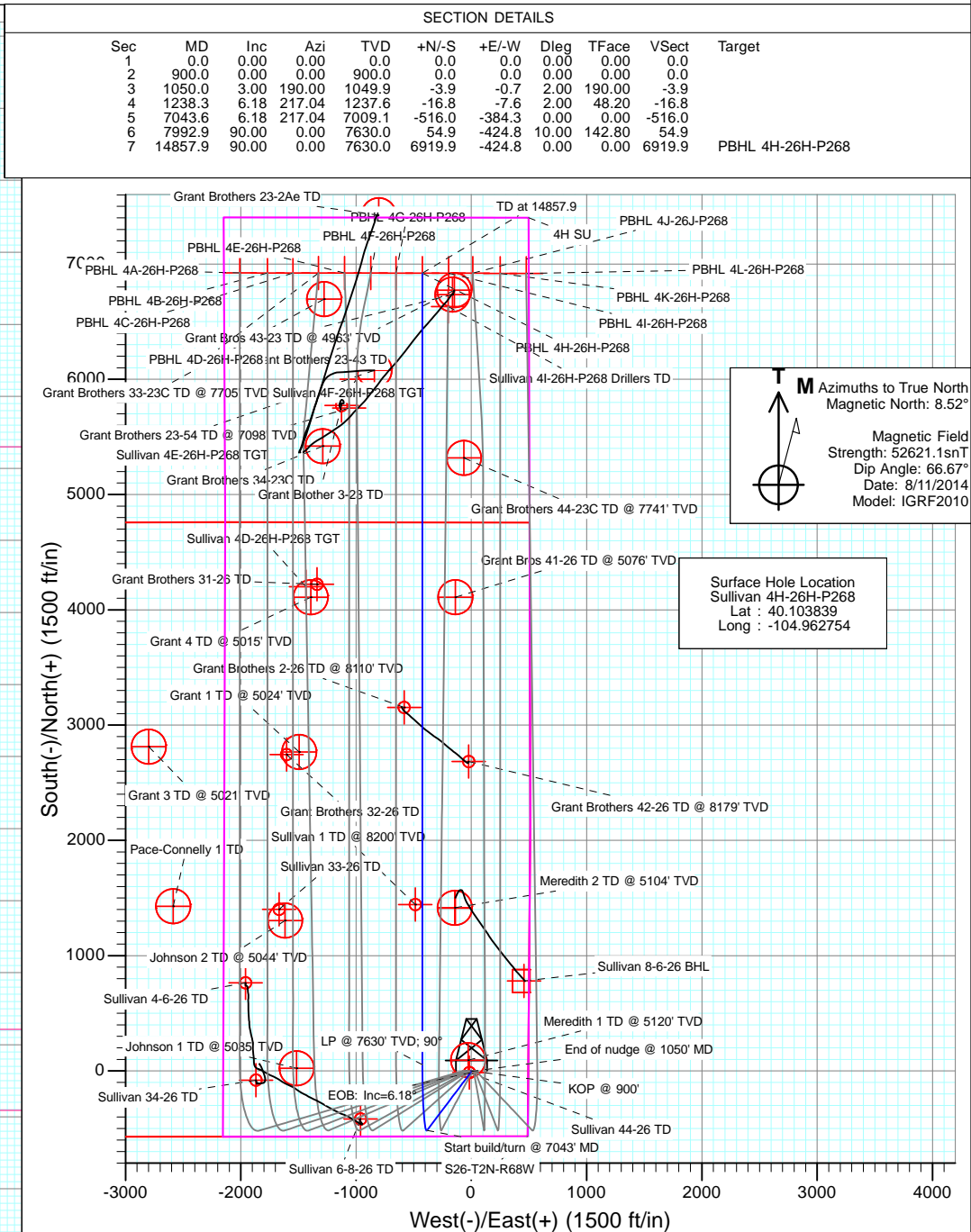
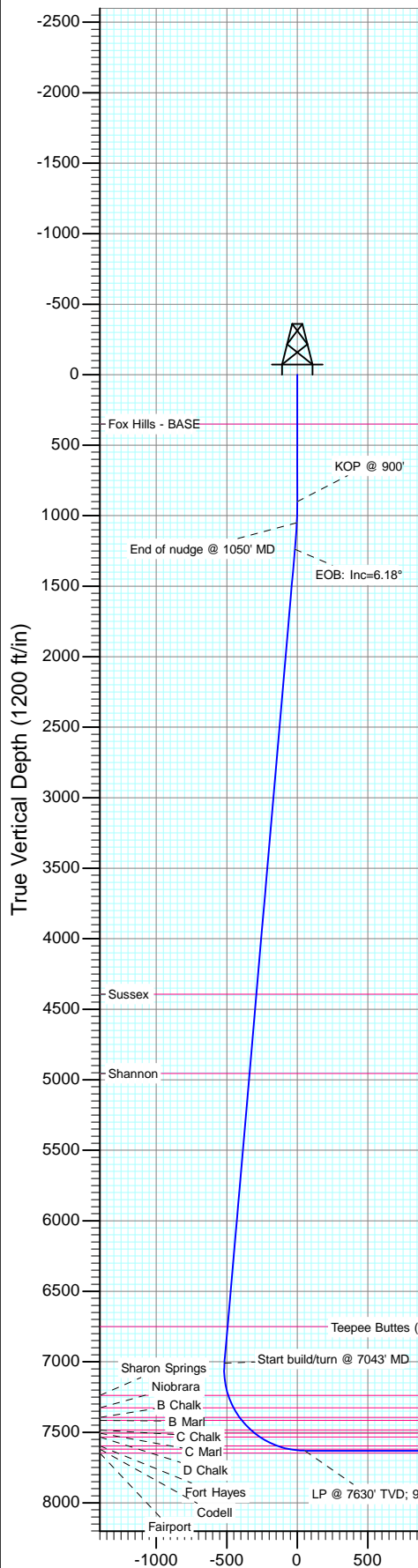




Project: DJ Wattenberg
Site: S26-T2N-R68W (Sullivan)
Well: Sullivan 4H-26H-P268
Wellbore: HZ
Design: Plan #1



DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL 4H-26H-P268	6919.9	-424.8	1288047.84	3149820.90	40.122835	-104.964273

Plan #1
Sullivan 4H-26H-P268
well @ 4997.0ft
Ground Elevation @ 4965.0
North American Datum 1983
Well Sullivan 4H-26H-P268, True North

Vertical Section at 0.00° (1200 ft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	well @ 4997.0ft
Project:	DJ Wattenberg	MD Reference:	well @ 4997.0ft
Site:	S26-T2N-R68W (Sullivan)	North Reference:	True
Well:	Sullivan 4H-26H-P268	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		S26-T2N-R68W (Sullivan)			
Site Position:		Northing:	1,282,631.01 ft	Latitude:	40.107960
From:	Lat/Long	Easting:	3,150,139.78 ft	Longitude:	-104.963250
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.35 °

Well	Sullivan 4H-26H-P268					
Well Position	+N/-S	0.0 ft	Northing:	1,281,130.66 ft	Latitude:	40.103839
	+E/-W	0.0 ft	Easting:	3,150,287.60 ft	Longitude:	-104.962754
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,965.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/11/2014	8.52	66.67	52,621

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	
900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,050.0	3.00	190.00	1,049.9	-3.9	-0.7	2.00	2.00	0.00	190.00	
1,238.3	6.18	217.04	1,237.6	-16.8	-7.6	2.00	1.69	14.36	48.20	
7,043.6	6.18	217.04	7,009.1	-516.0	-384.3	0.00	0.00	0.00	0.00	
7,992.9	90.00	0.00	7,630.0	54.9	-424.8	10.00	8.83	15.06	142.80	
14,857.9	90.00	0.00	7,630.0	6,919.9	-424.8	0.00	0.00	0.00	0.00	PBHL 4H-26H-P268

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	well @ 4997.0ft
Project:	DJ Wattenberg	MD Reference:	well @ 4997.0ft
Site:	S26-T2N-R68W (Sullivan)	North Reference:	True
Well:	Sullivan 4H-26H-P268	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	KOP @ 900'
1,000.0	2.00	190.00	1,000.0	-1.7	-0.3	-1.7	2.00	2.00	
1,050.0	3.00	190.00	1,049.9	-3.9	-0.7	-3.9	2.00	2.00	End of nudge @ 1050' MD
1,100.0	3.74	201.50	1,099.8	-6.7	-1.5	-6.7	2.00	1.48	
1,200.0	5.48	214.13	1,199.5	-13.7	-5.4	-13.7	2.00	1.74	
1,238.3	6.18	217.04	1,237.6	-16.8	-7.6	-16.8	2.00	1.85	EOB: Inc=6.18°
1,300.0	6.18	217.04	1,299.0	-22.1	-11.7	-22.1	0.00	0.00	
1,400.0	6.18	217.04	1,398.4	-30.7	-18.1	-30.7	0.00	0.00	
1,500.0	6.18	217.04	1,497.8	-39.3	-24.6	-39.3	0.00	0.00	
1,600.0	6.18	217.04	1,597.2	-47.9	-31.1	-47.9	0.00	0.00	
1,700.0	6.18	217.04	1,696.6	-56.5	-37.6	-56.5	0.00	0.00	
1,800.0	6.18	217.04	1,796.1	-65.1	-44.1	-65.1	0.00	0.00	
1,900.0	6.18	217.04	1,895.5	-73.7	-50.6	-73.7	0.00	0.00	
2,000.0	6.18	217.04	1,994.9	-82.3	-57.1	-82.3	0.00	0.00	
2,100.0	6.18	217.04	2,094.3	-90.9	-63.6	-90.9	0.00	0.00	
2,200.0	6.18	217.04	2,193.7	-99.5	-70.0	-99.5	0.00	0.00	
2,300.0	6.18	217.04	2,293.2	-108.1	-76.5	-108.1	0.00	0.00	
2,400.0	6.18	217.04	2,392.6	-116.7	-83.0	-116.7	0.00	0.00	
2,500.0	6.18	217.04	2,492.0	-125.3	-89.5	-125.3	0.00	0.00	
2,600.0	6.18	217.04	2,591.4	-133.9	-96.0	-133.9	0.00	0.00	
2,700.0	6.18	217.04	2,690.8	-142.5	-102.5	-142.5	0.00	0.00	
2,800.0	6.18	217.04	2,790.2	-151.1	-109.0	-151.1	0.00	0.00	
2,900.0	6.18	217.04	2,889.7	-159.7	-115.5	-159.7	0.00	0.00	
3,000.0	6.18	217.04	2,989.1	-168.3	-121.9	-168.3	0.00	0.00	
3,100.0	6.18	217.04	3,088.5	-176.9	-128.4	-176.9	0.00	0.00	
3,200.0	6.18	217.04	3,187.9	-185.5	-134.9	-185.5	0.00	0.00	
3,300.0	6.18	217.04	3,287.3	-194.1	-141.4	-194.1	0.00	0.00	
3,400.0	6.18	217.04	3,386.8	-202.7	-147.9	-202.7	0.00	0.00	
3,500.0	6.18	217.04	3,486.2	-211.3	-154.4	-211.3	0.00	0.00	
3,600.0	6.18	217.04	3,585.6	-219.9	-160.9	-219.9	0.00	0.00	
3,700.0	6.18	217.04	3,685.0	-228.5	-167.4	-228.5	0.00	0.00	
3,800.0	6.18	217.04	3,784.4	-237.1	-173.8	-237.1	0.00	0.00	
3,900.0	6.18	217.04	3,883.8	-245.7	-180.3	-245.7	0.00	0.00	
4,000.0	6.18	217.04	3,983.3	-254.3	-186.8	-254.3	0.00	0.00	
4,100.0	6.18	217.04	4,082.7	-262.9	-193.3	-262.9	0.00	0.00	
4,200.0	6.18	217.04	4,182.1	-271.5	-199.8	-271.5	0.00	0.00	
4,300.0	6.18	217.04	4,281.5	-280.1	-206.3	-280.1	0.00	0.00	
4,400.0	6.18	217.04	4,380.9	-288.7	-212.8	-288.7	0.00	0.00	
4,412.1	6.18	217.04	4,393.0	-289.7	-213.6	-289.7	0.00	0.00	Sussex
4,500.0	6.18	217.04	4,480.4	-297.3	-219.3	-297.3	0.00	0.00	
4,600.0	6.18	217.04	4,579.8	-305.9	-225.7	-305.9	0.00	0.00	
4,700.0	6.18	217.04	4,679.2	-314.5	-232.2	-314.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	well @ 4997.0ft
Project:	DJ Wattenberg	MD Reference:	well @ 4997.0ft
Site:	S26-T2N-R68W (Sullivan)	North Reference:	True
Well:	Sullivan 4H-26H-P268	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
4,800.0	6.18	217.04	4,778.6	-323.1	-238.7	-323.1	0.00	0.00	
4,900.0	6.18	217.04	4,878.0	-331.7	-245.2	-331.7	0.00	0.00	
4,976.4	6.18	217.04	4,954.0	-338.2	-250.2	-338.2	0.00	0.00	Shannon
5,000.0	6.18	217.04	4,977.4	-340.3	-251.7	-340.3	0.00	0.00	
5,100.0	6.18	217.04	5,076.9	-348.9	-258.2	-348.9	0.00	0.00	
5,200.0	6.18	217.04	5,176.3	-357.4	-264.7	-357.4	0.00	0.00	
5,300.0	6.18	217.04	5,275.7	-366.0	-271.2	-366.0	0.00	0.00	
5,400.0	6.18	217.04	5,375.1	-374.6	-277.6	-374.6	0.00	0.00	
5,500.0	6.18	217.04	5,474.5	-383.2	-284.1	-383.2	0.00	0.00	
5,600.0	6.18	217.04	5,574.0	-391.8	-290.6	-391.8	0.00	0.00	
5,700.0	6.18	217.04	5,673.4	-400.4	-297.1	-400.4	0.00	0.00	
5,800.0	6.18	217.04	5,772.8	-409.0	-303.6	-409.0	0.00	0.00	
5,900.0	6.18	217.04	5,872.2	-417.6	-310.1	-417.6	0.00	0.00	
6,000.0	6.18	217.04	5,971.6	-426.2	-316.6	-426.2	0.00	0.00	
6,100.0	6.18	217.04	6,071.1	-434.8	-323.1	-434.8	0.00	0.00	
6,200.0	6.18	217.04	6,170.5	-443.4	-329.5	-443.4	0.00	0.00	
6,300.0	6.18	217.04	6,269.9	-452.0	-336.0	-452.0	0.00	0.00	
6,400.0	6.18	217.04	6,369.3	-460.6	-342.5	-460.6	0.00	0.00	
6,500.0	6.18	217.04	6,468.7	-469.2	-349.0	-469.2	0.00	0.00	
6,600.0	6.18	217.04	6,568.1	-477.8	-355.5	-477.8	0.00	0.00	
6,700.0	6.18	217.04	6,667.6	-486.4	-362.0	-486.4	0.00	0.00	
6,782.9	6.18	217.04	6,750.0	-493.5	-367.4	-493.5	0.00	0.00	Teepee Buttes (*if present)
6,800.0	6.18	217.04	6,767.0	-495.0	-368.5	-495.0	0.00	0.00	
6,900.0	6.18	217.04	6,866.4	-503.6	-375.0	-503.6	0.00	0.00	
7,000.0	6.18	217.04	6,965.8	-512.2	-381.4	-512.2	0.00	0.00	
7,043.6	6.18	217.04	7,009.1	-516.0	-384.3	-516.0	0.00	0.00	Start build/turn @ 7043' MD
7,100.0	3.80	280.81	7,065.4	-518.0	-387.9	-518.0	10.00	-4.22	
7,200.0	11.34	341.01	7,164.5	-508.1	-394.4	-508.1	10.00	7.54	
7,276.1	18.69	348.88	7,238.0	-489.0	-399.2	-489.0	10.00	9.66	Sharon Springs
7,300.0	21.03	350.23	7,260.5	-481.0	-400.7	-481.0	9.99	9.81	
7,372.1	28.15	353.00	7,326.0	-451.4	-404.9	-451.4	10.00	9.88	Niobrara
7,400.0	30.92	353.74	7,350.3	-437.7	-406.5	-437.7	9.99	9.91	
7,452.5	36.13	354.87	7,394.0	-408.9	-409.4	-408.9	10.00	9.93	B Chalk
7,478.9	38.76	355.34	7,415.0	-392.9	-410.8	-392.9	10.00	9.94	B Marl
7,500.0	40.85	355.67	7,431.2	-379.4	-411.8	-379.4	9.99	9.94	
7,572.7	48.09	356.64	7,483.0	-328.7	-415.2	-328.7	10.00	9.96	C Chalk
7,600.0	50.81	356.95	7,500.8	-307.9	-416.4	-307.9	9.99	9.96	
7,608.3	51.64	357.04	7,506.0	-301.4	-416.7	-301.4	10.02	9.98	C Marl
7,654.2	56.22	357.50	7,533.0	-264.4	-418.5	-264.4	10.00	9.97	D Chalk
7,700.0	60.78	357.91	7,556.9	-225.4	-420.0	-225.4	10.00	9.97	
7,794.3	70.19	358.65	7,596.0	-139.8	-422.6	-139.8	10.00	9.98	Fort Hayes
7,800.0	70.76	358.69	7,597.9	-134.4	-422.7	-134.4	9.97	9.95	
7,875.3	78.27	359.22	7,618.0	-61.9	-424.0	-61.9	10.00	9.98	Codell
7,900.0	80.73	359.39	7,622.5	-37.6	-424.3	-37.6	9.99	9.97	
7,992.9	90.00	0.00	7,630.0	54.9	-424.8	54.9	10.00	9.98	LP @ 7630' TVD; 90°
8,000.0	90.00	0.00	7,630.0	62.0	-424.8	62.0	0.00	0.00	
8,100.0	90.00	0.00	7,630.0	162.0	-424.8	162.0	0.00	0.00	
8,200.0	90.00	0.00	7,630.0	262.0	-424.8	262.0	0.00	0.00	
8,300.0	90.00	0.00	7,630.0	362.0	-424.8	362.0	0.00	0.00	
8,400.0	90.00	0.00	7,630.0	462.0	-424.8	462.0	0.00	0.00	
8,500.0	90.00	0.00	7,630.0	562.0	-424.8	562.0	0.00	0.00	
8,600.0	90.00	0.00	7,630.0	662.0	-424.8	662.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	well @ 4997.0ft
Project:	DJ Wattenberg	MD Reference:	well @ 4997.0ft
Site:	S26-T2N-R68W (Sullivan)	North Reference:	True
Well:	Sullivan 4H-26H-P268	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
8,700.0	90.00	0.00	7,630.0	762.0	-424.8	762.0	0.00	0.00	
8,800.0	90.00	0.00	7,630.0	862.0	-424.8	862.0	0.00	0.00	
8,900.0	90.00	0.00	7,630.0	962.0	-424.8	962.0	0.00	0.00	
9,000.0	90.00	0.00	7,630.0	1,062.0	-424.8	1,062.0	0.00	0.00	
9,100.0	90.00	0.00	7,630.0	1,162.0	-424.8	1,162.0	0.00	0.00	
9,200.0	90.00	0.00	7,630.0	1,262.0	-424.8	1,262.0	0.00	0.00	
9,300.0	90.00	0.00	7,630.0	1,362.0	-424.8	1,362.0	0.00	0.00	
9,400.0	90.00	0.00	7,630.0	1,462.0	-424.8	1,462.0	0.00	0.00	
9,500.0	90.00	0.00	7,630.0	1,562.0	-424.8	1,562.0	0.00	0.00	
9,600.0	90.00	0.00	7,630.0	1,662.0	-424.8	1,662.0	0.00	0.00	
9,700.0	90.00	0.00	7,630.0	1,762.0	-424.8	1,762.0	0.00	0.00	
9,800.0	90.00	0.00	7,630.0	1,862.0	-424.8	1,862.0	0.00	0.00	
9,900.0	90.00	0.00	7,630.0	1,962.0	-424.8	1,962.0	0.00	0.00	
10,000.0	90.00	0.00	7,630.0	2,062.0	-424.8	2,062.0	0.00	0.00	
10,100.0	90.00	0.00	7,630.0	2,162.0	-424.8	2,162.0	0.00	0.00	
10,200.0	90.00	0.00	7,630.0	2,262.0	-424.8	2,262.0	0.00	0.00	
10,300.0	90.00	0.00	7,630.0	2,362.0	-424.8	2,362.0	0.00	0.00	
10,400.0	90.00	0.00	7,630.0	2,462.0	-424.8	2,462.0	0.00	0.00	
10,500.0	90.00	0.00	7,630.0	2,562.0	-424.8	2,562.0	0.00	0.00	
10,600.0	90.00	0.00	7,630.0	2,662.0	-424.8	2,662.0	0.00	0.00	
10,700.0	90.00	0.00	7,630.0	2,762.0	-424.8	2,762.0	0.00	0.00	
10,800.0	90.00	0.00	7,630.0	2,862.0	-424.8	2,862.0	0.00	0.00	
10,900.0	90.00	0.00	7,630.0	2,962.0	-424.8	2,962.0	0.00	0.00	
11,000.0	90.00	0.00	7,630.0	3,062.0	-424.8	3,062.0	0.00	0.00	
11,100.0	90.00	0.00	7,630.0	3,162.0	-424.8	3,162.0	0.00	0.00	
11,200.0	90.00	0.00	7,630.0	3,262.0	-424.8	3,262.0	0.00	0.00	
11,300.0	90.00	0.00	7,630.0	3,362.0	-424.8	3,362.0	0.00	0.00	
11,400.0	90.00	0.00	7,630.0	3,462.0	-424.8	3,462.0	0.00	0.00	
11,500.0	90.00	0.00	7,630.0	3,562.0	-424.8	3,562.0	0.00	0.00	
11,600.0	90.00	0.00	7,630.0	3,662.0	-424.8	3,662.0	0.00	0.00	
11,700.0	90.00	0.00	7,630.0	3,762.0	-424.8	3,762.0	0.00	0.00	
11,800.0	90.00	0.00	7,630.0	3,862.0	-424.8	3,862.0	0.00	0.00	
11,900.0	90.00	0.00	7,630.0	3,962.0	-424.8	3,962.0	0.00	0.00	
12,000.0	90.00	0.00	7,630.0	4,062.0	-424.8	4,062.0	0.00	0.00	
12,100.0	90.00	0.00	7,630.0	4,162.0	-424.8	4,162.0	0.00	0.00	
12,200.0	90.00	0.00	7,630.0	4,262.0	-424.8	4,262.0	0.00	0.00	
12,300.0	90.00	0.00	7,630.0	4,362.0	-424.8	4,362.0	0.00	0.00	
12,400.0	90.00	0.00	7,630.0	4,462.0	-424.8	4,462.0	0.00	0.00	
12,500.0	90.00	0.00	7,630.0	4,562.0	-424.8	4,562.0	0.00	0.00	
12,600.0	90.00	0.00	7,630.0	4,662.0	-424.8	4,662.0	0.00	0.00	
12,700.0	90.00	0.00	7,630.0	4,762.0	-424.8	4,762.0	0.00	0.00	
12,800.0	90.00	0.00	7,630.0	4,862.0	-424.8	4,862.0	0.00	0.00	
12,900.0	90.00	0.00	7,630.0	4,962.0	-424.8	4,962.0	0.00	0.00	
13,000.0	90.00	0.00	7,630.0	5,062.0	-424.8	5,062.0	0.00	0.00	
13,100.0	90.00	0.00	7,630.0	5,162.0	-424.8	5,162.0	0.00	0.00	
13,200.0	90.00	0.00	7,630.0	5,262.0	-424.8	5,262.0	0.00	0.00	
13,300.0	90.00	0.00	7,630.0	5,362.0	-424.8	5,362.0	0.00	0.00	
13,400.0	90.00	0.00	7,630.0	5,462.0	-424.8	5,462.0	0.00	0.00	
13,500.0	90.00	0.00	7,630.0	5,562.0	-424.8	5,562.0	0.00	0.00	
13,600.0	90.00	0.00	7,630.0	5,662.0	-424.8	5,662.0	0.00	0.00	
13,700.0	90.00	0.00	7,630.0	5,762.0	-424.8	5,762.0	0.00	0.00	
13,800.0	90.00	0.00	7,630.0	5,862.0	-424.8	5,862.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	well @ 4997.0ft
Project:	DJ Wattenberg	MD Reference:	well @ 4997.0ft
Site:	S26-T2N-R68W (Sullivan)	North Reference:	True
Well:	Sullivan 4H-26H-P268	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
13,900.0	90.00	0.00	7,630.0	5,962.0	-424.8	5,962.0	0.00	0.00	
14,000.0	90.00	0.00	7,630.0	6,062.0	-424.8	6,062.0	0.00	0.00	
14,100.0	90.00	0.00	7,630.0	6,162.0	-424.8	6,162.0	0.00	0.00	
14,200.0	90.00	0.00	7,630.0	6,262.0	-424.8	6,262.0	0.00	0.00	
14,300.0	90.00	0.00	7,630.0	6,362.0	-424.8	6,362.0	0.00	0.00	
14,400.0	90.00	0.00	7,630.0	6,462.0	-424.8	6,462.0	0.00	0.00	
14,500.0	90.00	0.00	7,630.0	6,562.0	-424.8	6,562.0	0.00	0.00	
14,600.0	90.00	0.00	7,630.0	6,662.0	-424.8	6,662.0	0.00	0.00	
14,700.0	90.00	0.00	7,630.0	6,762.0	-424.8	6,762.0	0.00	0.00	
14,800.0	90.00	0.00	7,630.0	6,862.0	-424.8	6,862.0	0.00	0.00	
14,857.9	90.00	0.00	7,630.0	6,919.9	-424.8	6,919.9	0.00	0.00	TD at 14857.9

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
PBHL 4H-26H-P268 - plan hits target center - Point	0.00	0.00	7,630.0	6,919.9	-424.8	1,288,047.84	3,149,820.90	40.122835	-104.964273

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
350.0	350.0	Fox Hills - BASE			
4,412.1	4,393.0	Sussex			
4,976.4	4,954.0	Shannon			
6,782.9	6,750.0	Teepee Buttes (*if present)			
7,276.1	7,238.0	Sharon Springs			
7,372.1	7,326.0	Niobrara			
7,452.5	7,394.0	B Chalk			
7,478.9	7,415.0	B Marl			
7,572.7	7,483.0	C Chalk			
7,608.3	7,506.0	C Marl			
7,654.2	7,533.0	D Chalk			
7,794.3	7,596.0	Fort Hayes			
7,875.3	7,618.0	Codell			

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	well @ 4997.0ft
Project:	DJ Wattenberg	MD Reference:	well @ 4997.0ft
Site:	S26-T2N-R68W (Sullivan)	North Reference:	True
Well:	Sullivan 4H-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
900.0	900.0	0.0	0.0	KOP @ 900'
1,050.0	1,049.9	-3.9	-0.7	End of nudge @ 1050' MD
1,238.3	1,237.6	-16.8	-7.6	EOB: Inc=6.18°
7,043.6	7,009.1	-516.0	-384.3	Start build/turn @ 7043' MD
7,992.9	7,630.0	54.9	-424.8	LP @ 7630' TVD; 90°
14,857.9	7,630.0	6,919.9	-424.8	TD at 14857.9

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S26-T2N-R68W (Sullivan)

Sullivan 4H-26H-P268

HZ

Plan #1

Anticollision Report

26 August, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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:	0.0 to 14,337.0ft	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	8/26/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,857.8	Plan #1 (HZ)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S26-T2N-R68W (Sullivan)						
BERGER 32-23 (EXISTING) - SUNDANCE WELL - NO S						Out of range
BERGER 42-23C (EXISTING) - SUNDANCE WELL - NO						Out of range
GRANT 1 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
GRANT 3 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
GRANT 4 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
GRANT BROS 41-26 (EXISTING) - SUNDANCE WELL -						Out of range
GRANT BROS 43-23 (EXISTING) - SUNDANCE WELL -						Out of range
GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL	11,090.8	7,578.0	158.4	86.5	2.202	CC, ES
GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL	11,100.0	7,578.0	158.6	86.6	2.201	SF
GRANT BROTHERS 23-2Ae (EXISTING) - SUNDANCE						Out of range
GRANT BROTHERS 23-43 (EXISTING) - SUNDANCE W	14,300.0	7,845.7	491.3	348.7	3.445	CC, ES, SF
GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE W	14,015.6	7,210.0	616.1	527.8	6.973	CC, ES
GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE W	14,100.0	7,210.0	621.9	532.5	6.960	SF
GRANT BROTHERS 31-26 (EXISTING) - ENCANA WEL	12,159.3	7,558.0	914.0	823.8	10.130	CC, ES
GRANT BROTHERS 31-26 (EXISTING) - ENCANA WEL	12,300.0	7,558.0	924.8	832.1	9.980	SF
GRANT BROTHERS 32-26 (EXISTING) - ENCANA WEL						Out of range
GRANT BROTHERS 3-23 (EXISTING) - ENCANA WELL	13,713.9	7,574.8	702.3	591.7	6.350	CC, ES
GRANT BROTHERS 3-23 (EXISTING) - ENCANA WELL	13,800.0	7,573.5	707.6	595.5	6.312	SF
GRANT BROTHERS 33-23C (EXISTING) - SUNDANCE	14,300.0	7,544.0	914.9	787.6	7.184	CC, ES, SF
GRANT BROTHERS 34-23C (EXISTING) - SUNDANCE	13,357.1	7,550.0	863.9	752.9	7.785	CC, ES
GRANT BROTHERS 34-23C (EXISTING) - SUNDANCE	13,500.0	7,550.0	875.7	762.2	7.719	SF
GRANT BROTHERS 42-26 (EXISTING) - ENCANA WEL	10,617.9	7,645.0	399.3	332.8	6.003	CC, ES, SF
GRANT BROTHERS 44-23C (EXISTING) - SUNDANCE	13,255.4	7,590.0	360.2	250.9	3.296	CC, ES, SF
JOHNSON 1 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
JOHNSON 2 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS	900.0	862.0	97.3	94.3	32.220	CC, ES
MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS	1,700.0	1,658.6	150.1	144.2	25.599	SF
MEREDITH 2 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
PACE-CONNELLY 1 (EXISTING) - FOUNDATION WELL						Out of range
SULLIVAN 1 (EXISTING) - ENCANA WELL - NO SURVE	9,380.9	7,591.0	61.4	17.8	1.407	Level 3, CC, ES, SF
SULLIVAN 33-26 (EXISTING) - ENCANA WELL - NO SU						Out of range
SULLIVAN 34-26 (EXISTING) - ENCANA WELL - SURVE						Out of range
SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SU	1,274.9	1,238.0	8.8	4.4	2.007	CC, ES, SF
SULLIVAN 4-6-26 (EXISTING) - ENCANA WELL - SURV						Out of range
Sullivan 4A-26H-P268 - HZ - Plan #1	200.0	198.0	69.9	69.3	119.966	CC, ES
Sullivan 4A-26H-P268 - HZ - Plan #1	700.0	682.0	110.8	108.5	48.178	SF
Sullivan 4B-26H-P268 - HZ - Plan #1	300.0	299.0	59.9	58.9	64.110	CC, ES
Sullivan 4B-26H-P268 - HZ - Plan #1	700.0	688.9	86.0	83.7	37.181	SF
Sullivan 4C-26H-P268 - HZ - Plan #1	400.0	399.0	49.8	48.5	38.815	CC, ES
Sullivan 4C-26H-P268 - HZ - Plan #1	700.0	693.2	64.3	62.0	27.710	SF
Sullivan 4D-26H-P268 - HZ - Plan #1	500.0	499.0	40.0	38.4	24.513	CC, ES
Sullivan 4D-26H-P268 - HZ - Plan #1	14,300.0	14,272.7	911.8	685.8	4.034	SF
Sullivan 4E-26H-P268 - HZ - Plan #1	600.0	599.0	29.9	28.0	15.110	CC, ES
Sullivan 4E-26H-P268 - HZ - Plan #1	14,300.0	14,370.2	674.8	446.4	2.955	SF
Sullivan 4F-26H-P268 - HZ - Plan #1	700.0	699.0	19.9	17.5	8.524	CC, ES
Sullivan 4F-26H-P268 - HZ - Plan #1	14,300.0	14,117.9	499.9	294.6	2.436	SF
Sullivan 4G-26H-P268 - HZ - Plan #1	800.0	799.0	9.8	7.1	3.654	CC, ES
Sullivan 4G-26H-P268 - HZ - Plan #1	14,300.0	14,184.6	264.4	66.1	1.333	Level 3, SF
Sullivan 4I-26H-P268 - HZ - Plan #1	900.0	900.0	10.1	7.0	3.324	CC, ES
Sullivan 4I-26H-P268 - HZ - Plan #1	14,300.0	14,065.8	314.9	151.9	1.933	SF
Sullivan 4J-26H-P268 - HZ - Plan #1	900.0	899.0	20.1	17.1	6.651	CC, ES
Sullivan 4J-26H-P268 - HZ - Plan #1	14,300.0	14,183.9	489.3	268.9	2.220	SF
Sullivan 4K-26H-P268 - HZ - Plan #1	900.0	899.0	30.2	27.2	9.977	CC

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S26-T2N-R68W (Sullivan)						
Sullivan 4K-26H-P268 - HZ - Plan #1	1,000.0	999.0	30.6	27.2	9.047	ES
Sullivan 4K-26H-P268 - HZ - Plan #1	14,300.0	14,290.4	674.2	445.9	2.952	SF
Sullivan 4L-26H-P268 - HZ - Plan #1	900.0	899.0	40.0	37.0	13.210	CC
Sullivan 4L-26H-P268 - HZ - Plan #1	1,000.0	999.0	40.3	36.9	11.938	ES
Sullivan 4L-26H-P268 - HZ - Plan #1	14,300.0	14,098.5	935.9	713.8	4.213	SF
SULLIVAN 6-8-26 (EXISTING) - ENCANA WELL - SURV	7,505.3	7,524.9	558.8	528.7	18.580	CC, ES, SF
SULLIVAN 8-6-26 (EXISTING) - ENCANA WELL - SURV	8,717.0	7,698.5	888.4	849.9	23.072	CC, ES
SULLIVAN 8-6-26 (EXISTING) - ENCANA WELL - SURV	9,000.0	7,696.7	932.4	890.0	21.972	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8110-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,630.0	7,578.0	7,578.0	44.3	13.2	-90.00	3,152.9	-583.2	904.8	847.9	56.88	15.908		
10,300.0	7,630.0	7,578.0	7,578.0	45.9	13.2	-90.00	3,152.9	-583.2	806.5	748.0	58.55	13.776		
10,400.0	7,630.0	7,578.0	7,578.0	47.6	13.2	-90.00	3,152.9	-583.2	708.8	648.5	60.22	11.769		
10,500.0	7,630.0	7,578.0	7,578.0	49.2	13.2	-90.00	3,152.9	-583.2	611.7	549.8	61.90	9.882		
10,600.0	7,630.0	7,578.0	7,578.0	50.9	13.2	-90.00	3,152.9	-583.2	515.8	452.2	63.59	8.111		
10,700.0	7,630.0	7,578.0	7,578.0	52.6	13.2	-90.00	3,152.9	-583.2	421.7	356.4	65.28	6.460		
10,800.0	7,630.0	7,578.0	7,578.0	54.3	13.2	-90.00	3,152.9	-583.2	331.2	264.2	66.97	4.945		
10,900.0	7,630.0	7,578.0	7,578.0	55.9	13.2	-90.00	3,152.9	-583.2	248.0	179.3	68.67	3.611		
11,000.0	7,630.0	7,578.0	7,578.0	57.6	13.2	-90.00	3,152.9	-583.2	182.6	112.2	70.37	2.594		
11,090.8	7,630.0	7,578.0	7,578.0	59.2	13.2	-90.00	3,152.9	-583.2	158.4	86.5	71.92	2.202 CC, ES		
11,100.0	7,630.0	7,578.0	7,578.0	59.3	13.2	-90.00	3,152.9	-583.2	158.6	86.6	72.08	2.201 SF		
11,200.0	7,630.0	7,578.0	7,578.0	61.0	13.2	-90.00	3,152.9	-583.2	192.3	118.6	73.78	2.607		
11,300.0	7,630.0	7,578.0	7,578.0	62.7	13.2	-90.00	3,152.9	-583.2	262.3	186.9	75.49	3.475		
11,400.0	7,630.0	7,578.0	7,578.0	64.4	13.2	-90.00	3,152.9	-583.2	347.4	270.2	77.21	4.499		
11,500.0	7,630.0	7,578.0	7,578.0	66.1	13.2	-90.00	3,152.9	-583.2	438.7	359.8	78.92	5.559		
11,600.0	7,630.0	7,578.0	7,578.0	67.8	13.2	-90.00	3,152.9	-583.2	533.2	452.6	80.64	6.613		
11,700.0	7,630.0	7,578.0	7,578.0	69.5	13.2	-90.00	3,152.9	-583.2	629.4	547.0	82.36	7.643		
11,800.0	7,630.0	7,578.0	7,578.0	71.2	13.2	-90.00	3,152.9	-583.2	726.6	642.5	84.08	8.643		
11,900.0	7,630.0	7,578.0	7,578.0	73.0	13.2	-90.00	3,152.9	-583.2	824.5	738.7	85.80	9.610		
12,000.0	7,630.0	7,578.0	7,578.0	74.7	13.2	-90.00	3,152.9	-583.2	922.8	835.3	87.52	10.544		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - GRANT BROTHERS 23-43 (EXISTING) - SUNDANCE WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 177-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,800.0	7,630.0	7,835.8	7,532.9	105.8	36.8	86.05	6,768.4	-149.1	947.6	813.9	133.68	7.088	
13,900.0	7,630.0	7,837.7	7,534.9	107.5	36.8	86.46	6,768.5	-149.1	852.4	717.0	135.48	6.292	
14,000.0	7,630.0	7,839.7	7,536.9	109.2	36.8	86.87	6,768.5	-149.1	758.5	621.2	137.27	5.526	
14,100.0	7,630.0	7,841.7	7,538.9	111.0	36.8	87.28	6,768.5	-149.1	666.4	527.3	139.05	4.792	
14,200.0	7,630.0	7,843.7	7,540.9	112.7	36.8	87.70	6,768.6	-149.1	576.8	436.0	140.83	4.096	
14,300.0	7,630.0	7,845.7	7,542.9	114.4	36.8	88.12	6,768.6	-149.1	491.3	348.7	142.60	3.445 CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE WELL - NO SURVE											Offset Site Error:		0.0 ft
Survey Program: 118-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
13,300.0	7,630.0	7,210.0	7,098.0	97.1	21.2	-42.39	6,077.6	-840.1	944.3	864.4	79.93	11.813	
13,400.0	7,630.0	7,210.0	7,098.0	98.8	21.2	-42.39	6,077.6	-840.1	871.0	789.8	81.11	10.738	
13,500.0	7,630.0	7,210.0	7,098.0	100.5	21.2	-42.39	6,077.6	-840.1	803.4	721.1	82.28	9.764	
13,600.0	7,630.0	7,210.0	7,098.0	102.3	21.2	-42.39	6,077.6	-840.1	743.2	659.7	83.46	8.905	
13,700.0	7,630.0	7,210.0	7,098.0	104.0	21.2	-42.39	6,077.6	-840.1	692.2	607.6	84.64	8.179	
13,800.0	7,630.0	7,210.0	7,098.0	105.8	21.2	-42.39	6,077.6	-840.1	652.7	566.9	85.81	7.607	
13,900.0	7,630.0	7,210.0	7,098.0	107.5	21.2	-42.39	6,077.6	-840.1	626.9	539.9	86.99	7.206	
14,000.0	7,630.0	7,210.0	7,098.0	109.2	21.2	-42.39	6,077.6	-840.1	616.3	528.1	88.17	6.990	
14,015.6	7,630.0	7,210.0	7,098.0	109.5	21.2	-42.39	6,077.6	-840.1	616.1	527.8	88.35	6.973 CC, ES	
14,100.0	7,630.0	7,210.0	7,098.0	111.0	21.2	-42.39	6,077.6	-840.1	621.9	532.5	89.34	6.960 SF	
14,200.0	7,630.0	7,210.0	7,098.0	112.7	21.2	-42.39	6,077.6	-840.1	643.1	552.6	90.52	7.104	
14,300.0	7,630.0	7,210.0	7,098.0	114.4	21.2	-42.39	6,077.6	-840.1	678.6	586.9	91.70	7.400	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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		S26-T2N-R68W (Sullivan) - GRANT BROTHERS 31-26 (EXISTING) - ENCANA WELL - NO SURVEYS										Offset Site Error:		0.0 ft
Survey Program:		8118-Geolink MWD										Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,800.0	7,630.0	7,558.0	7,558.0	71.2	13.2	-90.00	4,221.3	-1,338.8	982.1	898.1	84.04	11.686		
11,900.0	7,630.0	7,558.0	7,558.0	73.0	13.2	-90.00	4,221.3	-1,338.8	950.1	864.3	85.76	11.078		
12,000.0	7,630.0	7,558.0	7,558.0	74.7	13.2	-90.00	4,221.3	-1,338.8	927.8	840.3	87.49	10.605		
12,100.0	7,630.0	7,558.0	7,558.0	76.4	13.2	-90.00	4,221.3	-1,338.8	916.0	826.8	89.21	10.267		
12,159.3	7,630.0	7,558.0	7,558.0	77.4	13.2	-90.00	4,221.3	-1,338.8	914.0	823.8	90.23	10.130	CC, ES	
12,200.0	7,630.0	7,558.0	7,558.0	78.1	13.2	-90.00	4,221.3	-1,338.8	914.9	824.0	90.94	10.061		
12,300.0	7,630.0	7,558.0	7,558.0	79.8	13.2	-90.00	4,221.3	-1,338.8	924.8	832.1	92.66	9.980	SF	
12,400.0	7,630.0	7,558.0	7,558.0	81.5	13.2	-90.00	4,221.3	-1,338.8	945.2	850.8	94.39	10.014		
12,500.0	7,630.0	7,558.0	7,558.0	83.3	13.2	-90.00	4,221.3	-1,338.8	975.5	879.3	96.12	10.148		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - GRANT BROTHERS 3-23 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
13,100.0	7,630.0	7,584.0	7,581.6	93.6	6.6	-91.11	5,775.8	-1,127.1	932.8	832.8	99.93	9.334		
13,200.0	7,630.0	7,582.5	7,580.2	95.4	6.6	-90.99	5,775.8	-1,127.1	870.2	768.6	101.67	8.559		
13,300.0	7,630.0	7,581.0	7,578.7	97.1	6.6	-90.87	5,775.8	-1,127.1	815.2	711.8	103.41	7.883		
13,400.0	7,630.0	7,579.6	7,577.2	98.8	6.6	-90.75	5,775.8	-1,127.1	769.3	664.1	105.15	7.316		
13,500.0	7,630.0	7,578.1	7,575.7	100.5	6.6	-90.63	5,775.9	-1,127.1	734.2	627.3	106.89	6.869		
13,600.0	7,630.0	7,576.5	7,574.2	102.3	6.6	-90.50	5,775.9	-1,127.1	711.5	602.9	108.63	6.550		
13,700.0	7,630.0	7,575.0	7,572.7	104.0	6.6	-90.38	5,775.9	-1,127.1	702.5	592.1	110.36	6.365		
13,713.9	7,630.0	7,574.8	7,572.4	104.3	6.6	-90.36	5,775.9	-1,127.1	702.3	591.7	110.61	6.350 CC, ES		
13,800.0	7,630.0	7,573.5	7,571.1	105.8	6.6	-90.25	5,775.9	-1,127.1	707.6	595.5	112.10	6.312 SF		
13,900.0	7,630.0	7,571.9	7,569.6	107.5	6.6	-90.13	5,775.9	-1,127.1	726.6	612.7	113.84	6.382		
14,000.0	7,630.0	7,570.4	7,568.0	109.2	6.6	-90.00	5,776.0	-1,127.1	758.4	642.8	115.58	6.561		
14,100.0	7,630.0	7,568.8	7,566.4	111.0	6.6	-89.87	5,776.0	-1,127.2	801.5	684.1	117.32	6.831		
14,200.0	7,630.0	7,567.2	7,564.9	112.7	6.6	-89.74	5,776.0	-1,127.2	854.1	735.1	119.06	7.174		
14,300.0	7,630.0	7,565.6	7,563.3	114.4	6.6	-89.62	5,776.0	-1,127.2	914.7	793.9	120.80	7.572		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - GRANT BROTHERS 33-23C (EXISTING) - SUNDANCE WELL - NO SURV													Offset Site Error: 0.0 ft
Survey Program: 8100-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
14,200.0	7,630.0	7,544.0	7,544.0	112.7	13.2	-90.00	6,695.1	-1,276.9	955.9	830.3	125.61	7.610	
14,300.0	7,630.0	7,544.0	7,544.0	114.4	13.2	-90.00	6,695.1	-1,276.9	914.9	787.6	127.36	7.184	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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		S26-T2N-R68W (Sullivan) - GRANT BROTHERS 34-23C (EXISTING) - SUNDANCE WELL - NO SURV										Offset Site Error:		0.0 ft	
Survey Program:		8090-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis				Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)					
12,900.0	7,630.0	7,550.0	7,550.0	90.2	13.2	-90.00	5,419.1	-1,288.7	977.4	874.3	103.03	9.486			
13,000.0	7,630.0	7,550.0	7,550.0	91.9	13.2	-90.00	5,419.1	-1,288.7	934.8	830.0	104.77	8.922			
13,100.0	7,630.0	7,550.0	7,550.0	93.6	13.2	-90.00	5,419.1	-1,288.7	901.3	794.8	106.50	8.463			
13,200.0	7,630.0	7,550.0	7,550.0	95.4	13.2	-90.00	5,419.1	-1,288.7	878.1	769.8	108.24	8.112			
13,300.0	7,630.0	7,550.0	7,550.0	97.1	13.2	-90.00	5,419.1	-1,288.7	865.8	755.8	109.98	7.873			
13,357.1	7,630.0	7,550.0	7,550.0	98.1	13.2	-90.00	5,419.1	-1,288.7	863.9	752.9	110.97	7.785	CC, ES		
13,400.0	7,630.0	7,550.0	7,550.0	98.8	13.2	-90.00	5,419.1	-1,288.7	865.0	753.3	111.71	7.743			
13,500.0	7,630.0	7,550.0	7,550.0	100.5	13.2	-90.00	5,419.1	-1,288.7	875.7	762.2	113.45	7.719	SF		
13,600.0	7,630.0	7,550.0	7,550.0	102.3	13.2	-90.00	5,419.1	-1,288.7	897.4	782.2	115.19	7.791			
13,700.0	7,630.0	7,550.0	7,550.0	104.0	13.2	-90.00	5,419.1	-1,288.7	929.5	812.6	116.93	7.949			
13,800.0	7,630.0	7,550.0	7,550.0	105.8	13.2	-90.00	5,419.1	-1,288.7	970.8	852.2	118.66	8.181			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - GRANT BROTHERS 42-26 (EXISTING) - ENCANA WELL - Existing													Offset Site Error: 0.0 ft	
Survey Program: 951-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,800.0	7,630.0	7,641.8	7,576.7	37.8	18.9	89.38	2,679.9	-25.5	910.1	857.2	52.90	17.204		
9,900.0	7,630.0	7,642.2	7,577.0	39.4	18.9	89.43	2,679.9	-25.5	821.4	766.9	54.54	15.061		
10,000.0	7,630.0	7,642.5	7,577.4	41.0	18.9	89.48	2,679.9	-25.5	735.7	679.5	56.19	13.093		
10,100.0	7,630.0	7,642.8	7,577.7	42.6	18.9	89.52	2,679.9	-25.5	653.9	596.1	57.84	11.306		
10,200.0	7,630.0	7,643.1	7,578.0	44.3	18.9	89.57	2,679.9	-25.5	578.0	518.5	59.50	9.713		
10,300.0	7,630.0	7,643.5	7,578.3	45.9	18.9	89.62	2,679.9	-25.5	510.4	449.2	61.17	8.343		
10,400.0	7,630.0	7,643.8	7,578.7	47.6	18.9	89.66	2,679.9	-25.5	454.9	392.0	62.85	7.238		
10,500.0	7,630.0	7,645.0	7,579.9	49.2	18.9	89.84	2,679.9	-25.5	416.3	351.8	64.53	6.452		
10,600.0	7,630.0	7,645.0	7,579.9	50.9	18.9	89.84	2,679.9	-25.5	399.7	333.5	66.22	6.037		
10,617.9	7,630.0	7,645.0	7,579.9	51.2	18.9	89.84	2,679.9	-25.5	399.3	332.8	66.52	6.003 CC, ES, SF		
10,700.0	7,630.0	7,645.0	7,579.9	52.6	18.9	89.84	2,679.9	-25.5	407.7	339.8	67.91	6.004		
10,800.0	7,630.0	7,645.0	7,579.9	54.3	18.9	89.84	2,679.9	-25.5	438.9	369.3	69.60	6.306		
10,900.0	7,630.0	7,645.0	7,579.9	55.9	18.9	89.84	2,679.9	-25.5	488.9	417.6	71.30	6.858		
11,000.0	7,630.0	7,645.0	7,579.9	57.6	18.9	89.84	2,679.9	-25.5	552.7	479.7	73.00	7.571		
11,100.0	7,630.0	7,645.0	7,579.9	59.3	18.9	89.84	2,679.9	-25.5	626.0	551.3	74.70	8.380		
11,200.0	7,630.0	7,646.4	7,581.2	61.0	18.9	90.04	2,679.9	-25.5	705.9	629.5	76.41	9.238		
11,300.0	7,630.0	7,646.7	7,581.6	62.7	18.9	90.08	2,679.9	-25.5	790.4	712.3	78.12	10.118		
11,400.0	7,630.0	7,647.0	7,581.9	64.4	18.9	90.13	2,679.9	-25.5	878.2	798.3	79.83	11.000		
11,500.0	7,630.0	7,647.3	7,582.2	66.1	18.9	90.17	2,679.9	-25.5	968.3	886.8	81.55	11.874		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - GRANT BROTHERS 44-23C (EXISTING) - SUNDANCE WELL - NO SURV												Offset Site Error:	0.0 ft
Survey Program: 8150-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
12,400.0	7,630.0	7,590.0	7,590.0	81.5	13.2	90.00	5,317.4	-64.6	928.1	833.7	94.45	9.827	
12,500.0	7,630.0	7,590.0	7,590.0	83.3	13.2	90.00	5,317.4	-64.6	836.9	740.7	96.18	8.701	
12,600.0	7,630.0	7,590.0	7,590.0	85.0	13.2	90.00	5,317.4	-64.6	747.8	649.9	97.91	7.638	
12,700.0	7,630.0	7,590.0	7,590.0	86.7	13.2	90.00	5,317.4	-64.6	662.0	562.3	99.64	6.644	
12,800.0	7,630.0	7,590.0	7,590.0	88.4	13.2	90.00	5,317.4	-64.6	580.6	479.2	101.37	5.728	
12,900.0	7,630.0	7,590.0	7,590.0	90.2	13.2	90.00	5,317.4	-64.6	506.0	402.9	103.10	4.908	
13,000.0	7,630.0	7,590.0	7,590.0	91.9	13.2	90.00	5,317.4	-64.6	441.5	336.7	104.84	4.212	
13,100.0	7,630.0	7,590.0	7,590.0	93.6	13.2	90.00	5,317.4	-64.6	392.3	285.7	106.57	3.681	
13,200.0	7,630.0	7,590.0	7,590.0	95.4	13.2	90.00	5,317.4	-64.6	364.4	256.1	108.31	3.365	
13,255.4	7,630.0	7,590.0	7,590.0	96.3	13.2	90.00	5,317.4	-64.6	360.2	250.9	109.27	3.296 CC, ES, SF	
13,300.0	7,630.0	7,590.0	7,590.0	97.1	13.2	90.00	5,317.4	-64.6	362.9	252.9	110.04	3.298	
13,400.0	7,630.0	7,590.0	7,590.0	98.8	13.2	90.00	5,317.4	-64.6	388.1	276.3	111.78	3.472	
13,500.0	7,630.0	7,590.0	7,590.0	100.5	13.2	90.00	5,317.4	-64.6	435.4	321.9	113.52	3.835	
13,600.0	7,630.0	7,590.0	7,590.0	102.3	13.2	90.00	5,317.4	-64.6	498.5	383.2	115.26	4.325	
13,700.0	7,630.0	7,590.0	7,590.0	104.0	13.2	90.00	5,317.4	-64.6	572.2	455.2	117.00	4.891	
13,800.0	7,630.0	7,590.0	7,590.0	105.8	13.2	90.00	5,317.4	-64.6	652.9	534.2	118.73	5.499	
13,900.0	7,630.0	7,590.0	7,590.0	107.5	13.2	90.00	5,317.4	-64.6	738.4	617.9	120.47	6.129	
14,000.0	7,630.0	7,590.0	7,590.0	109.2	13.2	90.00	5,317.4	-64.6	827.2	704.9	122.21	6.768	
14,100.0	7,630.0	7,590.0	7,590.0	111.0	13.2	90.00	5,317.4	-64.6	918.2	794.3	123.95	7.408	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5120-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-16.54	93.3	-27.7	104.5					
100.0	100.0	62.0	62.0	0.1	0.1	-16.54	93.3	-27.7	97.3	97.1	0.23	428.430		
200.0	200.0	162.0	162.0	0.3	0.3	-16.54	93.3	-27.7	97.3	96.7	0.58	168.866		
300.0	300.0	262.0	262.0	0.5	0.5	-16.54	93.3	-27.7	97.3	96.4	0.93	105.157		
400.0	400.0	362.0	362.0	0.6	0.6	-16.54	93.3	-27.7	97.3	96.0	1.27	76.351		
500.0	500.0	462.0	462.0	0.8	0.8	-16.54	93.3	-27.7	97.3	95.7	1.62	59.934		
600.0	600.0	562.0	562.0	1.0	1.0	-16.54	93.3	-27.7	97.3	95.3	1.97	49.327		
700.0	700.0	662.0	662.0	1.2	1.2	-16.54	93.3	-27.7	97.3	95.0	2.32	41.910		
800.0	800.0	762.0	762.0	1.3	1.3	-16.54	93.3	-27.7	97.3	94.6	2.67	36.432		
900.0	900.0	862.0	862.0	1.5	1.5	-16.54	93.3	-27.7	97.3	94.3	3.02	32.220 CC, ES		
1,000.0	1,000.0	962.0	962.0	1.7	1.7	153.90	93.3	-27.7	98.9	95.5	3.37	29.354		
1,100.0	1,099.8	1,061.8	1,061.8	1.9	1.9	143.76	93.3	-27.7	103.3	99.6	3.72	27.803		
1,200.0	1,199.5	1,161.5	1,161.5	2.1	2.0	133.95	93.3	-27.7	109.2	105.2	4.07	26.840		
1,300.0	1,299.0	1,261.0	1,261.0	2.3	2.2	134.88	93.3	-27.7	116.5	112.1	4.43	26.309		
1,400.0	1,398.4	1,360.4	1,360.4	2.5	2.4	138.39	93.3	-27.7	124.4	119.6	4.79	25.970		
1,500.0	1,497.8	1,459.8	1,459.8	2.7	2.5	141.48	93.3	-27.7	132.6	127.5	5.15	25.761		
1,600.0	1,597.2	1,559.2	1,559.2	2.9	2.7	144.19	93.3	-27.7	141.2	135.7	5.51	25.646		
1,700.0	1,696.6	1,658.6	1,658.6	3.2	2.9	146.60	93.3	-27.7	150.1	144.2	5.86	25.599 SF		
1,800.0	1,796.1	1,758.1	1,758.1	3.4	3.1	148.73	93.3	-27.7	159.2	153.0	6.22	25.602		
1,900.0	1,895.5	1,857.5	1,857.5	3.6	3.2	150.62	93.3	-27.7	168.5	162.0	6.57	25.640		
2,000.0	1,994.9	1,956.9	1,956.9	3.9	3.4	152.32	93.3	-27.7	178.0	171.1	6.93	25.702		
2,100.0	2,094.3	2,056.3	2,056.3	4.1	3.6	153.85	93.3	-27.7	187.6	180.4	7.28	25.781		
2,200.0	2,193.7	2,155.7	2,155.7	4.4	3.8	155.23	93.3	-27.7	197.4	189.7	7.63	25.872		
2,300.0	2,293.1	2,255.1	2,255.1	4.6	3.9	156.47	93.3	-27.7	207.2	199.2	7.98	25.970		
2,400.0	2,392.6	2,354.6	2,354.6	4.9	4.1	157.61	93.3	-27.7	217.1	208.8	8.33	26.073		
2,500.0	2,492.0	2,454.0	2,454.0	5.1	4.3	158.64	93.3	-27.7	227.1	218.5	8.68	26.178		
2,600.0	2,591.4	2,553.4	2,553.4	5.4	4.5	159.59	93.3	-27.7	237.2	228.2	9.03	26.283		
2,700.0	2,690.8	2,652.8	2,652.8	5.6	4.6	160.46	93.3	-27.7	247.3	238.0	9.37	26.388		
2,800.0	2,790.2	2,752.2	2,752.2	5.9	4.8	161.26	93.3	-27.7	257.5	247.8	9.72	26.492		
2,900.0	2,889.7	2,851.7	2,851.7	6.1	5.0	162.00	93.3	-27.7	267.8	257.7	10.07	26.593		
3,000.0	2,989.1	2,951.1	2,951.1	6.4	5.2	162.68	93.3	-27.7	278.0	267.6	10.42	26.693		
3,100.0	3,088.5	3,050.5	3,050.5	6.6	5.3	163.32	93.3	-27.7	288.3	277.6	10.76	26.790		
3,200.0	3,187.9	3,149.9	3,149.9	6.9	5.5	163.91	93.3	-27.7	298.7	287.6	11.11	26.884		
3,300.0	3,287.3	3,249.3	3,249.3	7.1	5.7	164.47	93.3	-27.7	309.0	297.6	11.46	26.975		
3,400.0	3,386.7	3,348.7	3,348.7	7.4	5.8	164.98	93.3	-27.7	319.4	307.6	11.80	27.063		
3,500.0	3,486.2	3,448.2	3,448.2	7.6	6.0	165.47	93.3	-27.7	329.8	317.7	12.15	27.148		
3,600.0	3,585.6	3,547.6	3,547.6	7.9	6.2	165.92	93.3	-27.7	340.3	327.8	12.50	27.231		
3,700.0	3,685.0	3,647.0	3,647.0	8.1	6.4	166.35	93.3	-27.7	350.7	337.9	12.84	27.311		
3,800.0	3,784.4	3,746.4	3,746.4	8.4	6.5	166.75	93.3	-27.7	361.2	348.0	13.19	27.388		
3,900.0	3,883.8	3,845.8	3,845.8	8.6	6.7	167.14	93.3	-27.7	371.7	358.2	13.54	27.462		
4,000.0	3,983.3	3,945.3	3,945.3	8.9	6.9	167.49	93.3	-27.7	382.2	368.4	13.88	27.534		
4,100.0	4,082.7	4,044.7	4,044.7	9.2	7.1	167.83	93.3	-27.7	392.8	378.5	14.23	27.603		
4,200.0	4,182.1	4,144.1	4,144.1	9.4	7.2	168.16	93.3	-27.7	403.3	388.7	14.58	27.670		
4,300.0	4,281.5	4,243.5	4,243.5	9.7	7.4	168.46	93.3	-27.7	413.8	398.9	14.92	27.734		
4,400.0	4,380.9	4,342.9	4,342.9	9.9	7.6	168.75	93.3	-27.7	424.4	409.1	15.27	27.797		
4,500.0	4,480.3	4,442.3	4,442.3	10.2	7.8	169.03	93.3	-27.7	435.0	419.4	15.61	27.857		
4,600.0	4,579.8	4,541.8	4,541.8	10.4	7.9	169.29	93.3	-27.7	445.6	429.6	15.96	27.915		
4,700.0	4,679.2	4,641.2	4,641.2	10.7	8.1	169.55	93.3	-27.7	456.2	439.8	16.31	27.971		
4,800.0	4,778.6	4,740.6	4,740.6	10.9	8.3	169.79	93.3	-27.7	466.8	450.1	16.65	28.026		
4,900.0	4,878.0	4,840.0	4,840.0	11.2	8.4	170.01	93.3	-27.7	477.4	460.4	17.00	28.078		
5,000.0	4,977.4	4,939.4	4,939.4	11.4	8.6	170.23	93.3	-27.7	488.0	470.6	17.35	28.129		
5,100.0	5,076.9	5,038.9	5,038.9	11.7	8.8	170.44	93.3	-27.7	498.6	480.9	17.69	28.178		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5120-Geolink MWD													Offset Well Error:	0.0 ft
Offset				Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
5,200.0	5,176.3	5,120.0	5,120.0	12.0	8.9	170.61	93.3	-27.7	509.5	491.5	18.01	28.293		
5,300.0	5,275.7	5,120.0	5,120.0	12.2	8.9	170.61	93.3	-27.7	533.0	514.8	18.19	29.307		
5,400.0	5,375.1	5,120.0	5,120.0	12.5	8.9	170.61	93.3	-27.7	573.2	554.8	18.36	31.212		
5,500.0	5,474.5	5,120.0	5,120.0	12.7	8.9	170.61	93.3	-27.7	626.9	608.4	18.54	33.811		
5,600.0	5,573.9	5,120.0	5,120.0	13.0	8.9	170.61	93.3	-27.7	691.0	672.3	18.72	36.914		
5,700.0	5,673.4	5,120.0	5,120.0	13.2	8.9	170.61	93.3	-27.7	762.8	743.9	18.90	40.370		
5,800.0	5,772.8	5,120.0	5,120.0	13.5	8.9	170.61	93.3	-27.7	840.5	821.4	19.07	44.064		
5,900.0	5,872.2	5,120.0	5,120.0	13.7	8.9	170.61	93.3	-27.7	922.4	903.2	19.25	47.915		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - SULLIVAN 1 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8200-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,400.0	7,630.0	7,591.0	7,591.0	18.4	13.2	-90.00	1,442.9	-486.1	982.8	952.7	30.13	32.625		
8,500.0	7,630.0	7,591.0	7,591.0	19.4	13.2	-90.00	1,442.9	-486.1	883.1	851.8	31.21	28.295		
8,600.0	7,630.0	7,591.0	7,591.0	20.5	13.2	-90.00	1,442.9	-486.1	783.3	750.9	32.39	24.183		
8,700.0	7,630.0	7,591.0	7,591.0	21.7	13.2	-90.00	1,442.9	-486.1	683.7	650.0	33.66	20.314		
8,800.0	7,630.0	7,591.0	7,591.0	23.0	13.2	-90.00	1,442.9	-486.1	584.2	549.2	34.99	16.695		
8,900.0	7,630.0	7,591.0	7,591.0	24.3	13.2	-90.00	1,442.9	-486.1	484.8	448.4	36.38	13.327		
9,000.0	7,630.0	7,591.0	7,591.0	25.7	13.2	-90.00	1,442.9	-486.1	385.8	348.0	37.82	10.203		
9,100.0	7,630.0	7,591.0	7,591.0	27.1	13.2	-90.00	1,442.9	-486.1	287.5	248.3	39.29	7.318		
9,200.0	7,630.0	7,591.0	7,591.0	28.5	13.2	-90.00	1,442.9	-486.1	191.0	150.2	40.80	4.683		
9,300.0	7,630.0	7,591.0	7,591.0	30.0	13.2	-90.00	1,442.9	-486.1	101.5	59.2	42.33	2.399		
9,380.9	7,630.0	7,591.0	7,591.0	31.2	13.2	-90.00	1,442.9	-486.1	61.4	17.8	43.59	1.407	Level 3, CC, ES, SF	
9,400.0	7,630.0	7,591.0	7,591.0	31.5	13.2	-90.00	1,442.9	-486.1	64.2	20.4	43.89	1.464	Level 3	
9,500.0	7,630.0	7,591.0	7,591.0	33.1	13.2	-90.00	1,442.9	-486.1	134.0	88.5	45.47	2.946		
9,600.0	7,630.0	7,591.0	7,591.0	34.6	13.2	-90.00	1,442.9	-486.1	227.5	180.4	47.07	4.834		
9,700.0	7,630.0	7,591.0	7,591.0	36.2	13.2	-90.00	1,442.9	-486.1	324.9	276.2	48.68	6.675		
9,800.0	7,630.0	7,591.0	7,591.0	37.8	13.2	-90.00	1,442.9	-486.1	423.5	373.2	50.30	8.420		
9,900.0	7,630.0	7,591.0	7,591.0	39.4	13.2	-90.00	1,442.9	-486.1	522.7	470.8	51.94	10.064		
10,000.0	7,630.0	7,591.0	7,591.0	41.0	13.2	-90.00	1,442.9	-486.1	622.1	568.5	53.58	11.610		
10,100.0	7,630.0	7,591.0	7,591.0	42.6	13.2	-90.00	1,442.9	-486.1	721.7	666.5	55.24	13.065		
10,200.0	7,630.0	7,591.0	7,591.0	44.3	13.2	-90.00	1,442.9	-486.1	821.4	764.5	56.90	14.435		
10,300.0	7,630.0	7,591.0	7,591.0	45.9	13.2	-90.00	1,442.9	-486.1	921.1	862.6	58.57	15.727		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8192-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-130.94	-14.6	-16.8	42.3					
100.0	100.0	64.0	64.0	0.1	0.1	-130.94	-14.6	-16.8	22.2	22.0	0.23	96.357		
200.0	200.0	164.0	164.0	0.3	0.3	-130.94	-14.6	-16.8	22.2	21.6	0.58	38.330		
300.0	300.0	264.0	264.0	0.5	0.5	-130.94	-14.6	-16.8	22.2	21.3	0.93	23.924		
400.0	400.0	364.0	364.0	0.6	0.6	-130.94	-14.6	-16.8	22.2	20.9	1.28	17.388		
500.0	500.0	464.0	464.0	0.8	0.8	-130.94	-14.6	-16.8	22.2	20.6	1.63	13.657		
600.0	600.0	564.0	564.0	1.0	1.0	-130.94	-14.6	-16.8	22.2	20.2	1.98	11.245		
700.0	700.0	664.0	664.0	1.2	1.2	-130.94	-14.6	-16.8	22.2	19.9	2.32	9.556		
800.0	800.0	764.0	764.0	1.3	1.3	-130.94	-14.6	-16.8	22.2	19.5	2.67	8.309		
900.0	900.0	864.0	864.0	1.5	1.5	-130.94	-14.6	-16.8	22.2	19.2	3.02	7.349		
1,000.0	1,000.0	964.0	964.0	1.7	1.7	42.10	-14.6	-16.8	20.9	17.5	3.37	6.196		
1,100.0	1,099.8	1,063.8	1,063.8	1.9	1.9	41.26	-14.6	-16.8	17.2	13.5	3.72	4.619		
1,200.0	1,199.5	1,163.5	1,163.5	2.1	2.0	51.49	-14.6	-16.8	11.4	7.4	4.08	2.800		
1,274.9	1,274.0	1,238.0	1,238.0	2.2	2.2	90.00	-14.6	-16.8	8.8	4.4	4.38	2.007	CC, ES, SF	
1,300.0	1,299.0	1,263.0	1,263.0	2.3	2.2	108.71	-14.6	-16.8	9.1	4.7	4.46	2.049		
1,400.0	1,398.4	1,362.4	1,362.4	2.5	2.4	147.61	-14.6	-16.8	16.2	11.4	4.78	3.396		
1,500.0	1,497.8	1,461.8	1,461.8	2.7	2.6	160.43	-14.6	-16.8	26.0	20.9	5.11	5.082		
1,600.0	1,597.2	1,561.2	1,561.2	2.9	2.7	166.13	-14.6	-16.8	36.3	30.9	5.45	6.657		
1,700.0	1,696.6	1,660.6	1,660.6	3.2	2.9	169.29	-14.6	-16.8	46.8	41.0	5.80	8.076		
1,800.0	1,796.1	1,760.1	1,760.1	3.4	3.1	171.29	-14.6	-16.8	57.5	51.3	6.15	9.348		
1,900.0	1,895.5	1,859.5	1,859.5	3.6	3.2	172.66	-14.6	-16.8	68.1	61.6	6.49	10.492		
2,000.0	1,994.9	1,958.9	1,958.9	3.9	3.4	173.66	-14.6	-16.8	78.8	72.0	6.84	11.523		
2,100.0	2,094.3	2,058.3	2,058.3	4.1	3.6	174.42	-14.6	-16.8	89.5	82.3	7.19	12.456		
2,200.0	2,193.7	2,157.7	2,157.7	4.4	3.8	175.02	-14.6	-16.8	100.3	92.7	7.54	13.305		
2,300.0	2,293.1	2,257.1	2,257.1	4.6	3.9	175.50	-14.6	-16.8	111.0	103.1	7.88	14.081		
2,400.0	2,392.6	2,356.6	2,356.6	4.9	4.1	175.90	-14.6	-16.8	121.7	113.5	8.23	14.791		
2,500.0	2,492.0	2,456.0	2,456.0	5.1	4.3	176.23	-14.6	-16.8	132.5	123.9	8.58	15.445		
2,600.0	2,591.4	2,555.4	2,555.4	5.4	4.5	176.52	-14.6	-16.8	143.2	134.3	8.93	16.047		
2,700.0	2,690.8	2,654.8	2,654.8	5.6	4.6	176.76	-14.6	-16.8	154.0	144.7	9.27	16.605		
2,800.0	2,790.2	2,754.2	2,754.2	5.9	4.8	176.97	-14.6	-16.8	164.7	155.1	9.62	17.123		
2,900.0	2,889.7	2,853.7	2,853.7	6.1	5.0	177.16	-14.6	-16.8	175.5	165.5	9.97	17.605		
3,000.0	2,989.1	2,953.1	2,953.1	6.4	5.2	177.32	-14.6	-16.8	186.3	175.9	10.32	18.055		
3,100.0	3,088.5	3,052.5	3,052.5	6.6	5.3	177.47	-14.6	-16.8	197.0	186.4	10.66	18.476		
3,200.0	3,187.9	3,151.9	3,151.9	6.9	5.5	177.60	-14.6	-16.8	207.8	196.8	11.01	18.870		
3,300.0	3,287.3	3,251.3	3,251.3	7.1	5.7	177.72	-14.6	-16.8	218.5	207.2	11.36	19.240		
3,400.0	3,386.7	3,350.7	3,350.7	7.4	5.8	177.82	-14.6	-16.8	229.3	217.6	11.71	19.588		
3,500.0	3,486.2	3,450.2	3,450.2	7.6	6.0	177.92	-14.6	-16.8	240.1	228.0	12.05	19.916		
3,600.0	3,585.6	3,549.6	3,549.6	7.9	6.2	178.01	-14.6	-16.8	250.8	238.4	12.40	20.225		
3,700.0	3,685.0	3,649.0	3,649.0	8.1	6.4	178.09	-14.6	-16.8	261.6	248.8	12.75	20.518		
3,800.0	3,784.4	3,748.4	3,748.4	8.4	6.5	178.17	-14.6	-16.8	272.4	259.3	13.10	20.796		
3,900.0	3,883.8	3,847.8	3,847.8	8.6	6.7	178.24	-14.6	-16.8	283.1	269.7	13.44	21.059		
4,000.0	3,983.3	3,947.3	3,947.3	8.9	6.9	178.30	-14.6	-16.8	293.9	280.1	13.79	21.309		
4,100.0	4,082.7	4,046.7	4,046.7	9.2	7.1	178.36	-14.6	-16.8	304.7	290.5	14.14	21.546		
4,200.0	4,182.1	4,146.1	4,146.1	9.4	7.2	178.42	-14.6	-16.8	315.4	300.9	14.49	21.772		
4,300.0	4,281.5	4,245.5	4,245.5	9.7	7.4	178.47	-14.6	-16.8	326.2	311.4	14.84	21.988		
4,400.0	4,380.9	4,344.9	4,344.9	9.9	7.6	178.52	-14.6	-16.8	337.0	321.8	15.18	22.194		
4,500.0	4,480.3	4,444.3	4,444.3	10.2	7.8	178.57	-14.6	-16.8	347.7	332.2	15.53	22.390		
4,600.0	4,579.8	4,543.8	4,543.8	10.4	7.9	178.61	-14.6	-16.8	358.5	342.6	15.88	22.578		
4,700.0	4,679.2	4,643.2	4,643.2	10.7	8.1	178.65	-14.6	-16.8	369.3	353.0	16.23	22.758		
4,800.0	4,778.6	4,742.6	4,742.6	10.9	8.3	178.69	-14.6	-16.8	380.0	363.5	16.57	22.930		
4,900.0	4,878.0	4,842.0	4,842.0	11.2	8.5	178.72	-14.6	-16.8	390.8	373.9	16.92	23.096		
5,000.0	4,977.4	4,941.4	4,941.4	11.4	8.6	178.76	-14.6	-16.8	401.6	384.3	17.27	23.254		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 8192-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,100.0	5,076.9	5,040.9	5,040.9	11.7	8.8	178.79	-14.6	-16.8	412.3	394.7	17.62	23.407		
5,200.0	5,176.3	5,140.3	5,140.3	12.0	9.0	178.82	-14.6	-16.8	423.1	405.1	17.96	23.553		
5,300.0	5,275.7	5,239.7	5,239.7	12.2	9.1	178.85	-14.6	-16.8	433.9	415.6	18.31	23.694		
5,400.0	5,375.1	5,339.1	5,339.1	12.5	9.3	178.88	-14.6	-16.8	444.6	426.0	18.66	23.830		
5,500.0	5,474.5	5,438.5	5,438.5	12.7	9.5	178.90	-14.6	-16.8	455.4	436.4	19.01	23.961		
5,600.0	5,573.9	5,537.9	5,537.9	13.0	9.7	178.93	-14.6	-16.8	466.2	446.8	19.35	24.087		
5,700.0	5,673.4	5,637.4	5,637.4	13.2	9.8	178.95	-14.6	-16.8	477.0	457.3	19.70	24.208		
5,800.0	5,772.8	5,736.8	5,736.8	13.5	10.0	178.98	-14.6	-16.8	487.7	467.7	20.05	24.326		
5,900.0	5,872.2	5,836.2	5,836.2	13.7	10.2	179.00	-14.6	-16.8	498.5	478.1	20.40	24.439		
6,000.0	5,971.6	5,935.6	5,935.6	14.0	10.4	179.02	-14.6	-16.8	509.3	488.5	20.74	24.549		
6,100.0	6,071.0	6,035.0	6,035.0	14.3	10.5	179.04	-14.6	-16.8	520.0	498.9	21.09	24.655		
6,200.0	6,170.5	6,134.5	6,134.5	14.5	10.7	179.06	-14.6	-16.8	530.8	509.4	21.44	24.757		
6,300.0	6,269.9	6,233.9	6,233.9	14.8	10.9	179.08	-14.6	-16.8	541.6	519.8	21.79	24.857		
6,400.0	6,369.3	6,333.3	6,333.3	15.0	11.1	179.10	-14.6	-16.8	552.3	530.2	22.14	24.953		
6,500.0	6,468.7	6,432.7	6,432.7	15.3	11.2	179.11	-14.6	-16.8	563.1	540.6	22.48	25.046		
6,600.0	6,568.1	6,532.1	6,532.1	15.5	11.4	179.13	-14.6	-16.8	573.9	551.0	22.83	25.136		
6,700.0	6,667.5	6,631.5	6,631.5	15.8	11.6	179.15	-14.6	-16.8	584.6	561.5	23.18	25.224		
6,800.0	6,767.0	6,731.0	6,731.0	16.1	11.7	179.16	-14.6	-16.8	595.4	571.9	23.53	25.309		
6,900.0	6,866.4	6,830.4	6,830.4	16.3	11.9	179.18	-14.6	-16.8	606.2	582.3	23.87	25.392		
7,000.0	6,965.8	6,929.8	6,929.8	16.6	12.1	179.19	-14.6	-16.8	617.0	592.7	24.22	25.472		
7,100.0	7,065.4	7,029.4	7,029.4	16.8	12.3	115.54	-14.6	-16.8	625.5	600.9	24.60	25.428		
7,200.0	7,164.5	7,128.5	7,128.5	16.8	12.4	56.93	-14.6	-16.8	621.4	596.7	24.75	25.105		
7,300.0	7,260.5	7,224.5	7,224.5	16.7	12.6	51.17	-14.6	-16.8	604.1	579.4	24.69	24.469		
7,400.0	7,350.3	7,314.3	7,314.3	16.5	12.8	53.19	-14.6	-16.8	575.3	550.7	24.64	23.352		
7,500.0	7,431.2	7,395.2	7,395.2	16.2	12.9	59.06	-14.6	-16.8	537.7	512.9	24.88	21.614		
7,600.0	7,500.8	7,464.8	7,464.8	15.9	13.0	67.51	-14.6	-16.8	495.7	470.2	25.52	19.421		
7,700.0	7,556.9	7,520.9	7,520.9	15.7	13.1	76.89	-14.6	-16.8	455.0	428.8	26.27	17.321		
7,800.0	7,597.9	7,561.9	7,561.9	15.6	13.2	84.90	-14.6	-16.8	423.2	396.5	26.74	15.829		
7,900.0	7,622.5	7,586.5	7,586.5	15.6	13.2	89.58	-14.6	-16.8	408.2	381.2	26.96	15.137		
7,919.8	7,625.4	7,589.4	7,589.4	15.6	13.2	90.00	-14.6	-16.8	407.7	380.7	27.02	15.087		
8,000.0	7,630.0	7,594.0	7,594.0	15.8	13.3	90.00	-14.6	-16.8	415.1	387.9	27.23	15.243		
8,100.0	7,630.0	7,594.0	7,594.0	16.3	13.3	90.00	-14.6	-16.8	444.6	416.9	27.70	16.052		
8,200.0	7,630.0	7,594.0	7,594.0	16.8	13.3	90.00	-14.6	-16.8	492.9	464.6	28.35	17.388		
8,300.0	7,630.0	7,594.0	7,594.0	17.6	13.3	90.00	-14.6	-16.8	555.2	526.1	29.17	19.035		
8,400.0	7,630.0	7,594.0	7,594.0	18.4	13.3	90.00	-14.6	-16.8	627.4	597.2	30.13	20.821		
8,500.0	7,630.0	7,594.0	7,594.0	19.4	13.3	90.00	-14.6	-16.8	706.3	675.1	31.21	22.629		
8,600.0	7,630.0	7,594.0	7,594.0	20.5	13.3	90.00	-14.6	-16.8	790.1	757.7	32.40	24.387		
8,700.0	7,630.0	7,594.0	7,594.0	21.7	13.3	90.00	-14.6	-16.8	877.2	843.6	33.66	26.060		
8,800.0	7,630.0	7,594.0	7,594.0	23.0	13.3	90.00	-14.6	-16.8	966.9	931.9	34.99	27.629		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4A-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.69	0.4	-69.9	70.0					
100.0	100.0	98.0	98.0	0.1	0.1	-89.69	0.4	-69.9	69.9	69.7	0.23	297.598		
200.0	200.0	198.0	198.0	0.3	0.3	-89.69	0.4	-69.9	69.9	69.3	0.58	119.966 CC, ES		
300.0	300.0	295.7	295.7	0.5	0.5	-90.06	-0.1	-71.5	71.5	70.6	0.93	77.042		
400.0	400.0	393.2	393.0	0.6	0.7	-91.09	-1.5	-76.2	76.4	75.1	1.27	59.984		
500.0	500.0	490.2	489.7	0.8	0.9	-92.55	-3.7	-84.0	84.5	82.9	1.62	52.269		
600.0	600.0	586.5	585.4	1.0	1.1	-94.18	-6.9	-94.9	96.0	94.0	1.96	48.996		
700.0	700.0	682.0	679.7	1.2	1.4	-95.77	-11.0	-108.8	110.8	108.5	2.30	48.178 SF		
800.0	800.0	776.4	772.5	1.3	1.8	-97.21	-15.9	-125.4	128.9	126.3	2.64	48.851		
900.0	900.0	869.6	863.5	1.5	2.2	-98.46	-21.5	-144.7	150.3	147.3	2.98	50.485		
1,000.0	1,000.0	961.5	952.6	1.7	2.6	70.54	-27.9	-166.5	174.3	170.9	3.33	52.332		
1,100.0	1,099.8	1,054.6	1,042.0	1.9	3.1	59.08	-35.1	-191.1	199.7	196.0	3.68	54.273		
1,200.0	1,199.5	1,151.8	1,135.3	2.1	3.6	47.00	-42.8	-217.4	222.9	218.9	4.05	55.029		
1,300.0	1,299.0	1,249.6	1,229.2	2.3	4.1	44.87	-50.6	-243.9	243.6	239.2	4.44	54.917		
1,400.0	1,398.4	1,347.4	1,323.0	2.5	4.6	45.60	-58.4	-270.3	264.1	259.3	4.83	54.672		
1,500.0	1,497.8	1,445.3	1,416.9	2.7	5.1	46.22	-66.1	-296.8	284.6	279.4	5.23	54.391		
1,600.0	1,597.2	1,543.1	1,510.7	2.9	5.6	46.76	-73.9	-323.2	305.2	299.6	5.64	54.091		
1,700.0	1,696.6	1,640.9	1,604.6	3.2	6.2	47.23	-81.6	-349.7	325.8	319.7	6.06	53.787		
1,800.0	1,796.1	1,738.7	1,698.5	3.4	6.7	47.64	-89.4	-376.1	346.4	339.9	6.48	53.484		
1,900.0	1,895.5	1,836.6	1,792.3	3.6	7.2	48.01	-97.1	-402.6	367.0	360.1	6.90	53.190		
2,000.0	1,994.9	1,934.4	1,886.2	3.9	7.7	48.33	-104.9	-429.1	387.6	380.3	7.33	52.905		
2,100.0	2,094.3	2,032.2	1,980.0	4.1	8.2	48.63	-112.6	-455.5	408.3	400.5	7.76	52.633		
2,200.0	2,193.7	2,130.0	2,073.9	4.4	8.8	48.90	-120.4	-482.0	428.9	420.8	8.19	52.374		
2,300.0	2,293.1	2,227.9	2,167.8	4.6	9.3	49.14	-128.1	-508.4	449.6	441.0	8.63	52.127		
2,400.0	2,392.6	2,325.7	2,261.6	4.9	9.8	49.36	-135.9	-534.9	470.3	461.2	9.06	51.894		
2,500.0	2,492.0	2,423.5	2,355.5	5.1	10.3	49.56	-143.6	-561.3	491.0	481.5	9.50	51.672		
2,600.0	2,591.4	2,521.3	2,449.3	5.4	10.9	49.75	-151.4	-587.8	511.6	501.7	9.94	51.463		
2,700.0	2,690.8	2,619.2	2,543.2	5.6	11.4	49.92	-159.1	-614.2	532.3	521.9	10.38	51.265		
2,800.0	2,790.2	2,717.0	2,637.1	5.9	11.9	50.08	-166.9	-640.7	553.0	542.2	10.83	51.077		
2,900.0	2,889.7	2,814.8	2,730.9	6.1	12.4	50.22	-174.6	-667.1	573.7	562.4	11.27	50.900		
3,000.0	2,989.1	2,912.6	2,824.8	6.4	13.0	50.36	-182.4	-693.6	594.4	582.7	11.72	50.732		
3,100.0	3,088.5	3,010.5	2,918.7	6.6	13.5	50.49	-190.2	-720.0	615.1	602.9	12.16	50.572		
3,200.0	3,187.9	3,108.3	3,012.5	6.9	14.0	50.61	-197.9	-746.5	635.8	623.2	12.61	50.421		
3,300.0	3,287.3	3,206.1	3,106.4	7.1	14.5	50.72	-205.7	-773.0	656.5	643.5	13.06	50.277		
3,400.0	3,386.7	3,303.9	3,200.2	7.4	15.1	50.82	-213.4	-799.4	677.2	663.7	13.51	50.141		
3,500.0	3,486.2	3,401.8	3,294.1	7.6	15.6	50.92	-221.2	-825.9	697.9	684.0	13.96	50.011		
3,600.0	3,585.6	3,499.6	3,388.0	7.9	16.1	51.02	-228.9	-852.3	718.7	704.2	14.41	49.888		
3,700.0	3,685.0	3,597.4	3,481.8	8.1	16.6	51.10	-236.7	-878.8	739.4	724.5	14.86	49.770		
3,800.0	3,784.4	3,695.2	3,575.7	8.4	17.2	51.19	-244.4	-905.2	760.1	744.8	15.31	49.658		
3,900.0	3,883.8	3,793.1	3,669.5	8.6	17.7	51.27	-252.2	-931.7	780.8	765.0	15.76	49.551		
4,000.0	3,983.3	3,890.9	3,763.4	8.9	18.2	51.34	-259.9	-958.1	801.5	785.3	16.21	49.448		
4,100.0	4,082.7	3,988.7	3,857.3	9.2	18.8	51.41	-267.7	-984.6	822.2	805.6	16.66	49.350		
4,200.0	4,182.1	4,086.5	3,951.1	9.4	19.3	51.48	-275.4	-1,011.0	843.0	825.8	17.11	49.257		
4,300.0	4,281.5	4,184.4	4,045.0	9.7	19.8	51.54	-283.2	-1,037.5	863.7	846.1	17.57	49.167		
4,400.0	4,380.9	4,282.2	4,138.8	9.9	20.3	51.60	-290.9	-1,064.0	884.4	866.4	18.02	49.081		
4,500.0	4,480.3	4,380.0	4,232.7	10.2	20.9	51.66	-298.7	-1,090.4	905.1	886.6	18.47	48.999		
4,600.0	4,579.8	4,477.8	4,326.6	10.4	21.4	51.72	-306.5	-1,116.9	925.8	906.9	18.93	48.920		
4,700.0	4,679.2	4,575.7	4,420.4	10.7	21.9	51.77	-314.2	-1,143.3	946.6	927.2	19.38	48.844		
4,800.0	4,778.6	4,673.5	4,514.3	10.9	22.4	51.82	-322.0	-1,169.8	967.3	947.5	19.83	48.770		
4,900.0	4,878.0	4,771.3	4,608.1	11.2	23.0	51.87	-329.7	-1,196.2	988.0	967.7	20.29	48.700		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4B-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.64	0.4	-59.9	59.9					
100.0	100.0	99.0	99.0	0.1	0.1	-89.64	0.4	-59.9	59.9	59.6	0.24	253.465		
200.0	200.0	199.0	199.0	0.3	0.3	-89.64	0.4	-59.9	59.9	59.3	0.58	102.385		
300.0	300.0	299.0	299.0	0.5	0.5	-89.64	0.4	-59.9	59.9	58.9	0.93	64.110	CC, ES	
400.0	400.0	397.0	397.0	0.6	0.6	-90.13	-0.1	-61.4	61.5	60.2	1.28	48.030		
500.0	500.0	494.8	494.7	0.8	0.8	-91.48	-1.7	-66.1	66.3	64.7	1.62	40.808		
600.0	600.0	592.2	591.7	1.0	1.0	-93.34	-4.3	-74.0	74.5	72.5	1.97	37.814		
700.0	700.0	688.9	687.7	1.2	1.3	-95.33	-7.9	-84.9	86.0	83.7	2.31	37.181	SF	
800.0	800.0	784.6	782.3	1.3	1.6	-97.22	-12.5	-98.7	100.9	98.2	2.65	38.000		
900.0	900.0	879.3	875.4	1.5	1.9	-98.88	-18.0	-115.3	119.0	116.0	2.99	39.764		
1,000.0	1,000.0	973.0	966.8	1.7	2.3	69.98	-24.4	-134.5	139.9	136.5	3.35	41.773		
1,100.0	1,099.8	1,067.8	1,058.7	1.9	2.7	58.57	-31.7	-156.6	162.2	158.5	3.70	43.806		
1,200.0	1,199.5	1,165.8	1,153.6	2.1	3.2	46.59	-39.4	-179.9	182.1	178.0	4.07	44.687		
1,300.0	1,299.0	1,264.2	1,248.9	2.3	3.6	44.58	-47.2	-203.3	199.4	194.9	4.46	44.708		
1,400.0	1,398.4	1,362.7	1,344.2	2.5	4.1	45.39	-54.9	-226.7	216.6	211.7	4.86	44.592		
1,500.0	1,497.8	1,461.2	1,439.6	2.7	4.5	46.09	-62.7	-250.1	233.8	228.5	5.26	44.434		
1,600.0	1,597.2	1,559.7	1,534.9	2.9	5.0	46.68	-70.5	-273.5	251.0	245.3	5.67	44.250		
1,700.0	1,696.6	1,658.1	1,630.3	3.2	5.5	47.21	-78.2	-296.9	268.3	262.2	6.09	44.054		
1,800.0	1,796.1	1,756.6	1,725.6	3.4	5.9	47.67	-86.0	-320.3	285.5	279.0	6.51	43.852		
1,900.0	1,895.5	1,855.1	1,820.9	3.6	6.4	48.07	-93.7	-343.6	302.8	295.9	6.94	43.651		
2,000.0	1,994.9	1,953.5	1,916.3	3.9	6.9	48.43	-101.5	-367.0	320.1	312.7	7.37	43.454		
2,100.0	2,094.3	2,052.0	2,011.6	4.1	7.3	48.76	-109.2	-390.4	337.4	329.6	7.80	43.262		
2,200.0	2,193.7	2,150.5	2,107.0	4.4	7.8	49.05	-117.0	-413.8	354.7	346.5	8.23	43.078		
2,300.0	2,293.1	2,249.0	2,202.3	4.6	8.3	49.32	-124.7	-437.2	372.1	363.4	8.67	42.901		
2,400.0	2,392.6	2,347.4	2,297.6	4.9	8.8	49.56	-132.5	-460.6	389.4	380.3	9.11	42.732		
2,500.0	2,492.0	2,445.9	2,393.0	5.1	9.2	49.78	-140.2	-484.0	406.7	397.2	9.55	42.571		
2,600.0	2,591.4	2,544.4	2,488.3	5.4	9.7	49.99	-148.0	-507.4	424.1	414.1	10.00	42.418		
2,700.0	2,690.8	2,642.9	2,583.7	5.6	10.2	50.18	-155.8	-530.8	441.4	431.0	10.44	42.273		
2,800.0	2,790.2	2,741.3	2,679.0	5.9	10.6	50.35	-163.5	-554.2	458.8	447.9	10.89	42.134		
2,900.0	2,889.7	2,839.8	2,774.3	6.1	11.1	50.51	-171.3	-577.5	476.2	464.8	11.34	42.003		
3,000.0	2,989.1	2,938.3	2,869.7	6.4	11.6	50.66	-179.0	-600.9	493.5	481.7	11.78	41.879		
3,100.0	3,088.5	3,036.7	2,965.0	6.6	12.1	50.80	-186.8	-624.3	510.9	498.7	12.23	41.760		
3,200.0	3,187.9	3,135.2	3,060.4	6.9	12.5	50.93	-194.5	-647.7	528.3	515.6	12.68	41.647		
3,300.0	3,287.3	3,233.7	3,155.7	7.1	13.0	51.05	-202.3	-671.1	545.6	532.5	13.13	41.540		
3,400.0	3,386.7	3,332.2	3,251.0	7.4	13.5	51.17	-210.0	-694.5	563.0	549.4	13.59	41.438		
3,500.0	3,486.2	3,430.6	3,346.4	7.6	14.0	51.27	-217.8	-717.9	580.4	566.3	14.04	41.341		
3,600.0	3,585.6	3,529.1	3,441.7	7.9	14.4	51.38	-225.6	-741.3	597.8	583.3	14.49	41.248		
3,700.0	3,685.0	3,627.6	3,537.1	8.1	14.9	51.47	-233.3	-764.7	615.1	600.2	14.94	41.160		
3,800.0	3,784.4	3,726.1	3,632.4	8.4	15.4	51.56	-241.1	-788.1	632.5	617.1	15.40	41.076		
3,900.0	3,883.8	3,824.5	3,727.7	8.6	15.8	51.65	-248.8	-811.4	649.9	634.0	15.85	40.995		
4,000.0	3,983.3	3,923.0	3,823.1	8.9	16.3	51.73	-256.6	-834.8	667.3	651.0	16.31	40.918		
4,100.0	4,082.7	4,021.5	3,918.4	9.2	16.8	51.80	-264.3	-858.2	684.7	667.9	16.76	40.844		
4,200.0	4,182.1	4,120.0	4,013.8	9.4	17.3	51.88	-272.1	-881.6	702.1	684.8	17.22	40.773		
4,300.0	4,281.5	4,218.4	4,109.1	9.7	17.7	51.95	-279.8	-905.0	719.4	701.8	17.67	40.706		
4,400.0	4,380.9	4,316.9	4,204.4	9.9	18.2	52.01	-287.6	-928.4	736.8	718.7	18.13	40.641		
4,500.0	4,480.3	4,415.4	4,299.8	10.2	18.7	52.08	-295.4	-951.8	754.2	735.6	18.59	40.578		
4,600.0	4,579.8	4,513.8	4,395.1	10.4	19.2	52.14	-303.1	-975.2	771.6	752.6	19.04	40.518		
4,700.0	4,679.2	4,612.3	4,490.5	10.7	19.6	52.20	-310.9	-998.6	789.0	769.5	19.50	40.461		
4,800.0	4,778.6	4,710.8	4,585.8	10.9	20.1	52.25	-318.6	-1,022.0	806.4	786.4	19.96	40.405		
4,900.0	4,878.0	4,809.3	4,681.1	11.2	20.6	52.30	-326.4	-1,045.3	823.8	803.4	20.42	40.352		
5,000.0	4,977.4	4,907.7	4,776.5	11.4	21.1	52.35	-334.1	-1,068.7	841.2	820.3	20.87	40.300		
5,100.0	5,076.9	5,006.2	4,871.8	11.7	21.5	52.40	-341.9	-1,092.1	858.6	837.2	21.33	40.251		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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													S26-T2N-R68W (Sullivan) - Sullivan 4B-26H-P268 - HZ - Plan #1		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)		(ft)							
5,200.0	5,176.3	5,104.7	4,967.2	12.0	22.0	52.45	-349.6	-1,115.5	876.0	854.2	21.79	40.203					
5,300.0	5,275.7	5,203.2	5,062.5	12.2	22.5	52.49	-357.4	-1,138.9	893.4	871.1	22.25	40.157					
5,400.0	5,375.1	5,301.6	5,157.8	12.5	22.9	52.54	-365.2	-1,162.3	910.8	888.0	22.70	40.113					
5,500.0	5,474.5	5,400.1	5,253.2	12.7	23.4	52.58	-372.9	-1,185.7	928.1	905.0	23.16	40.070					
5,600.0	5,573.9	5,498.6	5,348.5	13.0	23.9	52.62	-380.7	-1,209.1	945.5	921.9	23.62	40.028					
5,700.0	5,673.4	5,597.1	5,443.9	13.2	24.4	52.66	-388.4	-1,232.5	962.9	938.9	24.08	39.988					
5,800.0	5,772.8	5,695.5	5,539.2	13.5	24.8	52.70	-396.2	-1,255.9	980.3	955.8	24.54	39.949					
5,900.0	5,872.2	5,794.0	5,634.5	13.7	25.3	52.73	-403.9	-1,279.2	997.7	972.7	25.00	39.912					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4C-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.58	0.4	-49.8	49.8					
100.0	100.0	99.0	99.0	0.1	0.1	-89.58	0.4	-49.8	49.8	49.6	0.24	210.827		
200.0	200.0	199.0	199.0	0.3	0.3	-89.58	0.4	-49.8	49.8	49.2	0.58	85.162		
300.0	300.0	299.0	299.0	0.5	0.5	-89.58	0.4	-49.8	49.8	48.9	0.93	53.326		
400.0	400.0	399.0	399.0	0.6	0.6	-89.58	0.4	-49.8	49.8	48.5	1.28	38.815 CC, ES		
500.0	500.0	497.4	497.4	0.8	0.8	-90.25	-0.2	-51.3	51.4	49.7	1.63	31.529		
600.0	600.0	595.5	595.4	1.0	1.0	-92.05	-2.0	-56.0	56.2	54.2	1.98	28.440		
700.0	700.0	693.2	692.7	1.2	1.2	-94.45	-5.0	-63.8	64.3	62.0	2.32	27.710 SF		
800.0	800.0	790.2	789.0	1.3	1.4	-96.94	-9.1	-74.6	75.8	73.1	2.66	28.449		
900.0	900.0	886.3	884.0	1.5	1.7	-99.19	-14.3	-88.3	90.7	87.7	3.01	30.163		
1,000.0	1,000.0	981.5	977.5	1.7	2.1	69.41	-20.6	-104.8	108.3	104.9	3.36	32.209		
1,100.0	1,099.8	1,075.8	1,069.5	1.9	2.4	57.99	-27.9	-123.9	127.7	123.9	3.71	34.368		
1,200.0	1,199.5	1,174.1	1,165.2	2.1	2.8	46.00	-36.0	-145.4	145.7	141.6	4.09	35.648		
1,300.0	1,299.0	1,272.9	1,261.2	2.3	3.3	44.02	-44.2	-167.0	161.1	156.7	4.47	36.027		
1,400.0	1,398.4	1,371.7	1,357.3	2.5	3.7	44.85	-52.4	-188.6	176.4	171.6	4.87	36.225		
1,500.0	1,497.8	1,470.5	1,453.3	2.7	4.1	45.54	-60.7	-210.1	191.7	186.4	5.28	36.345		
1,600.0	1,597.2	1,569.3	1,549.4	2.9	4.5	46.13	-68.9	-231.7	207.0	201.4	5.69	36.410		
1,700.0	1,696.6	1,668.1	1,645.4	3.2	5.0	46.64	-77.1	-253.3	222.4	216.3	6.10	36.435		
1,800.0	1,796.1	1,766.9	1,741.5	3.4	5.4	47.09	-85.3	-274.9	237.8	231.2	6.53	36.433		
1,900.0	1,895.5	1,865.7	1,837.6	3.6	5.9	47.48	-93.5	-296.4	253.1	246.2	6.95	36.411		
2,000.0	1,994.9	1,964.5	1,933.6	3.9	6.3	47.82	-101.7	-318.0	268.5	261.1	7.38	36.376		
2,100.0	2,094.3	2,063.3	2,029.7	4.1	6.7	48.13	-109.9	-339.6	283.9	276.1	7.81	36.332		
2,200.0	2,193.7	2,162.1	2,125.8	4.4	7.2	48.41	-118.1	-361.1	299.3	291.0	8.25	36.282		
2,300.0	2,293.1	2,260.9	2,221.8	4.6	7.6	48.66	-126.3	-382.7	314.7	306.0	8.69	36.228		
2,400.0	2,392.6	2,359.7	2,317.9	4.9	8.1	48.88	-134.6	-404.3	330.1	321.0	9.13	36.173		
2,500.0	2,492.0	2,458.5	2,413.9	5.1	8.5	49.09	-142.8	-425.9	345.5	335.9	9.57	36.116		
2,600.0	2,591.4	2,557.3	2,510.0	5.4	8.9	49.28	-151.0	-447.4	360.9	350.9	10.01	36.059		
2,700.0	2,690.8	2,656.1	2,606.1	5.6	9.4	49.45	-159.2	-469.0	376.4	365.9	10.45	36.003		
2,800.0	2,790.2	2,754.9	2,702.1	5.9	9.8	49.61	-167.4	-490.6	391.8	380.9	10.90	35.947		
2,900.0	2,889.7	2,853.7	2,798.2	6.1	10.3	49.76	-175.6	-512.2	407.2	395.9	11.34	35.893		
3,000.0	2,989.1	2,952.5	2,894.3	6.4	10.7	49.89	-183.8	-533.7	422.6	410.8	11.79	35.840		
3,100.0	3,088.5	3,051.3	2,990.3	6.6	11.2	50.02	-192.0	-555.3	438.1	425.8	12.24	35.789		
3,200.0	3,187.9	3,150.1	3,086.4	6.9	11.6	50.14	-200.2	-576.9	453.5	440.8	12.69	35.739		
3,300.0	3,287.3	3,248.9	3,182.5	7.1	12.1	50.25	-208.4	-598.5	468.9	455.8	13.14	35.691		
3,400.0	3,386.7	3,347.6	3,278.5	7.4	12.5	50.35	-216.7	-620.0	484.4	470.8	13.59	35.644		
3,500.0	3,486.2	3,446.4	3,374.6	7.6	12.9	50.45	-224.9	-641.6	499.8	485.8	14.04	35.599		
3,600.0	3,585.6	3,545.2	3,470.6	7.9	13.4	50.54	-233.1	-663.2	515.2	500.8	14.49	35.556		
3,700.0	3,685.0	3,644.0	3,566.7	8.1	13.8	50.62	-241.3	-684.8	530.7	515.7	14.94	35.514		
3,800.0	3,784.4	3,742.8	3,662.8	8.4	14.3	50.71	-249.5	-706.3	546.1	530.7	15.40	35.473		
3,900.0	3,883.8	3,841.6	3,758.8	8.6	14.7	50.78	-257.7	-727.9	561.6	545.7	15.85	35.434		
4,000.0	3,983.3	3,940.4	3,854.9	8.9	15.2	50.85	-265.9	-749.5	577.0	560.7	16.30	35.397		
4,100.0	4,082.7	4,039.2	3,951.0	9.2	15.6	50.92	-274.1	-771.1	592.5	575.7	16.75	35.361		
4,200.0	4,182.1	4,138.0	4,047.0	9.4	16.1	50.99	-282.3	-792.6	607.9	590.7	17.21	35.326		
4,300.0	4,281.5	4,236.8	4,143.1	9.7	16.5	51.05	-290.6	-814.2	623.3	605.7	17.66	35.292		
4,400.0	4,380.9	4,335.6	4,239.2	9.9	17.0	51.11	-298.8	-835.8	638.8	620.7	18.12	35.259		
4,500.0	4,480.3	4,434.4	4,335.2	10.2	17.4	51.17	-307.0	-857.3	654.2	635.7	18.57	35.228		
4,600.0	4,579.8	4,533.2	4,431.3	10.4	17.9	51.22	-315.2	-878.9	669.7	650.7	19.03	35.198		
4,700.0	4,679.2	4,632.0	4,527.3	10.7	18.3	51.27	-323.4	-900.5	685.1	665.7	19.48	35.168		
4,800.0	4,778.6	4,730.8	4,623.4	10.9	18.7	51.32	-331.6	-922.1	700.6	680.6	19.94	35.140		
4,900.0	4,878.0	4,829.6	4,719.5	11.2	19.2	51.37	-339.8	-943.6	716.0	695.6	20.39	35.113		
5,000.0	4,977.4	4,928.4	4,815.5	11.4	19.6	51.41	-348.0	-965.2	731.5	710.6	20.85	35.086		
5,100.0	5,076.9	5,027.2	4,911.6	11.7	20.1	51.45	-356.2	-986.8	746.9	725.6	21.30	35.061		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4C-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,126.0	5,007.7	12.0	20.5	51.50	-364.4	-1,008.4	762.4	740.6	21.76	35.036		
5,300.0	5,275.7	5,224.8	5,103.7	12.2	21.0	51.53	-372.7	-1,029.9	777.8	755.6	22.22	35.012		
5,400.0	5,375.1	5,323.6	5,199.8	12.5	21.4	51.57	-380.9	-1,051.5	793.3	770.6	22.67	34.989		
5,500.0	5,474.5	5,422.4	5,295.8	12.7	21.9	51.61	-389.1	-1,073.1	808.7	785.6	23.13	34.966		
5,600.0	5,573.9	5,521.2	5,391.9	13.0	22.3	51.64	-397.3	-1,094.7	824.2	800.6	23.59	34.944		
5,700.0	5,673.4	5,620.0	5,488.0	13.2	22.8	51.68	-405.5	-1,116.2	839.6	815.6	24.04	34.923		
5,800.0	5,772.8	5,718.8	5,584.0	13.5	23.2	51.71	-413.7	-1,137.8	855.1	830.6	24.50	34.903		
5,900.0	5,872.2	5,817.6	5,680.1	13.7	23.7	51.74	-421.9	-1,159.4	870.5	845.6	24.96	34.883		
6,000.0	5,971.6	5,916.4	5,776.2	14.0	24.1	51.77	-430.1	-1,181.0	886.0	860.6	25.41	34.863		
6,100.0	6,071.0	6,015.2	5,872.2	14.3	24.5	51.80	-438.3	-1,202.5	901.4	875.6	25.87	34.844		
6,200.0	6,170.5	6,114.0	5,968.3	14.5	25.0	51.83	-446.6	-1,224.1	916.9	890.6	26.33	34.826		
6,300.0	6,269.9	6,212.8	6,064.4	14.8	25.4	51.86	-454.8	-1,245.7	932.4	905.6	26.79	34.809		
6,400.0	6,369.3	6,311.6	6,160.4	15.0	25.9	51.89	-463.0	-1,267.2	947.8	920.6	27.24	34.791		
6,500.0	6,468.7	6,410.4	6,256.5	15.3	26.3	51.91	-471.2	-1,288.8	963.3	935.6	27.70	34.775		
6,600.0	6,568.1	6,509.2	6,352.5	15.5	26.8	51.94	-479.4	-1,310.4	978.7	950.6	28.16	34.758		
6,700.0	6,667.5	6,608.0	6,448.6	15.8	27.2	51.96	-487.6	-1,332.0	994.2	965.6	28.62	34.742		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4D-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.49	0.4	-40.0	40.0					
100.0	100.0	99.0	99.0	0.1	0.1	-89.49	0.4	-40.0	40.0	39.8	0.24	169.375		
200.0	200.0	199.0	199.0	0.3	0.3	-89.49	0.4	-40.0	40.0	39.4	0.58	68.417		
300.0	300.0	299.0	299.0	0.5	0.5	-89.49	0.4	-40.0	40.0	39.1	0.93	42.841		
400.0	400.0	399.0	399.0	0.6	0.6	-89.49	0.4	-40.0	40.0	38.7	1.28	31.183		
500.0	500.0	499.0	499.0	0.8	0.8	-89.49	0.4	-40.0	40.0	38.4	1.63	24.513 CC, ES		
600.0	600.0	597.7	597.7	1.0	1.0	-90.44	-0.3	-41.5	41.5	39.6	1.98	20.995		
700.0	700.0	696.2	696.0	1.2	1.2	-92.93	-2.4	-46.1	46.3	44.0	2.33	19.907		
800.0	800.0	794.2	793.7	1.3	1.4	-96.11	-5.8	-53.8	54.4	51.7	2.67	20.350		
900.0	900.0	891.5	890.3	1.5	1.6	-99.22	-10.5	-64.4	65.8	62.8	3.02	21.832		
1,000.0	1,000.0	988.1	985.7	1.7	1.9	68.96	-16.4	-77.9	80.1	76.7	3.37	23.765		
1,100.0	1,099.8	1,083.9	1,079.9	1.9	2.2	57.54	-23.7	-94.2	96.1	92.4	3.73	25.801		
1,200.0	1,199.5	1,182.5	1,176.3	2.1	2.6	45.58	-31.9	-112.7	111.1	107.0	4.10	27.119		
1,300.0	1,299.0	1,281.7	1,273.4	2.3	2.9	43.72	-40.1	-131.4	123.5	119.1	4.48	27.549		
1,400.0	1,398.4	1,380.9	1,370.5	2.5	3.3	44.63	-48.4	-150.1	135.8	130.9	4.88	27.807		
1,500.0	1,497.8	1,480.1	1,467.6	2.7	3.7	45.39	-56.6	-168.7	148.0	142.7	5.29	27.988		
1,600.0	1,597.2	1,579.4	1,564.8	2.9	4.1	46.03	-64.9	-187.4	160.3	154.6	5.70	28.114		
1,700.0	1,696.6	1,678.6	1,661.9	3.2	4.4	46.59	-73.2	-206.0	172.6	166.5	6.12	28.198		
1,800.0	1,796.1	1,777.8	1,759.0	3.4	4.8	47.07	-81.4	-224.7	184.9	178.3	6.54	28.253		
1,900.0	1,895.5	1,877.1	1,856.1	3.6	5.2	47.49	-89.7	-243.3	197.2	190.2	6.97	28.286		
2,000.0	1,994.9	1,976.3	1,953.2	3.9	5.6	47.86	-98.0	-262.0	209.5	202.1	7.40	28.303		
2,100.0	2,094.3	2,075.5	2,050.3	4.1	6.0	48.18	-106.2	-280.6	221.8	214.0	7.84	28.308		
2,200.0	2,193.7	2,174.8	2,147.4	4.4	6.4	48.48	-114.5	-299.3	234.2	225.9	8.27	28.305		
2,300.0	2,293.1	2,274.0	2,244.5	4.6	6.8	48.74	-122.7	-318.0	246.5	237.8	8.71	28.295		
2,400.0	2,392.6	2,373.2	2,341.6	4.9	7.2	48.98	-131.0	-336.6	258.9	249.7	9.15	28.280		
2,500.0	2,492.0	2,472.4	2,438.7	5.1	7.6	49.20	-139.3	-355.3	271.2	261.6	9.60	28.261		
2,600.0	2,591.4	2,571.7	2,535.8	5.4	8.0	49.40	-147.5	-373.9	283.6	273.5	10.04	28.241		
2,700.0	2,690.8	2,670.9	2,633.0	5.6	8.4	49.58	-155.8	-392.6	295.9	285.4	10.49	28.219		
2,800.0	2,790.2	2,770.1	2,730.1	5.9	8.8	49.75	-164.1	-411.2	308.3	297.4	10.93	28.195		
2,900.0	2,889.7	2,869.4	2,827.2	6.1	9.2	49.90	-172.3	-429.9	320.6	309.3	11.38	28.171		
3,000.0	2,989.1	2,968.6	2,924.3	6.4	9.6	50.05	-180.6	-448.6	333.0	321.2	11.83	28.147		
3,100.0	3,088.5	3,067.8	3,021.4	6.6	10.0	50.18	-188.8	-467.2	345.4	333.1	12.28	28.123		
3,200.0	3,187.9	3,167.0	3,118.5	6.9	10.4	50.30	-197.1	-485.9	357.7	345.0	12.73	28.099		
3,300.0	3,287.3	3,266.3	3,215.6	7.1	10.8	50.42	-205.4	-504.5	370.1	356.9	13.18	28.075		
3,400.0	3,386.7	3,365.5	3,312.7	7.4	11.2	50.53	-213.6	-523.2	382.5	368.8	13.64	28.051		
3,500.0	3,486.2	3,464.7	3,409.8	7.6	11.6	50.63	-221.9	-541.8	394.9	380.8	14.09	28.028		
3,600.0	3,585.6	3,564.0	3,506.9	7.9	12.0	50.72	-230.1	-560.5	407.2	392.7	14.54	28.005		
3,700.0	3,685.0	3,663.2	3,604.0	8.1	12.4	50.81	-238.4	-579.1	419.6	404.6	14.99	27.983		
3,800.0	3,784.4	3,762.4	3,701.2	8.4	12.8	50.90	-246.7	-597.8	432.0	416.5	15.45	27.962		
3,900.0	3,883.8	3,861.6	3,798.3	8.6	13.2	50.98	-254.9	-616.5	444.4	428.4	15.90	27.941		
4,000.0	3,983.3	3,960.9	3,895.4	8.9	13.6	51.05	-263.2	-635.1	456.7	440.4	16.36	27.920		
4,100.0	4,082.7	4,060.1	3,992.5	9.2	14.0	51.12	-271.5	-653.8	469.1	452.3	16.81	27.900		
4,200.0	4,182.1	4,159.3	4,089.6	9.4	14.4	51.19	-279.7	-672.4	481.5	464.2	17.27	27.881		
4,300.0	4,281.5	4,258.6	4,186.7	9.7	14.8	51.26	-288.0	-691.1	493.9	476.1	17.73	27.862		
4,400.0	4,380.9	4,357.8	4,283.8	9.9	15.2	51.32	-296.2	-709.7	506.2	488.1	18.18	27.844		
4,500.0	4,480.3	4,457.0	4,380.9	10.2	15.6	51.38	-304.5	-728.4	518.6	500.0	18.64	27.826		
4,600.0	4,579.8	4,556.3	4,478.0	10.4	16.0	51.43	-312.8	-747.1	531.0	511.9	19.09	27.809		
4,700.0	4,679.2	4,655.5	4,575.1	10.7	16.4	51.48	-321.0	-765.7	543.4	523.8	19.55	27.793		
4,800.0	4,778.6	4,754.7	4,672.2	10.9	16.8	51.54	-329.3	-784.4	555.8	535.8	20.01	27.776		
4,900.0	4,878.0	4,853.9	4,769.4	11.2	17.2	51.58	-337.6	-803.0	568.1	547.7	20.47	27.761		
5,000.0	4,977.4	4,953.2	4,866.5	11.4	17.6	51.63	-345.8	-821.7	580.5	559.6	20.92	27.746		
5,100.0	5,076.9	5,052.4	4,963.6	11.7	18.0	51.67	-354.1	-840.3	592.9	571.5	21.38	27.731		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4D-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,200.0	5,176.3	5,151.6	5,060.7	12.0	18.4	51.72	-362.3	-859.0	605.3	583.5	21.84	27.716		
5,300.0	5,275.7	5,250.9	5,157.8	12.2	18.8	51.76	-370.6	-877.6	617.7	595.4	22.30	27.702		
5,400.0	5,375.1	5,350.1	5,254.9	12.5	19.2	51.80	-378.9	-896.3	630.1	607.3	22.75	27.689		
5,500.0	5,474.5	5,449.3	5,352.0	12.7	19.6	51.84	-387.1	-915.0	642.4	619.2	23.21	27.676		
5,600.0	5,573.9	5,548.5	5,449.1	13.0	20.0	51.87	-395.4	-933.6	654.8	631.2	23.67	27.663		
5,700.0	5,673.4	5,647.8	5,546.2	13.2	20.4	51.91	-403.7	-952.3	667.2	643.1	24.13	27.650		
5,800.0	5,772.8	5,747.0	5,643.3	13.5	20.8	51.94	-411.9	-970.9	679.6	655.0	24.59	27.638		
5,900.0	5,872.2	5,846.2	5,740.4	13.7	21.2	51.97	-420.2	-989.6	692.0	666.9	25.05	27.627		
6,000.0	5,971.6	5,945.5	5,837.5	14.0	21.6	52.00	-428.4	-1,008.2	704.4	678.9	25.51	27.615		
6,100.0	6,071.0	6,044.7	5,934.7	14.3	22.0	52.03	-436.7	-1,026.9	716.7	690.8	25.97	27.604		
6,200.0	6,170.5	6,143.9	6,031.8	14.5	22.4	52.06	-445.0	-1,045.6	729.1	702.7	26.42	27.593		
6,300.0	6,269.9	6,243.2	6,128.9	14.8	22.8	52.09	-453.2	-1,064.2	741.5	714.6	26.88	27.583		
6,400.0	6,369.3	6,342.4	6,226.0	15.0	23.2	52.12	-461.5	-1,082.9	753.9	726.6	27.34	27.572		
6,500.0	6,468.7	6,441.6	6,323.1	15.3	23.6	52.15	-469.8	-1,101.5	766.3	738.5	27.80	27.562		
6,600.0	6,568.1	6,540.8	6,420.2	15.5	24.0	52.17	-478.0	-1,120.2	778.7	750.4	28.26	27.553		
6,700.0	6,667.5	6,640.1	6,517.3	15.8	24.4	52.20	-486.3	-1,138.8	791.1	762.3	28.72	27.543		
6,800.0	6,767.0	6,739.3	6,614.4	16.1	24.8	52.22	-494.5	-1,157.5	803.4	774.3	29.18	27.534		
6,900.0	6,866.4	6,838.5	6,711.5	16.3	25.2	52.24	-502.8	-1,176.2	815.8	786.2	29.64	27.525		
7,000.0	6,965.8	6,937.8	6,808.6	16.6	25.6	52.27	-511.1	-1,194.8	828.2	798.1	30.10	27.516		
7,100.0	7,065.4	7,036.9	6,905.7	16.8	26.0	-10.76	-518.9	-1,213.5	840.6	810.0	30.65	27.425		
7,200.0	7,164.5	7,136.7	7,003.5	16.8	26.3	-69.79	-515.0	-1,232.2	853.0	822.1	30.94	27.570		
7,300.0	7,260.5	7,237.5	7,100.1	16.7	26.5	-77.88	-493.5	-1,250.8	865.0	834.2	30.85	28.037		
7,400.0	7,350.3	7,339.6	7,192.6	16.5	26.6	-80.31	-454.6	-1,268.6	876.3	845.9	30.42	28.809		
7,500.0	7,431.2	7,442.9	7,277.8	16.2	26.6	-81.21	-398.9	-1,284.9	886.5	856.8	29.71	29.837		
7,600.0	7,500.8	7,547.3	7,352.6	15.9	26.6	-81.54	-327.6	-1,299.3	895.4	866.5	28.87	31.013		
7,700.0	7,556.9	7,652.8	7,414.0	15.7	26.6	-81.62	-242.8	-1,311.1	902.5	874.4	28.08	32.144		
7,800.0	7,597.9	7,759.2	7,459.4	15.6	26.6	-81.61	-147.2	-1,319.8	907.7	880.2	27.55	32.950		
7,900.0	7,622.5	7,866.1	7,486.8	15.6	26.7	-81.57	-44.1	-1,325.1	910.8	883.4	27.47	33.156		
8,000.0	7,630.0	7,972.7	7,495.0	15.8	26.8	-81.55	62.0	-1,326.7	911.8	883.8	27.96	32.610		
8,100.0	7,630.0	8,072.7	7,495.0	16.3	27.0	-81.55	162.0	-1,326.7	911.8	882.9	28.89	31.565		
8,200.0	7,630.0	8,172.7	7,495.0	16.8	27.4	-81.55	262.0	-1,326.7	911.8	881.6	30.17	30.225		
8,300.0	7,630.0	8,272.7	7,495.0	17.6	27.8	-81.55	362.0	-1,326.7	911.8	880.0	31.78	28.693		
8,400.0	7,630.0	8,372.7	7,495.0	18.4	28.4	-81.55	462.0	-1,326.7	911.8	878.1	33.67	27.081		
8,500.0	7,630.0	8,472.7	7,495.0	19.4	29.0	-81.55	562.0	-1,326.7	911.8	876.0	35.80	25.470		
8,600.0	7,630.0	8,572.7	7,495.0	20.5	29.7	-81.55	662.0	-1,326.7	911.8	873.7	38.12	23.916		
8,700.0	7,630.0	8,672.7	7,495.0	21.7	30.5	-81.55	762.0	-1,326.7	911.8	871.2	40.61	22.449		
8,800.0	7,630.0	8,772.7	7,495.0	23.0	31.4	-81.55	862.0	-1,326.7	911.8	868.5	43.24	21.086		
8,900.0	7,630.0	8,872.7	7,495.0	24.3	32.4	-81.55	962.0	-1,326.7	911.8	865.8	45.98	19.830		
9,000.0	7,630.0	8,972.7	7,495.0	25.7	33.4	-81.55	1,062.0	-1,326.7	911.8	863.0	48.81	18.680		
9,100.0	7,630.0	9,072.7	7,495.0	27.1	34.5	-81.55	1,162.0	-1,326.7	911.8	860.1	51.72	17.629		
9,200.0	7,630.0	9,172.7	7,495.0	28.5	35.7	-81.55	1,262.0	-1,326.7	911.8	857.1	54.69	16.670		
9,300.0	7,630.0	9,272.7	7,495.0	30.0	36.8	-81.55	1,362.0	-1,326.7	911.8	854.1	57.72	15.795		
9,400.0	7,630.0	9,372.7	7,495.0	31.5	38.1	-81.55	1,462.0	-1,326.7	911.8	851.0	60.80	14.996		
9,500.0	7,630.0	9,472.7	7,495.0	33.1	39.4	-81.55	1,562.0	-1,326.7	911.8	847.9	63.92	14.264		
9,600.0	7,630.0	9,572.7	7,495.0	34.6	40.7	-81.55	1,662.0	-1,326.7	911.8	844.7	67.07	13.594		
9,700.0	7,630.0	9,672.7	7,495.0	36.2	42.0	-81.55	1,762.0	-1,326.7	911.8	841.5	70.26	12.978		
9,800.0	7,630.0	9,772.7	7,495.0	37.8	43.4	-81.55	1,862.0	-1,326.7	911.8	838.3	73.46	12.411		
9,900.0	7,630.0	9,872.7	7,495.0	39.4	44.8	-81.55	1,962.0	-1,326.7	911.8	835.1	76.69	11.888		
10,000.0	7,630.0	9,972.7	7,495.0	41.0	46.2	-81.55	2,062.0	-1,326.7	911.8	831.8	79.95	11.405		
10,100.0	7,630.0	10,072.7	7,495.0	42.6	47.7	-81.55	2,162.0	-1,326.7	911.8	828.6	83.22	10.957		
10,200.0	7,630.0	10,172.7	7,495.0	44.3	49.1	-81.55	2,262.0	-1,326.7	911.8	825.3	86.50	10.541		
10,300.0	7,630.0	10,272.7	7,495.0	45.9	50.6	-81.55	2,362.0	-1,326.7	911.8	822.0	89.80	10.154		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4D-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,400.0	7,630.0	10,372.7	7,495.0	47.6	52.1	-81.55	2,462.0	-1,326.7	911.8	818.7	93.11	9.792		
10,500.0	7,630.0	10,472.7	7,495.0	49.2	53.6	-81.55	2,562.0	-1,326.7	911.8	815.3	96.43	9.455		
10,600.0	7,630.0	10,572.7	7,495.0	50.9	55.2	-81.55	2,662.0	-1,326.7	911.8	812.0	99.77	9.139		
10,700.0	7,630.0	10,672.7	7,495.0	52.6	56.7	-81.55	2,762.0	-1,326.7	911.8	808.7	103.11	8.843		
10,800.0	7,630.0	10,772.7	7,495.0	54.3	58.3	-81.55	2,862.0	-1,326.7	911.8	805.3	106.46	8.565		
10,900.0	7,630.0	10,872.7	7,495.0	55.9	59.8	-81.55	2,962.0	-1,326.7	911.8	802.0	109.81	8.303		
11,000.0	7,630.0	10,972.7	7,495.0	57.6	61.4	-81.55	3,062.0	-1,326.7	911.8	798.6	113.18	8.056		
11,100.0	7,630.0	11,072.7	7,495.0	59.3	63.0	-81.55	3,162.0	-1,326.7	911.8	795.2	116.55	7.823		
11,200.0	7,630.0	11,172.7	7,495.0	61.0	64.6	-81.55	3,262.0	-1,326.7	911.8	791.9	119.93	7.603		
11,300.0	7,630.0	11,272.7	7,495.0	62.7	66.2	-81.55	3,362.0	-1,326.7	911.8	788.5	123.31	7.394		
11,400.0	7,630.0	11,372.7	7,495.0	64.4	67.8	-81.55	3,462.0	-1,326.7	911.8	785.1	126.69	7.197		
11,500.0	7,630.0	11,472.7	7,495.0	66.1	69.4	-81.55	3,562.0	-1,326.7	911.8	781.7	130.08	7.009		
11,600.0	7,630.0	11,572.7	7,495.0	67.8	71.1	-81.55	3,662.0	-1,326.7	911.8	778.3	133.48	6.831		
11,700.0	7,630.0	11,672.7	7,495.0	69.5	72.7	-81.55	3,762.0	-1,326.7	911.8	774.9	136.88	6.661		
11,800.0	7,630.0	11,772.7	7,495.0	71.2	74.3	-81.55	3,862.0	-1,326.7	911.8	771.5	140.28	6.500		
11,900.0	7,630.0	11,872.7	7,495.0	73.0	76.0	-81.55	3,962.0	-1,326.7	911.8	768.1	143.68	6.346		
12,000.0	7,630.0	11,972.7	7,495.0	74.7	77.6	-81.55	4,062.0	-1,326.7	911.8	764.7	147.09	6.199		
12,100.0	7,630.0	12,072.7	7,495.0	76.4	79.3	-81.55	4,162.0	-1,326.7	911.8	761.3	150.50	6.058		
12,200.0	7,630.0	12,172.7	7,495.0	78.1	80.9	-81.55	4,262.0	-1,326.7	911.8	757.9	153.92	5.924		
12,300.0	7,630.0	12,272.7	7,495.0	79.8	82.6	-81.55	4,362.0	-1,326.7	911.8	754.4	157.33	5.795		
12,400.0	7,630.0	12,372.7	7,495.0	81.5	84.2	-81.55	4,462.0	-1,326.7	911.8	751.0	160.75	5.672		
12,500.0	7,630.0	12,472.7	7,495.0	83.3	85.9	-81.55	4,562.0	-1,326.7	911.8	747.6	164.17	5.554		
12,600.0	7,630.0	12,572.7	7,495.0	85.0	87.6	-81.55	4,662.0	-1,326.7	911.8	744.2	167.60	5.440		
12,700.0	7,630.0	12,672.7	7,495.0	86.7	89.3	-81.55	4,762.0	-1,326.7	911.8	740.8	171.02	5.331		
12,800.0	7,630.0	12,772.7	7,495.0	88.4	90.9	-81.55	4,862.0	-1,326.7	911.8	737.3	174.45	5.227		
12,900.0	7,630.0	12,872.7	7,495.0	90.2	92.6	-81.55	4,962.0	-1,326.7	911.8	733.9	177.88	5.126		
13,000.0	7,630.0	12,972.7	7,495.0	91.9	94.3	-81.55	5,062.0	-1,326.7	911.8	730.5	181.31	5.029		
13,100.0	7,630.0	13,072.7	7,495.0	93.6	96.0	-81.55	5,162.0	-1,326.7	911.8	727.0	184.74	4.936		
13,200.0	7,630.0	13,172.7	7,495.0	95.4	97.7	-81.55	5,262.0	-1,326.7	911.8	723.6	188.17	4.845		
13,300.0	7,630.0	13,272.7	7,495.0	97.1	99.4	-81.55	5,362.0	-1,326.7	911.8	720.2	191.60	4.759		
13,400.0	7,630.0	13,372.7	7,495.0	98.8	101.1	-81.55	5,462.0	-1,326.7	911.8	716.7	195.04	4.675		
13,500.0	7,630.0	13,472.7	7,495.0	100.5	102.7	-81.55	5,562.0	-1,326.7	911.8	713.3	198.48	4.594		
13,600.0	7,630.0	13,572.7	7,495.0	102.3	104.4	-81.55	5,662.0	-1,326.7	911.8	709.9	201.91	4.516		
13,700.0	7,630.0	13,672.7	7,495.0	104.0	106.1	-81.55	5,762.0	-1,326.7	911.8	706.4	205.35	4.440		
13,800.0	7,630.0	13,772.7	7,495.0	105.8	107.8	-81.55	5,862.0	-1,326.7	911.8	703.0	208.79	4.367		
13,900.0	7,630.0	13,872.7	7,495.0	107.5	109.5	-81.55	5,962.0	-1,326.7	911.8	699.5	212.23	4.296		
14,000.0	7,630.0	13,972.7	7,495.0	109.2	111.2	-81.55	6,062.0	-1,326.7	911.8	696.1	215.68	4.228		
14,100.0	7,630.0	14,072.7	7,495.0	111.0	113.0	-81.55	6,162.0	-1,326.7	911.8	692.7	219.12	4.161		
14,200.0	7,630.0	14,172.7	7,495.0	112.7	114.7	-81.55	6,262.0	-1,326.7	911.8	689.2	222.56	4.097		
14,300.0	7,630.0	14,272.7	7,495.0	114.4	116.4	-81.55	6,362.0	-1,326.7	911.8	685.8	226.01	4.034 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.33	0.3	-29.9	29.9					
100.0	100.0	99.0	99.0	0.1	0.1	-89.33	0.3	-29.9	29.9	29.7	0.24	126.738		
200.0	200.0	199.0	199.0	0.3	0.3	-89.33	0.3	-29.9	29.9	29.3	0.58	51.195		
300.0	300.0	299.0	299.0	0.5	0.5	-89.33	0.3	-29.9	29.9	29.0	0.93	32.057		
400.0	400.0	399.0	399.0	0.6	0.6	-89.33	0.3	-29.9	29.9	28.7	1.28	23.334		
500.0	500.0	499.0	499.0	0.8	0.8	-89.33	0.3	-29.9	29.9	28.3	1.63	18.343		
600.0	600.0	599.0	599.0	1.0	1.0	-89.33	0.3	-29.9	29.9	28.0	1.98	15.110	CC, ES	
700.0	700.0	698.1	698.0	1.2	1.2	-90.81	-0.4	-31.4	31.4	29.1	2.33	13.498		
800.0	800.0	796.9	796.7	1.3	1.3	-94.51	-2.8	-35.9	36.1	33.4	2.68	13.483		
900.0	900.0	895.2	894.7	1.5	1.5	-98.91	-6.8	-43.3	44.1	41.1	3.02	14.584		
1,000.0	1,000.0	993.0	991.8	1.7	1.8	68.55	-12.3	-53.7	54.9	51.5	3.38	16.258		
1,100.0	1,099.8	1,090.2	1,087.8	1.9	2.1	57.08	-19.3	-66.9	67.5	63.7	3.73	18.066		
1,200.0	1,199.5	1,189.2	1,185.2	2.1	2.3	45.13	-27.5	-82.2	79.2	75.1	4.11	19.285		
1,300.0	1,299.0	1,288.7	1,283.2	2.3	2.7	43.42	-35.7	-97.7	88.3	83.8	4.49	19.661		
1,400.0	1,398.4	1,388.3	1,381.3	2.5	3.0	44.46	-44.0	-113.1	97.3	92.4	4.89	19.888		
1,500.0	1,497.8	1,487.9	1,479.3	2.7	3.3	45.32	-52.2	-128.6	106.2	100.9	5.30	20.054		
1,600.0	1,597.2	1,587.5	1,577.3	2.9	3.6	46.05	-60.5	-144.1	115.2	109.5	5.71	20.174		
1,700.0	1,696.6	1,687.1	1,675.4	3.2	4.0	46.67	-68.7	-159.6	124.2	118.1	6.13	20.261		
1,800.0	1,796.1	1,786.6	1,773.4	3.4	4.3	47.21	-77.0	-175.0	133.3	126.7	6.56	20.323		
1,900.0	1,895.5	1,886.2	1,871.4	3.6	4.7	47.68	-85.2	-190.5	142.3	135.3	6.99	20.366		
2,000.0	1,994.9	1,985.8	1,969.4	3.9	5.0	48.10	-93.5	-206.0	151.3	143.9	7.42	20.395		
2,100.0	2,094.3	2,085.4	2,067.5	4.1	5.4	48.47	-101.7	-221.5	160.4	152.5	7.86	20.414		
2,200.0	2,193.7	2,185.0	2,165.5	4.4	5.7	48.79	-109.9	-236.9	169.4	161.1	8.30	20.425		
2,300.0	2,293.1	2,284.6	2,263.5	4.6	6.1	49.09	-118.2	-252.4	178.5	169.7	8.74	20.429		
2,400.0	2,392.6	2,384.2	2,361.6	4.9	6.4	49.36	-126.4	-267.9	187.5	178.4	9.18	20.429		
2,500.0	2,492.0	2,483.7	2,459.6	5.1	6.8	49.60	-134.7	-283.4	196.6	187.0	9.63	20.426		
2,600.0	2,591.4	2,583.3	2,557.6	5.4	7.1	49.82	-142.9	-298.8	205.7	195.6	10.07	20.420		
2,700.0	2,690.8	2,682.9	2,655.6	5.6	7.5	50.02	-151.2	-314.3	214.8	204.2	10.52	20.412		
2,800.0	2,790.2	2,782.5	2,753.7	5.9	7.8	50.21	-159.4	-329.8	223.8	212.9	10.97	20.402		
2,900.0	2,889.7	2,882.1	2,851.7	6.1	8.2	50.38	-167.7	-345.3	232.9	221.5	11.42	20.392		
3,000.0	2,989.1	2,981.7	2,949.7	6.4	8.5	50.54	-175.9	-360.7	242.0	230.1	11.87	20.381		
3,100.0	3,088.5	3,081.3	3,047.8	6.6	8.9	50.68	-184.1	-376.2	251.1	238.7	12.33	20.369		
3,200.0	3,187.9	3,180.8	3,145.8	6.9	9.2	50.82	-192.4	-391.7	260.1	247.4	12.78	20.357		
3,300.0	3,287.3	3,280.4	3,243.8	7.1	9.6	50.95	-200.6	-407.2	269.2	256.0	13.23	20.345		
3,400.0	3,386.7	3,380.0	3,341.9	7.4	9.9	51.07	-208.9	-422.6	278.3	264.6	13.69	20.332		
3,500.0	3,486.2	3,479.6	3,439.9	7.6	10.3	51.18	-217.1	-438.1	287.4	273.2	14.14	20.320		
3,600.0	3,585.6	3,579.2	3,537.9	7.9	10.6	51.28	-225.4	-453.6	296.5	281.9	14.60	20.308		
3,700.0	3,685.0	3,678.8	3,635.9	8.1	11.0	51.38	-233.6	-469.1	305.6	290.5	15.06	20.295		
3,800.0	3,784.4	3,778.3	3,734.0	8.4	11.3	51.47	-241.9	-484.5	314.7	299.1	15.51	20.283		
3,900.0	3,883.8	3,877.9	3,832.0	8.6	11.7	51.56	-250.1	-500.0	323.7	307.8	15.97	20.272		
4,000.0	3,983.3	3,977.5	3,930.0	8.9	12.0	51.64	-258.3	-515.5	332.8	316.4	16.43	20.260		
4,100.0	4,082.7	4,077.1	4,028.1	9.2	12.4	51.72	-266.6	-531.0	341.9	325.0	16.89	20.249		
4,200.0	4,182.1	4,176.7	4,126.1	9.4	12.7	51.80	-274.8	-546.4	351.0	333.7	17.34	20.238		
4,300.0	4,281.5	4,276.3	4,224.1	9.7	13.1	51.87	-283.1	-561.9	360.1	342.3	17.80	20.227		
4,400.0	4,380.9	4,375.9	4,322.1	9.9	13.4	51.93	-291.3	-577.4	369.2	350.9	18.26	20.216		
4,500.0	4,480.3	4,475.4	4,420.2	10.2	13.8	52.00	-299.6	-592.9	378.3	359.6	18.72	20.206		
4,600.0	4,579.8	4,575.0	4,518.2	10.4	14.2	52.06	-307.8	-608.3	387.4	368.2	19.18	20.196		
4,700.0	4,679.2	4,674.6	4,616.2	10.7	14.5	52.12	-316.1	-623.8	396.5	376.8	19.64	20.186		
4,800.0	4,778.6	4,774.2	4,714.3	10.9	14.9	52.17	-324.3	-639.3	405.6	385.5	20.10	20.177		
4,900.0	4,878.0	4,873.8	4,812.3	11.2	15.2	52.23	-332.6	-654.8	414.7	394.1	20.56	20.167		
5,000.0	4,977.4	4,973.4	4,910.3	11.4	15.6	52.28	-340.8	-670.2	423.7	402.7	21.02	20.158		
5,100.0	5,076.9	5,073.0	5,008.3	11.7	15.9	52.33	-349.0	-685.7	432.8	411.4	21.48	20.150		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,176.3	5,172.5	5,106.4	12.0	16.3	52.37	-357.3	-701.2	441.9	420.0	21.94	20.141		
5,300.0	5,275.7	5,272.1	5,204.4	12.2	16.6	52.42	-365.5	-716.7	451.0	428.6	22.40	20.133		
5,400.0	5,375.1	5,371.7	5,302.4	12.5	17.0	52.46	-373.8	-732.2	460.1	437.3	22.86	20.124		
5,500.0	5,474.5	5,471.3	5,400.5	12.7	17.3	52.50	-382.0	-747.6	469.2	445.9	23.33	20.116		
5,600.0	5,573.9	5,570.9	5,498.5	13.0	17.7	52.54	-390.3	-763.1	478.3	454.5	23.79	20.109		
5,700.0	5,673.4	5,670.5	5,596.5	13.2	18.1	52.58	-398.5	-778.6	487.4	463.2	24.25	20.101		
5,800.0	5,772.8	5,770.0	5,694.5	13.5	18.4	52.62	-406.8	-794.1	496.5	471.8	24.71	20.094		
5,900.0	5,872.2	5,869.6	5,792.6	13.7	18.8	52.65	-415.0	-809.5	505.6	480.4	25.17	20.087		
6,000.0	5,971.6	5,969.2	5,890.6	14.0	19.1	52.69	-423.2	-825.0	514.7	489.1	25.63	20.080		
6,100.0	6,071.0	6,068.8	5,988.6	14.3	19.5	52.72	-431.5	-840.5	523.8	497.7	26.09	20.073		
6,200.0	6,170.5	6,168.4	6,086.7	14.5	19.8	52.75	-439.7	-856.0	532.9	506.3	26.56	20.066		
6,300.0	6,269.9	6,268.0	6,184.7	14.8	20.2	52.78	-448.0	-871.4	542.0	515.0	27.02	20.060		
6,400.0	6,369.3	6,367.6	6,282.7	15.0	20.5	52.81	-456.2	-886.9	551.1	523.6	27.48	20.054		
6,500.0	6,468.7	6,467.1	6,380.8	15.3	20.9	52.84	-464.5	-902.4	560.2	532.2	27.94	20.048		
6,600.0	6,568.1	6,566.7	6,478.8	15.5	21.2	52.87	-472.7	-917.9	569.3	540.9	28.40	20.042		
6,700.0	6,667.5	6,666.3	6,576.8	15.8	21.6	52.90	-481.0	-933.3	578.4	549.5	28.87	20.036		
6,800.0	6,767.0	6,765.9	6,674.8	16.1	22.0	52.92	-489.2	-948.8	587.5	558.1	29.33	20.030		
6,900.0	6,866.4	6,865.5	6,772.9	16.3	22.3	52.95	-497.4	-964.3	596.6	566.8	29.79	20.025		
7,000.0	6,965.8	6,965.1	6,870.9	16.6	22.7	52.97	-505.7	-979.8	605.7	575.4	30.25	20.019		
7,100.0	7,065.4	7,064.6	6,968.8	16.8	23.0	-10.34	-513.9	-995.2	614.8	584.0	30.73	20.006		
7,200.0	7,164.5	7,163.5	7,066.3	16.8	23.3	-70.76	-520.0	-1,010.6	623.9	593.2	30.77	20.278		
7,300.0	7,260.5	7,265.1	7,166.2	16.7	23.5	-80.37	-510.6	-1,026.4	633.3	602.9	30.44	20.802		
7,400.0	7,350.3	7,370.4	7,266.1	16.5	23.6	-84.24	-482.2	-1,042.1	642.6	612.7	29.87	21.511		
7,500.0	7,431.2	7,479.4	7,362.5	16.2	23.6	-86.46	-433.8	-1,057.4	651.4	622.2	29.15	22.346		
7,600.0	7,500.8	7,592.2	7,450.8	15.9	23.6	-87.93	-365.3	-1,071.3	659.3	630.9	28.40	23.211		
7,700.0	7,556.9	7,708.6	7,526.2	15.7	23.5	-88.95	-277.8	-1,083.2	665.9	638.1	27.79	23.966		
7,800.0	7,597.9	7,828.0	7,583.8	15.6	23.4	-89.62	-173.8	-1,092.3	670.9	643.4	27.45	24.440		
7,900.0	7,622.5	7,949.6	7,619.3	15.6	23.5	-89.99	-57.9	-1,097.9	673.9	646.4	27.51	24.495		
8,000.0	7,630.0	8,070.2	7,630.0	15.8	23.6	-90.08	62.0	-1,099.6	674.8	646.8	28.05	24.061		
8,100.0	7,630.0	8,170.2	7,630.0	16.3	23.9	-90.08	162.0	-1,099.6	674.8	645.8	28.98	23.284		
8,200.0	7,630.0	8,270.2	7,630.0	16.8	24.3	-90.08	262.0	-1,099.6	674.8	644.5	30.28	22.286		
8,300.0	7,630.0	8,370.2	7,630.0	17.6	24.8	-90.08	362.0	-1,099.6	674.8	642.9	31.91	21.146		
8,400.0	7,630.0	8,470.2	7,630.0	18.4	25.4	-90.08	462.0	-1,099.6	674.8	641.0	33.83	19.947		
8,500.0	7,630.0	8,570.2	7,630.0	19.4	26.1	-90.08	562.0	-1,099.6	674.8	638.8	35.99	18.750		
8,600.0	7,630.0	8,670.2	7,630.0	20.5	26.9	-90.08	662.0	-1,099.6	674.8	636.5	38.35	17.597		
8,700.0	7,630.0	8,770.2	7,630.0	21.7	27.8	-90.08	762.0	-1,099.6	674.8	633.9	40.87	16.510		
8,800.0	7,630.0	8,870.2	7,630.0	23.0	28.8	-90.08	862.0	-1,099.6	674.8	631.3	43.53	15.501		
8,900.0	7,630.0	8,970.2	7,630.0	24.3	29.9	-90.08	962.0	-1,099.6	674.8	628.5	46.31	14.572		
9,000.0	7,630.0	9,070.2	7,630.0	25.7	31.0	-90.08	1,062.0	-1,099.6	674.8	625.6	49.18	13.722		
9,100.0	7,630.0	9,170.2	7,630.0	27.1	32.2	-90.08	1,162.0	-1,099.6	674.8	622.7	52.12	12.947		
9,200.0	7,630.0	9,270.2	7,630.0	28.5	33.4	-90.08	1,262.0	-1,099.6	674.8	619.7	55.13	12.239		
9,300.0	7,630.0	9,370.2	7,630.0	30.0	34.7	-90.08	1,362.0	-1,099.6	674.8	616.6	58.20	11.594		
9,400.0	7,630.0	9,470.2	7,630.0	31.5	36.0	-90.08	1,462.0	-1,099.6	674.8	613.5	61.32	11.005		
9,500.0	7,630.0	9,570.2	7,630.0	33.1	37.3	-90.08	1,562.0	-1,099.6	674.8	610.3	64.47	10.466		
9,600.0	7,630.0	9,670.2	7,630.0	34.6	38.7	-90.08	1,662.0	-1,099.6	674.8	607.1	67.66	9.973		
9,700.0	7,630.0	9,770.2	7,630.0	36.2	40.1	-90.08	1,762.0	-1,099.6	674.8	603.9	70.88	9.520		
9,800.0	7,630.0	9,870.2	7,630.0	37.8	41.6	-90.08	1,862.0	-1,099.6	674.8	600.7	74.13	9.103		
9,900.0	7,630.0	9,970.2	7,630.0	39.4	43.0	-90.08	1,962.0	-1,099.6	674.8	597.4	77.40	8.718		
10,000.0	7,630.0	10,070.2	7,630.0	41.0	44.5	-90.08	2,062.0	-1,099.6	674.8	594.1	80.69	8.363		
10,100.0	7,630.0	10,170.2	7,630.0	42.6	46.0	-90.08	2,162.0	-1,099.6	674.8	590.8	84.00	8.034		
10,200.0	7,630.0	10,270.2	7,630.0	44.3	47.5	-90.08	2,262.0	-1,099.6	674.8	587.5	87.32	7.728		
10,300.0	7,630.0	10,370.2	7,630.0	45.9	49.1	-90.08	2,362.0	-1,099.6	674.8	584.1	90.66	7.444		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,630.0	10,470.2	7,630.0	47.6	50.6	-90.08	2,462.0	-1,099.6	674.8	580.8	94.00	7.178		
10,500.0	7,630.0	10,570.2	7,630.0	49.2	52.2	-90.08	2,562.0	-1,099.6	674.8	577.4	97.37	6.931		
10,600.0	7,630.0	10,670.2	7,630.0	50.9	53.8	-90.08	2,662.0	-1,099.6	674.8	574.1	100.74	6.699		
10,700.0	7,630.0	10,770.2	7,630.0	52.6	55.4	-90.08	2,762.0	-1,099.6	674.8	570.7	104.12	6.481		
10,800.0	7,630.0	10,870.2	7,630.0	54.3	56.9	-90.08	2,862.0	-1,099.6	674.8	567.3	107.50	6.277		
10,900.0	7,630.0	10,970.2	7,630.0	55.9	58.6	-90.08	2,962.0	-1,099.6	674.8	563.9	110.90	6.085		
11,000.0	7,630.0	11,070.2	7,630.0	57.6	60.2	-90.08	3,062.0	-1,099.6	674.8	560.5	114.30	5.904		
11,100.0	7,630.0	11,170.2	7,630.0	59.3	61.8	-90.08	3,162.0	-1,099.6	674.8	557.1	117.71	5.733		
11,200.0	7,630.0	11,270.2	7,630.0	61.0	63.4	-90.08	3,262.0	-1,099.6	674.8	553.7	121.12	5.571		
11,300.0	7,630.0	11,370.2	7,630.0	62.7	65.0	-90.08	3,362.0	-1,099.6	674.8	550.3	124.54	5.418		
11,400.0	7,630.0	11,470.2	7,630.0	64.4	66.7	-90.08	3,462.0	-1,099.6	674.8	546.8	127.97	5.273		
11,500.0	7,630.0	11,570.2	7,630.0	66.1	68.3	-90.08	3,562.0	-1,099.6	674.8	543.4	131.39	5.136		
11,600.0	7,630.0	11,670.2	7,630.0	67.8	70.0	-90.08	3,662.0	-1,099.6	674.8	540.0	134.83	5.005		
11,700.0	7,630.0	11,770.2	7,630.0	69.5	71.6	-90.08	3,762.0	-1,099.6	674.8	536.5	138.26	4.881		
11,800.0	7,630.0	11,870.2	7,630.0	71.2	73.3	-90.08	3,862.0	-1,099.6	674.8	533.1	141.70	4.762		
11,900.0	7,630.0	11,970.2	7,630.0	73.0	75.0	-90.08	3,962.0	-1,099.6	674.8	529.7	145.15	4.649		
12,000.0	7,630.0	12,070.2	7,630.0	74.7	76.6	-90.08	4,062.0	-1,099.6	674.8	526.2	148.59	4.541		
12,100.0	7,630.0	12,170.2	7,630.0	76.4	78.3	-90.08	4,162.0	-1,099.6	674.8	522.8	152.04	4.438		
12,200.0	7,630.0	12,270.2	7,630.0	78.1	80.0	-90.08	4,262.0	-1,099.6	674.8	519.3	155.49	4.340		
12,300.0	7,630.0	12,370.2	7,630.0	79.8	81.7	-90.08	4,362.0	-1,099.6	674.8	515.9	158.95	4.245		
12,400.0	7,630.0	12,470.2	7,630.0	81.5	83.4	-90.08	4,462.0	-1,099.6	674.8	512.4	162.40	4.155		
12,500.0	7,630.0	12,570.2	7,630.0	83.3	85.0	-90.08	4,562.0	-1,099.6	674.8	508.9	165.86	4.068		
12,600.0	7,630.0	12,670.2	7,630.0	85.0	86.7	-90.08	4,662.0	-1,099.6	674.8	505.5	169.32	3.985		
12,700.0	7,630.0	12,770.2	7,630.0	86.7	88.4	-90.08	4,762.0	-1,099.6	674.8	502.0	172.79	3.905		
12,800.0	7,630.0	12,870.2	7,630.0	88.4	90.1	-90.08	4,862.0	-1,099.6	674.8	498.5	176.25	3.829		
12,900.0	7,630.0	12,970.2	7,630.0	90.2	91.8	-90.08	4,962.0	-1,099.6	674.8	495.1	179.72	3.755		
13,000.0	7,630.0	13,070.2	7,630.0	91.9	93.5	-90.08	5,062.0	-1,099.6	674.8	491.6	183.18	3.684		
13,100.0	7,630.0	13,170.2	7,630.0	93.6	95.2	-90.08	5,162.0	-1,099.6	674.8	488.1	186.65	3.615		
13,200.0	7,630.0	13,270.2	7,630.0	95.4	96.9	-90.08	5,262.0	-1,099.6	674.8	484.7	190.12	3.549		
13,300.0	7,630.0	13,370.2	7,630.0	97.1	98.6	-90.08	5,362.0	-1,099.6	674.8	481.2	193.60	3.486		
13,400.0	7,630.0	13,470.2	7,630.0	98.8	100.3	-90.08	5,462.0	-1,099.6	674.8	477.7	197.07	3.424		
13,500.0	7,630.0	13,570.2	7,630.0	100.5	102.0	-90.08	5,562.0	-1,099.6	674.8	474.3	200.54	3.365		
13,600.0	7,630.0	13,670.2	7,630.0	102.3	103.7	-90.08	5,662.0	-1,099.6	674.8	470.8	204.02	3.308		
13,700.0	7,630.0	13,770.2	7,630.0	104.0	105.4	-90.08	5,762.0	-1,099.6	674.8	467.3	207.50	3.252		
13,800.0	7,630.0	13,870.2	7,630.0	105.8	107.1	-90.08	5,862.0	-1,099.6	674.8	463.8	210.97	3.198		
13,900.0	7,630.0	13,970.2	7,630.0	107.5	108.9	-90.08	5,962.0	-1,099.6	674.8	460.3	214.45	3.147		
14,000.0	7,630.0	14,070.2	7,630.0	109.2	110.6	-90.08	6,062.0	-1,099.6	674.8	456.9	217.93	3.096		
14,100.0	7,630.0	14,170.2	7,630.0	111.0	112.3	-90.08	6,162.0	-1,099.6	674.8	453.4	221.41	3.048		
14,200.0	7,630.0	14,270.2	7,630.0	112.7	114.0	-90.08	6,262.0	-1,099.6	674.8	449.9	224.89	3.001		
14,300.0	7,630.0	14,370.2	7,630.0	114.4	115.7	-90.08	6,362.0	-1,099.6	674.8	446.4	228.38	2.955 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4F-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-19.9	19.9					
100.0	100.0	99.0	99.0	0.1	0.1	-89.95	0.0	-19.9	19.9	19.6	0.24	84.092		
200.0	200.0	199.0	199.0	0.3	0.3	-89.95	0.0	-19.9	19.9	19.3	0.58	33.968		
300.0	300.0	299.0	299.0	0.5	0.5	-89.95	0.0	-19.9	19.9	18.9	0.93	21.270		
400.0	400.0	399.0	399.0	0.6	0.6	-89.95	0.0	-19.9	19.9	18.6	1.28	15.482		
500.0	500.0	499.0	499.0	0.8	0.8	-89.95	0.0	-19.9	19.9	18.2	1.63	12.170		
600.0	600.0	599.0	599.0	1.0	1.0	-89.95	0.0	-19.9	19.9	17.9	1.98	10.026		
700.0	700.0	699.0	699.0	1.2	1.2	-89.95	0.0	-19.9	19.9	17.5	2.33	8.524 CC, ES		
800.0	800.0	798.4	798.4	1.3	1.3	-92.49	-0.9	-21.3	21.3	18.6	2.68	7.950		
900.0	900.0	897.5	897.4	1.5	1.5	-98.42	-3.8	-25.5	25.8	22.8	3.03	8.539		
1,000.0	1,000.0	996.3	995.8	1.7	1.7	67.94	-8.5	-32.6	33.1	29.8	3.38	9.806		
1,100.0	1,099.8	1,094.7	1,093.5	1.9	1.9	56.49	-15.1	-42.4	42.1	38.4	3.74	11.265		
1,200.0	1,199.5	1,193.5	1,191.2	2.1	2.2	44.26	-23.4	-54.8	50.9	46.8	4.11	12.399		
1,300.0	1,299.0	1,293.3	1,289.7	2.3	2.5	42.42	-32.1	-67.8	57.6	53.1	4.49	12.820		
1,400.0	1,398.4	1,393.1	1,388.3	2.5	2.8	43.35	-40.8	-80.7	64.0	59.1	4.89	13.099		
1,500.0	1,497.8	1,492.9	1,486.8	2.7	3.1	44.11	-49.5	-93.7	70.5	65.2	5.29	13.317		
1,600.0	1,597.2	1,592.7	1,585.4	2.9	3.4	44.75	-58.2	-106.6	77.0	71.3	5.71	13.491		
1,700.0	1,696.6	1,692.5	1,683.9	3.2	3.7	45.28	-66.9	-119.6	83.5	77.3	6.12	13.630		
1,800.0	1,796.1	1,792.3	1,782.5	3.4	4.0	45.74	-75.6	-132.5	89.9	83.4	6.55	13.743		
1,900.0	1,895.5	1,892.0	1,881.1	3.6	4.3	46.14	-84.3	-145.5	96.4	89.5	6.97	13.834		
2,000.0	1,994.9	1,991.8	1,979.6	3.9	4.6	46.49	-93.0	-158.5	102.9	95.5	7.40	13.910		
2,100.0	2,094.3	2,091.6	2,078.2	4.1	4.9	46.79	-101.7	-171.4	109.4	101.6	7.83	13.972		
2,200.0	2,193.7	2,191.4	2,176.7	4.4	5.2	47.06	-110.4	-184.4	115.9	107.7	8.27	14.024		
2,300.0	2,293.1	2,291.2	2,275.3	4.6	5.5	47.31	-119.1	-197.3	122.5	113.8	8.71	14.067		
2,400.0	2,392.6	2,391.0	2,373.9	4.9	5.9	47.53	-127.8	-210.3	129.0	119.8	9.14	14.104		
2,500.0	2,492.0	2,490.8	2,472.4	5.1	6.2	47.72	-136.5	-223.2	135.5	125.9	9.58	14.135		
2,600.0	2,591.4	2,590.5	2,571.0	5.4	6.5	47.90	-145.2	-236.2	142.0	132.0	10.03	14.162		
2,700.0	2,690.8	2,690.3	2,669.5	5.6	6.8	48.06	-153.9	-249.1	148.5	138.0	10.47	14.185		
2,800.0	2,790.2	2,790.1	2,768.1	5.9	7.1	48.21	-162.6	-262.1	155.0	144.1	10.91	14.204		
2,900.0	2,889.7	2,889.9	2,866.7	6.1	7.5	48.35	-171.3	-275.1	161.5	150.2	11.36	14.221		
3,000.0	2,989.1	2,989.7	2,965.2	6.4	7.8	48.48	-179.9	-288.0	168.0	156.2	11.80	14.236		
3,100.0	3,088.5	3,089.5	3,063.8	6.6	8.1	48.60	-188.6	-301.0	174.6	162.3	12.25	14.248		
3,200.0	3,187.9	3,189.3	3,162.3	6.9	8.4	48.70	-197.3	-313.9	181.1	168.4	12.70	14.260		
3,300.0	3,287.3	3,289.1	3,260.9	7.1	8.7	48.81	-206.0	-326.9	187.6	174.5	13.15	14.269		
3,400.0	3,386.7	3,388.8	3,359.4	7.4	9.1	48.90	-214.7	-339.8	194.1	180.5	13.60	14.278		
3,500.0	3,486.2	3,488.6	3,458.0	7.6	9.4	48.99	-223.4	-352.8	200.6	186.6	14.05	14.285		
3,600.0	3,585.6	3,588.4	3,556.6	7.9	9.7	49.07	-232.1	-365.8	207.2	192.7	14.50	14.292		
3,700.0	3,685.0	3,688.2	3,655.1	8.1	10.0	49.15	-240.8	-378.7	213.7	198.7	14.95	14.297		
3,800.0	3,784.4	3,788.0	3,753.7	8.4	10.3	49.22	-249.5	-391.7	220.2	204.8	15.40	14.302		
3,900.0	3,883.8	3,887.8	3,852.2	8.6	10.7	49.29	-258.2	-404.6	226.7	210.9	15.85	14.307		
4,000.0	3,983.3	3,987.6	3,950.8	8.9	11.0	49.36	-266.9	-417.6	233.2	216.9	16.30	14.311		
4,100.0	4,082.7	4,087.3	4,049.4	9.2	11.3	49.42	-275.6	-430.5	239.8	223.0	16.75	14.314		
4,200.0	4,182.1	4,187.1	4,147.9	9.4	11.6	49.48	-284.3	-443.5	246.3	229.1	17.20	14.317		
4,300.0	4,281.5	4,286.9	4,246.5	9.7	12.0	49.53	-293.0	-456.5	252.8	235.2	17.65	14.320		
4,400.0	4,380.9	4,386.7	4,345.0	9.9	12.3	49.59	-301.7	-469.4	259.3	241.2	18.11	14.322		
4,500.0	4,480.3	4,486.5	4,443.6	10.2	12.6	49.64	-310.4	-482.4	265.9	247.3	18.56	14.324		
4,600.0	4,579.8	4,586.3	4,542.2	10.4	12.9	49.68	-319.1	-495.3	272.4	253.4	19.01	14.326		
4,700.0	4,679.2	4,686.1	4,640.7	10.7	13.3	49.73	-327.8	-508.3	278.9	259.4	19.47	14.328		
4,800.0	4,778.6	4,785.9	4,739.3	10.9	13.6	49.77	-336.5	-521.2	285.4	265.5	19.92	14.329		
4,900.0	4,878.0	4,885.6	4,837.8	11.2	13.9	49.81	-345.2	-534.2	291.9	271.6	20.37	14.330		
5,000.0	4,977.4	4,985.4	4,936.4	11.4	14.2	49.85	-353.9	-547.2	298.5	277.6	20.83	14.332		
5,100.0	5,076.9	5,085.2	5,035.0	11.7	14.6	49.89	-362.5	-560.1	305.0	283.7	21.28	14.332		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4F-26H-P268 - HZ - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,176.3	5,185.0	5,133.5	12.0	14.9	49.93	-371.2	-573.1	311.5	289.8	21.73	14.333	
5,300.0	5,275.7	5,284.8	5,232.1	12.2	15.2	49.96	-379.9	-586.0	318.0	295.9	22.19	14.334	
5,400.0	5,375.1	5,384.6	5,330.6	12.5	15.5	49.99	-388.6	-599.0	324.6	301.9	22.64	14.335	
5,500.0	5,474.5	5,484.4	5,429.2	12.7	15.9	50.03	-397.3	-611.9	331.1	308.0	23.10	14.335	
5,600.0	5,573.9	5,584.1	5,527.8	13.0	16.2	50.06	-406.0	-624.9	337.6	314.1	23.55	14.335	
5,700.0	5,673.4	5,683.9	5,626.3	13.2	16.5	50.09	-414.7	-637.8	344.1	320.1	24.01	14.336	
5,800.0	5,772.8	5,783.7	5,724.9	13.5	16.8	50.12	-423.4	-650.8	350.7	326.2	24.46	14.336	
5,900.0	5,872.2	5,883.5	5,823.4	13.7	17.1	50.14	-432.1	-663.8	357.2	332.3	24.91	14.336	
6,000.0	5,971.6	5,983.3	5,922.0	14.0	17.5	50.17	-440.8	-676.7	363.7	338.3	25.37	14.336	
6,100.0	6,071.0	6,083.1	6,020.5	14.3	17.8	50.19	-449.5	-689.7	370.2	344.4	25.82	14.336	
6,200.0	6,170.5	6,182.9	6,119.1	14.5	18.1	50.22	-458.2	-702.6	376.8	350.5	26.28	14.337	
6,300.0	6,269.9	6,282.7	6,217.7	14.8	18.4	50.24	-466.9	-715.6	383.3	356.5	26.73	14.337	
6,400.0	6,369.3	6,382.4	6,316.2	15.0	18.8	50.27	-475.6	-728.5	389.8	362.6	27.19	14.337	
6,500.0	6,468.7	6,482.2	6,414.8	15.3	19.1	50.29	-484.3	-741.5	396.3	368.7	27.65	14.336	
6,600.0	6,568.1	6,582.0	6,513.3	15.5	19.4	50.31	-493.0	-754.5	402.9	374.8	28.10	14.336	
6,700.0	6,667.5	6,681.8	6,611.9	15.8	19.7	50.33	-501.7	-767.4	409.4	380.8	28.56	14.336	
6,800.0	6,767.0	6,781.6	6,710.5	16.1	20.1	50.35	-510.4	-780.4	415.9	386.9	29.01	14.336	
6,900.0	6,866.4	6,882.0	6,809.6	16.3	20.4	50.43	-518.7	-793.4	422.4	393.0	29.46	14.336	
7,000.0	6,965.8	6,982.6	6,909.2	16.6	20.6	52.15	-514.7	-806.5	428.7	398.6	30.11	14.235	
7,100.0	7,065.4	7,077.1	7,000.8	16.8	20.6	-7.69	-495.0	-818.5	435.9	404.9	30.98	14.071	
7,200.0	7,164.5	7,167.3	7,084.0	16.8	20.6	-63.59	-462.3	-829.5	444.6	413.1	31.50	14.115	
7,300.0	7,260.5	7,254.4	7,158.6	16.7	20.5	-68.85	-418.6	-839.3	454.4	422.9	31.51	14.418	
7,400.0	7,350.3	7,338.8	7,223.9	16.5	20.4	-68.82	-365.9	-847.9	464.4	433.4	31.00	14.980	
7,500.0	7,431.2	7,421.2	7,279.5	16.2	20.3	-67.64	-305.6	-855.2	474.1	444.0	30.05	15.778	
7,600.0	7,500.8	7,500.0	7,324.1	15.9	20.2	-66.31	-241.1	-861.0	482.8	454.0	28.82	16.753	
7,700.0	7,556.9	7,581.5	7,360.6	15.7	20.1	-65.06	-168.4	-865.8	490.0	462.5	27.54	17.793	
7,800.0	7,597.9	7,660.1	7,385.8	15.6	20.1	-64.14	-94.1	-869.1	495.5	468.9	26.55	18.664	
7,900.0	7,622.5	7,738.2	7,400.6	15.6	20.2	-63.56	-17.5	-871.1	498.8	472.7	26.14	19.085	
8,000.0	7,630.0	7,817.9	7,405.0	15.8	20.3	-63.38	62.0	-871.7	499.9	473.4	26.49	18.868	
8,100.0	7,630.0	7,917.9	7,405.0	16.3	20.6	-63.38	162.0	-871.7	499.9	472.5	27.35	18.277	
8,200.0	7,630.0	8,017.9	7,405.0	16.8	21.1	-63.38	262.0	-871.7	499.9	471.4	28.52	17.526	
8,300.0	7,630.0	8,117.9	7,405.0	17.6	21.7	-63.38	362.0	-871.7	499.9	469.9	29.98	16.675	
8,400.0	7,630.0	8,217.9	7,405.0	18.4	22.4	-63.38	462.0	-871.7	499.9	468.2	31.68	15.779	
8,500.0	7,630.0	8,317.9	7,405.0	19.4	23.2	-63.38	562.0	-871.7	499.9	466.3	33.59	14.882	
8,600.0	7,630.0	8,417.9	7,405.0	20.5	24.1	-63.38	662.0	-871.7	499.9	464.2	35.67	14.012	
8,700.0	7,630.0	8,517.9	7,405.0	21.7	25.1	-63.38	762.0	-871.7	499.9	462.0	37.91	13.188	
8,800.0	7,630.0	8,617.9	7,405.0	23.0	26.2	-63.38	862.0	-871.7	499.9	459.6	40.26	12.417	
8,900.0	7,630.0	8,717.9	7,405.0	24.3	27.4	-63.38	962.0	-871.7	499.9	457.2	42.71	11.704	
9,000.0	7,630.0	8,817.9	7,405.0	25.7	28.6	-63.38	1,062.0	-871.7	499.9	454.6	45.25	11.047	
9,100.0	7,630.0	8,917.9	7,405.0	27.1	29.9	-63.38	1,162.0	-871.7	499.9	452.0	47.86	10.444	
9,200.0	7,630.0	9,017.9	7,405.0	28.5	31.2	-63.38	1,262.0	-871.7	499.9	449.3	50.53	9.892	
9,300.0	7,630.0	9,117.9	7,405.0	30.0	32.5	-63.38	1,362.0	-871.7	499.9	446.6	53.26	9.386	
9,400.0	7,630.0	9,217.9	7,405.0	31.5	33.9	-63.38	1,462.0	-871.7	499.9	443.9	56.02	8.923	
9,500.0	7,630.0	9,317.9	7,405.0	33.1	35.4	-63.38	1,562.0	-871.7	499.9	441.1	58.83	8.498	
9,600.0	7,630.0	9,417.9	7,405.0	34.6	36.8	-63.38	1,662.0	-871.7	499.9	438.2	61.66	8.107	
9,700.0	7,630.0	9,517.9	7,405.0	36.2	38.3	-63.38	1,762.0	-871.7	499.9	435.4	64.53	7.747	
9,800.0	7,630.0	9,617.9	7,405.0	37.8	39.8	-63.38	1,862.0	-871.7	499.9	432.5	67.42	7.415	
9,900.0	7,630.0	9,717.9	7,405.0	39.4	41.3	-63.38	1,962.0	-871.7	499.9	429.6	70.33	7.108	
10,000.0	7,630.0	9,817.9	7,405.0	41.0	42.9	-63.38	2,062.0	-871.7	499.9	426.6	73.26	6.824	
10,100.0	7,630.0	9,917.9	7,405.0	42.6	44.4	-63.38	2,162.0	-871.7	499.9	423.7	76.20	6.560	
10,200.0	7,630.0	10,017.9	7,405.0	44.3	46.0	-63.38	2,262.0	-871.7	499.9	420.7	79.17	6.314	
10,300.0	7,630.0	10,117.9	7,405.0	45.9	47.6	-63.38	2,362.0	-871.7	499.9	417.7	82.14	6.086	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4F-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,630.0	10,217.9	7,405.0	47.6	49.2	-63.38	2,462.0	-871.7	499.9	414.8	85.13	5.872		
10,500.0	7,630.0	10,317.9	7,405.0	49.2	50.8	-63.38	2,562.0	-871.7	499.9	411.8	88.13	5.672		
10,600.0	7,630.0	10,417.9	7,405.0	50.9	52.4	-63.38	2,662.0	-871.7	499.9	408.7	91.13	5.485		
10,700.0	7,630.0	10,517.9	7,405.0	52.6	54.0	-63.38	2,762.0	-871.7	499.9	405.7	94.15	5.309		
10,800.0	7,630.0	10,617.9	7,405.0	54.3	55.7	-63.38	2,862.0	-871.7	499.9	402.7	97.17	5.144		
10,900.0	7,630.0	10,717.9	7,405.0	55.9	57.3	-63.38	2,962.0	-871.7	499.9	399.7	100.20	4.989		
11,000.0	7,630.0	10,817.9	7,405.0	57.6	59.0	-63.38	3,062.0	-871.7	499.9	396.6	103.24	4.842		
11,100.0	7,630.0	10,917.9	7,405.0	59.3	60.6	-63.38	3,162.0	-871.7	499.9	393.6	106.29	4.703		
11,200.0	7,630.0	11,017.9	7,405.0	61.0	62.3	-63.38	3,262.0	-871.7	499.9	390.5	109.33	4.572		
11,300.0	7,630.0	11,117.9	7,405.0	62.7	63.9	-63.38	3,362.0	-871.7	499.9	387.5	112.39	4.448		
11,400.0	7,630.0	11,217.9	7,405.0	64.4	65.6	-63.38	3,462.0	-871.7	499.9	384.4	115.45	4.330		
11,500.0	7,630.0	11,317.9	7,405.0	66.1	67.3	-63.38	3,562.0	-871.7	499.9	381.4	118.51	4.218		
11,600.0	7,630.0	11,417.9	7,405.0	67.8	68.9	-63.38	3,662.0	-871.7	499.9	378.3	121.58	4.112		
11,700.0	7,630.0	11,517.9	7,405.0	69.5	70.6	-63.38	3,762.0	-871.7	499.9	375.2	124.65	4.010		
11,800.0	7,630.0	11,617.9	7,405.0	71.2	72.3	-63.38	3,862.0	-871.7	499.9	372.2	127.72	3.914		
11,900.0	7,630.0	11,717.9	7,405.0	73.0	74.0	-63.38	3,962.0	-871.7	499.9	369.1	130.80	3.822		
12,000.0	7,630.0	11,817.9	7,405.0	74.7	75.7	-63.38	4,062.0	-871.7	499.9	366.0	133.88	3.734		
12,100.0	7,630.0	11,917.9	7,405.0	76.4	77.4	-63.38	4,162.0	-871.7	499.9	362.9	136.96	3.650		
12,200.0	7,630.0	12,017.9	7,405.0	78.1	79.1	-63.38	4,262.0	-871.7	499.9	359.8	140.05	3.569		
12,300.0	7,630.0	12,117.9	7,405.0	79.8	80.8	-63.38	4,362.0	-871.7	499.9	356.7	143.14	3.492		
12,400.0	7,630.0	12,217.9	7,405.0	81.5	82.5	-63.38	4,462.0	-871.7	499.9	353.7	146.23	3.418		
12,500.0	7,630.0	12,317.9	7,405.0	83.3	84.2	-63.38	4,562.0	-871.7	499.9	350.6	149.32	3.348		
12,600.0	7,630.0	12,417.9	7,405.0	85.0	85.9	-63.38	4,662.0	-871.7	499.9	347.5	152.42	3.280		
12,700.0	7,630.0	12,517.9	7,405.0	86.7	87.6	-63.38	4,762.0	-871.7	499.9	344.4	155.51	3.214		
12,800.0	7,630.0	12,617.9	7,405.0	88.4	89.3	-63.38	4,862.0	-871.7	499.9	341.3	158.61	3.152		
12,900.0	7,630.0	12,717.9	7,405.0	90.2	91.0	-63.38	4,962.0	-871.7	499.9	338.2	161.71	3.091		
13,000.0	7,630.0	12,817.9	7,405.0	91.9	92.7	-63.38	5,062.0	-871.7	499.9	335.1	164.81	3.033		
13,100.0	7,630.0	12,917.9	7,405.0	93.6	94.4	-63.38	5,162.0	-871.7	499.9	332.0	167.91	2.977		
13,200.0	7,630.0	13,017.9	7,405.0	95.4	96.1	-63.38	5,262.0	-871.7	499.9	328.9	171.02	2.923		
13,300.0	7,630.0	13,117.9	7,405.0	97.1	97.9	-63.38	5,362.0	-871.7	499.9	325.8	174.12	2.871		
13,400.0	7,630.0	13,217.9	7,405.0	98.8	99.6	-63.38	5,462.0	-871.7	499.9	322.6	177.23	2.821		
13,500.0	7,630.0	13,317.9	7,405.0	100.5	101.3	-63.38	5,562.0	-871.7	499.9	319.5	180.34	2.772		
13,600.0	7,630.0	13,417.9	7,405.0	102.3	103.0	-63.38	5,662.0	-871.7	499.9	316.4	183.45	2.725		
13,700.0	7,630.0	13,517.9	7,405.0	104.0	104.7	-63.38	5,762.0	-871.7	499.9	313.3	186.56	2.679		
13,800.0	7,630.0	13,617.9	7,405.0	105.8	106.5	-63.38	5,862.0	-871.7	499.9	310.2	189.67	2.636		
13,900.0	7,630.0	13,717.9	7,405.0	107.5	108.2	-63.38	5,962.0	-871.7	499.9	307.1	192.78	2.593		
14,000.0	7,630.0	13,817.9	7,405.0	109.2	109.9	-63.38	6,062.0	-871.7	499.9	304.0	195.89	2.552		
14,100.0	7,630.0	13,917.9	7,405.0	111.0	111.6	-63.38	6,162.0	-871.7	499.9	300.9	199.01	2.512		
14,200.0	7,630.0	14,017.9	7,405.0	112.7	113.4	-63.38	6,262.0	-871.7	499.9	297.8	202.12	2.473		
14,300.0	7,630.0	14,117.9	7,405.0	114.4	115.1	-63.38	6,362.0	-871.7	499.9	294.6	205.24	2.436 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4G-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-9.8	9.8					
100.0	100.0	99.0	99.0	0.1	0.1	-89.95	0.0	-9.8	9.8	9.6	0.24	41.454		
200.0	200.0	199.0	199.0	0.3	0.3	-89.95	0.0	-9.8	9.8	9.2	0.58	16.745		
300.0	300.0	299.0	299.0	0.5	0.5	-89.95	0.0	-9.8	9.8	8.9	0.93	10.485		
400.0	400.0	399.0	399.0	0.6	0.6	-89.95	0.0	-9.8	9.8	8.5	1.28	7.632		
500.0	500.0	499.0	499.0	0.8	0.8	-89.95	0.0	-9.8	9.8	8.2	1.63	5.999		
600.0	600.0	599.0	599.0	1.0	1.0	-89.95	0.0	-9.8	9.8	7.8	1.98	4.942		
700.0	700.0	699.0	699.0	1.2	1.2	-89.95	0.0	-9.8	9.8	7.5	2.33	4.202		
800.0	800.0	799.0	799.0	1.3	1.3	-89.95	0.0	-9.8	9.8	7.1	2.68	3.654 CC, ES		
900.0	900.0	898.7	898.7	1.5	1.5	-95.79	-1.1	-11.1	11.1	8.1	3.03	3.673		
1,000.0	1,000.0	998.3	998.1	1.7	1.7	68.93	-4.5	-14.9	14.9	11.5	3.38	4.412		
1,100.0	1,099.8	1,097.6	1,097.1	1.9	1.9	58.02	-10.3	-21.3	20.2	16.5	3.74	5.409		
1,200.0	1,199.5	1,196.9	1,195.7	2.1	2.1	45.23	-18.2	-30.2	25.4	21.3	4.11	6.193		
1,300.0	1,299.0	1,296.9	1,294.7	2.3	2.4	43.10	-26.9	-40.0	29.0	24.5	4.49	6.447		
1,400.0	1,398.4	1,396.8	1,393.8	2.5	2.6	43.88	-35.6	-49.8	32.3	27.4	4.89	6.597		
1,500.0	1,497.8	1,496.7	1,492.9	2.7	2.9	44.51	-44.3	-59.6	35.6	30.3	5.30	6.716		
1,600.0	1,597.2	1,596.7	1,592.0	2.9	3.1	45.04	-53.0	-69.4	38.9	33.2	5.71	6.810		
1,700.0	1,696.6	1,696.6	1,691.1	3.2	3.4	45.48	-61.7	-79.2	42.2	36.0	6.12	6.886		
1,800.0	1,796.1	1,796.6	1,790.1	3.4	3.7	45.86	-70.5	-89.0	45.5	38.9	6.55	6.948		
1,900.0	1,895.5	1,896.5	1,889.2	3.6	3.9	46.19	-79.2	-98.8	48.8	41.8	6.97	6.998		
2,000.0	1,994.9	1,996.5	1,988.3	3.9	4.2	46.47	-87.9	-108.6	52.1	44.7	7.40	7.040		
2,100.0	2,094.3	2,096.4	2,087.4	4.1	4.5	46.72	-96.6	-118.4	55.4	47.6	7.83	7.075		
2,200.0	2,193.7	2,196.4	2,186.5	4.4	4.8	46.95	-105.3	-128.2	58.7	50.5	8.27	7.105		
2,300.0	2,293.1	2,296.3	2,285.6	4.6	5.0	47.15	-114.0	-137.9	62.1	53.3	8.70	7.130		
2,400.0	2,392.6	2,396.3	2,384.6	4.9	5.3	47.33	-122.7	-147.7	65.4	56.2	9.14	7.151		
2,500.0	2,492.0	2,496.2	2,483.7	5.1	5.6	47.49	-131.4	-157.5	68.7	59.1	9.58	7.169		
2,600.0	2,591.4	2,596.1	2,582.8	5.4	5.9	47.64	-140.2	-167.3	72.0	62.0	10.02	7.185		
2,700.0	2,690.8	2,696.1	2,681.9	5.6	6.2	47.77	-148.9	-177.1	75.3	64.9	10.46	7.199		
2,800.0	2,790.2	2,796.0	2,781.0	5.9	6.4	47.89	-157.6	-186.9	78.6	67.7	10.91	7.211		
2,900.0	2,889.7	2,896.0	2,880.0	6.1	6.7	48.01	-166.3	-196.7	82.0	70.6	11.35	7.221		
3,000.0	2,989.1	2,995.9	2,979.1	6.4	7.0	48.11	-175.0	-206.5	85.3	73.5	11.79	7.230		
3,100.0	3,088.5	3,095.9	3,078.2	6.6	7.3	48.21	-183.7	-216.3	88.6	76.4	12.24	7.238		
3,200.0	3,187.9	3,195.8	3,177.3	6.9	7.6	48.30	-192.4	-226.1	91.9	79.2	12.69	7.245		
3,300.0	3,287.3	3,295.8	3,276.4	7.1	7.9	48.38	-201.1	-235.8	95.2	82.1	13.13	7.252		
3,400.0	3,386.7	3,395.7	3,375.5	7.4	8.1	48.46	-209.8	-245.6	98.5	85.0	13.58	7.258		
3,500.0	3,486.2	3,495.6	3,474.5	7.6	8.4	48.53	-218.6	-255.4	101.9	87.8	14.03	7.263		
3,600.0	3,585.6	3,595.6	3,573.6	7.9	8.7	48.60	-227.3	-265.2	105.2	90.7	14.47	7.267		
3,700.0	3,685.0	3,695.5	3,672.7	8.1	9.0	48.66	-236.0	-275.0	108.5	93.6	14.92	7.271		
3,800.0	3,784.4	3,795.5	3,771.8	8.4	9.3	48.72	-244.7	-284.8	111.8	96.5	15.37	7.275		
3,900.0	3,883.8	3,895.4	3,870.9	8.6	9.6	48.78	-253.4	-294.6	115.1	99.3	15.82	7.278		
4,000.0	3,983.3	3,995.4	3,969.9	8.9	9.9	48.83	-262.1	-304.4	118.5	102.2	16.27	7.281		
4,100.0	4,082.7	4,095.3	4,069.0	9.2	10.1	48.88	-270.8	-314.2	121.8	105.1	16.72	7.284		
4,200.0	4,182.1	4,195.3	4,168.1	9.4	10.4	48.93	-279.5	-324.0	125.1	107.9	17.17	7.286		
4,300.0	4,281.5	4,295.2	4,267.2	9.7	10.7	48.97	-288.2	-333.8	128.4	110.8	17.62	7.289		
4,400.0	4,380.9	4,395.1	4,366.3	9.9	11.0	49.02	-297.0	-343.5	131.8	113.7	18.07	7.291		
4,500.0	4,480.3	4,495.1	4,465.4	10.2	11.3	49.06	-305.7	-353.3	135.1	116.5	18.52	7.292		
4,600.0	4,579.8	4,595.0	4,564.4	10.4	11.6	49.10	-314.4	-363.1	138.4	119.4	18.97	7.294		
4,700.0	4,679.2	4,695.0	4,663.5	10.7	11.9	49.13	-323.1	-372.9	141.7	122.3	19.42	7.296		
4,800.0	4,778.6	4,794.9	4,762.6	10.9	12.2	49.17	-331.8	-382.7	145.0	125.2	19.88	7.297		
4,900.0	4,878.0	4,894.9	4,861.7	11.2	12.4	49.20	-340.5	-392.5	148.4	128.0	20.33	7.298		
5,000.0	4,977.4	4,994.8	4,960.8	11.4	12.7	49.23	-349.2	-402.3	151.7	130.9	20.78	7.300		
5,100.0	5,076.9	5,094.8	5,059.9	11.7	13.0	49.27	-357.9	-412.1	155.0	133.8	21.23	7.301		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4G-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,194.7	5,158.9	12.0	13.3	49.29	-366.6	-421.9	158.3	136.6	21.68	7.302		
5,300.0	5,275.7	5,294.7	5,258.0	12.2	13.6	49.32	-375.4	-431.7	161.6	139.5	22.13	7.303		
5,400.0	5,375.1	5,394.6	5,357.1	12.5	13.9	49.35	-384.1	-441.5	165.0	142.4	22.59	7.303		
5,500.0	5,474.5	5,494.5	5,456.2	12.7	14.2	49.38	-392.8	-451.2	168.3	145.2	23.04	7.304		
5,600.0	5,573.9	5,594.5	5,555.3	13.0	14.4	49.40	-401.5	-461.0	171.6	148.1	23.49	7.305		
5,700.0	5,673.4	5,694.4	5,654.3	13.2	14.7	49.43	-410.2	-470.8	174.9	151.0	23.94	7.306		
5,800.0	5,772.8	5,794.4	5,753.4	13.5	15.0	49.45	-418.9	-480.6	178.2	153.8	24.40	7.306		
5,900.0	5,872.2	5,894.3	5,852.5	13.7	15.3	49.47	-427.6	-490.4	181.6	156.7	24.85	7.307		
6,000.0	5,971.6	5,994.3	5,951.6	14.0	15.6	49.49	-436.3	-500.2	184.9	159.6	25.30	7.307		
6,100.0	6,071.0	6,094.2	6,050.7	14.3	15.9	49.51	-445.0	-510.0	188.2	162.5	25.75	7.308		
6,200.0	6,170.5	6,194.2	6,149.8	14.5	16.2	49.53	-453.8	-519.8	191.5	165.3	26.21	7.308		
6,300.0	6,269.9	6,294.1	6,248.8	14.8	16.5	49.55	-462.5	-529.6	194.9	168.2	26.66	7.309		
6,400.0	6,369.3	6,394.0	6,347.9	15.0	16.7	49.57	-471.2	-539.4	198.2	171.1	27.11	7.309		
6,500.0	6,468.7	6,494.0	6,447.0	15.3	17.0	49.59	-479.9	-549.1	201.5	173.9	27.57	7.309		
6,600.0	6,568.1	6,593.9	6,546.1	15.5	17.3	49.61	-488.6	-558.9	204.8	176.8	28.02	7.310		
6,700.0	6,667.5	6,693.9	6,645.2	15.8	17.6	49.63	-497.3	-568.7	208.1	179.7	28.47	7.310		
6,800.0	6,767.0	6,793.8	6,744.2	16.1	17.9	49.64	-506.0	-578.5	211.5	182.5	28.93	7.310		
6,900.0	6,866.4	6,893.8	6,843.3	16.3	18.2	49.66	-514.7	-588.3	214.8	185.4	29.38	7.311		
7,000.0	6,965.8	6,994.7	6,943.6	16.6	18.4	50.76	-519.4	-598.2	217.9	188.0	29.96	7.273		
7,100.0	7,065.4	7,092.9	7,040.5	16.8	18.5	-8.10	-507.8	-607.8	221.4	190.4	30.95	7.152		
7,200.0	7,164.5	7,187.8	7,131.0	16.8	18.4	-63.02	-480.9	-616.7	226.3	194.8	31.55	7.174		
7,300.0	7,260.5	7,280.1	7,213.6	16.7	18.3	-67.43	-440.8	-624.9	232.4	200.8	31.56	7.363		
7,400.0	7,350.3	7,370.2	7,287.0	16.5	18.1	-66.68	-389.3	-632.1	239.0	208.0	31.00	7.710		
7,500.0	7,431.2	7,458.4	7,350.2	16.2	17.9	-64.94	-328.3	-638.4	245.7	215.7	29.96	8.201		
7,600.0	7,500.8	7,545.0	7,402.6	15.9	17.7	-63.15	-259.5	-643.6	251.8	223.2	28.62	8.801		
7,700.0	7,556.9	7,630.6	7,443.6	15.7	17.6	-61.63	-184.6	-647.6	257.1	229.8	27.25	9.435		
7,800.0	7,597.9	7,715.3	7,472.7	15.6	17.6	-60.49	-105.3	-650.5	261.1	234.9	26.17	9.976		
7,900.0	7,622.5	7,800.0	7,490.0	15.6	17.7	-59.79	-22.4	-652.2	263.6	237.9	25.70	10.254		
8,000.0	7,630.0	7,884.6	7,495.0	15.8	17.8	-59.55	62.0	-652.7	264.4	238.3	26.04	10.152		
8,100.0	7,630.0	7,984.6	7,495.0	16.3	18.2	-59.55	162.0	-652.7	264.4	237.5	26.89	9.834		
8,200.0	7,630.0	8,084.6	7,495.0	16.8	18.7	-59.55	262.0	-652.7	264.4	236.4	28.02	9.436		
8,300.0	7,630.0	8,184.6	7,495.0	17.6	19.4	-59.55	362.0	-652.7	264.4	235.0	29.43	8.985		
8,400.0	7,630.0	8,284.6	7,495.0	18.4	20.2	-59.55	462.0	-652.7	264.4	233.3	31.06	8.511		
8,500.0	7,630.0	8,384.6	7,495.0	19.4	21.1	-59.55	562.0	-652.7	264.4	231.5	32.90	8.036		
8,600.0	7,630.0	8,484.6	7,495.0	20.5	22.1	-59.55	662.0	-652.7	264.4	229.5	34.90	7.575		
8,700.0	7,630.0	8,584.6	7,495.0	21.7	23.2	-59.55	762.0	-652.7	264.4	227.3	37.05	7.137		
8,800.0	7,630.0	8,684.6	7,495.0	23.0	24.4	-59.55	862.0	-652.7	264.4	225.1	39.31	6.727		
8,900.0	7,630.0	8,784.6	7,495.0	24.3	25.6	-59.55	962.0	-652.7	264.4	222.7	41.66	6.346		
9,000.0	7,630.0	8,884.6	7,495.0	25.7	26.9	-59.55	1,062.0	-652.7	264.4	220.3	44.10	5.995		
9,100.0	7,630.0	8,984.6	7,495.0	27.1	28.3	-59.55	1,162.0	-652.7	264.4	217.8	46.61	5.672		
9,200.0	7,630.0	9,084.6	7,495.0	28.5	29.6	-59.55	1,262.0	-652.7	264.4	215.2	49.18	5.376		
9,300.0	7,630.0	9,184.6	7,495.0	30.0	31.1	-59.55	1,362.0	-652.7	264.4	212.6	51.80	5.104		
9,400.0	7,630.0	9,284.6	7,495.0	31.5	32.5	-59.55	1,462.0	-652.7	264.4	209.9	54.46	4.855		
9,500.0	7,630.0	9,384.6	7,495.0	33.1	34.0	-59.55	1,562.0	-652.7	264.4	207.2	57.16	4.625		
9,600.0	7,630.0	9,484.6	7,495.0	34.6	35.5	-59.55	1,662.0	-652.7	264.4	204.5	59.89	4.415		
9,700.0	7,630.0	9,584.6	7,495.0	36.2	37.1	-59.55	1,762.0	-652.7	264.4	201.7	62.65	4.220		
9,800.0	7,630.0	9,684.6	7,495.0	37.8	38.6	-59.55	1,862.0	-652.7	264.4	199.0	65.43	4.041		
9,900.0	7,630.0	9,784.6	7,495.0	39.4	40.2	-59.55	1,962.0	-652.7	264.4	196.2	68.23	3.875		
10,000.0	7,630.0	9,884.6	7,495.0	41.0	41.8	-59.55	2,062.0	-652.7	264.4	193.3	71.05	3.721		
10,100.0	7,630.0	9,984.6	7,495.0	42.6	43.4	-59.55	2,162.0	-652.7	264.4	190.5	73.89	3.578		
10,200.0	7,630.0	10,084.6	7,495.0	44.3	45.0	-59.55	2,262.0	-652.7	264.4	187.6	76.75	3.445		
10,300.0	7,630.0	10,184.6	7,495.0	45.9	46.6	-59.55	2,362.0	-652.7	264.4	184.8	79.61	3.321		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4G-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,400.0	7,630.0	10,284.6	7,495.0	47.6	48.2	-59.55	2,462.0	-652.7	264.4	181.9	82.49	3.205		
10,500.0	7,630.0	10,384.6	7,495.0	49.2	49.9	-59.55	2,562.0	-652.7	264.4	179.0	85.38	3.097		
10,600.0	7,630.0	10,484.6	7,495.0	50.9	51.5	-59.55	2,662.0	-652.7	264.4	176.1	88.28	2.995		
10,700.0	7,630.0	10,584.6	7,495.0	52.6	53.2	-59.55	2,762.0	-652.7	264.4	173.2	91.18	2.900		
10,800.0	7,630.0	10,684.6	7,495.0	54.3	54.8	-59.55	2,862.0	-652.7	264.4	170.3	94.10	2.810		
10,900.0	7,630.0	10,784.6	7,495.0	55.9	56.5	-59.55	2,962.0	-652.7	264.4	167.4	97.02	2.725		
11,000.0	7,630.0	10,884.6	7,495.0	57.6	58.2	-59.55	3,062.0	-652.7	264.4	164.4	99.95	2.645		
11,100.0	7,630.0	10,984.6	7,495.0	59.3	59.8	-59.55	3,162.0	-652.7	264.4	161.5	102.88	2.570		
11,200.0	7,630.0	11,084.6	7,495.0	61.0	61.5	-59.55	3,262.0	-652.7	264.4	158.6	105.82	2.499		
11,300.0	7,630.0	11,184.6	7,495.0	62.7	63.2	-59.55	3,362.0	-652.7	264.4	155.6	108.76	2.431		
11,400.0	7,630.0	11,284.6	7,495.0	64.4	64.9	-59.55	3,462.0	-652.7	264.4	152.7	111.71	2.367		
11,500.0	7,630.0	11,384.6	7,495.0	66.1	66.6	-59.55	3,562.0	-652.7	264.4	149.7	114.67	2.306		
11,600.0	7,630.0	11,484.6	7,495.0	67.8	68.3	-59.55	3,662.0	-652.7	264.4	146.8	117.62	2.248		
11,700.0	7,630.0	11,584.6	7,495.0	69.5	70.0	-59.55	3,762.0	-652.7	264.4	143.8	120.58	2.193		
11,800.0	7,630.0	11,684.6	7,495.0	71.2	71.7	-59.55	3,862.0	-652.7	264.4	140.8	123.55	2.140		
11,900.0	7,630.0	11,784.6	7,495.0	73.0	73.4	-59.55	3,962.0	-652.7	264.4	137.9	126.52	2.090		
12,000.0	7,630.0	11,884.6	7,495.0	74.7	75.1	-59.55	4,062.0	-652.7	264.4	134.9	129.49	2.042		
12,100.0	7,630.0	11,984.6	7,495.0	76.4	76.8	-59.55	4,162.0	-652.7	264.4	131.9	132.46	1.996		
12,200.0	7,630.0	12,084.6	7,495.0	78.1	78.5	-59.55	4,262.0	-652.7	264.4	129.0	135.43	1.952		
12,300.0	7,630.0	12,184.6	7,495.0	79.8	80.2	-59.55	4,362.0	-652.7	264.4	126.0	138.41	1.910		
12,400.0	7,630.0	12,284.6	7,495.0	81.5	81.9	-59.55	4,462.0	-652.7	264.4	123.0	141.39	1.870		
12,500.0	7,630.0	12,384.6	7,495.0	83.3	83.6	-59.55	4,562.0	-652.7	264.4	120.0	144.37	1.831		
12,600.0	7,630.0	12,484.6	7,495.0	85.0	85.3	-59.55	4,662.0	-652.7	264.4	117.0	147.36	1.794		
12,700.0	7,630.0	12,584.6	7,495.0	86.7	87.1	-59.55	4,762.0	-652.7	264.4	114.0	150.34	1.759		
12,800.0	7,630.0	12,684.6	7,495.0	88.4	88.8	-59.55	4,862.0	-652.7	264.4	111.1	153.33	1.724		
12,900.0	7,630.0	12,784.6	7,495.0	90.2	90.5	-59.55	4,962.0	-652.7	264.4	108.1	156.32	1.691		
13,000.0	7,630.0	12,884.6	7,495.0	91.9	92.2	-59.55	5,062.0	-652.7	264.4	105.1	159.31	1.660		
13,100.0	7,630.0	12,984.6	7,495.0	93.6	93.9	-59.55	5,162.0	-652.7	264.4	102.1	162.31	1.629		
13,200.0	7,630.0	13,084.6	7,495.0	95.4	95.7	-59.55	5,262.0	-652.7	264.4	99.1	165.30	1.599		
13,300.0	7,630.0	13,184.6	7,495.0	97.1	97.4	-59.55	5,362.0	-652.7	264.4	96.1	168.29	1.571		
13,400.0	7,630.0	13,284.6	7,495.0	98.8	99.1	-59.55	5,462.0	-652.7	264.4	93.1	171.29	1.544		
13,500.0	7,630.0	13,384.6	7,495.0	100.5	100.8	-59.55	5,562.0	-652.7	264.4	90.1	174.29	1.517		
13,600.0	7,630.0	13,484.6	7,495.0	102.3	102.6	-59.55	5,662.0	-652.7	264.4	87.1	177.29	1.491 Level 3		
13,700.0	7,630.0	13,584.6	7,495.0	104.0	104.3	-59.55	5,762.0	-652.7	264.4	84.1	180.29	1.466 Level 3		
13,800.0	7,630.0	13,684.6	7,495.0	105.8	106.0	-59.55	5,862.0	-652.7	264.4	81.1	183.29	1.442 Level 3		
13,900.0	7,630.0	13,784.6	7,495.0	107.5	107.8	-59.55	5,962.0	-652.7	264.4	78.1	186.29	1.419 Level 3		
14,000.0	7,630.0	13,884.6	7,495.0	109.2	109.5	-59.55	6,062.0	-652.7	264.4	75.1	189.29	1.397 Level 3		
14,100.0	7,630.0	13,984.6	7,495.0	111.0	111.2	-59.55	6,162.0	-652.7	264.4	72.1	192.30	1.375 Level 3		
14,200.0	7,630.0	14,084.6	7,495.0	112.7	113.0	-59.55	6,262.0	-652.7	264.4	69.1	195.30	1.354 Level 3		
14,300.0	7,630.0	14,184.6	7,495.0	114.4	114.7	-59.55	6,362.0	-652.7	264.4	66.1	198.31	1.333 Level 3, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	10.1	10.1	9.8	0.24	42.425		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	10.1	10.1	9.5	0.59	17.172		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	10.1	10.1	9.1	0.94	10.765		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	10.1	10.1	8.8	1.28	7.839		
500.0	500.0	500.0	500.0	0.8	0.8	90.05	0.0	10.1	10.1	8.4	1.63	6.164		
600.0	600.0	600.0	600.0	1.0	1.0	90.05	0.0	10.1	10.1	8.1	1.98	5.079		
700.0	700.0	700.0	700.0	1.2	1.2	90.05	0.0	10.1	10.1	7.7	2.33	4.319		
800.0	800.0	800.0	800.0	1.3	1.3	90.05	0.0	10.1	10.1	7.4	2.68	3.756		
900.0	900.0	900.0	900.0	1.5	1.5	90.05	0.0	10.1	10.1	7.0	3.03	3.324 CC, ES		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	-109.35	0.0	10.1	10.5	7.1	3.38	3.111		
1,100.0	1,099.8	1,100.2	1,100.2	1.9	1.9	-136.92	-1.6	9.3	11.9	8.2	3.73	3.196		
1,200.0	1,199.5	1,200.5	1,200.4	2.1	2.0	-155.54	-6.2	6.8	14.3	10.2	4.08	3.507		
1,300.0	1,299.0	1,300.9	1,300.4	2.3	2.2	-156.59	-14.0	2.7	16.6	12.2	4.44	3.737		
1,400.0	1,398.4	1,400.9	1,399.9	2.5	2.5	-152.50	-23.1	-2.0	17.9	13.1	4.82	3.716		
1,500.0	1,497.8	1,500.9	1,499.3	2.7	2.7	-148.99	-32.2	-6.8	19.3	14.1	5.21	3.704		
1,600.0	1,597.2	1,600.9	1,598.8	2.9	2.9	-145.96	-41.2	-11.5	20.8	15.1	5.61	3.696		
1,700.0	1,696.6	1,700.9	1,698.2	3.2	3.1	-143.33	-50.3	-16.3	22.3	16.2	6.03	3.691		
1,800.0	1,796.1	1,800.9	1,797.7	3.4	3.3	-141.04	-59.4	-21.0	23.8	17.3	6.45	3.687		
1,900.0	1,895.5	1,900.9	1,897.1	3.6	3.6	-139.04	-68.5	-25.8	25.4	18.5	6.89	3.684		
2,000.0	1,994.9	2,000.8	1,996.6	3.9	3.8	-137.26	-77.6	-30.6	27.0	19.7	7.33	3.681		
2,100.0	2,094.3	2,100.8	2,096.0	4.1	4.0	-135.69	-86.7	-35.3	28.6	20.8	7.78	3.679		
2,200.0	2,193.7	2,200.8	2,195.5	4.4	4.3	-134.29	-95.7	-40.1	30.3	22.0	8.23	3.676		
2,300.0	2,293.1	2,300.8	2,295.0	4.6	4.5	-133.04	-104.8	-44.8	31.9	23.2	8.69	3.674		
2,400.0	2,392.6	2,400.8	2,394.4	4.9	4.7	-131.91	-113.9	-49.6	33.6	24.5	9.15	3.672		
2,500.0	2,492.0	2,500.8	2,493.9	5.1	5.0	-130.88	-123.0	-54.3	35.3	25.7	9.62	3.669		
2,600.0	2,591.4	2,600.7	2,593.3	5.4	5.2	-129.95	-132.1	-59.1	37.0	26.9	10.09	3.667		
2,700.0	2,690.8	2,700.7	2,692.8	5.6	5.5	-129.11	-141.2	-63.9	38.7	28.1	10.56	3.665		
2,800.0	2,790.2	2,800.7	2,792.2	5.9	5.7	-128.33	-150.2	-68.6	40.4	29.4	11.03	3.664		
2,900.0	2,889.7	2,900.7	2,891.7	6.1	6.0	-127.62	-159.3	-73.4	42.1	30.6	11.51	3.662		
3,000.0	2,989.1	3,000.7	2,991.2	6.4	6.2	-126.96	-168.4	-78.1	43.9	31.9	11.98	3.660		
3,100.0	3,088.5	3,100.7	3,090.6	6.6	6.4	-126.36	-177.5	-82.9	45.6	33.1	12.46	3.659		
3,200.0	3,187.9	3,200.6	3,190.1	6.9	6.7	-125.79	-186.6	-87.6	47.3	34.4	12.94	3.658		
3,300.0	3,287.3	3,300.6	3,289.5	7.1	6.9	-125.27	-195.7	-92.4	49.1	35.7	13.43	3.656		
3,400.0	3,386.7	3,400.6	3,389.0	7.4	7.2	-124.79	-204.7	-97.1	50.8	36.9	13.91	3.655		
3,500.0	3,486.2	3,500.6	3,488.4	7.6	7.4	-124.33	-213.8	-101.9	52.6	38.2	14.39	3.654		
3,600.0	3,585.6	3,600.6	3,587.9	7.9	7.7	-123.91	-222.9	-106.7	54.3	39.5	14.87	3.653		
3,700.0	3,685.0	3,700.6	3,687.4	8.1	7.9	-123.51	-232.0	-111.4	56.1	40.7	15.36	3.652		
3,800.0	3,784.4	3,800.5	3,786.8	8.4	8.2	-123.14	-241.1	-116.2	57.9	42.0	15.85	3.651		
3,900.0	3,883.8	3,900.5	3,886.3	8.6	8.4	-122.78	-250.2	-120.9	59.6	43.3	16.33	3.650		
4,000.0	3,983.3	4,000.5	3,985.7	8.9	8.7	-122.45	-259.2	-125.7	61.4	44.6	16.82	3.649		
4,100.0	4,082.7	4,100.5	4,085.2	9.2	8.9	-122.14	-268.3	-130.4	63.1	45.8	17.31	3.649		
4,200.0	4,182.1	4,200.5	4,184.6	9.4	9.2	-121.84	-277.4	-135.2	64.9	47.1	17.79	3.648		
4,300.0	4,281.5	4,300.5	4,284.1	9.7	9.4	-121.56	-286.5	-140.0	66.7	48.4	18.28	3.647		
4,400.0	4,380.9	4,400.4	4,383.6	9.9	9.7	-121.30	-295.6	-144.7	68.4	49.7	18.77	3.647		
4,500.0	4,480.3	4,500.4	4,483.0	10.2	9.9	-121.04	-304.7	-149.5	70.2	51.0	19.26	3.646		
4,600.0	4,579.8	4,600.4	4,582.5	10.4	10.1	-120.80	-313.7	-154.2	72.0	52.2	19.75	3.646		
4,700.0	4,679.2	4,700.4	4,681.9	10.7	10.4	-120.58	-322.8	-159.0	73.8	53.5	20.24	3.645		
4,800.0	4,778.6	4,800.4	4,781.4	10.9	10.6	-120.36	-331.9	-163.7	75.5	54.8	20.73	3.645		
4,900.0	4,878.0	4,900.4	4,880.8	11.2	10.9	-120.15	-341.0	-168.5	77.3	56.1	21.22	3.644		
5,000.0	4,977.4	5,000.3	4,980.3	11.4	11.1	-119.95	-350.1	-173.3	79.1	57.4	21.71	3.644		
5,100.0	5,076.9	5,100.3	5,079.7	11.7	11.4	-119.76	-359.2	-178.0	80.9	58.7	22.20	3.643		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,200.3	5,179.2	12.0	11.6	-119.58	-368.2	-182.8	82.7	60.0	22.69	3.643		
5,300.0	5,275.7	5,300.3	5,278.7	12.2	11.9	-119.41	-377.3	-187.5	84.4	61.3	23.18	3.642		
5,400.0	5,375.1	5,400.3	5,378.1	12.5	12.1	-119.24	-386.4	-192.3	86.2	62.5	23.67	3.642		
5,500.0	5,474.5	5,500.3	5,477.6	12.7	12.4	-119.08	-395.5	-197.0	88.0	63.8	24.16	3.642		
5,600.0	5,573.9	5,600.3	5,577.0	13.0	12.6	-118.93	-404.6	-201.8	89.8	65.1	24.65	3.641		
5,700.0	5,673.4	5,700.2	5,676.5	13.2	12.9	-118.78	-413.6	-206.6	91.6	66.4	25.15	3.641		
5,800.0	5,772.8	5,800.2	5,775.9	13.5	13.1	-118.64	-422.7	-211.3	93.3	67.7	25.64	3.641		
5,900.0	5,872.2	5,900.2	5,875.4	13.7	13.4	-118.50	-431.8	-216.1	95.1	69.0	26.13	3.641		
6,000.0	5,971.6	6,000.2	5,974.9	14.0	13.6	-118.37	-440.9	-220.8	96.9	70.3	26.62	3.640		
6,100.0	6,071.0	6,100.2	6,074.3	14.3	13.9	-118.24	-450.0	-225.6	98.7	71.6	27.11	3.640		
6,200.0	6,170.5	6,200.2	6,173.8	14.5	14.1	-118.12	-459.1	-230.3	100.5	72.9	27.60	3.640		
6,300.0	6,269.9	6,300.1	6,273.2	14.8	14.4	-118.00	-468.1	-235.1	102.3	74.2	28.10	3.640		
6,400.0	6,369.3	6,400.1	6,372.7	15.0	14.6	-117.89	-477.2	-239.9	104.1	75.5	28.59	3.639		
6,500.0	6,468.7	6,500.1	6,472.1	15.3	14.9	-117.78	-486.3	-244.6	105.8	76.8	29.08	3.639		
6,600.0	6,568.1	6,600.1	6,571.6	15.5	15.1	-117.67	-495.4	-249.4	107.6	78.0	29.57	3.639		
6,700.0	6,667.5	6,700.1	6,671.1	15.8	15.4	-117.57	-504.5	-254.1	109.4	79.3	30.07	3.639		
6,800.0	6,767.0	6,800.1	6,770.5	16.1	15.6	-117.47	-513.6	-258.9	111.2	80.6	30.56	3.639		
6,900.0	6,866.4	6,902.1	6,872.3	16.3	15.8	-121.11	-515.4	-263.7	112.1	81.5	30.57	3.666		
7,000.0	6,965.8	6,999.1	6,967.9	16.6	15.7	-132.83	-500.5	-267.9	114.1	84.8	29.36	3.887		
7,100.0	7,065.4	7,087.3	7,051.6	16.8	15.6	147.82	-473.1	-271.5	125.5	98.2	27.30	4.598		
7,200.0	7,164.5	7,170.7	7,126.0	16.8	15.3	75.10	-435.7	-274.5	145.2	119.4	25.80	5.630		
7,300.0	7,260.5	7,250.0	7,191.0	16.7	15.1	57.13	-390.5	-277.0	168.3	143.4	24.90	6.759		
7,400.0	7,350.3	7,328.2	7,248.4	16.5	14.8	47.54	-337.4	-279.1	191.5	167.4	24.13	7.939		
7,500.0	7,431.2	7,400.0	7,294.3	16.2	14.6	41.68	-282.3	-280.5	213.1	189.8	23.24	9.170		
7,600.0	7,500.8	7,477.6	7,335.8	15.9	14.4	37.61	-216.8	-281.7	231.7	209.5	22.23	10.423		
7,700.0	7,556.9	7,550.0	7,366.1	15.7	14.3	35.02	-151.2	-282.3	246.8	225.5	21.21	11.632		
7,800.0	7,597.9	7,622.4	7,388.0	15.6	14.2	33.41	-82.2	-282.5	257.8	237.4	20.41	12.630		
7,900.0	7,622.5	7,700.0	7,401.6	15.6	14.3	32.59	-5.9	-282.2	264.6	244.6	20.01	13.220		
8,000.0	7,630.0	7,766.2	7,405.0	15.8	14.5	32.49	60.3	-281.5	266.7	246.6	20.16	13.234		
8,100.0	7,630.0	7,866.2	7,405.0	16.3	14.9	32.71	160.2	-280.3	267.4	246.5	20.91	12.790		
8,200.0	7,630.0	7,966.2	7,405.0	16.8	15.6	32.93	260.2	-279.1	268.1	246.3	21.80	12.296		
8,300.0	7,630.0	8,066.2	7,405.0	17.6	16.3	33.15	360.2	-277.9	268.7	245.9	22.84	11.768		
8,400.0	7,630.0	8,166.2	7,405.0	18.4	17.3	33.36	460.2	-276.6	269.4	245.4	24.00	11.227		
8,500.0	7,630.0	8,266.2	7,405.0	19.4	18.3	33.58	560.2	-275.4	270.1	244.8	25.27	10.687		
8,600.0	7,630.0	8,366.2	7,405.0	20.5	19.5	33.80	660.2	-274.2	270.8	244.1	26.65	10.159		
8,700.0	7,630.0	8,466.2	7,405.0	21.7	20.7	34.01	760.1	-273.0	271.4	243.3	28.12	9.652		
8,800.0	7,630.0	8,566.2	7,405.0	23.0	22.0	34.22	860.1	-271.7	272.1	242.4	29.68	9.170		
8,900.0	7,630.0	8,666.2	7,405.0	24.3	23.4	34.44	960.1	-270.5	272.8	241.5	31.30	8.715		
9,000.0	7,630.0	8,766.2	7,405.0	25.7	24.8	34.65	1,060.1	-269.3	273.5	240.5	33.00	8.289		
9,100.0	7,630.0	8,866.2	7,405.0	27.1	26.2	34.86	1,160.1	-268.1	274.2	239.4	34.75	7.890		
9,200.0	7,630.0	8,966.1	7,405.0	28.5	27.7	35.07	1,260.1	-266.9	274.9	238.3	36.56	7.519		
9,300.0	7,630.0	9,066.1	7,405.0	30.0	29.2	35.27	1,360.1	-265.6	275.6	237.2	38.42	7.173		
9,400.0	7,630.0	9,166.1	7,405.0	31.5	30.8	35.48	1,460.0	-264.4	276.3	236.0	40.33	6.851		
9,500.0	7,630.0	9,266.1	7,405.0	33.1	32.3	35.69	1,560.0	-263.2	277.0	234.7	42.28	6.552		
9,600.0	7,630.0	9,366.1	7,405.0	34.6	33.9	35.89	1,660.0	-262.0	277.7	233.5	44.27	6.273		
9,700.0	7,630.0	9,466.1	7,405.0	36.2	35.5	36.09	1,760.0	-260.7	278.5	232.2	46.30	6.014		
9,800.0	7,630.0	9,566.1	7,405.0	37.8	37.1	36.30	1,860.0	-259.5	279.2	230.8	48.36	5.772		
9,900.0	7,630.0	9,666.1	7,405.0	39.4	38.8	36.50	1,960.0	-258.3	279.9	229.4	50.46	5.547		
10,000.0	7,630.0	9,766.1	7,405.0	41.0	40.4	36.70	2,060.0	-257.1	280.6	228.0	52.59	5.336		
10,100.0	7,630.0	9,866.1	7,405.0	42.6	42.0	36.90	2,159.9	-255.9	281.4	226.6	54.75	5.139		
10,200.0	7,630.0	9,966.1	7,405.0	44.3	43.7	37.10	2,259.9	-254.6	282.1	225.2	56.93	4.955		
10,300.0	7,630.0	10,066.1	7,405.0	45.9	45.3	37.29	2,359.9	-253.4	282.8	223.7	59.14	4.782		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,630.0	10,166.1	7,405.0	47.6	47.0	37.49	2,459.9	-252.2	283.6	222.2	61.38	4.620		
10,500.0	7,630.0	10,266.0	7,405.0	49.2	48.7	37.69	2,559.9	-251.0	284.3	220.7	63.65	4.467		
10,600.0	7,630.0	10,366.0	7,405.0	50.9	50.4	37.88	2,659.9	-249.8	285.1	219.1	65.94	4.324		
10,700.0	7,630.0	10,466.0	7,405.0	52.6	52.1	38.07	2,759.9	-248.5	285.8	217.6	68.25	4.188		
10,800.0	7,630.0	10,566.0	7,405.0	54.3	53.7	38.27	2,859.8	-247.3	286.6	216.0	70.58	4.060		
10,900.0	7,630.0	10,666.0	7,405.0	55.9	55.4	38.46	2,959.8	-246.1	287.3	214.4	72.94	3.940		
11,000.0	7,630.0	10,766.0	7,405.0	57.6	57.1	38.65	3,059.8	-244.9	288.1	212.8	75.31	3.825		
11,100.0	7,630.0	10,866.0	7,405.0	59.3	58.8	38.84	3,159.8	-243.6	288.9	211.2	77.71	3.717		
11,200.0	7,630.0	10,966.0	7,405.0	61.0	60.5	39.02	3,259.8	-242.4	289.6	209.5	80.13	3.615		
11,300.0	7,630.0	11,066.0	7,405.0	62.7	62.2	39.21	3,359.8	-241.2	290.4	207.8	82.56	3.517		
11,400.0	7,630.0	11,166.0	7,405.0	64.4	64.0	39.40	3,459.7	-240.0	291.2	206.2	85.02	3.425		
11,500.0	7,630.0	11,266.0	7,405.0	66.1	65.7	39.58	3,559.7	-238.8	292.0	204.5	87.49	3.337		
11,600.0	7,630.0	11,366.0	7,405.0	67.8	67.4	39.77	3,659.7	-237.5	292.7	202.7	89.98	3.253		
11,700.0	7,630.0	11,466.0	7,405.0	69.5	69.1	39.95	3,759.7	-236.3	293.5	201.0	92.49	3.173		
11,800.0	7,630.0	11,566.0	7,405.0	71.2	70.8	40.13	3,859.7	-235.1	294.3	199.3	95.02	3.097		
11,900.0	7,630.0	11,665.9	7,405.0	73.0	72.5	40.31	3,959.7	-233.9	295.1	197.5	97.56	3.025		
12,000.0	7,630.0	11,765.9	7,405.0	74.7	74.3	40.50	4,059.7	-232.7	295.9	195.8	100.12	2.955		
12,100.0	7,630.0	11,865.9	7,405.0	76.4	76.0	40.67	4,159.6	-231.4	296.7	194.0	102.70	2.889		
12,200.0	7,630.0	11,965.9	7,405.0	78.1	77.7	40.85	4,259.6	-230.2	297.5	192.2	105.29	2.825		
12,300.0	7,630.0	12,065.9	7,405.0	79.8	79.4	41.03	4,359.6	-229.0	298.3	190.4	107.90	2.764		
12,400.0	7,630.0	12,165.9	7,405.0	81.5	81.1	41.21	4,459.6	-227.8	299.1	188.6	110.52	2.706		
12,500.0	7,630.0	12,265.9	7,405.0	83.3	82.9	41.38	4,559.6	-226.5	299.9	186.7	113.16	2.650		
12,600.0	7,630.0	12,365.9	7,405.0	85.0	84.6	41.56	4,659.6	-225.3	300.7	184.9	115.81	2.596		
12,700.0	7,630.0	12,465.9	7,405.0	86.7	86.3	41.73	4,759.6	-224.1	301.5	183.0	118.48	2.545		
12,800.0	7,630.0	12,565.9	7,405.0	88.4	88.1	41.90	4,859.5	-222.9	302.3	181.2	121.16	2.495		
12,900.0	7,630.0	12,665.9	7,405.0	90.2	89.8	42.08	4,959.5	-221.7	303.1	179.3	123.85	2.448		
13,000.0	7,630.0	12,765.9	7,405.0	91.9	91.5	42.25	5,059.5	-220.4	304.0	177.4	126.56	2.402		
13,100.0	7,630.0	12,865.9	7,405.0	93.6	93.3	42.42	5,159.5	-219.2	304.8	175.5	129.29	2.357		
13,200.0	7,630.0	12,965.8	7,405.0	95.4	95.0	42.59	5,259.5	-218.0	305.6	173.6	132.02	2.315		
13,300.0	7,630.0	13,065.8	7,405.0	97.1	96.7	42.75	5,359.5	-216.8	306.4	171.7	134.77	2.274		
13,400.0	7,630.0	13,165.8	7,405.0	98.8	98.5	42.92	5,459.4	-215.6	307.3	169.7	137.53	2.234		
13,500.0	7,630.0	13,265.8	7,405.0	100.5	100.2	43.09	5,559.4	-214.3	308.1	167.8	140.30	2.196		
13,600.0	7,630.0	13,365.8	7,405.0	102.3	101.9	43.25	5,659.4	-213.1	308.9	165.8	143.09	2.159		
13,700.0	7,630.0	13,465.8	7,405.0	104.0	103.7	43.42	5,759.4	-211.9	309.8	163.9	145.89	2.123		
13,800.0	7,630.0	13,565.8	7,405.0	105.8	105.4	43.58	5,859.4	-210.7	310.6	161.9	148.70	2.089		
13,900.0	7,630.0	13,665.8	7,405.0	107.5	107.1	43.74	5,959.4	-209.4	311.5	159.9	151.52	2.056		
14,000.0	7,630.0	13,765.8	7,405.0	109.2	108.9	43.91	6,059.4	-208.2	312.3	157.9	154.35	2.023		
14,100.0	7,630.0	13,865.8	7,405.0	111.0	110.6	44.07	6,159.3	-207.0	313.2	156.0	157.20	1.992		
14,200.0	7,630.0	13,965.8	7,405.0	112.7	112.4	44.23	6,259.3	-205.8	314.0	153.9	160.06	1.962		
14,300.0	7,630.0	14,065.8	7,405.0	114.4	114.1	44.39	6,359.3	-204.6	314.9	151.9	162.92	1.933 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4J-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	20.1	20.2					
100.0	100.0	99.0	99.0	0.1	0.1	90.05	0.0	20.1	20.1	19.9	0.24	85.276		
200.0	200.0	199.0	199.0	0.3	0.3	90.05	0.0	20.1	20.1	19.6	0.58	34.447		
300.0	300.0	299.0	299.0	0.5	0.5	90.05	0.0	20.1	20.1	19.2	0.93	21.569		
400.0	400.0	399.0	399.0	0.6	0.6	90.05	0.0	20.1	20.1	18.9	1.28	15.700		
500.0	500.0	499.0	499.0	0.8	0.8	90.05	0.0	20.1	20.1	18.5	1.63	12.342		
600.0	600.0	599.0	599.0	1.0	1.0	90.05	0.0	20.1	20.1	18.2	1.98	10.167		
700.0	700.0	699.0	699.0	1.2	1.2	90.05	0.0	20.1	20.1	17.8	2.33	8.644		
800.0	800.0	799.0	799.0	1.3	1.3	90.05	0.0	20.1	20.1	17.5	2.68	7.518		
900.0	900.0	899.0	899.0	1.5	1.5	90.05	0.0	20.1	20.1	17.1	3.03	6.651 CC, ES		
1,000.0	1,000.0	999.0	999.0	1.7	1.7	-104.75	0.0	20.1	20.5	17.1	3.38	6.073		
1,100.0	1,099.8	1,098.8	1,098.8	1.9	1.9	-128.53	0.0	20.1	22.6	18.9	3.73	6.073		
1,200.0	1,199.5	1,198.8	1,198.8	2.1	2.0	-148.91	-1.7	20.4	28.5	24.4	4.08	6.977		
1,300.0	1,299.0	1,298.8	1,298.6	2.3	2.2	-151.86	-6.8	21.3	36.4	31.9	4.44	8.192		
1,400.0	1,398.4	1,398.7	1,398.1	2.5	2.4	-147.77	-15.1	22.8	43.8	39.0	4.82	9.080		
1,500.0	1,497.8	1,498.3	1,497.4	2.7	2.6	-144.04	-24.2	24.4	51.3	46.1	5.22	9.820		
1,600.0	1,597.2	1,598.0	1,596.6	2.9	2.8	-141.26	-33.3	26.0	58.9	53.3	5.63	10.462		
1,700.0	1,696.6	1,697.7	1,695.9	3.2	3.0	-139.12	-42.4	27.6	66.7	60.6	6.05	11.019		
1,800.0	1,796.1	1,797.4	1,795.1	3.4	3.2	-137.44	-51.5	29.2	74.5	68.1	6.48	11.503		
1,900.0	1,895.5	1,897.0	1,894.4	3.6	3.5	-136.07	-60.5	30.8	82.4	75.5	6.91	11.924		
2,000.0	1,994.9	1,996.7	1,993.6	3.9	3.7	-134.94	-69.6	32.4	90.3	83.0	7.35	12.294		
2,100.0	2,094.3	2,096.4	2,092.9	4.1	3.9	-133.99	-78.7	34.0	98.3	90.5	7.79	12.620		
2,200.0	2,193.7	2,196.0	2,192.1	4.4	4.1	-133.19	-87.8	35.6	106.3	98.0	8.23	12.908		
2,300.0	2,293.1	2,295.7	2,291.3	4.6	4.3	-132.50	-96.8	37.2	114.2	105.6	8.68	13.165		
2,400.0	2,392.6	2,395.4	2,390.6	4.9	4.6	-131.90	-105.9	38.7	122.2	113.1	9.13	13.395		
2,500.0	2,492.0	2,495.1	2,489.8	5.1	4.8	-131.37	-115.0	40.3	130.3	120.7	9.58	13.602		
2,600.0	2,591.4	2,594.7	2,589.1	5.4	5.0	-130.90	-124.1	41.9	138.3	128.3	10.03	13.789		
2,700.0	2,690.8	2,694.4	2,688.3	5.6	5.2	-130.49	-133.1	43.5	146.3	135.8	10.48	13.959		
2,800.0	2,790.2	2,794.1	2,787.6	5.9	5.5	-130.12	-142.2	45.1	154.4	143.4	10.94	14.113		
2,900.0	2,889.7	2,893.7	2,886.8	6.1	5.7	-129.78	-151.3	46.7	162.4	151.0	11.39	14.255		
3,000.0	2,989.1	2,993.4	2,986.1	6.4	5.9	-129.48	-160.4	48.3	170.5	158.6	11.85	14.385		
3,100.0	3,088.5	3,093.1	3,085.3	6.6	6.2	-129.20	-169.5	49.9	178.5	166.2	12.31	14.504		
3,200.0	3,187.9	3,192.8	3,184.6	6.9	6.4	-128.95	-178.5	51.5	186.6	173.8	12.77	14.614		
3,300.0	3,287.3	3,292.4	3,283.8	7.1	6.6	-128.72	-187.6	53.1	194.6	181.4	13.23	14.716		
3,400.0	3,386.7	3,392.1	3,383.0	7.4	6.9	-128.50	-196.7	54.7	202.7	189.0	13.69	14.811		
3,500.0	3,486.2	3,491.8	3,482.3	7.6	7.1	-128.31	-205.8	56.3	210.8	196.6	14.15	14.899		
3,600.0	3,585.6	3,591.4	3,581.5	7.9	7.3	-128.13	-214.8	57.9	218.8	204.2	14.61	14.982		
3,700.0	3,685.0	3,691.1	3,680.8	8.1	7.6	-127.96	-223.9	59.5	226.9	211.8	15.07	15.058		
3,800.0	3,784.4	3,790.8	3,780.0	8.4	7.8	-127.80	-233.0	61.1	235.0	219.4	15.53	15.130		
3,900.0	3,883.8	3,890.5	3,879.3	8.6	8.0	-127.65	-242.1	62.7	243.1	227.1	15.99	15.198		
4,000.0	3,983.3	3,990.1	3,978.5	8.9	8.3	-127.51	-251.1	64.3	251.1	234.7	16.46	15.262		
4,100.0	4,082.7	4,089.8	4,077.8	9.2	8.5	-127.39	-260.2	65.9	259.2	242.3	16.92	15.322		
4,200.0	4,182.1	4,189.5	4,177.0	9.4	8.7	-127.26	-269.3	67.5	267.3	249.9	17.38	15.378		
4,300.0	4,281.5	4,289.1	4,276.2	9.7	9.0	-127.15	-278.4	69.1	275.4	257.5	17.84	15.431		
4,400.0	4,380.9	4,388.8	4,375.5	9.9	9.2	-127.04	-287.5	70.6	283.5	265.1	18.31	15.482		
4,500.0	4,480.3	4,488.5	4,474.7	10.2	9.4	-126.94	-296.5	72.2	291.5	272.8	18.77	15.530		
4,600.0	4,579.8	4,588.2	4,574.0	10.4	9.7	-126.85	-305.6	73.8	299.6	280.4	19.24	15.575		
4,700.0	4,679.2	4,687.8	4,673.2	10.7	9.9	-126.75	-314.7	75.4	307.7	288.0	19.70	15.619		
4,800.0	4,778.6	4,787.5	4,772.5	10.9	10.1	-126.67	-323.8	77.0	315.8	295.6	20.17	15.660		
4,900.0	4,878.0	4,887.2	4,871.7	11.2	10.4	-126.59	-332.8	78.6	323.9	303.2	20.63	15.699		
5,000.0	4,977.4	4,986.8	4,971.0	11.4	10.6	-126.51	-341.9	80.2	332.0	310.9	21.10	15.736		
5,100.0	5,076.9	5,086.5	5,070.2	11.7	10.8	-126.43	-351.0	81.8	340.0	318.5	21.56	15.772		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4J-26H-P268 - HZ - Plan #1														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
5,200.0	5,176.3	5,186.2	5,169.4	12.0	11.1	-126.36	-360.1	83.4	348.1	326.1	22.03	15.806			
5,300.0	5,275.7	5,285.9	5,268.7	12.2	11.3	-126.29	-369.1	85.0	356.2	333.7	22.49	15.839			
5,400.0	5,375.1	5,385.5	5,367.9	12.5	11.5	-126.23	-378.2	86.6	364.3	341.4	22.96	15.870			
5,500.0	5,474.5	5,485.2	5,467.2	12.7	11.8	-126.17	-387.3	88.2	372.4	349.0	23.42	15.900			
5,600.0	5,573.9	5,584.9	5,566.4	13.0	12.0	-126.11	-396.4	89.8	380.5	356.6	23.89	15.928			
5,700.0	5,673.4	5,684.5	5,665.7	13.2	12.2	-126.05	-405.4	91.4	388.6	364.2	24.35	15.956			
5,800.0	5,772.8	5,784.2	5,764.9	13.5	12.5	-126.00	-414.5	93.0	396.7	371.8	24.82	15.982			
5,900.0	5,872.2	5,883.9	5,864.2	13.7	12.7	-125.94	-423.6	94.6	404.8	379.5	25.29	16.008			
6,000.0	5,971.6	5,983.6	5,963.4	14.0	13.0	-125.89	-432.7	96.2	412.8	387.1	25.75	16.032			
6,100.0	6,071.0	6,083.2	6,062.6	14.3	13.2	-125.85	-441.8	97.8	420.9	394.7	26.22	16.056			
6,200.0	6,170.5	6,182.9	6,161.9	14.5	13.4	-125.80	-450.8	99.4	429.0	402.3	26.68	16.078			
6,300.0	6,269.9	6,282.6	6,261.1	14.8	13.7	-125.75	-459.9	101.0	437.1	410.0	27.15	16.100			
6,400.0	6,369.3	6,382.2	6,360.4	15.0	13.9	-125.71	-469.0	102.5	445.2	417.6	27.62	16.121			
6,500.0	6,468.7	6,481.9	6,459.6	15.3	14.1	-125.67	-478.1	104.1	453.3	425.2	28.08	16.142			
6,600.0	6,568.1	6,581.6	6,558.9	15.5	14.4	-125.63	-487.1	105.7	461.4	432.8	28.55	16.161			
6,700.0	6,667.5	6,681.3	6,658.1	15.8	14.6	-125.59	-496.2	107.3	469.5	440.5	29.02	16.180			
6,800.0	6,767.0	6,780.9	6,757.4	16.1	14.8	-125.55	-505.3	108.9	477.6	448.1	29.48	16.199			
6,900.0	6,866.4	6,880.6	6,856.6	16.3	15.1	-125.52	-514.4	110.5	485.7	455.7	29.95	16.217			
7,000.0	6,965.8	6,981.6	6,957.4	16.6	15.2	-126.26	-516.9	112.1	493.6	463.4	30.27	16.309			
7,100.0	7,065.4	7,078.6	7,053.3	16.8	15.2	167.40	-502.7	113.6	501.9	471.6	30.25	16.593			
7,200.0	7,164.5	7,172.1	7,142.1	16.8	15.0	104.43	-474.0	114.9	510.9	481.0	29.89	17.090			
7,300.0	7,260.5	7,262.7	7,222.7	16.7	14.7	92.68	-432.8	116.0	520.2	490.9	29.33	17.736			
7,400.0	7,350.3	7,350.0	7,293.2	16.5	14.4	86.98	-381.5	116.9	529.5	500.8	28.65	18.478			
7,500.0	7,431.2	7,437.5	7,355.3	16.2	14.1	83.19	-320.0	117.7	538.1	510.1	27.94	19.259			
7,600.0	7,500.8	7,522.4	7,405.9	15.9	13.8	80.47	-251.9	118.3	545.7	518.4	27.30	19.989			
7,700.0	7,556.9	7,606.2	7,445.4	15.7	13.6	78.50	-178.1	118.6	551.9	525.1	26.82	20.578			
7,800.0	7,597.9	7,689.1	7,473.6	15.6	13.5	77.15	-100.2	118.8	556.4	529.8	26.59	20.923			
7,900.0	7,622.5	7,771.5	7,490.1	15.6	13.6	76.38	-19.6	118.8	559.0	532.3	26.69	20.946			
8,000.0	7,630.0	7,855.1	7,495.0	15.8	13.8	76.15	63.9	118.6	559.6	532.5	27.14	20.622			
8,100.0	7,630.0	7,955.1	7,495.0	16.3	14.3	76.14	163.9	118.2	559.3	531.2	28.07	19.923			
8,200.0	7,630.0	8,055.1	7,495.0	16.8	15.0	76.13	263.9	117.9	559.0	529.6	29.35	19.042			
8,300.0	7,630.0	8,155.1	7,495.0	17.6	15.8	76.12	363.9	117.5	558.6	527.7	30.96	18.044			
8,400.0	7,630.0	8,255.1	7,495.0	18.4	16.8	76.11	463.9	117.2	558.3	525.4	32.84	17.000			
8,500.0	7,630.0	8,355.1	7,495.0	19.4	17.9	76.10	563.9	116.8	557.9	523.0	34.95	15.963			
8,600.0	7,630.0	8,455.1	7,495.0	20.5	19.0	76.09	663.9	116.5	557.6	520.3	37.26	14.966			
8,700.0	7,630.0	8,555.1	7,495.0	21.7	20.3	76.09	763.9	116.1	557.3	517.5	39.72	14.030			
8,800.0	7,630.0	8,655.1	7,495.0	23.0	21.7	76.08	863.9	115.8	556.9	514.6	42.31	13.161			
8,900.0	7,630.0	8,755.1	7,495.0	24.3	23.0	76.07	963.9	115.4	556.6	511.6	45.02	12.364			
9,000.0	7,630.0	8,855.1	7,495.0	25.7	24.5	76.06	1,063.9	115.1	556.2	508.4	47.81	11.635			
9,100.0	7,630.0	8,955.1	7,495.0	27.1	26.0	76.05	1,163.9	114.7	555.9	505.2	50.68	10.970			
9,200.0	7,630.0	9,055.1	7,495.0	28.5	27.5	76.04	1,263.9	114.4	555.6	502.0	53.60	10.364			
9,300.0	7,630.0	9,155.1	7,495.0	30.0	29.0	76.03	1,363.9	114.0	555.2	498.6	56.59	9.812			
9,400.0	7,630.0	9,255.1	7,495.0	31.5	30.6	76.03	1,463.9	113.7	554.9	495.3	59.62	9.308			
9,500.0	7,630.0	9,355.1	7,495.0	33.1	32.2	76.02	1,563.9	113.3	554.5	491.9	62.68	8.847			
9,600.0	7,630.0	9,455.1	7,495.0	34.6	33.8	76.01	1,663.9	113.0	554.2	488.4	65.78	8.425			
9,700.0	7,630.0	9,555.1	7,495.0	36.2	35.4	76.00	1,763.9	112.6	553.9	485.0	68.91	8.038			
9,800.0	7,630.0	9,655.1	7,495.0	37.8	37.0	75.99	1,863.9	112.3	553.5	481.5	72.06	7.681			
9,900.0	7,630.0	9,755.1	7,495.0	39.4	38.6	75.98	1,963.9	111.9	553.2	478.0	75.23	7.353			
10,000.0	7,630.0	9,855.1	7,495.0	41.0	40.3	75.97	2,063.9	111.6	552.9	474.4	78.43	7.049			
10,100.0	7,630.0	9,955.1	7,495.0	42.6	41.9	75.96	2,163.9	111.2	552.5	470.9	81.64	6.768			
10,200.0	7,630.0	10,055.1	7,495.0	44.3	43.6	75.96	2,263.9	110.9	552.2	467.3	84.86	6.507			
10,300.0	7,630.0	10,155.1	7,495.0	45.9	45.3	75.95	2,363.9	110.5	551.8	463.7	88.10	6.264			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4J-26H-P268 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,630.0	10,255.1	7,495.0	47.6	46.9	75.94	2,463.9	110.2	551.5	460.1	91.35	6.037		
10,500.0	7,630.0	10,355.1	7,495.0	49.2	48.6	75.93	2,563.9	109.8	551.2	456.6	94.61	5.826		
10,600.0	7,630.0	10,455.1	7,495.0	50.9	50.3	75.92	2,663.9	109.5	550.8	452.9	97.88	5.628		
10,700.0	7,630.0	10,555.1	7,495.0	52.6	52.0	75.91	2,763.9	109.1	550.5	449.3	101.15	5.442		
10,800.0	7,630.0	10,655.1	7,495.0	54.3	53.7	75.90	2,863.9	108.8	550.1	445.7	104.44	5.268		
10,900.0	7,630.0	10,755.1	7,495.0	55.9	55.4	75.89	2,963.9	108.4	549.8	442.1	107.73	5.104		
11,000.0	7,630.0	10,855.1	7,495.0	57.6	57.1	75.88	3,063.9	108.1	549.5	438.4	111.03	4.949		
11,100.0	7,630.0	10,955.1	7,495.0	59.3	58.8	75.88	3,163.9	107.7	549.1	434.8	114.33	4.803		
11,200.0	7,630.0	11,055.1	7,495.0	61.0	60.5	75.87	3,263.9	107.4	548.8	431.1	117.64	4.665		
11,300.0	7,630.0	11,155.1	7,495.0	62.7	62.2	75.86	3,363.9	107.0	548.4	427.5	120.95	4.534		
11,400.0	7,630.0	11,255.1	7,495.0	64.4	63.9	75.85	3,463.9	106.7	548.1	423.8	124.27	4.411		
11,500.0	7,630.0	11,355.1	7,495.0	66.1	65.7	75.84	3,563.9	106.3	547.8	420.2	127.59	4.293		
11,600.0	7,630.0	11,455.1	7,495.0	67.8	67.4	75.83	3,663.9	106.0	547.4	416.5	130.92	4.181		
11,700.0	7,630.0	11,555.1	7,495.0	69.5	69.1	75.82	3,763.9	105.6	547.1	412.8	134.25	4.075		
11,800.0	7,630.0	11,655.1	7,495.0	71.2	70.8	75.81	3,863.9	105.3	546.8	409.2	137.58	3.974		
11,900.0	7,630.0	11,755.1	7,495.0	73.0	72.5	75.80	3,963.9	104.9	546.4	405.5	140.92	3.878		
12,000.0	7,630.0	11,855.1	7,495.0	74.7	74.3	75.80	4,063.9	104.6	546.1	401.8	144.25	3.786		
12,100.0	7,630.0	11,955.1	7,495.0	76.4	76.0	75.79	4,163.9	104.2	545.7	398.1	147.59	3.698		
12,200.0	7,630.0	12,055.1	7,495.0	78.1	77.7	75.78	4,263.8	103.9	545.4	394.5	150.94	3.613		
12,300.0	7,630.0	12,155.1	7,495.0	79.8	79.4	75.77	4,363.8	103.5	545.1	390.8	154.28	3.533		
12,400.0	7,630.0	12,255.1	7,495.0	81.5	81.2	75.76	4,463.8	103.2	544.7	387.1	157.63	3.456		
12,500.0	7,630.0	12,355.1	7,495.0	83.3	82.9	75.75	4,563.8	102.8	544.4	383.4	160.98	3.382		
12,600.0	7,630.0	12,455.1	7,495.0	85.0	84.6	75.74	4,663.8	102.5	544.0	379.7	164.33	3.311		
12,700.0	7,630.0	12,555.1	7,495.0	86.7	86.4	75.73	4,763.8	102.1	543.7	376.0	167.68	3.243		
12,800.0	7,630.0	12,655.1	7,495.0	88.4	88.1	75.72	4,863.8	101.8	543.4	372.3	171.03	3.177		
12,900.0	7,630.0	12,755.1	7,495.0	90.2	89.8	75.71	4,963.8	101.4	543.0	368.6	174.38	3.114		
13,000.0	7,630.0	12,855.1	7,495.0	91.9	91.6	75.70	5,063.8	101.1	542.7	365.0	177.74	3.053		
13,100.0	7,630.0	12,955.1	7,495.0	93.6	93.3	75.70	5,163.8	100.8	542.4	361.3	181.10	2.995		
13,200.0	7,630.0	13,055.1	7,495.0	95.4	95.0	75.69	5,263.8	100.4	542.0	357.6	184.45	2.939		
13,300.0	7,630.0	13,157.5	7,495.0	97.1	96.8	75.68	5,366.2	100.0	541.6	353.8	187.85	2.883		
13,400.0	7,630.0	13,267.6	7,495.0	98.8	98.7	75.62	5,476.3	98.0	539.9	348.6	191.34	2.822		
13,500.0	7,630.0	13,377.5	7,495.0	100.5	100.6	75.52	5,586.1	94.0	536.3	341.6	194.79	2.753		
13,600.0	7,630.0	13,485.2	7,495.0	102.3	102.5	75.36	5,693.7	88.0	531.0	332.8	198.14	2.680		
13,700.0	7,630.0	13,585.0	7,495.0	104.0	104.2	75.19	5,793.3	81.9	525.0	323.6	201.35	2.607		
13,800.0	7,630.0	13,684.8	7,495.0	105.8	106.0	75.01	5,892.9	75.7	519.0	314.5	204.55	2.537		
13,900.0	7,630.0	13,784.6	7,495.0	107.5	107.7	74.83	5,992.5	69.5	513.1	305.3	207.74	2.470		
14,000.0	7,630.0	13,884.5	7,495.0	109.2	109.4	74.65	6,092.2	63.4	507.1	296.2	210.92	2.404		
14,100.0	7,630.0	13,984.3	7,495.0	111.0	111.2	74.46	6,191.8	57.2	501.2	287.1	214.09	2.341		
14,200.0	7,630.0	14,084.1	7,495.0	112.7	112.9	74.27	6,291.4	51.1	495.3	278.0	217.25	2.280		
14,300.0	7,630.0	14,183.9	7,495.0	114.4	114.6	74.08	6,391.0	44.9	489.3	268.9	220.39	2.220 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4K-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	30.2	30.2					
100.0	100.0	99.0	99.0	0.1	0.1	90.05	0.0	30.2	30.2	30.0	0.24	127.914		
200.0	200.0	199.0	199.0	0.3	0.3	90.05	0.0	30.2	30.2	29.6	0.58	51.670		
300.0	300.0	299.0	299.0	0.5	0.5	90.05	0.0	30.2	30.2	29.3	0.93	32.354		
400.0	400.0	399.0	399.0	0.6	0.6	90.05	0.0	30.2	30.2	28.9	1.28	23.550		
500.0	500.0	499.0	499.0	0.8	0.8	90.05	0.0	30.2	30.2	28.6	1.63	18.513		
600.0	600.0	599.0	599.0	1.0	1.0	90.05	0.0	30.2	30.2	28.2	1.98	15.251		
700.0	700.0	699.0	699.0	1.2	1.2	90.05	0.0	30.2	30.2	27.9	2.33	12.966		
800.0	800.0	799.0	799.0	1.3	1.3	90.05	0.0	30.2	30.2	27.5	2.68	11.276		
900.0	900.0	899.0	899.0	1.5	1.5	90.05	0.0	30.2	30.2	27.2	3.03	9.977 CC		
1,000.0	1,000.0	999.0	999.0	1.7	1.7	-103.17	0.0	30.2	30.6	27.2	3.38	9.047 ES		
1,100.0	1,099.8	1,098.6	1,098.6	1.9	1.9	-120.33	-1.6	30.8	32.7	29.0	3.73	8.769		
1,200.0	1,199.5	1,198.2	1,198.0	2.1	2.0	-134.72	-6.4	32.7	38.7	34.6	4.09	9.463		
1,300.0	1,299.0	1,297.6	1,297.1	2.3	2.2	-136.17	-14.3	35.7	48.0	43.5	4.48	10.725		
1,400.0	1,398.4	1,397.1	1,396.1	2.5	2.4	-134.46	-23.0	39.0	57.7	52.8	4.87	11.841		
1,500.0	1,497.8	1,496.6	1,495.2	2.7	2.6	-133.24	-31.7	42.4	67.5	62.2	5.28	12.771		
1,600.0	1,597.2	1,596.1	1,594.3	2.9	2.9	-132.33	-40.4	45.7	77.2	71.5	5.70	13.553		
1,700.0	1,696.6	1,695.6	1,693.4	3.2	3.1	-131.62	-49.1	49.1	87.0	80.9	6.12	14.215		
1,800.0	1,796.1	1,795.1	1,792.4	3.4	3.3	-131.06	-57.8	52.4	96.8	90.3	6.55	14.782		
1,900.0	1,895.5	1,894.7	1,891.5	3.6	3.5	-130.60	-66.5	55.8	106.6	99.6	6.98	15.271		
2,000.0	1,994.9	1,994.2	1,990.6	3.9	3.7	-130.22	-75.2	59.1	116.4	109.0	7.42	15.696		
2,100.0	2,094.3	2,093.7	2,089.7	4.1	4.0	-129.90	-83.9	62.5	126.2	118.4	7.86	16.069		
2,200.0	2,193.7	2,193.2	2,188.7	4.4	4.2	-129.62	-92.6	65.8	136.1	127.8	8.30	16.398		
2,300.0	2,293.1	2,292.7	2,287.8	4.6	4.4	-129.39	-101.3	69.1	145.9	137.1	8.74	16.690		
2,400.0	2,392.6	2,392.2	2,386.9	4.9	4.6	-129.18	-110.1	72.5	155.7	146.5	9.19	16.951		
2,500.0	2,492.0	2,491.8	2,486.0	5.1	4.9	-128.99	-118.8	75.8	165.5	155.9	9.63	17.186		
2,600.0	2,591.4	2,591.3	2,585.1	5.4	5.1	-128.83	-127.5	79.2	175.4	165.3	10.08	17.397		
2,700.0	2,690.8	2,690.8	2,684.1	5.6	5.3	-128.68	-136.2	82.5	185.2	174.7	10.53	17.589		
2,800.0	2,790.2	2,790.3	2,783.2	5.9	5.6	-128.55	-144.9	85.9	195.0	184.0	10.98	17.763		
2,900.0	2,889.7	2,889.8	2,882.3	6.1	5.8	-128.43	-153.6	89.2	204.8	193.4	11.43	17.923		
3,000.0	2,989.1	2,989.3	2,981.4	6.4	6.0	-128.33	-162.3	92.5	214.7	202.8	11.88	18.069		
3,100.0	3,088.5	3,088.8	3,080.4	6.6	6.3	-128.23	-171.0	95.9	224.5	212.2	12.33	18.203		
3,200.0	3,187.9	3,188.4	3,179.5	6.9	6.5	-128.14	-179.7	99.2	234.3	221.6	12.79	18.327		
3,300.0	3,287.3	3,287.9	3,278.6	7.1	6.7	-128.06	-188.4	102.6	244.2	230.9	13.24	18.442		
3,400.0	3,386.7	3,387.4	3,377.7	7.4	7.0	-127.98	-197.1	105.9	254.0	240.3	13.69	18.549		
3,500.0	3,486.2	3,486.9	3,476.7	7.6	7.2	-127.91	-205.8	109.3	263.8	249.7	14.15	18.648		
3,600.0	3,585.6	3,586.4	3,575.8	7.9	7.4	-127.84	-214.5	112.6	273.7	259.1	14.60	18.740		
3,700.0	3,685.0	3,685.9	3,674.9	8.1	7.7	-127.78	-223.2	116.0	283.5	268.4	15.06	18.827		
3,800.0	3,784.4	3,785.4	3,774.0	8.4	7.9	-127.72	-231.9	119.3	293.3	277.8	15.51	18.908		
3,900.0	3,883.8	3,885.0	3,873.1	8.6	8.1	-127.67	-240.6	122.6	303.2	287.2	15.97	18.984		
4,000.0	3,983.3	3,984.5	3,972.1	8.9	8.4	-127.62	-249.3	126.0	313.0	296.6	16.43	19.055		
4,100.0	4,082.7	4,084.0	4,071.2	9.2	8.6	-127.57	-258.0	129.3	322.8	306.0	16.88	19.123		
4,200.0	4,182.1	4,183.5	4,170.3	9.4	8.8	-127.53	-266.7	132.7	332.7	315.3	17.34	19.186		
4,300.0	4,281.5	4,283.0	4,269.4	9.7	9.1	-127.49	-275.4	136.0	342.5	324.7	17.80	19.246		
4,400.0	4,380.9	4,382.5	4,368.4	9.9	9.3	-127.45	-284.1	139.4	352.4	334.1	18.25	19.303		
4,500.0	4,480.3	4,482.0	4,467.5	10.2	9.5	-127.41	-292.8	142.7	362.2	343.5	18.71	19.357		
4,600.0	4,579.8	4,581.6	4,566.6	10.4	9.8	-127.38	-301.6	146.1	372.0	352.9	19.17	19.408		
4,700.0	4,679.2	4,681.1	4,665.7	10.7	10.0	-127.34	-310.3	149.4	381.9	362.2	19.63	19.456		
4,800.0	4,778.6	4,780.6	4,764.7	10.9	10.3	-127.31	-319.0	152.7	391.7	371.6	20.08	19.503		
4,900.0	4,878.0	4,880.1	4,863.8	11.2	10.5	-127.28	-327.7	156.1	401.5	381.0	20.54	19.547		
5,000.0	4,977.4	4,979.6	4,962.9	11.4	10.7	-127.25	-336.4	159.4	411.4	390.4	21.00	19.589		
5,100.0	5,076.9	5,079.1	5,062.0	11.7	11.0	-127.23	-345.1	162.8	421.2	399.7	21.46	19.629		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4K-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,178.7	5,161.1	12.0	11.2	-127.20	-353.8	166.1	431.0	409.1	21.92	19.667		
5,300.0	5,275.7	5,278.2	5,260.1	12.2	11.4	-127.18	-362.5	169.5	440.9	418.5	22.38	19.703		
5,400.0	5,375.1	5,377.7	5,359.2	12.5	11.7	-127.15	-371.2	172.8	450.7	427.9	22.83	19.739		
5,500.0	5,474.5	5,477.2	5,458.3	12.7	11.9	-127.13	-379.9	176.2	460.5	437.3	23.29	19.772		
5,600.0	5,573.9	5,576.7	5,557.4	13.0	12.1	-127.11	-388.6	179.5	470.4	446.6	23.75	19.804		
5,700.0	5,673.4	5,676.2	5,656.4	13.2	12.4	-127.09	-397.3	182.8	480.2	456.0	24.21	19.835		
5,800.0	5,772.8	5,775.7	5,755.5	13.5	12.6	-127.07	-406.0	186.2	490.1	465.4	24.67	19.865		
5,900.0	5,872.2	5,875.3	5,854.6	13.7	12.9	-127.05	-414.7	189.5	499.9	474.8	25.13	19.894		
6,000.0	5,971.6	5,974.8	5,953.7	14.0	13.1	-127.03	-423.4	192.9	509.7	484.1	25.59	19.921		
6,100.0	6,071.0	6,074.3	6,052.7	14.3	13.3	-127.01	-432.1	196.2	519.6	493.5	26.05	19.948		
6,200.0	6,170.5	6,173.8	6,151.8	14.5	13.6	-126.99	-440.8	199.6	529.4	502.9	26.51	19.973		
6,300.0	6,269.9	6,273.3	6,250.9	14.8	13.8	-126.98	-449.5	202.9	539.2	512.3	26.97	19.998		
6,400.0	6,369.3	6,372.8	6,350.0	15.0	14.0	-126.96	-458.2	206.3	549.1	521.7	27.42	20.021		
6,500.0	6,468.7	6,472.3	6,449.1	15.3	14.3	-126.94	-466.9	209.6	558.9	531.0	27.88	20.044		
6,600.0	6,568.1	6,571.9	6,548.1	15.5	14.5	-126.93	-475.6	212.9	568.8	540.4	28.34	20.066		
6,700.0	6,667.5	6,671.4	6,647.2	15.8	14.8	-126.92	-484.3	216.3	578.6	549.8	28.80	20.088		
6,800.0	6,767.0	6,770.9	6,746.3	16.1	15.0	-126.90	-493.0	219.6	588.4	559.2	29.26	20.108		
6,900.0	6,866.4	6,870.4	6,845.4	16.3	15.2	-126.89	-501.8	223.0	598.3	568.5	29.72	20.128		
7,000.0	6,965.8	6,969.9	6,944.4	16.6	15.5	-126.88	-510.5	226.3	608.1	577.9	30.18	20.148		
7,100.0	7,065.4	7,069.4	7,043.5	16.8	15.7	169.14	-518.0	229.7	618.0	587.4	30.55	20.229		
7,200.0	7,164.5	7,169.1	7,142.9	16.8	15.7	108.63	-511.7	233.0	627.8	597.2	30.56	20.544		
7,300.0	7,260.5	7,269.6	7,240.4	16.7	15.6	99.12	-488.1	236.3	637.3	607.0	30.26	21.064		
7,400.0	7,350.3	7,370.8	7,332.8	16.5	15.4	95.37	-447.5	239.4	646.2	616.5	29.71	21.754		
7,500.0	7,431.2	7,472.7	7,417.3	16.2	15.0	93.30	-390.8	242.3	654.3	625.3	29.01	22.555		
7,600.0	7,500.8	7,575.3	7,490.9	15.9	14.7	91.97	-319.5	244.8	661.3	633.0	28.29	23.372		
7,700.0	7,556.9	7,678.6	7,550.9	15.7	14.4	91.08	-235.7	246.8	666.9	639.2	27.70	24.074		
7,800.0	7,597.9	7,782.3	7,595.2	15.6	14.2	90.50	-142.0	248.3	671.0	643.6	27.38	24.507		
7,900.0	7,622.5	7,886.5	7,621.9	15.6	14.2	90.18	-41.5	249.2	673.5	646.0	27.45	24.539		
8,000.0	7,630.0	7,990.4	7,630.0	15.8	14.5	90.08	62.0	249.5	674.2	646.3	27.95	24.126		
8,100.0	7,630.0	8,090.4	7,630.0	16.3	14.9	90.08	162.0	249.5	674.2	645.4	28.88	23.349		
8,200.0	7,630.0	8,190.4	7,630.0	16.8	15.6	90.08	262.0	249.5	674.2	644.1	30.18	22.341		
8,300.0	7,630.0	8,290.4	7,630.0	17.6	16.4	90.08	362.0	249.5	674.2	642.4	31.82	21.191		
8,400.0	7,630.0	8,390.4	7,630.0	18.4	17.3	90.08	462.0	249.5	674.2	640.5	33.74	19.983		
8,500.0	7,630.0	8,490.4	7,630.0	19.4	18.4	90.08	562.0	249.5	674.2	638.3	35.91	18.778		
8,600.0	7,630.0	8,590.4	7,630.0	20.5	19.5	90.08	662.0	249.5	674.2	636.0	38.27	17.618		
8,700.0	7,630.0	8,690.4	7,630.0	21.7	20.8	90.08	762.0	249.5	674.2	633.4	40.80	16.526		
8,800.0	7,630.0	8,790.4	7,630.0	23.0	22.1	90.08	862.0	249.5	674.2	630.8	43.47	15.512		
8,900.0	7,630.0	8,890.4	7,630.0	24.3	23.4	90.08	962.0	249.5	674.2	628.0	46.24	14.580		
9,000.0	7,630.0	8,990.4	7,630.0	25.7	24.8	90.08	1,062.0	249.5	674.2	625.1	49.12	13.728		
9,100.0	7,630.0	9,090.4	7,630.0	27.1	26.3	90.08	1,162.0	249.5	674.2	622.2	52.07	12.950		
9,200.0	7,630.0	9,190.4	7,630.0	28.5	27.8	90.08	1,262.0	249.5	674.2	619.2	55.08	12.241		
9,300.0	7,630.0	9,290.4	7,630.0	30.0	29.3	90.08	1,362.0	249.5	674.2	616.1	58.15	11.595		
9,400.0	7,630.0	9,390.4	7,630.0	31.5	30.9	90.08	1,462.0	249.5	674.2	613.0	61.27	11.005		
9,500.0	7,630.0	9,490.4	7,630.0	33.1	32.4	90.08	1,562.0	249.5	674.2	609.8	64.43	10.465		
9,600.0	7,630.0	9,590.4	7,630.0	34.6	34.0	90.08	1,662.0	249.5	674.2	606.6	67.62	9.971		
9,700.0	7,630.0	9,690.4	7,630.0	36.2	35.6	90.08	1,762.0	249.5	674.2	603.4	70.84	9.518		
9,800.0	7,630.0	9,790.4	7,630.0	37.8	37.2	90.08	1,862.0	249.5	674.2	600.2	74.09	9.100		
9,900.0	7,630.0	9,890.4	7,630.0	39.4	38.9	90.08	1,962.0	249.5	674.2	596.9	77.36	8.716		
10,000.0	7,630.0	9,990.4	7,630.0	41.0	40.5	90.08	2,062.0	249.5	674.2	593.6	80.65	8.360		
10,100.0	7,630.0	10,090.4	7,630.0	42.6	42.1	90.08	2,162.0	249.5	674.2	590.3	83.96	8.030		
10,200.0	7,630.0	10,190.4	7,630.0	44.3	43.8	90.08	2,262.0	249.5	674.2	587.0	87.28	7.725		
10,300.0	7,630.0	10,290.4	7,630.0	45.9	45.5	90.08	2,362.0	249.5	674.2	583.6	90.62	7.440		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4K-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,630.0	10,390.4	7,630.0	47.6	47.1	90.08	2,462.0	249.5	674.2	580.3	93.97	7.175		
10,500.0	7,630.0	10,490.4	7,630.0	49.2	48.8	90.08	2,562.0	249.5	674.2	576.9	97.33	6.927		
10,600.0	7,630.0	10,590.4	7,630.0	50.9	50.5	90.08	2,662.0	249.5	674.2	573.5	100.71	6.695		
10,700.0	7,630.0	10,690.4	7,630.0	52.6	52.2	90.08	2,762.0	249.5	674.2	570.2	104.09	6.478		
10,800.0	7,630.0	10,790.4	7,630.0	54.3	53.9	90.08	2,862.0	249.5	674.2	566.8	107.47	6.273		
10,900.0	7,630.0	10,890.4	7,630.0	55.9	55.6	90.08	2,962.0	249.5	674.2	563.4	110.87	6.081		
11,000.0	7,630.0	10,990.4	7,630.0	57.6	57.3	90.08	3,062.0	249.5	674.2	560.0	114.27	5.900		
11,100.0	7,630.0	11,090.4	7,630.0	59.3	59.0	90.08	3,162.0	249.5	674.2	556.6	117.68	5.729		
11,200.0	7,630.0	11,190.4	7,630.0	61.0	60.7	90.08	3,262.0	249.5	674.2	553.1	121.10	5.568		
11,300.0	7,630.0	11,290.4	7,630.0	62.7	62.4	90.08	3,362.0	249.5	674.2	549.7	124.52	5.415		
11,400.0	7,630.0	11,390.4	7,630.0	64.4	64.1	90.08	3,462.0	249.5	674.2	546.3	127.94	5.270		
11,500.0	7,630.0	11,490.4	7,630.0	66.1	65.8	90.08	3,562.0	249.5	674.2	542.9	131.37	5.132		
11,600.0	7,630.0	11,590.4	7,630.0	67.8	67.5	90.08	3,662.0	249.5	674.2	539.4	134.80	5.002		
11,700.0	7,630.0	11,690.4	7,630.0	69.5	69.2	90.08	3,762.0	249.5	674.2	536.0	138.24	4.877		
11,800.0	7,630.0	11,790.4	7,630.0	71.2	70.9	90.08	3,862.0	249.5	674.2	532.6	141.68	4.759		
11,900.0	7,630.0	11,890.4	7,630.0	73.0	72.7	90.08	3,962.0	249.5	674.2	529.1	145.13	4.646		
12,000.0	7,630.0	11,990.4	7,630.0	74.7	74.4	90.08	4,062.0	249.5	674.2	525.7	148.57	4.538		
12,100.0	7,630.0	12,090.4	7,630.0	76.4	76.1	90.08	4,162.0	249.5	674.2	522.2	152.02	4.435		
12,200.0	7,630.0	12,190.4	7,630.0	78.1	77.8	90.08	4,262.0	249.5	674.2	518.8	155.47	4.337		
12,300.0	7,630.0	12,290.4	7,630.0	79.8	79.5	90.08	4,362.0	249.5	674.2	515.3	158.93	4.242		
12,400.0	7,630.0	12,390.4	7,630.0	81.5	81.3	90.08	4,462.0	249.5	674.2	511.9	162.38	4.152		
12,500.0	7,630.0	12,490.4	7,630.0	83.3	83.0	90.08	4,562.0	249.5	674.2	508.4	165.84	4.066		
12,600.0	7,630.0	12,590.4	7,630.0	85.0	84.7	90.08	4,662.0	249.5	674.2	504.9	169.30	3.982		
12,700.0	7,630.0	12,690.4	7,630.0	86.7	86.5	90.08	4,762.0	249.5	674.2	501.5	172.77	3.903		
12,800.0	7,630.0	12,790.4	7,630.0	88.4	88.2	90.08	4,862.0	249.4	674.2	498.0	176.23	3.826		
12,900.0	7,630.0	12,890.4	7,630.0	90.2	89.9	90.08	4,962.0	249.4	674.2	494.5	179.70	3.752		
13,000.0	7,630.0	12,990.4	7,630.0	91.9	91.7	90.08	5,062.0	249.4	674.2	491.1	183.17	3.681		
13,100.0	7,630.0	13,090.4	7,630.0	93.6	93.4	90.08	5,162.0	249.4	674.2	487.6	186.64	3.613		
13,200.0	7,630.0	13,190.4	7,630.0	95.4	95.1	90.08	5,262.0	249.4	674.2	484.1	190.11	3.547		
13,300.0	7,630.0	13,290.4	7,630.0	97.1	96.9	90.08	5,362.0	249.4	674.2	480.7	193.58	3.483		
13,400.0	7,630.0	13,390.4	7,630.0	98.8	98.6	90.08	5,462.0	249.4	674.2	477.2	197.05	3.422		
13,500.0	7,630.0	13,490.4	7,630.0	100.5	100.3	90.08	5,562.0	249.4	674.2	473.7	200.53	3.362		
13,600.0	7,630.0	13,590.4	7,630.0	102.3	102.1	90.08	5,662.0	249.4	674.2	470.2	204.00	3.305		
13,700.0	7,630.0	13,690.4	7,630.0	104.0	103.8	90.08	5,762.0	249.4	674.2	466.8	207.48	3.250		
13,800.0	7,630.0	13,790.4	7,630.0	105.8	105.5	90.08	5,862.0	249.4	674.2	463.3	210.96	3.196		
13,900.0	7,630.0	13,890.4	7,630.0	107.5	107.3	90.08	5,962.0	249.4	674.2	459.8	214.44	3.144		
14,000.0	7,630.0	13,990.4	7,630.0	109.2	109.0	90.08	6,062.0	249.4	674.2	456.3	217.92	3.094		
14,100.0	7,630.0	14,090.4	7,630.0	111.0	110.8	90.08	6,162.0	249.4	674.2	452.8	221.40	3.045		
14,200.0	7,630.0	14,190.4	7,630.0	112.7	112.5	90.08	6,262.0	249.4	674.2	449.4	224.88	2.998		
14,300.0	7,630.0	14,290.4	7,630.0	114.4	114.2	90.08	6,362.0	249.4	674.2	445.9	228.36	2.952 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.50	-0.3	40.0	40.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.50	-0.3	40.0	40.0	39.8	0.24	169.374		
200.0	200.0	199.0	199.0	0.3	0.3	90.50	-0.3	40.0	40.0	39.4	0.58	68.417		
300.0	300.0	299.0	299.0	0.5	0.5	90.50	-0.3	40.0	40.0	39.1	0.93	42.841		
400.0	400.0	399.0	399.0	0.6	0.6	90.50	-0.3	40.0	40.0	38.7	1.28	31.183		
500.0	500.0	499.0	499.0	0.8	0.8	90.50	-0.3	40.0	40.0	38.4	1.63	24.513		
600.0	600.0	599.0	599.0	1.0	1.0	90.50	-0.3	40.0	40.0	38.0	1.98	20.194		
700.0	700.0	699.0	699.0	1.2	1.2	90.50	-0.3	40.0	40.0	37.7	2.33	17.168		
800.0	800.0	799.0	799.0	1.3	1.3	90.50	-0.3	40.0	40.0	37.3	2.68	14.931		
900.0	900.0	899.0	899.0	1.5	1.5	90.50	-0.3	40.0	40.0	37.0	3.03	13.210 CC		
1,000.0	1,000.0	999.0	999.0	1.7	1.7	-101.94	-0.3	40.0	40.3	36.9	3.38	11.938 ES		
1,100.0	1,099.8	1,098.0	1,098.0	1.9	1.9	-118.21	-1.6	41.2	43.0	39.2	3.73	11.520		
1,200.0	1,199.5	1,196.7	1,196.6	2.1	2.0	-133.38	-5.3	44.6	50.8	46.7	4.09	12.412		
1,300.0	1,299.0	1,294.9	1,294.4	2.3	2.2	-136.45	-11.4	50.4	63.1	58.6	4.46	14.132		
1,400.0	1,398.4	1,392.9	1,391.7	2.5	2.4	-134.69	-19.8	58.4	77.5	72.6	4.86	15.942		
1,500.0	1,497.8	1,491.8	1,489.8	2.7	2.7	-133.08	-28.8	66.9	92.4	87.1	5.27	17.532		
1,600.0	1,597.2	1,590.7	1,587.9	2.9	2.9	-131.92	-37.8	75.4	107.3	101.6	5.69	18.874		
1,700.0	1,696.6	1,689.5	1,686.0	3.2	3.1	-131.05	-46.9	83.9	122.3	116.2	6.11	20.016		
1,800.0	1,796.1	1,788.4	1,784.0	3.4	3.4	-130.36	-55.9	92.4	137.3	130.7	6.54	20.997		
1,900.0	1,895.5	1,887.2	1,882.1	3.6	3.6	-129.81	-64.9	101.0	152.3	145.3	6.97	21.845		
2,000.0	1,994.9	1,986.1	1,980.2	3.9	3.9	-129.36	-73.9	109.5	167.3	159.9	7.41	22.585		
2,100.0	2,094.3	2,084.9	2,078.3	4.1	4.1	-128.98	-83.0	118.0	182.4	174.5	7.85	23.235		
2,200.0	2,193.7	2,183.8	2,176.3	4.4	4.4	-128.66	-92.0	126.5	197.4	189.1	8.29	23.810		
2,300.0	2,293.1	2,282.7	2,274.4	4.6	4.7	-128.39	-101.0	135.0	212.4	203.7	8.73	24.322		
2,400.0	2,392.6	2,381.5	2,372.5	4.9	4.9	-128.15	-110.0	143.6	227.5	218.3	9.18	24.779		
2,500.0	2,492.0	2,480.4	2,470.6	5.1	5.2	-127.94	-119.1	152.1	242.5	232.9	9.63	25.191		
2,600.0	2,591.4	2,579.2	2,568.6	5.4	5.5	-127.76	-128.1	160.6	257.6	247.5	10.08	25.563		
2,700.0	2,690.8	2,678.1	2,666.7	5.6	5.7	-127.59	-137.1	169.1	272.7	262.1	10.53	25.900		
2,800.0	2,790.2	2,776.9	2,764.8	5.9	6.0	-127.45	-146.1	177.7	287.7	276.7	10.98	26.208		
2,900.0	2,889.7	2,875.8	2,862.9	6.1	6.3	-127.32	-155.2	186.2	302.8	291.3	11.43	26.490		
3,000.0	2,989.1	2,974.7	2,960.9	6.4	6.5	-127.20	-164.2	194.7	317.8	306.0	11.88	26.748		
3,100.0	3,088.5	3,073.5	3,059.0	6.6	6.8	-127.09	-173.2	203.2	332.9	320.6	12.34	26.986		
3,200.0	3,187.9	3,172.4	3,157.1	6.9	7.1	-126.99	-182.2	211.7	348.0	335.2	12.79	27.206		
3,300.0	3,287.3	3,271.2	3,255.2	7.1	7.4	-126.90	-191.3	220.3	363.0	349.8	13.24	27.410		
3,400.0	3,386.7	3,370.1	3,353.2	7.4	7.6	-126.81	-200.3	228.8	378.1	364.4	13.70	27.600		
3,500.0	3,486.2	3,468.9	3,451.3	7.6	7.9	-126.74	-209.3	237.3	393.2	379.0	14.15	27.776		
3,600.0	3,585.6	3,567.8	3,549.4	7.9	8.2	-126.66	-218.3	245.8	408.2	393.6	14.61	27.941		
3,700.0	3,685.0	3,666.7	3,647.5	8.1	8.4	-126.60	-227.4	254.4	423.3	408.2	15.07	28.095		
3,800.0	3,784.4	3,765.5	3,745.5	8.4	8.7	-126.54	-236.4	262.9	438.4	422.8	15.52	28.239		
3,900.0	3,883.8	3,864.4	3,843.6	8.6	9.0	-126.48	-245.4	271.4	453.4	437.5	15.98	28.375		
4,000.0	3,983.3	3,963.2	3,941.7	8.9	9.3	-126.42	-254.4	279.9	468.5	452.1	16.44	28.502		
4,100.0	4,082.7	4,062.1	4,039.8	9.2	9.5	-126.37	-263.5	288.4	483.6	466.7	16.89	28.622		
4,200.0	4,182.1	4,160.9	4,137.8	9.4	9.8	-126.33	-272.5	297.0	498.6	481.3	17.35	28.736		
4,300.0	4,281.5	4,259.8	4,235.9	9.7	10.1	-126.28	-281.5	305.5	513.7	495.9	17.81	28.843		
4,400.0	4,380.9	4,358.7	4,334.0	9.9	10.4	-126.24	-290.5	314.0	528.8	510.5	18.27	28.945		
4,500.0	4,480.3	4,457.5	4,432.1	10.2	10.6	-126.20	-299.6	322.5	543.9	525.1	18.73	29.041		
4,600.0	4,579.8	4,556.4	4,530.1	10.4	10.9	-126.16	-308.6	331.1	558.9	539.7	19.19	29.133		
4,700.0	4,679.2	4,655.2	4,628.2	10.7	11.2	-126.12	-317.6	339.6	574.0	554.4	19.64	29.220		
4,800.0	4,778.6	4,754.1	4,726.3	10.9	11.5	-126.09	-326.6	348.1	589.1	569.0	20.10	29.303		
4,900.0	4,878.0	4,852.9	4,824.4	11.2	11.7	-126.06	-335.7	356.6	604.1	583.6	20.56	29.382		
5,000.0	4,977.4	4,951.8	4,922.4	11.4	12.0	-126.03	-344.7	365.1	619.2	598.2	21.02	29.457		
5,100.0	5,076.9	5,050.7	5,020.5	11.7	12.3	-126.00	-353.7	373.7	634.3	612.8	21.48	29.529		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,149.5	5,118.6	12.0	12.6	-125.97	-362.7	382.2	649.4	627.4	21.94	29.598		
5,300.0	5,275.7	5,248.4	5,216.7	12.2	12.8	-125.94	-371.8	390.7	664.4	642.0	22.40	29.664		
5,400.0	5,375.1	5,347.2	5,314.7	12.5	13.1	-125.92	-380.8	399.2	679.5	656.6	22.86	29.727		
5,500.0	5,474.5	5,446.1	5,412.8	12.7	13.4	-125.89	-389.8	407.8	694.6	671.3	23.32	29.787		
5,600.0	5,573.9	5,544.9	5,510.9	13.0	13.7	-125.87	-398.8	416.3	709.7	685.9	23.78	29.845		
5,700.0	5,673.4	5,643.8	5,609.0	13.2	13.9	-125.85	-407.9	424.8	724.7	700.5	24.24	29.901		
5,800.0	5,772.8	5,742.7	5,707.0	13.5	14.2	-125.83	-416.9	433.3	739.8	715.1	24.70	29.954		
5,900.0	5,872.2	5,841.5	5,805.1	13.7	14.5	-125.81	-425.9	441.8	754.9	729.7	25.16	30.006		
6,000.0	5,971.6	5,940.4	5,903.2	14.0	14.8	-125.79	-434.9	450.4	769.9	744.3	25.62	30.055		
6,100.0	6,071.0	6,039.2	6,001.3	14.3	15.0	-125.77	-444.0	458.9	785.0	758.9	26.08	30.103		
6,200.0	6,170.5	6,138.1	6,099.3	14.5	15.3	-125.75	-453.0	467.4	800.1	773.6	26.54	30.149		
6,300.0	6,269.9	6,236.9	6,197.4	14.8	15.6	-125.73	-462.0	475.9	815.2	788.2	27.00	30.194		
6,400.0	6,369.3	6,335.8	6,295.5	15.0	15.9	-125.71	-471.0	484.5	830.2	802.8	27.46	30.236		
6,500.0	6,468.7	6,434.7	6,393.6	15.3	16.2	-125.70	-480.1	493.0	845.3	817.4	27.92	30.278		
6,600.0	6,568.1	6,533.5	6,491.6	15.5	16.4	-125.68	-489.1	501.5	860.4	832.0	28.38	30.318		
6,700.0	6,667.5	6,632.4	6,589.7	15.8	16.7	-125.67	-498.1	510.0	875.5	846.6	28.84	30.356		
6,800.0	6,767.0	6,731.2	6,687.8	16.1	17.0	-125.65	-507.1	518.5	890.5	861.2	29.30	30.394		
6,900.0	6,866.4	6,830.3	6,786.1	16.3	17.3	-125.64	-516.2	527.1	905.6	875.9	29.76	30.431		
7,000.0	6,965.8	6,932.6	6,887.8	16.6	17.4	-126.25	-515.5	535.8	920.5	890.4	30.09	30.588		
7,100.0	7,065.4	7,029.5	6,982.8	16.8	17.4	167.87	-498.2	543.7	935.4	905.2	30.23	30.941		
7,200.0	7,164.5	7,122.4	7,069.8	16.8	17.3	105.11	-466.8	550.7	950.6	920.6	30.07	31.613		
7,300.0	7,260.5	7,212.3	7,148.1	16.7	17.1	93.52	-423.3	556.8	965.6	936.0	29.65	32.563		
7,400.0	7,350.3	7,300.0	7,217.2	16.5	16.9	87.91	-369.6	561.9	979.8	950.8	29.05	33.734		
7,500.0	7,431.2	7,385.1	7,275.6	16.2	16.6	84.22	-307.9	566.1	992.6	964.3	28.34	35.031		
9,600.0	7,630.0	9,398.9	7,405.0	34.6	35.0	77.05	1,675.6	549.5	999.8	933.6	66.19	15.104		
9,700.0	7,630.0	9,498.9	7,405.0	36.2	36.6	77.03	1,775.6	548.1	998.4	929.1	69.34	14.400		
9,800.0	7,630.0	9,598.9	7,405.0	37.8	38.1	77.02	1,875.6	546.7	997.0	924.5	72.50	13.752		
9,900.0	7,630.0	9,698.9	7,405.0	39.4	39.7	77.00	1,975.6	545.3	995.7	920.0	75.69	13.155		
10,000.0	7,630.0	9,798.9	7,405.0	41.0	41.3	76.98	2,075.5	543.9	994.3	915.4	78.89	12.603		
10,100.0	7,630.0	9,898.9	7,405.0	42.6	43.0	76.96	2,175.5	542.5	993.0	910.8	82.11	12.092		
10,200.0	7,630.0	9,998.9	7,405.0	44.3	44.6	76.94	2,275.5	541.1	991.6	906.3	85.35	11.618		
10,300.0	7,630.0	10,098.8	7,405.0	45.9	46.2	76.92	2,375.5	539.7	990.2	901.6	88.60	11.177		
10,400.0	7,630.0	10,198.8	7,405.0	47.6	47.9	76.91	2,475.5	538.3	988.9	897.0	91.86	10.765		
10,500.0	7,630.0	10,298.8	7,405.0	49.2	49.5	76.89	2,575.4	536.9	987.5	892.4	95.13	10.381		
10,600.0	7,630.0	10,398.8	7,405.0	50.9	51.2	76.87	2,675.4	535.5	986.2	887.8	98.41	10.021		
10,700.0	7,630.0	10,498.8	7,405.0	52.6	52.9	76.85	2,775.4	534.1	984.8	883.1	101.70	9.684		
10,800.0	7,630.0	10,598.8	7,405.0	54.3	54.5	76.83	2,875.4	532.7	983.4	878.4	104.99	9.367		
10,900.0	7,630.0	10,698.8	7,405.0	55.9	56.2	76.81	2,975.4	531.3	982.1	873.8	108.29	9.069		
11,000.0	7,630.0	10,798.8	7,405.0	57.6	57.9	76.80	3,075.3	529.9	980.7	869.1	111.60	8.788		
11,100.0	7,630.0	10,898.8	7,405.0	59.3	59.6	76.78	3,175.3	528.5	979.4	864.4	114.91	8.523		
11,200.0	7,630.0	10,998.8	7,405.0	61.0	61.3	76.76	3,275.3	527.1	978.0	859.8	118.23	8.272		
11,300.0	7,630.0	11,098.7	7,405.0	62.7	62.9	76.74	3,375.3	525.7	976.6	855.1	121.55	8.035		
11,400.0	7,630.0	11,198.7	7,405.0	64.4	64.6	76.72	3,475.3	524.3	975.3	850.4	124.88	7.810		
11,500.0	7,630.0	11,298.7	7,405.0	66.1	66.3	76.70	3,575.2	522.9	973.9	845.7	128.21	7.596		
11,600.0	7,630.0	11,398.7	7,405.0	67.8	68.0	76.68	3,675.2	521.5	972.6	841.0	131.54	7.393		
11,700.0	7,630.0	11,498.7	7,405.0	69.5	69.7	76.66	3,775.2	520.1	971.2	836.3	134.88	7.201		
11,800.0	7,630.0	11,598.7	7,405.0	71.2	71.5	76.64	3,875.2	518.7	969.8	831.6	138.22	7.017		
11,900.0	7,630.0	11,698.7	7,405.0	73.0	73.2	76.63	3,975.2	517.4	968.5	826.9	141.56	6.842		
12,000.0	7,630.0	11,798.7	7,405.0	74.7	74.9	76.61	4,075.1	516.0	967.1	822.2	144.90	6.674		
12,100.0	7,630.0	11,898.7	7,405.0	76.4	76.6	76.59	4,175.1	514.6	965.8	817.5	148.25	6.514		
12,200.0	7,630.0	11,998.7	7,405.0	78.1	78.3	76.57	4,275.1	513.2	964.4	812.8	151.60	6.362		
12,300.0	7,630.0	12,098.6	7,405.0	79.8	80.0	76.55	4,375.1	511.8	963.1	808.1	154.95	6.215		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
12,400.0	7,630.0	12,198.6	7,405.0	81.5	81.7	76.53	4,475.1	510.4	961.7	803.4	158.30	6.075		
12,500.0	7,630.0	12,298.6	7,405.0	83.3	83.5	76.51	4,575.0	509.0	960.3	798.7	161.65	5.941		
12,600.0	7,630.0	12,398.6	7,405.0	85.0	85.2	76.49	4,675.0	507.6	959.0	794.0	165.01	5.812		
12,700.0	7,630.0	12,498.6	7,405.0	86.7	86.9	76.47	4,775.0	506.2	957.6	789.3	168.36	5.688		
12,800.0	7,630.0	12,598.6	7,405.0	88.4	88.6	76.45	4,875.0	504.8	956.3	784.5	171.72	5.569		
12,900.0	7,630.0	12,698.6	7,405.0	90.2	90.3	76.43	4,975.0	503.4	954.9	779.8	175.08	5.454		
13,000.0	7,630.0	12,798.6	7,405.0	91.9	92.1	76.41	5,074.9	502.0	953.6	775.1	178.44	5.344		
13,100.0	7,630.0	12,898.6	7,405.0	93.6	93.8	76.39	5,174.9	500.6	952.2	770.4	181.79	5.238		
13,200.0	7,630.0	12,998.6	7,405.0	95.4	95.5	76.37	5,274.9	499.2	950.8	765.7	185.15	5.135		
13,300.0	7,630.0	13,098.6	7,405.0	97.1	97.3	76.35	5,374.9	497.8	949.5	761.0	188.52	5.037		
13,400.0	7,630.0	13,198.5	7,405.0	98.8	99.0	76.33	5,474.9	496.4	948.1	756.2	191.88	4.941		
13,500.0	7,630.0	13,298.5	7,405.0	100.5	100.7	76.31	5,574.8	495.0	946.8	751.5	195.24	4.849		
13,600.0	7,630.0	13,398.5	7,405.0	102.3	102.5	76.29	5,674.8	493.6	945.4	746.8	198.60	4.760		
13,700.0	7,630.0	13,498.5	7,405.0	104.0	104.2	76.27	5,774.8	492.2	944.1	742.1	201.96	4.674		
13,800.0	7,630.0	13,598.5	7,405.0	105.8	105.9	76.25	5,874.8	490.8	942.7	737.4	205.33	4.591		
13,900.0	7,630.0	13,698.5	7,405.0	107.5	107.6	76.23	5,974.8	489.4	941.3	732.7	208.69	4.511		
14,000.0	7,630.0	13,798.5	7,405.0	109.2	109.4	76.21	6,074.8	488.0	940.0	727.9	212.05	4.433		
14,100.0	7,630.0	13,898.5	7,405.0	111.0	111.1	76.19	6,174.7	486.6	938.6	723.2	215.42	4.357		
14,200.0	7,630.0	13,998.5	7,405.0	112.7	112.9	76.17	6,274.7	485.2	937.3	718.5	218.78	4.284		
14,300.0	7,630.0	14,098.5	7,405.0	114.4	114.6	76.15	6,374.7	483.8	935.9	713.8	222.15	4.213 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - SULLIVAN 6-8-26 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 165-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Total	Separation		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Uncertainty Axis	Factor		
3,400.0	3,386.7	3,690.0	3,579.1	7.4	16.6	42.87	-389.2	-1,082.7	981.1	963.1	17.96	54.639		
3,500.0	3,486.2	3,754.4	3,641.2	7.6	16.9	42.55	-396.2	-1,066.8	951.1	932.7	18.43	51.601		
3,600.0	3,585.6	3,827.6	3,711.9	7.9	17.3	42.11	-405.5	-1,051.0	924.3	905.3	18.97	48.722		
3,700.0	3,685.0	3,906.7	3,788.6	8.1	17.6	41.56	-416.6	-1,035.1	899.4	879.8	19.53	46.049		
3,800.0	3,784.4	3,987.4	3,867.6	8.4	17.9	41.14	-425.9	-1,020.9	876.5	856.4	20.04	43.736		
3,900.0	3,883.8	4,071.6	3,950.4	8.6	18.2	40.86	-433.3	-1,007.9	855.2	834.7	20.50	41.709		
4,000.0	3,983.3	4,155.9	4,033.7	8.9	18.5	40.68	-439.5	-996.5	835.5	814.5	20.94	39.904		
4,100.0	4,082.7	4,239.4	4,116.4	9.2	18.7	40.59	-444.7	-986.9	817.4	796.1	21.34	38.305		
4,200.0	4,182.1	4,321.8	4,198.4	9.4	18.9	40.55	-449.4	-979.0	801.3	779.5	21.72	36.888		
4,300.0	4,281.5	4,406.0	4,282.2	9.7	19.0	40.56	-453.8	-973.0	787.2	765.1	22.09	35.641		
4,400.0	4,380.9	4,502.9	4,378.8	9.9	19.2	40.64	-458.4	-966.9	773.9	751.5	22.46	34.465		
4,500.0	4,480.3	4,593.5	4,469.3	10.2	19.4	40.82	-461.4	-962.2	761.4	738.7	22.77	33.436		
4,600.0	4,579.8	4,685.8	4,561.5	10.4	19.5	41.14	-463.1	-958.8	750.1	727.0	23.06	32.529		
4,700.0	4,679.2	4,781.9	4,657.5	10.7	19.6	41.53	-464.4	-956.0	739.4	716.0	23.33	31.689		
4,800.0	4,778.6	4,880.7	4,756.3	10.9	19.7	41.99	-465.0	-953.5	729.0	705.4	23.59	30.902		
4,900.0	4,878.0	4,983.3	4,858.8	11.2	19.8	42.56	-464.9	-950.9	718.4	694.6	23.83	30.151		
5,000.0	4,977.4	5,086.0	4,961.5	11.4	19.9	43.19	-464.1	-947.7	707.4	683.3	24.06	29.404		
5,100.0	5,076.9	5,172.3	5,047.8	11.7	20.0	43.74	-463.3	-945.7	697.1	672.8	24.29	28.700		
5,200.0	5,176.3	5,261.0	5,136.5	12.0	20.1	44.31	-463.0	-945.3	688.7	664.2	24.52	28.088		
5,300.0	5,275.7	5,358.1	5,233.6	12.2	20.1	44.96	-462.7	-945.8	681.5	656.7	24.75	27.536		
5,400.0	5,375.1	5,458.0	5,333.5	12.5	20.2	45.69	-461.8	-946.2	674.2	649.2	24.97	26.997		
5,500.0	5,474.5	5,557.1	5,432.6	12.7	20.3	46.44	-460.8	-946.7	667.0	641.8	25.20	26.474		
5,600.0	5,573.9	5,660.1	5,535.6	13.0	20.4	47.25	-459.6	-947.0	659.9	634.5	25.43	25.945		
5,700.0	5,673.4	5,767.7	5,643.1	13.2	20.5	48.01	-459.3	-946.2	651.8	626.1	25.70	25.360		
5,800.0	5,772.8	5,861.0	5,736.4	13.5	20.5	48.66	-459.4	-945.1	643.5	617.5	25.95	24.795		
5,900.0	5,872.2	5,959.0	5,834.4	13.7	20.6	49.46	-458.6	-945.4	636.6	610.4	26.19	24.307		
6,000.0	5,971.6	6,046.9	5,922.3	14.0	20.6	50.24	-457.2	-946.6	630.8	604.4	26.42	23.877		
6,100.0	6,071.0	6,142.9	6,018.2	14.3	20.7	51.14	-455.4	-948.4	625.8	599.2	26.65	23.482		
6,200.0	6,170.5	6,241.2	6,116.5	14.5	20.7	52.11	-453.2	-950.6	621.3	594.4	26.88	23.114		
6,300.0	6,269.9	6,339.5	6,214.8	14.8	20.8	53.13	-450.6	-953.0	617.2	590.1	27.12	22.761		
6,400.0	6,369.3	6,437.8	6,313.0	15.0	20.8	54.17	-447.9	-955.6	613.4	586.0	27.36	22.420		
6,500.0	6,468.7	6,537.5	6,412.6	15.3	20.8	55.24	-445.2	-958.2	609.9	582.3	27.61	22.089		
6,600.0	6,568.1	6,638.4	6,513.4	15.5	20.9	56.34	-442.4	-960.7	606.4	578.6	27.87	21.756		
6,700.0	6,667.5	6,739.6	6,614.6	15.8	21.0	57.46	-439.5	-962.9	602.9	574.7	28.15	21.419		
6,800.0	6,767.0	6,841.1	6,716.0	16.1	21.0	58.61	-436.6	-964.7	599.2	570.8	28.43	21.076		
6,900.0	6,866.4	6,943.7	6,818.6	16.3	21.1	59.77	-433.8	-966.1	595.3	566.6	28.73	20.720		
7,000.0	6,965.8	7,045.1	6,920.0	16.6	21.2	60.92	-431.2	-967.0	591.1	562.1	29.04	20.354		
7,100.0	7,065.4	7,144.9	7,019.7	16.8	21.2	-2.06	-428.8	-967.7	586.6	557.3	29.31	20.015		
7,200.0	7,164.5	7,244.7	7,119.5	16.8	21.3	-63.27	-426.5	-968.3	579.7	550.2	29.48	19.667		
7,300.0	7,260.5	7,341.5	7,216.2	16.7	21.4	-75.36	-424.4	-968.9	571.1	541.4	29.65	19.263		
7,400.0	7,350.3	7,435.7	7,310.5	16.5	21.5	-83.31	-422.8	-969.3	562.9	533.0	29.88	18.839		
7,500.0	7,431.2	7,520.7	7,395.5	16.2	21.6	-90.29	-422.0	-969.0	558.8	528.7	30.07	18.584		
7,505.3	7,435.1	7,524.9	7,399.6	16.2	21.6	-90.63	-422.0	-969.0	558.8	528.7	30.08	18.580 CC, ES, SF		
7,600.0	7,500.8	7,591.3	7,466.1	15.9	21.7	-95.84	-421.7	-968.4	563.7	533.7	30.04	18.766		
7,700.0	7,556.9	7,647.7	7,522.5	15.7	21.8	-99.26	-421.7	-967.9	582.0	552.3	29.78	19.546		
7,800.0	7,597.9	7,688.6	7,563.4	15.6	21.8	-99.81	-421.7	-967.5	616.0	586.5	29.46	20.907		
7,900.0	7,622.5	7,713.1	7,587.8	15.6	21.8	-96.86	-421.7	-967.3	665.2	635.8	29.33	22.680		
8,000.0	7,630.0	7,720.6	7,595.3	15.8	21.8	-90.52	-421.7	-967.2	726.8	697.4	29.46	24.671		
8,100.0	7,630.0	7,720.4	7,595.1	16.3	21.8	-90.50	-421.7	-967.2	796.9	767.0	29.92	26.632		
8,200.0	7,630.0	7,720.2	7,595.0	16.8	21.8	-90.48	-421.7	-967.2	872.8	842.2	30.57	28.547		
8,300.0	7,630.0	7,720.1	7,594.8	17.6	21.8	-90.47	-421.7	-967.2	953.2	921.8	31.39	30.361		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 S26-T2N-R68W (Sullivan) - SULLIVAN 8-6-26 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 966-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
8,300.0	7,630.0	7,701.2	7,612.7	17.6	21.0	89.59	778.9	463.6	981.4	947.6	33.79	29.044		
8,400.0	7,630.0	7,700.6	7,612.0	18.4	21.0	89.55	779.0	463.6	943.3	908.5	34.75	27.143		
8,500.0	7,630.0	7,699.9	7,611.4	19.4	21.0	89.51	779.0	463.6	914.5	878.7	35.84	25.521		
8,600.0	7,630.0	7,699.3	7,610.7	20.5	21.0	89.47	779.0	463.6	896.1	859.1	37.02	24.208		
8,700.0	7,630.0	7,698.6	7,610.1	21.7	21.0	89.42	779.0	463.6	888.6	850.3	38.28	23.212		
8,717.0	7,630.0	7,698.5	7,610.0	21.9	21.0	89.42	779.0	463.6	888.4	849.9	38.51	23.072 CC, ES		
8,800.0	7,630.0	7,698.0	7,609.4	23.0	21.0	89.38	779.0	463.6	892.3	852.7	39.61	22.525		
8,900.0	7,630.0	7,697.3	7,608.8	24.3	21.0	89.34	779.0	463.6	907.1	866.1	41.00	22.123		
9,000.0	7,630.0	7,696.7	7,608.1	25.7	21.0	89.30	779.0	463.6	932.4	890.0	42.44	21.972 SF		
9,100.0	7,630.0	7,696.0	7,607.5	27.1	21.0	89.26	779.0	463.6	967.5	923.6	43.91	22.033		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4H-26H-P268
Project:	DJ Wattenberg	TVD Reference:	well @ 4997.0ft
Reference Site:	S26-T2N-R68W (Sullivan)	MD Reference:	well @ 4997.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sullivan 4H-26H-P268	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 well @ 4997.0ft

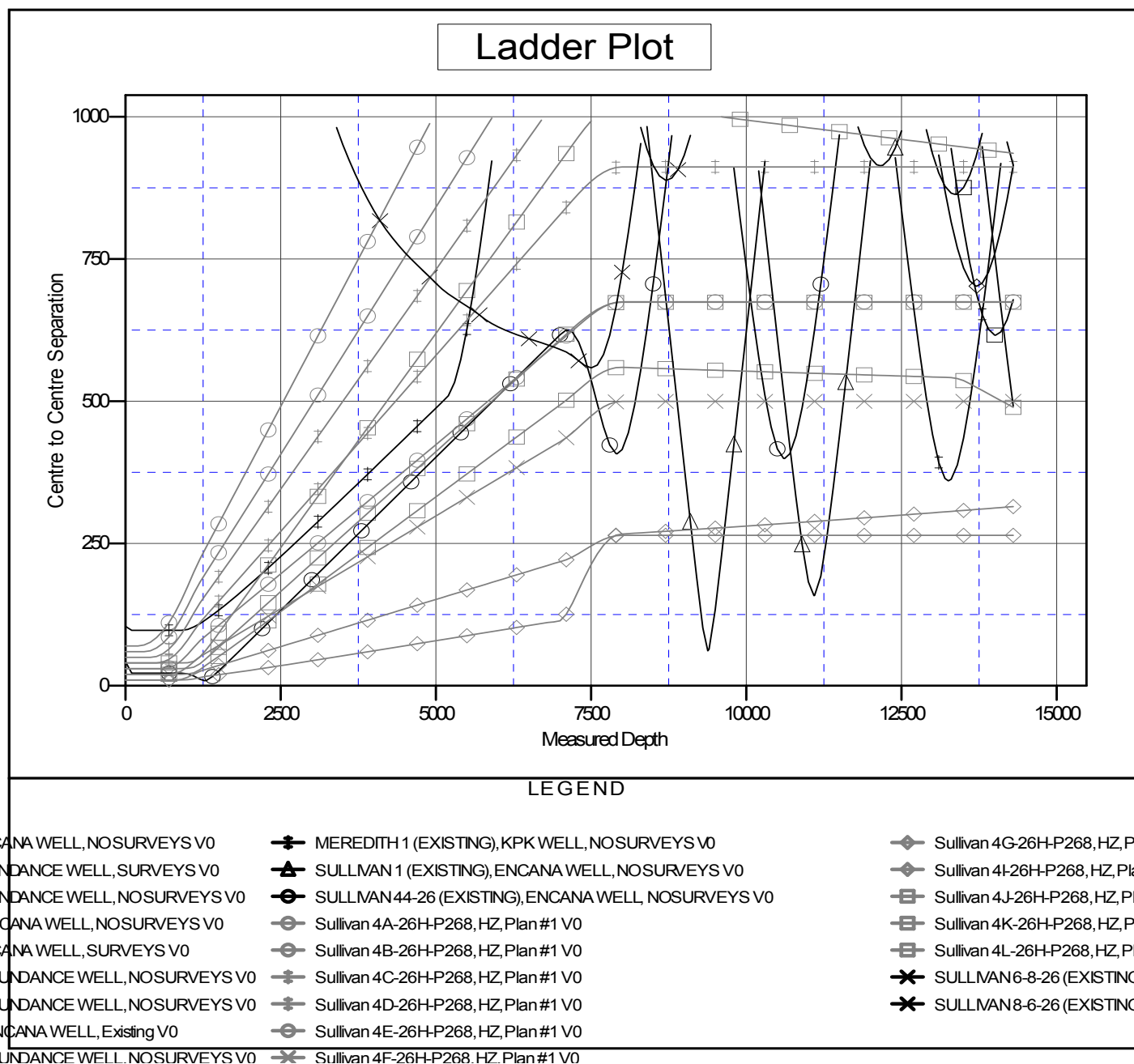
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Sullivan 4H-26H-P268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.35°



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