.714	
4,400.0	4,383.5	4,389.5	4,351.8	9.8	12.1	-44.51	-260.3	474.3	241.1	223.5	17.55	13.737	
4,500.0	4,483.0	4,489.3	4,450.5	10.0	12.4	-44.53	-267.6	487.2	247.3	229.3	17.97	13.759	
4,600.0	4,582.6	4,589.1	4,549.2	10.3	12.7	-44.54	-274.9	500.1	253.5	235.1	18.40	13.781	
4,700.0	4,682.1	4,688.9	4,647.9	10.5	13.1	-44.56	-282.1	512.9	259.7	240.9	18.82	13.801	
4,800.0	4,781.6	4,788.7	4,746.6	10.8	13.4	-44.58	-289.4	525.8	266.0	246.7	19.24	13.820	
4,900.0	4,881.1	4,888.5	4,845.3	11.0	13.7	-44.60	-296.7	538.6	272.2	252.5	19.67	13.839	
5,000.0	4,980.6	4,988.4	4,944.0	11.3	14.0	-44.61	-304.0	551.5	278.4	258.3	20.09	13.856	
5,100.0	5,080.2	5,088.2	5,042.7	11.5	14.3	-44.63	-311.3	564.3	284.6	264.1	20.52	13.873	

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 4H-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 4H-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	5,179.7	5,188.0	5,141.4	11.7	14.6	-44.64	-318.6	577.2	290.8	269.9	20.94	13.889	
5,300.0	5,279.2	5,287.8	5,240.1	12.0	14.9	-44.66	-325.9	590.1	297.1	275.7	21.36	13.904	
5,400.0	5,378.7	5,387.6	5,338.8	12.2	15.2	-44.67	-333.2	602.9	303.3	281.5	21.79	13.919	
5,500.0	5,478.2	5,487.4	5,437.5	12.5	15.6	-44.68	-340.4	615.8	309.5	287.3	22.21	13.933	
5,600.0	5,577.7	5,587.2	5,536.3	12.7	15.9	-44.70	-347.7	628.6	315.7	293.1	22.64	13.947	
5,700.0	5,677.3	5,687.0	5,635.0	13.0	16.2	-44.71	-355.0	641.5	321.9	298.9	23.06	13.960	
5,800.0	5,776.8	5,786.8	5,733.7	13.2	16.5	-44.72	-362.3	654.4	328.2	304.7	23.49	13.972	
5,900.0	5,876.3	5,886.6	5,832.4	13.5	16.8	-44.73	-369.6	667.2	334.4	310.5	23.91	13.984	
6,000.0	5,975.8	5,986.4	5,931.1	13.7	17.1	-44.74	-376.9	680.1	340.6	316.3	24.34	13.996	
6,100.0	6,075.3	6,086.2	6,029.8	13.9	17.4	-44.75	-384.2	692.9	346.8	322.1	24.76	14.007	
6,200.0	6,174.9	6,186.0	6,128.5	14.2	17.7	-44.76	-391.5	705.8	353.0	327.9	25.19	14.018	
6,300.0	6,274.4	6,285.8	6,227.2	14.4	18.1	-44.77	-398.7	718.7	359.3	333.7	25.61	14.029	
6,400.0	6,373.9	6,385.6	6,325.9	14.7	18.4	-44.78	-406.0	731.5	365.5	339.5	26.03	14.039	
6,500.0	6,473.4	6,485.4	6,424.6	14.9	18.7	-44.79	-413.3	744.4	371.7	345.3	26.46	14.048	
6,600.0	6,572.9	6,586.2	6,524.4	15.2	18.9	-45.60	-415.4	757.4	377.8	350.9	26.96	14.016	
6,700.0	6,672.6	6,685.0	6,621.7	15.3	19.1	36.47	-403.8	770.0	384.1	356.5	27.55	13.939	
6,800.0	6,771.6	6,782.1	6,714.7	15.4	19.2	66.89	-379.4	782.2	390.7	362.8	27.87	14.017	
6,900.0	6,867.9	6,877.5	6,802.2	15.4	19.2	72.40	-343.2	793.6	397.6	369.7	27.90	14.250	
7,000.0	6,959.7	6,971.5	6,883.0	15.3	19.2	73.58	-296.4	804.1	404.4	376.8	27.65	14.626	
7,100.0	7,045.1	7,064.2	6,956.1	15.1	19.2	73.46	-240.3	813.6	411.1	383.9	27.19	15.121	
7,200.0	7,122.6	7,155.8	7,020.6	15.0	19.2	72.87	-175.9	822.0	417.3	390.7	26.61	15.686	
7,300.0	7,190.6	7,246.4	7,075.9	14.9	19.2	72.15	-104.5	829.2	423.0	396.9	26.04	16.243	
7,400.0	7,247.8	7,336.3	7,121.5	15.0	19.3	71.44	-27.4	835.2	427.8	402.2	25.65	16.682	
7,500.0	7,293.1	7,425.5	7,156.9	15.1	19.5	70.83	54.3	839.8	431.8	406.1	25.65	16.834	
7,600.0	7,325.6	7,514.3	7,181.9	15.5	19.8	70.36	139.3	843.0	434.6	408.5	26.12	16.642	
7,700.0	7,344.7	7,600.0	7,196.0	16.0	20.2	70.06	223.8	844.9	436.4	409.3	27.13	16.082	
7,800.0	7,350.0	7,692.9	7,200.0	16.7	20.7	69.92	316.6	845.4	436.9	408.2	28.72	15.214	
7,900.0	7,350.0	7,792.9	7,200.0	17.5	21.4	69.92	416.6	845.4	436.9	406.5	30.46	14.345	
8,000.0	7,350.0	7,892.9	7,200.0	18.5	22.2	69.92	516.6	845.4	436.9	404.5	32.44	13.469	
8,100.0	7,350.0	7,992.9	7,200.0	19.5	23.1	69.92	616.6	845.4	436.9	402.3	34.62	12.620	
8,200.0	7,350.0	8,092.9	7,200.0	20.7	24.1	69.92	716.6	845.4	436.9	400.0	36.97	11.819	
8,300.0	7,350.0	8,192.9	7,200.0	22.0	25.1	69.92	816.6	845.4	436.9	397.5	39.45	11.075	
8,400.0	7,350.0	8,292.9	7,200.0	23.3	26.3	69.92	916.6	845.4	436.9	394.9	42.05	10.391	
8,500.0	7,350.0	8,392.9	7,200.0	24.6	27.5	69.92	1,016.6	845.4	436.9	392.2	44.74	9.766	
8,600.0	7,350.0	8,492.9	7,200.0	26.0	28.8	69.92	1,116.6	845.4	436.9	389.4	47.50	9.198	
8,700.0	7,350.0	8,592.9	7,200.0	27.5	30.1	69.92	1,216.6	845.4	436.9	386.6	50.33	8.681	
8,800.0	7,350.0	8,692.9	7,200.0	29.0	31.4	69.92	1,316.6	845.4	436.9	383.7	53.22	8.211	
8,900.0	7,350.0	8,792.9	7,200.0	30.5	32.8	69.92	1,416.6	845.4	436.9	380.8	56.15	7.782	
9,000.0	7,350.0	8,892.9	7,200.0	32.0	34.3	69.92	1,516.6	845.4	436.9	377.8	59.11	7.391	
9,100.0	7,350.0	8,992.9	7,200.0	33.6	35.7	69.92	1,616.6	845.4	436.9	374.8	62.12	7.034	
9,200.0	7,350.0	9,092.9	7,200.0	35.2	37.2	69.92	1,716.6	845.4	436.9	371.8	65.15	6.707	
9,300.0	7,350.0	9,192.9	7,200.0	36.8	38.7	69.92	1,816.6	845.4	436.9	368.7	68.20	6.407	
9,400.0	7,350.0	9,292.9	7,200.0	38.4	40.3	69.92	1,916.6	845.4	436.9	365.7	71.28	6.130	
9,500.0	7,350.0	9,392.9	7,200.0	40.0	41.8	69.92	2,016.6	845.4	436.9	362.6	74.37	5.875	
9,600.0	7,350.0	9,492.9	7,200.0	41.6	43.4	69.92	2,116.6	845.4	436.9	359.5	77.48	5.639	
9,700.0	7,350.0	9,592.9	7,200.0	43.3	44.9	69.92	2,216.6	845.4	436.9	356.3	80.61	5.420	
9,800.0	7,350.0	9,692.9	7,200.0	44.9	46.5	69.92	2,316.6	845.4	436.9	353.2	83.75	5.217	
9,900.0	7,350.0	9,792.9	7,200.0	46.6	48.1	69.92	2,416.6	845.4	436.9	350.0	86.90	5.028	
10,000.0	7,350.0	9,892.9	7,200.0	48.2	49.7	69.92	2,516.6	845.4	436.9	346.9	90.06	4.851	
10,065.0	7,350.0	9,957.9	7,200.0	49.3	50.8	69.92	2,581.6	845.4	436.9	344.8	92.13	4.743	
10,100.0	7,350.0	9,990.8	7,200.0	49.9	51.3	69.92	2,614.5	845.4	437.0	343.8	93.20	4.688	
10,200.0	7,350.0	10,085.6	7,200.0	51.6	52.9	69.99	2,709.3	846.9	438.4	342.1	96.34	4.551	

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 4H-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 4H-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	7,350.0	10,185.6	7,200.0	53.3	54.5	70.07	2,809.2	848.6	440.1	340.5	99.57	4.420	
10,400.0	7,350.0	10,285.6	7,200.0	54.9	56.2	70.15	2,909.2	850.4	441.7	338.9	102.81	4.297	
10,500.0	7,350.0	10,385.5	7,200.0	56.6	57.8	70.22	3,009.2	852.2	443.4	337.3	106.06	4.181	
10,600.0	7,350.0	10,485.5	7,200.0	58.3	59.5	70.30	3,109.1	854.0	445.1	335.7	109.32	4.071	
10,700.0	7,350.0	10,585.5	7,200.0	60.0	61.2	70.38	3,209.1	855.7	446.7	334.2	112.59	3.968	
10,800.0	7,350.0	10,685.5	7,200.0	61.7	62.8	70.45	3,309.1	857.5	448.4	332.5	115.87	3.870	
10,900.0	7,350.0	10,785.5	7,200.0	63.4	64.5	70.53	3,409.0	859.3	450.1	330.9	119.15	3.777	
11,000.0	7,350.0	10,885.5	7,200.0	65.1	66.2	70.60	3,509.0	861.1	451.8	329.3	122.44	3.690	
11,100.0	7,350.0	10,985.4	7,200.0	66.8	67.9	70.68	3,609.0	862.8	453.4	327.7	125.73	3.606	
11,200.0	7,350.0	11,085.4	7,200.0	68.5	69.6	70.75	3,709.0	864.6	455.1	326.1	129.04	3.527	
11,300.0	7,350.0	11,185.4	7,200.0	70.3	71.2	70.83	3,808.9	866.4	456.8	324.4	132.34	3.452	
11,400.0	7,350.0	11,285.4	7,200.0	72.0	72.9	70.90	3,908.9	868.2	458.5	322.8	135.65	3.380	
11,500.0	7,350.0	11,385.4	7,200.0	73.7	74.6	70.97	4,008.9	869.9	460.1	321.2	138.97	3.311	
11,600.0	7,350.0	11,485.4	7,200.0	75.4	76.3	71.04	4,108.8	871.7	461.8	319.5	142.29	3.245	
11,700.0	7,350.0	11,585.4	7,200.0	77.1	78.0	71.11	4,208.8	873.5	463.5	317.9	145.62	3.183	
11,800.0	7,350.0	11,685.3	7,200.0	78.8	79.7	71.19	4,308.8	875.2	465.2	316.2	148.95	3.123	SF
11,892.7	7,350.0	11,695.7	7,200.0	80.4	79.9	71.19	4,319.1	875.4	473.9	323.3	150.64	3.146	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	90.06	0.0	22.6	22.6				
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	22.6	22.6	22.3	0.30	74.531	
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	22.6	22.6	22.0	0.65	34.675	
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	22.6	22.6	21.6	1.00	22.593	CC, ES
400.0	400.0	399.6	399.6	0.7	0.7	90.92	-0.4	23.4	23.4	22.1	1.35	17.353	
500.0	500.0	499.2	499.2	0.8	0.9	93.16	-1.4	25.8	25.9	24.2	1.70	15.215	
600.0	600.0	598.6	598.5	1.0	1.0	96.07	-3.2	29.8	30.0	27.9	2.05	14.617	
700.0	700.0	698.0	697.6	1.2	1.2	-38.73	-5.6	35.3	35.1	32.7	2.40	14.645	
800.0	800.0	797.2	796.6	1.4	1.4	-38.05	-8.7	42.4	40.6	37.8	2.75	14.770	
900.0	899.9	896.3	895.2	1.6	1.7	-38.29	-12.5	51.0	46.4	43.3	3.10	14.947	
1,000.0	999.7	995.3	993.6	1.7	1.9	-39.15	-17.0	61.2	52.5	49.0	3.46	15.148	
1,100.0	1,099.4	1,094.1	1,091.6	2.0	2.2	-40.42	-22.2	72.9	58.9	55.0	3.83	15.356	
1,200.0	1,198.9	1,192.9	1,189.3	2.2	2.5	-41.90	-28.0	86.2	65.7	61.5	4.22	15.582	
1,300.0	1,298.4	1,291.4	1,286.5	2.4	2.8	-42.84	-34.6	100.9	74.0	69.4	4.61	16.044	
1,400.0	1,398.0	1,390.4	1,383.9	2.6	3.1	-43.26	-41.7	117.0	83.6	78.6	5.01	16.685	
1,500.0	1,497.5	1,490.0	1,481.8	2.8	3.4	-43.56	-48.9	133.3	93.3	87.9	5.41	17.242	
1,600.0	1,597.0	1,589.5	1,579.8	3.1	3.8	-43.81	-56.0	149.6	103.1	97.2	5.82	17.712	
1,700.0	1,696.5	1,689.0	1,677.7	3.3	4.1	-44.01	-63.2	165.9	112.8	106.6	6.23	18.113	
1,800.0	1,796.0	1,788.5	1,775.6	3.5	4.5	-44.18	-70.4	182.2	122.5	115.9	6.64	18.458	
1,900.0	1,895.5	1,888.1	1,873.5	3.8	4.8	-44.32	-77.6	198.5	132.3	125.2	7.05	18.759	
2,000.0	1,995.1	1,987.6	1,971.4	4.0	5.2	-44.45	-84.8	214.8	142.0	134.6	7.47	19.022	
2,100.0	2,094.6	2,087.1	2,069.3	4.2	5.5	-44.56	-92.0	231.2	151.8	143.9	7.88	19.254	
2,200.0	2,194.1	2,186.6	2,167.2	4.5	5.9	-44.66	-99.2	247.5	161.5	153.2	8.30	19.460	
2,300.0	2,293.6	2,286.2	2,265.2	4.7	6.2	-44.74	-106.4	263.8	171.2	162.5	8.72	19.645	
2,400.0	2,393.1	2,385.7	2,363.1	5.0	6.6	-44.82	-113.6	280.1	181.0	171.9	9.14	19.811	
2,500.0	2,492.7	2,485.2	2,461.0	5.2	6.9	-44.89	-120.8	296.4	190.7	181.2	9.56	19.960	
2,600.0	2,592.2	2,584.7	2,558.9	5.4	7.3	-44.95	-128.0	312.7	200.5	190.5	9.98	20.096	
2,700.0	2,691.7	2,684.2	2,656.8	5.7	7.6	-45.00	-135.2	329.0	210.2	199.8	10.40	20.220	
2,800.0	2,791.2	2,783.8	2,754.7	5.9	8.0	-45.05	-142.4	345.3	220.0	209.2	10.82	20.333	
2,900.0	2,890.7	2,883.3	2,852.6	6.2	8.4	-45.10	-149.6	361.6	229.7	218.5	11.24	20.437	
3,000.0	2,990.3	2,982.8	2,950.6	6.4	8.7	-45.14	-156.8	377.9	239.5	227.8	11.66	20.533	
3,100.0	3,089.8	3,082.3	3,048.5	6.6	9.1	-45.18	-164.0	394.2	249.2	237.1	12.08	20.622	
3,200.0	3,189.3	3,181.9	3,146.4	6.9	9.4	-45.22	-171.1	410.5	258.9	246.4	12.51	20.704	
3,300.0	3,288.8	3,281.4	3,244.3	7.1	9.8	-45.25	-178.3	426.8	268.7	255.8	12.93	20.780	
3,400.0	3,388.3	3,380.9	3,342.2	7.4	10.1	-45.29	-185.5	443.1	278.4	265.1	13.35	20.851	
3,500.0	3,487.9	3,480.4	3,440.1	7.6	10.5	-45.32	-192.7	459.4	288.2	274.4	13.78	20.917	
3,600.0	3,587.4	3,580.0	3,538.1	7.9	10.9	-45.34	-199.9	475.7	297.9	283.7	14.20	20.979	
3,700.0	3,686.9	3,679.5	3,636.0	8.1	11.2	-45.37	-207.1	492.0	307.7	293.0	14.63	21.037	
3,800.0	3,786.4	3,779.0	3,733.9	8.3	11.6	-45.39	-214.3	508.4	317.4	302.4	15.05	21.092	
3,900.0	3,885.9	3,878.5	3,831.8	8.6	11.9	-45.42	-221.5	524.7	327.2	311.7	15.47	21.143	
4,000.0	3,985.4	3,978.1	3,929.7	8.8	12.3	-45.44	-228.7	541.0	336.9	321.0	15.90	21.192	
4,100.0	4,085.0	4,077.6	4,027.6	9.1	12.7	-45.46	-235.9	557.3	346.7	330.3	16.32	21.237	
4,200.0	4,184.5	4,177.1	4,125.5	9.3	13.0	-45.48	-243.1	573.6	356.4	339.7	16.75	21.280	
4,300.0	4,284.0	4,276.6	4,223.5	9.6	13.4	-45.49	-250.3	589.9	366.1	349.0	17.17	21.321	
4,400.0	4,383.5	4,376.2	4,321.4	9.8	13.7	-45.51	-257.5	606.2	375.9	358.3	17.60	21.360	
4,500.0	4,483.0	4,475.7	4,419.3	10.0	14.1	-45.53	-264.7	622.5	385.6	367.6	18.02	21.397	
4,600.0	4,582.6	4,575.2	4,517.2	10.3	14.4	-45.54	-271.9	638.8	395.4	376.9	18.45	21.432	
4,700.0	4,682.1	4,674.7	4,615.1	10.5	14.8	-45.56	-279.0	655.1	405.1	386.3	18.87	21.466	
4,800.0	4,781.6	4,774.2	4,713.0	10.8	15.2	-45.57	-286.2	671.4	414.9	395.6	19.30	21.497	
4,900.0	4,881.1	4,873.8	4,811.0	11.0	15.5	-45.59	-293.4	687.7	424.6	404.9	19.72	21.528	
5,000.0	4,980.6	4,973.3	4,908.9	11.3	15.9	-45.60	-300.6	704.0	434.4	414.2	20.15	21.557	
5,100.0	5,080.2	5,072.8	5,006.8	11.5	16.2	-45.61	-307.8	720.3	444.1	423.5	20.58	21.584	

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 4H-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 4H-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	5,179.7	5,172.3	5,104.7	11.7	16.6	-45.62	-315.0	736.6	453.9	432.9	21.00	21.611	
5,300.0	5,279.2	5,271.9	5,202.6	12.0	17.0	-45.63	-322.2	752.9	463.6	442.2	21.43	21.636	
5,400.0	5,378.7	5,371.4	5,300.5	12.2	17.3	-45.64	-329.4	769.2	473.4	451.5	21.85	21.661	
5,500.0	5,478.2	5,470.9	5,398.4	12.5	17.7	-45.65	-336.6	785.6	483.1	460.8	22.28	21.684	
5,600.0	5,577.7	5,570.4	5,496.4	12.7	18.0	-45.66	-343.8	801.9	492.8	470.1	22.70	21.707	
5,700.0	5,677.3	5,670.0	5,594.3	13.0	18.4	-45.67	-351.0	818.2	502.6	479.5	23.13	21.728	
5,800.0	5,776.8	5,769.5	5,692.2	13.2	18.8	-45.68	-358.2	834.5	512.3	488.8	23.56	21.749	
5,900.0	5,876.3	5,869.0	5,790.1	13.5	19.1	-45.69	-365.4	850.8	522.1	498.1	23.98	21.769	
6,000.0	5,975.8	5,968.5	5,888.0	13.7	19.5	-45.70	-372.6	867.1	531.8	507.4	24.41	21.788	
6,100.0	6,075.3	6,068.1	5,985.9	13.9	19.8	-45.71	-379.8	883.4	541.6	516.7	24.84	21.807	
6,200.0	6,174.9	6,167.6	6,083.8	14.2	20.2	-45.72	-387.0	899.7	551.3	526.1	25.26	21.825	
6,300.0	6,274.4	6,267.1	6,181.8	14.4	20.5	-45.72	-394.1	916.0	561.1	535.4	25.69	21.842	
6,400.0	6,373.9	6,366.6	6,279.7	14.7	20.9	-45.73	-401.3	932.3	570.8	544.7	26.11	21.859	
6,500.0	6,473.4	6,466.2	6,377.6	14.9	21.3	-45.74	-408.5	948.6	580.6	554.0	26.54	21.875	
6,600.0	6,572.9	6,565.7	6,475.5	15.2	21.6	-45.75	-415.7	964.9	590.3	563.3	26.97	21.890	
6,700.0	6,672.6	6,665.0	6,573.2	15.3	22.0	38.59	-422.9	981.2	600.2	572.8	27.36	21.938	
6,800.0	6,771.6	6,765.7	6,672.5	15.4	22.3	71.99	-425.6	997.7	610.3	582.9	27.39	22.282	
6,900.0	6,867.9	6,869.1	6,773.7	15.4	22.5	80.32	-413.9	1,014.6	620.6	593.3	27.21	22.805	
7,000.0	6,959.7	6,974.9	6,874.5	15.3	22.7	84.08	-386.8	1,031.4	630.6	603.8	26.88	23.458	
7,100.0	7,045.1	7,083.2	6,972.4	15.1	22.8	86.28	-343.9	1,047.7	640.3	613.8	26.48	24.179	
7,200.0	7,122.6	7,193.8	7,064.7	15.0	22.9	87.72	-285.0	1,063.0	649.2	623.1	26.10	24.877	
7,300.0	7,190.6	7,306.7	7,148.5	14.9	22.9	88.71	-210.9	1,077.0	657.2	631.4	25.85	25.427	
7,400.0	7,247.8	7,421.6	7,221.0	15.0	23.0	89.39	-122.6	1,089.1	664.0	638.2	25.85	25.690	
7,500.0	7,293.1	7,538.2	7,279.3	15.1	23.2	89.83	-22.3	1,098.8	669.4	643.2	26.20	25.552	
7,600.0	7,325.6	7,656.0	7,321.2	15.5	23.5	90.06	87.4	1,105.7	673.1	646.2	26.96	24.970	
7,700.0	7,344.7	7,774.4	7,344.8	16.0	23.9	90.10	203.2	1,109.7	675.2	647.0	28.16	23.973	
7,800.0	7,350.0	7,888.0	7,350.0	16.7	24.4	90.00	316.6	1,110.6	675.6	645.8	29.73	22.721	
7,900.0	7,350.0	7,988.0	7,350.0	17.5	25.0	90.00	416.6	1,110.6	675.6	644.0	31.60	21.380	
8,000.0	7,350.0	8,088.0	7,350.0	18.5	25.6	90.00	516.6	1,110.6	675.6	641.8	33.72	20.034	
8,100.0	7,350.0	8,188.0	7,350.0	19.5	26.4	90.00	616.6	1,110.6	675.6	639.5	36.06	18.734	
8,200.0	7,350.0	8,288.0	7,350.0	20.7	27.3	90.00	716.6	1,110.6	675.6	637.0	38.58	17.512	
8,300.0	7,350.0	8,388.0	7,350.0	22.0	28.2	90.00	816.6	1,110.6	675.6	634.3	41.24	16.381	
8,400.0	7,350.0	8,488.0	7,350.0	23.3	29.3	90.00	916.6	1,110.6	675.6	631.5	44.02	15.347	
8,500.0	7,350.0	8,588.0	7,350.0	24.6	30.3	90.00	1,016.6	1,110.6	675.6	628.7	46.90	14.405	
8,600.0	7,350.0	8,688.0	7,350.0	26.0	31.5	90.00	1,116.6	1,110.6	675.6	625.7	49.86	13.550	
8,700.0	7,350.0	8,788.0	7,350.0	27.5	32.7	90.00	1,216.6	1,110.6	675.6	622.7	52.88	12.774	
8,800.0	7,350.0	8,888.0	7,350.0	29.0	34.0	90.00	1,316.6	1,110.6	675.6	619.6	55.97	12.071	
8,900.0	7,350.0	8,988.0	7,350.0	30.5	35.3	90.00	1,416.6	1,110.6	675.6	616.5	59.10	11.431	
9,000.0	7,350.0	9,088.0	7,350.0	32.0	36.6	90.00	1,516.6	1,110.6	675.6	613.3	62.27	10.849	
9,100.0	7,350.0	9,188.0	7,350.0	33.6	38.0	90.00	1,616.6	1,110.6	675.6	610.1	65.47	10.318	
9,200.0	7,350.0	9,288.0	7,350.0	35.2	39.4	90.00	1,716.6	1,110.6	675.6	606.8	68.71	9.832	
9,300.0	7,350.0	9,388.0	7,350.0	36.8	40.8	90.00	1,816.6	1,110.6	675.6	603.6	71.97	9.387	
9,400.0	7,350.0	9,488.0	7,350.0	38.4	42.2	90.00	1,916.6	1,110.6	675.6	600.3	75.25	8.977	
9,500.0	7,350.0	9,588.0	7,350.0	40.0	43.7	90.00	2,016.6	1,110.6	675.6	597.0	78.55	8.600	
9,600.0	7,350.0	9,688.0	7,350.0	41.6	45.2	90.00	2,116.6	1,110.6	675.6	593.7	81.87	8.251	
9,700.0	7,350.0	9,788.0	7,350.0	43.3	46.7	90.00	2,216.6	1,110.6	675.6	590.3	85.21	7.928	
9,800.0	7,350.0	9,888.0	7,350.0	44.9	48.3	90.00	2,316.6	1,110.6	675.6	587.0	88.55	7.629	
9,900.0	7,350.0	9,988.0	7,350.0	46.6	49.8	90.00	2,416.6	1,110.6	675.6	583.6	91.91	7.350	
10,000.0	7,350.0	10,088.0	7,350.0	48.2	51.4	90.00	2,516.6	1,110.6	675.6	580.3	95.28	7.090	
10,100.0	7,350.0	10,188.0	7,350.0	49.9	52.9	90.00	2,616.6	1,110.6	675.6	576.9	98.66	6.847	
10,200.0	7,350.0	10,288.0	7,350.0	51.6	54.5	90.00	2,716.6	1,110.6	675.6	573.5	102.05	6.620	
10,300.0	7,350.0	10,388.0	7,350.0	53.3	56.1	90.00	2,816.6	1,110.6	675.6	570.1	105.45	6.406	

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 4H-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 4H-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
10,400.0	7,350.0	10,488.0	7,350.0	54.9	57.7	90.00	2,916.6	1,110.6	675.6	566.7	108.85	6.206	
10,500.0	7,350.0	10,588.0	7,350.0	56.6	59.3	90.00	3,016.6	1,110.6	675.6	563.3	112.26	6.018	
10,600.0	7,350.0	10,688.0	7,350.0	58.3	60.9	90.00	3,116.6	1,110.6	675.6	559.9	115.68	5.840	
10,700.0	7,350.0	10,788.0	7,350.0	60.0	62.6	90.00	3,216.6	1,110.6	675.6	556.5	119.10	5.672	
10,800.0	7,350.0	10,888.0	7,350.0	61.7	64.2	90.00	3,316.6	1,110.6	675.6	553.0	122.53	5.514	
10,900.0	7,350.0	10,988.0	7,350.0	63.4	65.8	90.00	3,416.6	1,110.5	675.6	549.6	125.96	5.363	
11,000.0	7,350.0	11,088.0	7,350.0	65.1	67.5	90.00	3,516.6	1,110.5	675.6	546.2	129.39	5.221	
11,100.0	7,350.0	11,188.0	7,350.0	66.8	69.1	90.00	3,616.6	1,110.5	675.6	542.7	132.83	5.086	
11,200.0	7,350.0	11,288.0	7,350.0	68.5	70.8	90.00	3,716.6	1,110.5	675.5	539.3	136.27	4.957	
11,300.0	7,350.0	11,388.0	7,350.0	70.3	72.4	90.00	3,816.6	1,110.5	675.5	535.8	139.72	4.835	
11,400.0	7,350.0	11,488.0	7,350.0	72.0	74.1	90.00	3,916.6	1,110.5	675.5	532.4	143.17	4.719	
11,500.0	7,350.0	11,588.0	7,350.0	73.7	75.8	90.00	4,016.6	1,110.5	675.5	528.9	146.62	4.608	
11,600.0	7,350.0	11,688.0	7,350.0	75.4	77.5	90.00	4,116.6	1,110.5	675.5	525.5	150.07	4.502	
11,700.0	7,350.0	11,788.0	7,350.0	77.1	79.1	90.00	4,216.6	1,110.5	675.5	522.0	153.53	4.400	
11,800.0	7,350.0	11,888.0	7,350.0	78.8	80.8	90.00	4,316.6	1,110.5	675.5	518.6	156.99	4.303	
11,860.7	7,350.0	11,948.7	7,350.0	79.9	81.8	90.00	4,377.3	1,110.5	675.5	516.5	159.09	4.246	
11,892.7	7,350.0	11,965.4	7,350.0	80.4	82.1	90.00	4,394.0	1,110.5	675.7	515.8	159.93	4.225	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	90.06	0.0	30.2	30.2				
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	30.2	30.2	29.9	0.30	99.374	
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	30.2	30.2	29.5	0.65	46.233	CC, ES
300.0	300.0	299.5	299.5	0.5	0.5	90.62	-0.3	31.0	31.0	30.0	1.00	30.960	
400.0	400.0	398.9	398.9	0.7	0.7	92.12	-1.2	33.4	33.5	32.1	1.35	24.780	
500.0	500.0	498.3	498.1	0.8	0.9	94.19	-2.7	37.5	37.6	35.9	1.70	22.106	
600.0	600.0	597.4	597.1	1.0	1.1	96.41	-4.8	43.1	43.5	41.4	2.05	21.148	
700.0	700.0	696.4	695.7	1.2	1.3	-38.97	-7.5	50.3	50.4	48.0	2.40	21.025	
800.0	800.0	795.2	794.1	1.4	1.5	-38.52	-10.8	59.1	57.6	54.9	2.75	20.986	
900.0	899.9	893.9	892.2	1.6	1.8	-38.79	-14.7	69.5	65.2	62.1	3.10	21.036	
1,000.0	999.7	992.4	989.9	1.7	2.0	-39.56	-19.1	81.4	73.1	69.7	3.46	21.133	
1,100.0	1,099.4	1,090.7	1,087.2	2.0	2.3	-40.66	-24.2	94.9	81.4	77.6	3.83	21.249	
1,200.0	1,198.9	1,188.9	1,184.0	2.2	2.6	-41.96	-29.7	110.0	90.1	85.9	4.21	21.389	
1,300.0	1,298.4	1,286.8	1,280.3	2.4	3.0	-42.91	-35.9	126.5	100.3	95.7	4.60	21.774	
1,400.0	1,398.0	1,384.4	1,376.0	2.6	3.3	-43.43	-42.6	144.5	112.1	107.1	5.00	22.406	
1,500.0	1,497.5	1,482.3	1,471.7	2.8	3.7	-43.64	-49.9	164.0	125.4	120.0	5.40	23.213	
1,600.0	1,597.0	1,581.4	1,568.4	3.1	4.1	-43.76	-57.3	184.0	139.0	133.2	5.81	23.944	
1,700.0	1,696.5	1,680.4	1,665.1	3.3	4.5	-43.86	-64.8	204.1	152.6	146.4	6.21	24.570	
1,800.0	1,796.0	1,779.5	1,761.9	3.5	4.9	-43.95	-72.3	224.1	166.3	159.6	6.62	25.112	
1,900.0	1,895.5	1,878.6	1,858.6	3.8	5.3	-44.02	-79.7	244.1	179.9	172.9	7.03	25.585	
2,000.0	1,995.1	1,977.6	1,955.3	4.0	5.7	-44.08	-87.2	264.2	193.5	186.1	7.44	26.000	
2,100.0	2,094.6	2,076.7	2,052.0	4.2	6.2	-44.14	-94.7	284.2	207.2	199.3	7.86	26.368	
2,200.0	2,194.1	2,175.8	2,148.8	4.5	6.6	-44.19	-102.1	304.2	220.8	212.5	8.27	26.696	
2,300.0	2,293.6	2,274.8	2,245.5	4.7	7.0	-44.23	-109.6	324.3	234.4	225.7	8.69	26.991	
2,400.0	2,393.1	2,373.9	2,342.2	5.0	7.4	-44.27	-117.0	344.3	248.1	239.0	9.10	27.256	
2,500.0	2,492.7	2,473.0	2,439.0	5.2	7.8	-44.30	-124.5	364.3	261.7	252.2	9.52	27.496	
2,600.0	2,592.2	2,572.0	2,535.7	5.4	8.2	-44.33	-132.0	384.4	275.3	265.4	9.94	27.714	
2,700.0	2,691.7	2,671.1	2,632.4	5.7	8.6	-44.36	-139.4	404.4	289.0	278.6	10.35	27.913	
2,800.0	2,791.2	2,770.2	2,729.2	5.9	9.0	-44.38	-146.9	424.5	302.6	291.8	10.77	28.096	
2,900.0	2,890.7	2,869.2	2,825.9	6.2	9.5	-44.40	-154.4	444.5	316.2	305.1	11.19	28.264	
3,000.0	2,990.3	2,968.3	2,922.6	6.4	9.9	-44.42	-161.8	464.5	329.9	318.3	11.61	28.419	
3,100.0	3,089.8	3,067.4	3,019.4	6.6	10.3	-44.44	-169.3	484.6	343.5	331.5	12.03	28.563	
3,200.0	3,189.3	3,166.4	3,116.1	6.9	10.7	-44.46	-176.7	504.6	357.1	344.7	12.45	28.696	
3,300.0	3,288.8	3,265.5	3,212.8	7.1	11.1	-44.48	-184.2	524.6	370.8	357.9	12.87	28.820	
3,400.0	3,388.3	3,364.6	3,309.6	7.4	11.5	-44.49	-191.7	544.7	384.4	371.1	13.29	28.935	
3,500.0	3,487.9	3,463.6	3,406.3	7.6	11.9	-44.51	-199.1	564.7	398.1	384.3	13.71	29.044	
3,600.0	3,587.4	3,562.7	3,503.0	7.9	12.4	-44.52	-206.6	584.7	411.7	397.6	14.13	29.145	
3,700.0	3,686.9	3,661.8	3,599.7	8.1	12.8	-44.53	-214.1	604.8	425.3	410.8	14.55	29.240	
3,800.0	3,786.4	3,760.8	3,696.5	8.3	13.2	-44.54	-221.5	624.8	439.0	424.0	14.97	29.329	
3,900.0	3,885.9	3,859.9	3,793.2	8.6	13.6	-44.56	-229.0	644.9	452.6	437.2	15.39	29.414	
4,000.0	3,985.4	3,959.0	3,889.9	8.8	14.0	-44.57	-236.5	664.9	466.2	450.4	15.81	29.493	
4,100.0	4,085.0	4,058.0	3,986.7	9.1	14.4	-44.58	-243.9	684.9	479.9	463.6	16.23	29.568	
4,200.0	4,184.5	4,157.1	4,083.4	9.3	14.9	-44.58	-251.4	705.0	493.5	476.8	16.65	29.639	
4,300.0	4,284.0	4,256.2	4,180.1	9.6	15.3	-44.59	-258.8	725.0	507.1	490.1	17.07	29.707	
4,400.0	4,383.5	4,355.2	4,276.9	9.8	15.7	-44.60	-266.3	745.0	520.8	503.3	17.49	29.771	
4,500.0	4,483.0	4,454.3	4,373.6	10.0	16.1	-44.61	-273.8	765.1	534.4	516.5	17.91	29.832	
4,600.0	4,582.6	4,553.4	4,470.3	10.3	16.5	-44.62	-281.2	785.1	548.0	529.7	18.34	29.890	
4,700.0	4,682.1	4,652.4	4,567.1	10.5	16.9	-44.62	-288.7	805.1	561.7	542.9	18.76	29.945	
4,800.0	4,781.6	4,751.5	4,663.8	10.8	17.4	-44.63	-296.2	825.2	575.3	556.1	19.18	29.997	
4,900.0	4,881.1	4,850.6	4,760.5	11.0	17.8	-44.64	-303.6	845.2	588.9	569.3	19.60	30.048	
5,000.0	4,980.6	4,949.6	4,857.3	11.3	18.2	-44.64	-311.1	865.3	602.6	582.6	20.02	30.096	
5,100.0	5,080.2	5,048.7	4,954.0	11.5	18.6	-44.65	-318.5	885.3	616.2	595.8	20.44	30.142	

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 4H-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 4H-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	5,179.7	5,147.8	5,050.7	11.7	19.0	-44.65	-326.0	905.3	629.9	609.0	20.87	30.186	
5,300.0	5,279.2	5,246.8	5,147.4	12.0	19.4	-44.66	-333.5	925.4	643.5	622.2	21.29	30.228	
5,400.0	5,378.7	5,345.9	5,244.2	12.2	19.9	-44.67	-340.9	945.4	657.1	635.4	21.71	30.269	
5,500.0	5,478.2	5,445.0	5,340.9	12.5	20.3	-44.67	-348.4	965.4	670.8	648.6	22.13	30.307	
5,600.0	5,577.7	5,544.0	5,437.6	12.7	20.7	-44.68	-355.9	985.5	684.4	661.8	22.55	30.345	
5,700.0	5,677.3	5,643.1	5,534.4	13.0	21.1	-44.68	-363.3	1,005.5	698.0	675.1	22.98	30.381	
5,800.0	5,776.8	5,742.2	5,631.1	13.2	21.5	-44.68	-370.8	1,025.5	711.7	688.3	23.40	30.415	
5,900.0	5,876.3	5,841.2	5,727.8	13.5	22.0	-44.69	-378.2	1,045.6	725.3	701.5	23.82	30.449	
6,000.0	5,975.8	5,940.3	5,824.6	13.7	22.4	-44.69	-385.7	1,065.6	738.9	714.7	24.24	30.481	
6,100.0	6,075.3	6,039.3	5,921.3	13.9	22.8	-44.70	-393.2	1,085.7	752.6	727.9	24.66	30.512	
6,200.0	6,174.9	6,138.4	6,018.0	14.2	23.2	-44.70	-400.6	1,105.7	766.2	741.1	25.09	30.542	
6,300.0	6,274.4	6,237.5	6,114.8	14.4	23.6	-44.70	-408.1	1,125.7	779.8	754.3	25.51	30.571	
6,400.0	6,373.9	6,336.5	6,211.5	14.7	24.0	-44.71	-415.6	1,145.8	793.5	767.5	25.93	30.598	
6,500.0	6,473.4	6,435.6	6,308.2	14.9	24.5	-44.71	-423.0	1,165.8	807.1	780.8	26.35	30.625	
6,600.0	6,572.9	6,535.6	6,405.9	15.2	24.9	-44.76	-429.9	1,186.0	820.7	794.0	26.77	30.656	
6,700.0	6,672.6	6,637.0	6,505.1	15.3	25.2	38.38	-426.0	1,206.6	834.3	806.9	27.34	30.513	
6,800.0	6,771.6	6,737.7	6,602.0	15.4	25.5	69.71	-408.1	1,226.6	847.7	820.1	27.68	30.624	
6,900.0	6,867.9	6,837.6	6,694.8	15.4	25.7	76.02	-376.7	1,245.9	860.9	833.1	27.75	31.018	
7,000.0	6,959.7	6,936.9	6,781.9	15.3	25.8	77.90	-332.8	1,263.9	873.4	845.9	27.57	31.678	
7,100.0	7,045.1	7,035.5	6,861.7	15.1	25.9	78.37	-277.5	1,280.4	885.2	858.0	27.19	32.555	
7,200.0	7,122.6	7,133.6	6,933.0	15.0	26.1	78.27	-211.8	1,295.2	895.8	869.1	26.70	33.556	
7,300.0	7,190.6	7,231.2	6,994.5	14.9	26.2	77.93	-137.2	1,308.0	905.2	879.0	26.22	34.519	
7,400.0	7,247.8	7,328.4	7,045.4	15.0	26.3	77.51	-55.2	1,318.5	913.1	887.2	25.93	35.216	
7,500.0	7,293.1	7,425.1	7,084.7	15.1	26.5	77.09	32.7	1,326.6	919.4	893.4	26.01	35.355	
7,600.0	7,325.6	7,521.5	7,112.1	15.5	26.8	76.72	124.9	1,332.3	924.0	897.4	26.56	34.791	
7,700.0	7,344.7	7,617.5	7,127.0	16.0	27.1	76.44	219.6	1,335.4	926.7	899.0	27.68	33.484	
7,800.0	7,350.0	7,714.6	7,130.0	16.7	27.5	76.28	316.6	1,336.0	927.5	898.2	29.32	31.636	
7,900.0	7,350.0	7,814.6	7,130.0	17.5	28.0	76.28	416.6	1,336.0	927.5	896.4	31.12	29.808	
8,000.0	7,350.0	7,914.6	7,130.0	18.5	28.6	76.28	516.6	1,336.0	927.5	894.3	33.17	27.965	
8,100.0	7,350.0	8,014.6	7,130.0	19.5	29.3	76.28	616.6	1,336.0	927.5	892.1	35.43	26.180	
8,200.0	7,350.0	8,114.6	7,130.0	20.7	30.1	76.28	716.6	1,336.0	927.5	889.6	37.86	24.497	
8,300.0	7,350.0	8,214.6	7,130.0	22.0	30.9	76.28	816.6	1,336.0	927.5	887.0	40.44	22.937	
8,400.0	7,350.0	8,314.6	7,130.0	23.3	31.8	76.28	916.6	1,336.0	927.5	884.4	43.13	21.506	
8,500.0	7,350.0	8,414.6	7,130.0	24.6	32.8	76.28	1,016.6	1,336.0	927.5	881.6	45.91	20.200	
8,600.0	7,350.0	8,514.6	7,130.0	26.0	33.9	76.28	1,116.6	1,336.0	927.5	878.7	48.78	19.014	
8,700.0	7,350.0	8,614.6	7,130.0	27.5	35.0	76.28	1,216.6	1,336.0	927.5	875.8	51.71	17.936	
8,800.0	7,350.0	8,714.6	7,130.0	29.0	36.2	76.28	1,316.6	1,336.0	927.5	872.8	54.70	16.956	
8,900.0	7,350.0	8,814.6	7,130.0	30.5	37.4	76.28	1,416.6	1,336.0	927.5	869.8	57.73	16.065	
9,000.0	7,350.0	8,914.6	7,130.0	32.0	38.7	76.28	1,516.6	1,336.0	927.5	866.7	60.81	15.253	
9,100.0	7,350.0	9,014.6	7,130.0	33.6	40.0	76.28	1,616.6	1,336.0	927.5	863.6	63.91	14.511	
9,200.0	7,350.0	9,114.6	7,130.0	35.2	41.3	76.28	1,716.6	1,336.0	927.5	860.4	67.05	13.832	
9,300.0	7,350.0	9,214.6	7,130.0	36.8	42.6	76.28	1,816.6	1,336.0	927.5	857.3	70.21	13.209	
9,400.0	7,350.0	9,314.6	7,130.0	38.4	44.0	76.28	1,916.6	1,336.0	927.5	854.1	73.40	12.636	
9,500.0	7,350.0	9,414.6	7,130.0	40.0	45.4	76.28	2,016.6	1,336.0	927.5	850.9	76.60	12.108	
9,600.0	7,350.0	9,514.6	7,130.0	41.6	46.9	76.28	2,116.6	1,336.0	927.5	847.7	79.82	11.619	
9,700.0	7,350.0	9,614.6	7,130.0	43.3	48.3	76.28	2,216.6	1,336.0	927.5	844.4	83.06	11.166	
9,800.0	7,350.0	9,714.6	7,130.0	44.9	49.8	76.28	2,316.6	1,336.0	927.5	841.2	86.31	10.746	
9,900.0	7,350.0	9,814.6	7,130.0	46.6	51.3	76.28	2,416.6	1,336.0	927.5	837.9	89.57	10.355	
10,000.0	7,350.0	9,914.6	7,130.0	48.2	52.8	76.28	2,516.6	1,336.0	927.5	834.6	92.84	9.990	
10,100.0	7,350.0	10,014.6	7,130.0	49.9	54.4	76.28	2,616.6	1,336.0	927.5	831.4	96.12	9.649	
10,200.0	7,350.0	10,114.6	7,130.0	51.6	55.9	76.28	2,716.6	1,336.0	927.5	828.1	99.41	9.330	
10,300.0	7,350.0	10,214.6	7,130.0	53.3	57.4	76.28	2,816.6	1,336.0	927.5	824.8	102.71	9.030	

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 4H-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 4H-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
10,400.0	7,350.0	10,314.6	7,130.0	54.9	59.0	76.28	2,916.6	1,336.0	927.5	821.5	106.02	8.748	
10,500.0	7,350.0	10,414.6	7,130.0	56.6	60.6	76.28	3,016.6	1,336.0	927.5	818.2	109.33	8.484	
10,600.0	7,350.0	10,514.6	7,130.0	58.3	62.2	76.28	3,116.6	1,336.0	927.5	814.8	112.64	8.234	
10,700.0	7,350.0	10,614.6	7,130.0	60.0	63.8	76.28	3,216.6	1,336.0	927.5	811.5	115.97	7.998	
10,800.0	7,350.0	10,714.6	7,130.0	61.7	65.4	76.28	3,316.6	1,336.0	927.5	808.2	119.29	7.775	
10,900.0	7,350.0	10,814.6	7,130.0	63.4	67.0	76.28	3,416.6	1,336.0	927.5	804.9	122.63	7.563	
11,000.0	7,350.0	10,914.6	7,130.0	65.1	68.6	76.28	3,516.6	1,336.0	927.5	801.5	125.96	7.363	
11,100.0	7,350.0	11,014.6	7,130.0	66.8	70.2	76.28	3,616.6	1,336.0	927.5	798.2	129.30	7.173	
11,200.0	7,350.0	11,114.6	7,130.0	68.5	71.8	76.28	3,716.6	1,336.0	927.5	794.8	132.65	6.992	
11,300.0	7,350.0	11,214.6	7,130.0	70.3	73.5	76.28	3,816.6	1,336.0	927.5	791.5	135.99	6.820	
11,400.0	7,350.0	11,314.6	7,130.0	72.0	75.1	76.28	3,916.6	1,336.0	927.5	788.1	139.34	6.656	
11,500.0	7,350.0	11,414.6	7,130.0	73.7	76.8	76.28	4,016.6	1,336.0	927.5	784.8	142.69	6.500	
11,600.0	7,350.0	11,514.6	7,130.0	75.4	78.4	76.28	4,116.6	1,336.0	927.5	781.4	146.05	6.350	
11,700.0	7,350.0	11,614.6	7,130.0	77.1	80.1	76.28	4,216.6	1,336.0	927.5	778.1	149.41	6.208	
11,800.0	7,350.0	11,714.6	7,130.0	78.8	81.7	76.28	4,316.6	1,336.0	927.5	774.7	152.77	6.071	
11,858.1	7,350.0	11,772.7	7,130.0	79.9	82.7	76.28	4,374.7	1,336.0	927.5	772.8	154.72	5.995	
11,892.7	7,350.0	11,786.9	7,130.0	80.4	82.9	76.28	4,388.9	1,336.0	927.7	772.2	155.54	5.964	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	-69.45	192.3	-513.0	547.9				
100.0	100.0	101.3	101.3	0.2	0.2	-69.44	192.4	-513.0	547.9	547.6	0.33	1,672.103	
200.0	200.0	201.6	201.6	0.3	0.4	-69.42	192.6	-512.9	547.8	547.1	0.68	810.248	
300.0	300.0	301.8	301.8	0.5	0.5	-69.38	192.9	-512.6	547.7	546.7	1.02	534.584	
400.0	400.0	402.0	402.0	0.7	0.7	-69.33	193.3	-512.3	547.6	546.2	1.37	398.810	
500.0	500.0	502.2	502.2	0.8	0.9	-69.27	193.8	-511.9	547.4	545.7	1.72	317.978	
600.0	600.0	602.5	602.4	1.0	1.0	-69.18	194.4	-511.4	547.2	545.1	2.07	264.341	
616.2	616.2	618.7	618.7	1.1	1.1	153.91	194.5	-511.4	547.1	545.0	2.13	257.188	
700.0	700.0	702.7	702.7	1.2	1.2	154.03	195.2	-510.9	547.7	545.3	2.42	226.381	
800.0	800.0	802.8	802.8	1.4	1.4	154.25	196.1	-510.2	549.7	547.0	2.77	198.627	
900.0	899.9	914.0	914.0	1.6	1.6	154.60	196.9	-508.7	552.7	549.6	3.14	176.187	
1,000.0	999.7	1,025.6	1,025.5	1.7	1.8	154.86	195.2	-505.2	554.8	551.3	3.50	158.309	
1,100.0	1,099.4	1,142.6	1,142.2	2.0	2.0	155.05	190.7	-499.1	555.5	551.6	3.88	143.089	
1,200.0	1,198.9	1,257.0	1,256.1	2.2	2.2	155.15	183.6	-491.2	555.4	551.1	4.26	130.385	
1,300.0	1,298.4	1,368.3	1,366.6	2.4	2.5	155.04	173.6	-481.7	553.0	548.4	4.64	119.240	
1,400.0	1,398.0	1,475.7	1,472.9	2.6	2.7	154.91	163.3	-471.3	549.3	544.2	5.01	109.552	
1,500.0	1,497.5	1,582.0	1,578.1	2.8	3.0	154.89	153.5	-459.0	544.0	538.6	5.39	100.910	
1,600.0	1,597.0	1,700.6	1,695.0	3.1	3.4	154.77	140.7	-443.5	536.7	530.9	5.80	92.603	
1,700.0	1,696.5	1,804.9	1,797.2	3.3	3.7	154.56	127.7	-427.6	526.6	520.5	6.18	85.224	
1,800.0	1,796.0	1,917.1	1,906.8	3.5	4.1	154.23	112.4	-409.3	515.2	508.6	6.59	78.211	
1,900.0	1,895.5	2,014.4	2,001.7	3.8	4.5	153.91	98.5	-392.5	502.7	495.7	6.97	72.118	
2,000.0	1,995.1	2,122.8	2,107.2	4.0	4.9	153.53	82.8	-373.2	489.6	482.2	7.38	66.311	
2,100.0	2,094.6	2,224.0	2,205.4	4.2	5.4	153.12	67.4	-354.1	475.2	467.4	7.79	61.013	
2,200.0	2,194.1	2,318.1	2,296.8	4.5	5.7	152.77	53.7	-336.6	461.2	453.1	8.18	56.399	
2,300.0	2,293.6	2,415.8	2,391.9	4.7	6.1	152.45	40.1	-318.7	447.9	439.4	8.58	52.224	
2,400.0	2,393.1	2,514.8	2,488.3	5.0	6.6	152.12	26.5	-300.9	434.9	426.0	8.98	48.415	
2,500.0	2,492.7	2,619.8	2,590.4	5.2	7.0	151.62	10.9	-281.4	421.1	411.6	9.42	44.683	
2,600.0	2,592.2	2,717.3	2,684.8	5.4	7.5	151.02	-4.5	-262.8	406.4	396.6	9.86	41.224	
2,700.0	2,691.7	2,811.9	2,776.7	5.7	7.9	150.41	-18.9	-245.9	393.2	382.9	10.30	38.189	
2,800.0	2,791.2	2,913.3	2,875.3	5.9	8.3	149.76	-34.1	-227.8	380.1	369.3	10.75	35.350	
2,900.0	2,890.7	3,011.6	2,970.9	6.2	8.7	149.19	-48.3	-209.6	366.5	355.3	11.20	32.709	
3,000.0	2,990.3	3,110.4	3,067.0	6.4	9.2	148.53	-62.7	-191.7	353.4	341.7	11.67	30.274	
3,100.0	3,089.8	3,208.7	3,162.6	6.6	9.6	147.85	-76.9	-173.9	340.2	328.1	12.15	28.015	
3,200.0	3,189.3	3,305.3	3,256.7	6.9	10.0	147.20	-90.4	-156.7	327.7	315.1	12.62	25.968	
3,300.0	3,288.8	3,405.8	3,354.6	7.1	10.4	146.46	-104.4	-139.2	315.5	302.4	13.12	24.051	
3,400.0	3,388.3	3,504.7	3,451.0	7.4	10.8	145.62	-118.5	-121.6	303.1	289.4	13.64	22.222	
3,500.0	3,487.9	3,603.8	3,547.5	7.6	11.3	144.76	-132.4	-104.2	290.8	276.6	14.16	20.531	
3,600.0	3,587.4	3,704.7	3,645.8	7.9	11.7	143.82	-146.5	-86.0	278.3	263.5	14.72	18.903	
3,700.0	3,686.9	3,805.8	3,744.1	8.1	12.2	142.73	-161.0	-67.2	265.1	249.8	15.30	17.324	
3,800.0	3,786.4	3,907.9	3,843.0	8.3	12.6	141.55	-175.6	-47.1	250.9	235.0	15.92	15.763	
3,900.0	3,885.9	4,004.7	3,936.9	8.6	13.1	140.19	-189.9	-28.4	237.2	220.7	16.57	14.320	
4,000.0	3,985.4	4,105.2	4,034.2	8.8	13.6	138.47	-205.3	-8.4	223.0	205.7	17.30	12.892	
4,100.0	4,085.0	4,200.5	4,126.8	9.1	14.0	136.81	-219.2	9.6	210.2	192.1	18.02	11.665	
4,200.0	4,184.5	4,299.7	4,223.3	9.3	14.4	135.08	-232.9	28.0	197.8	179.0	18.77	10.540	
4,300.0	4,284.0	4,397.1	4,318.1	9.6	14.8	133.36	-245.7	45.9	185.9	166.4	19.52	9.522	
4,400.0	4,383.5	4,492.4	4,411.5	9.8	15.2	131.76	-257.4	61.5	176.1	155.9	20.26	8.692	
4,500.0	4,483.0	4,592.2	4,509.2	10.0	15.6	129.93	-269.6	77.2	167.2	146.1	21.07	7.936	
4,600.0	4,582.6	4,689.6	4,604.8	10.3	16.0	128.01	-281.3	92.0	159.0	137.1	21.89	7.264	
4,700.0	4,682.1	4,788.7	4,702.3	10.5	16.3	126.08	-292.9	105.7	152.4	129.6	22.72	6.705	
4,800.0	4,781.6	4,887.0	4,798.9	10.8	16.7	124.03	-304.2	119.4	145.7	122.1	23.58	6.179	
4,900.0	4,881.1	4,985.4	4,896.0	11.0	17.0	122.15	-314.9	131.9	140.4	116.0	24.40	5.754	
5,000.0	4,980.6	5,085.4	4,994.7	11.3	17.3	120.46	-325.1	143.7	136.0	110.8	25.18	5.402	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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	5,080.2	5,184.4	5,092.7	11.5	17.6	119.55	-333.3	155.0	131.6	105.8	25.80	5.102	
5,200.0	5,179.7	5,283.4	5,191.0	11.7	17.9	119.22	-340.2	165.4	128.0	101.6	26.32	4.861	
5,300.0	5,279.2	5,382.1	5,288.9	12.0	18.2	118.69	-347.8	174.8	125.3	98.4	26.88	4.661	
5,400.0	5,378.7	5,482.4	5,388.6	12.2	18.4	118.53	-354.7	183.8	123.0	95.6	27.36	4.495	
5,500.0	5,478.2	5,580.9	5,486.5	12.5	18.7	118.76	-360.9	191.9	121.3	93.6	27.76	4.370	
5,600.0	5,577.7	5,681.2	5,586.3	12.7	18.9	119.17	-366.9	199.8	119.9	91.8	28.13	4.262	
5,700.0	5,677.3	5,780.7	5,685.4	13.0	19.1	120.04	-371.9	207.3	118.6	90.2	28.40	4.175	
5,800.0	5,776.8	5,879.7	5,784.1	13.2	19.3	121.15	-376.6	214.0	117.9	89.3	28.61	4.123	
5,824.3	5,801.0	5,903.8	5,808.1	13.3	19.4	121.55	-377.5	215.5	117.9	89.3	28.63	4.119	CC, ES, SF
5,900.0	5,876.3	5,978.5	5,882.7	13.5	19.5	123.21	-379.6	219.6	118.2	89.6	28.59	4.136	
6,000.0	5,975.8	6,076.5	5,980.6	13.7	19.6	125.76	-381.6	223.7	120.0	91.5	28.46	4.216	
6,100.0	6,075.3	6,175.5	6,079.5	13.9	19.8	128.09	-384.1	226.8	123.0	94.7	28.35	4.338	
6,200.0	6,174.9	6,272.7	6,176.6	14.2	19.9	130.44	-386.3	228.3	127.8	99.6	28.22	4.530	
6,300.0	6,274.4	6,371.4	6,275.4	14.4	20.0	133.35	-386.8	228.4	134.2	106.3	27.94	4.804	
6,400.0	6,373.9	6,471.1	6,375.1	14.7	20.1	136.23	-386.9	228.5	141.1	113.4	27.67	5.100	
6,500.0	6,473.4	6,570.5	6,474.5	14.9	20.2	138.92	-386.7	228.4	148.4	121.0	27.44	5.409	
6,600.0	6,572.9	6,669.9	6,573.9	15.2	20.3	141.33	-386.5	228.5	155.9	128.6	27.27	5.716	
6,700.0	6,672.6	6,769.2	6,673.2	15.3	20.4	-133.27	-386.1	228.3	163.1	135.7	27.37	5.959	
6,800.0	6,771.6	6,868.0	6,771.9	15.4	20.5	-104.29	-385.7	228.0	168.6	140.2	28.35	5.948	
6,900.0	6,867.9	6,964.0	6,868.0	15.4	20.6	-104.24	-385.6	227.5	175.6	145.7	29.92	5.869	
7,000.0	6,959.7	7,056.2	6,960.2	15.3	20.7	-110.91	-385.5	227.0	188.9	157.5	31.37	6.021	
7,100.0	7,045.1	7,142.2	7,046.1	15.1	20.7	-119.03	-385.3	226.8	214.0	182.1	31.89	6.710	
7,200.0	7,122.6	7,220.2	7,124.2	15.0	20.8	-125.95	-385.2	226.8	254.2	222.9	31.29	8.123	
7,300.0	7,190.6	7,289.1	7,193.1	14.9	20.9	-130.50	-385.0	226.9	309.5	279.5	29.98	10.325	
7,400.0	7,247.8	7,347.3	7,251.3	15.0	21.0	-132.21	-384.7	227.1	377.9	349.4	28.55	13.237	
7,500.0	7,293.1	7,393.7	7,297.7	15.1	21.0	-130.62	-384.5	227.3	456.8	429.2	27.64	16.529	
7,600.0	7,325.6	7,427.3	7,331.3	15.5	21.0	-124.52	-384.3	227.4	543.5	515.7	27.88	19.497	
7,700.0	7,344.7	7,447.4	7,351.3	16.0	21.1	-111.35	-384.1	227.6	635.6	606.0	29.61	21.465	
7,800.0	7,350.0	7,453.6	7,357.5	16.7	21.1	-91.78	-384.1	227.6	730.7	699.5	31.27	23.365	
7,900.0	7,350.0	7,454.3	7,358.3	17.5	21.1	-91.98	-384.1	227.6	827.1	794.9	32.21	25.681	
8,000.0	7,350.0	7,455.1	7,359.0	18.5	21.1	-92.19	-384.1	227.6	924.3	891.0	33.27	27.779	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Kiyota 4H-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 4H-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
8,700.0	7,350.0	7,318.0	7,318.0	27.5	12.8	-90.00	2,045.4	-39.7	955.2	916.0	39.18	24.377	
8,800.0	7,350.0	7,318.0	7,318.0	29.0	12.8	-90.00	2,045.4	-39.7	869.8	829.1	40.73	21.358	
8,900.0	7,350.0	7,318.0	7,318.0	30.5	12.8	-90.00	2,045.4	-39.7	787.9	745.6	42.29	18.630	
9,000.0	7,350.0	7,318.0	7,318.0	32.0	12.8	-90.00	2,045.4	-39.7	710.6	666.8	43.88	16.196	
9,100.0	7,350.0	7,318.0	7,318.0	33.6	12.8	-90.00	2,045.4	-39.7	639.7	594.2	45.48	14.065	
9,200.0	7,350.0	7,318.0	7,318.0	35.2	12.8	-90.00	2,045.4	-39.7	577.5	530.4	47.10	12.260	
9,300.0	7,350.0	7,318.0	7,318.0	36.8	12.8	-90.00	2,045.4	-39.7	527.0	478.2	48.73	10.814	
9,400.0	7,350.0	7,318.0	7,318.0	38.4	12.8	-90.00	2,045.4	-39.7	491.9	441.5	50.37	9.764	
9,500.0	7,350.0	7,318.0	7,318.0	40.0	12.8	-90.00	2,045.4	-39.7	475.6	423.5	52.03	9.141	
9,528.9	7,350.0	7,318.0	7,318.0	40.5	12.8	-90.00	2,045.4	-39.7	474.7	422.2	52.50	9.041	CC, ES
9,600.0	7,350.0	7,318.0	7,318.0	41.6	12.8	-90.00	2,045.4	-39.7	480.0	426.3	53.69	8.941	SF
9,700.0	7,350.0	7,318.0	7,318.0	43.3	12.8	-90.00	2,045.4	-39.7	504.6	449.2	55.35	9.116	
9,800.0	7,350.0	7,318.0	7,318.0	44.9	12.8	-90.00	2,045.4	-39.7	546.7	489.6	57.03	9.586	
9,900.0	7,350.0	7,318.0	7,318.0	46.6	12.8	-90.00	2,045.4	-39.7	602.5	543.8	58.71	10.263	
10,000.0	7,350.0	7,318.0	7,318.0	48.2	12.8	-90.00	2,045.4	-39.7	668.8	608.4	60.39	11.074	
10,100.0	7,350.0	7,318.0	7,318.0	49.9	12.8	-90.00	2,045.4	-39.7	742.6	680.5	62.08	11.962	
10,200.0	7,350.0	7,318.0	7,318.0	51.6	12.8	-90.00	2,045.4	-39.7	822.0	758.2	63.78	12.889	
10,300.0	7,350.0	7,318.0	7,318.0	53.3	12.8	-90.00	2,045.4	-39.7	905.5	840.0	65.48	13.829	
10,400.0	7,350.0	7,318.0	7,318.0	54.9	12.8	-90.00	2,045.4	-39.7	992.1	924.9	67.18	14.767	

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