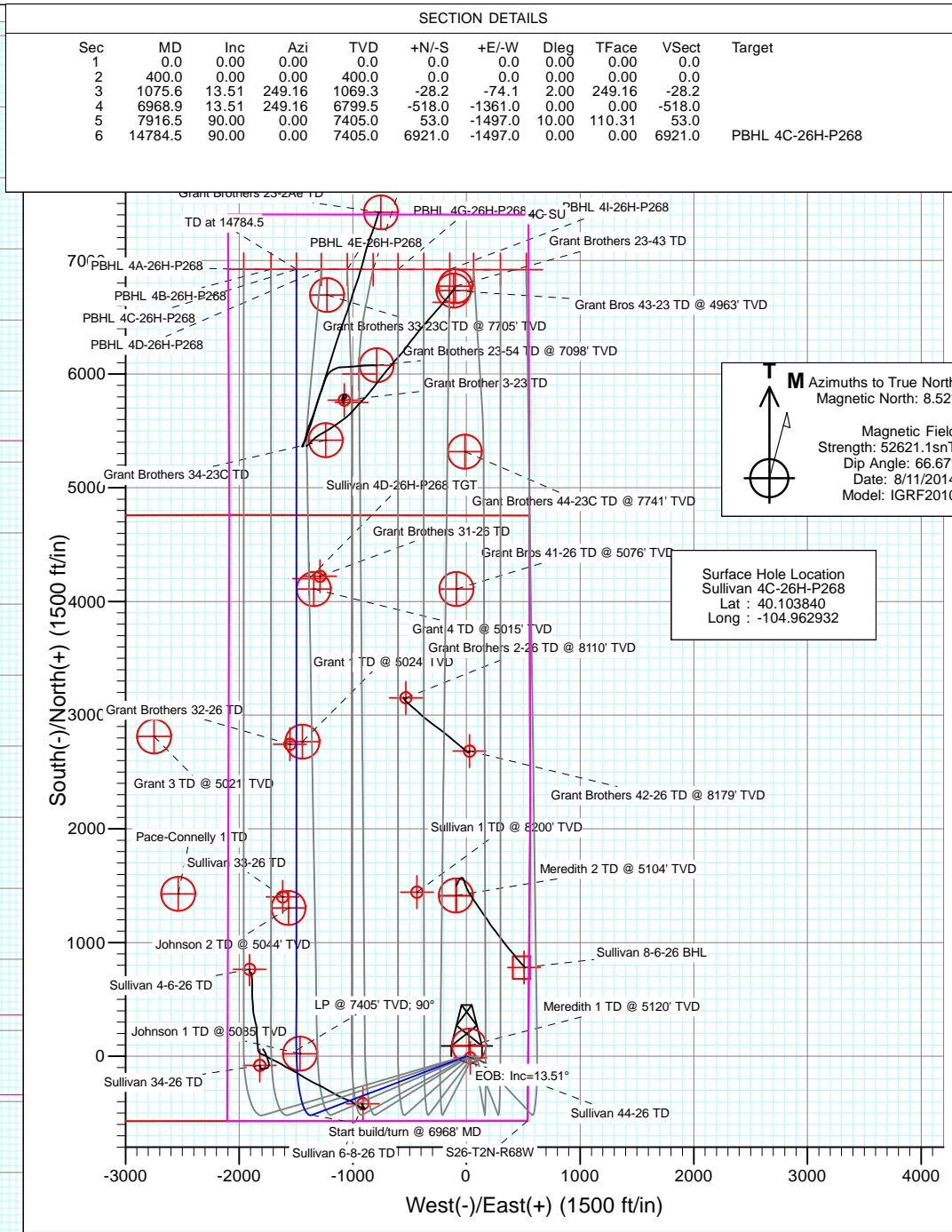
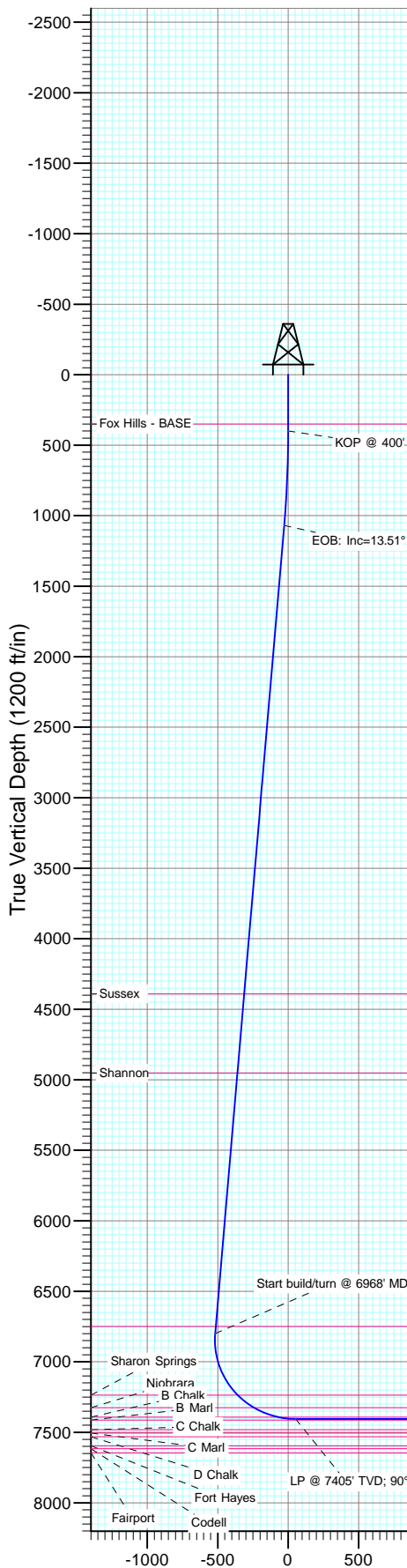




Project: DJ Wattenberg  
Site: S26-T2N-R68W (Sullivan)  
Well: Sullivan 4C-26H-P268  
Wellbore: HZ  
Design: Plan #1



DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL 4C-26H-P268	6921.0	-1497.0	1288042.55	3148698.96	40.122839	-104.968285

Plan #1  
Sullivan 4C-26H-P268  
Well @ 4996.0ft  
Ground Elevation @ 4964.0  
North American Datum 1983  
Well Sullivan 4C-26H-P268, True North

Vertical Section at 0.00° (1200 ft/in)

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site:</b>	S26-T2N-R68W (Sullivan)	<b>North Reference:</b>	True
<b>Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	HZ		
<b>Design:</b>	Plan #1		

<b>Project</b>	DJ Wattenberg		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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 4C-26H-P268					
Well Position	+N/-S	0.0 ft	Northing:	1,281,130.73 ft	Latitude:	40.103840
	+E/-W	0.0 ft	Easting:	3,150,237.81 ft	Longitude:	-104.962932
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,964.0 ft

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

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	0.00

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,075.6	13.51	249.16	1,069.3	-28.2	-74.1	2.00	2.00	0.00	249.16	
6,968.9	13.51	249.16	6,799.5	-518.0	-1,361.0	0.00	0.00	0.00	0.00	
7,916.5	90.00	0.00	7,405.0	53.0	-1,497.0	10.00	8.07	11.70	110.31	
14,784.5	90.00	0.00	7,405.0	6,921.0	-1,497.0	0.00	0.00	0.00	0.00	PBHL 4C-26H-P268

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site:</b>	S26-T2N-R68W (Sullivan)	<b>North Reference:</b>	True
<b>Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	HZ		
<b>Design:</b>	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	KOP @ 400'
500.0	2.00	249.16	500.0	-0.6	-1.6	-0.6	2.00	2.00	
600.0	4.00	249.16	599.8	-2.5	-6.5	-2.5	2.00	2.00	
700.0	6.00	249.16	699.5	-5.6	-14.7	-5.6	2.00	2.00	
800.0	8.00	249.16	798.7	-9.9	-26.1	-9.9	2.00	2.00	
900.0	10.00	249.16	897.5	-15.5	-40.7	-15.5	2.00	2.00	
1,000.0	12.00	249.16	995.6	-22.3	-58.5	-22.3	2.00	2.00	
1,075.6	13.51	249.16	1,069.3	-28.2	-74.1	-28.2	2.00	2.00	EOB: Inc=13.51°
1,100.0	13.51	249.16	1,093.1	-30.2	-79.4	-30.2	0.00	0.00	
1,200.0	13.51	249.16	1,190.3	-38.5	-101.3	-38.5	0.00	0.00	
1,300.0	13.51	249.16	1,287.5	-46.9	-123.1	-46.9	0.00	0.00	
1,400.0	13.51	249.16	1,384.8	-55.2	-144.9	-55.2	0.00	0.00	
1,500.0	13.51	249.16	1,482.0	-63.5	-166.8	-63.5	0.00	0.00	
1,600.0	13.51	249.16	1,579.2	-71.8	-188.6	-71.8	0.00	0.00	
1,700.0	13.51	249.16	1,676.5	-80.1	-210.5	-80.1	0.00	0.00	
1,800.0	13.51	249.16	1,773.7	-88.4	-232.3	-88.4	0.00	0.00	
1,900.0	13.51	249.16	1,870.9	-96.7	-254.1	-96.7	0.00	0.00	
2,000.0	13.51	249.16	1,968.2	-105.0	-276.0	-105.0	0.00	0.00	
2,100.0	13.51	249.16	2,065.4	-113.3	-297.8	-113.3	0.00	0.00	
2,200.0	13.51	249.16	2,162.6	-121.6	-319.6	-121.6	0.00	0.00	
2,300.0	13.51	249.16	2,259.9	-130.0	-341.5	-130.0	0.00	0.00	
2,400.0	13.51	249.16	2,357.1	-138.3	-363.3	-138.3	0.00	0.00	
2,500.0	13.51	249.16	2,454.3	-146.6	-385.1	-146.6	0.00	0.00	
2,600.0	13.51	249.16	2,551.6	-154.9	-407.0	-154.9	0.00	0.00	
2,700.0	13.51	249.16	2,648.8	-163.2	-428.8	-163.2	0.00	0.00	
2,800.0	13.51	249.16	2,746.0	-171.5	-450.7	-171.5	0.00	0.00	
2,900.0	13.51	249.16	2,843.3	-179.8	-472.5	-179.8	0.00	0.00	
3,000.0	13.51	249.16	2,940.5	-188.1	-494.3	-188.1	0.00	0.00	
3,100.0	13.51	249.16	3,037.7	-196.4	-516.2	-196.4	0.00	0.00	
3,200.0	13.51	249.16	3,135.0	-204.8	-538.0	-204.8	0.00	0.00	
3,300.0	13.51	249.16	3,232.2	-213.1	-559.8	-213.1	0.00	0.00	
3,400.0	13.51	249.16	3,329.4	-221.4	-581.7	-221.4	0.00	0.00	
3,500.0	13.51	249.16	3,426.7	-229.7	-603.5	-229.7	0.00	0.00	
3,600.0	13.51	249.16	3,523.9	-238.0	-625.3	-238.0	0.00	0.00	
3,700.0	13.51	249.16	3,621.1	-246.3	-647.2	-246.3	0.00	0.00	
3,800.0	13.51	249.16	3,718.4	-254.6	-669.0	-254.6	0.00	0.00	
3,900.0	13.51	249.16	3,815.6	-262.9	-690.9	-262.9	0.00	0.00	
4,000.0	13.51	249.16	3,912.8	-271.2	-712.7	-271.2	0.00	0.00	
4,100.0	13.51	249.16	4,010.1	-279.5	-734.5	-279.5	0.00	0.00	
4,200.0	13.51	249.16	4,107.3	-287.9	-756.4	-287.9	0.00	0.00	
4,300.0	13.51	249.16	4,204.5	-296.2	-778.2	-296.2	0.00	0.00	
4,400.0	13.51	249.16	4,301.8	-304.5	-800.0	-304.5	0.00	0.00	
4,491.8	13.51	249.16	4,391.0	-312.1	-820.1	-312.1	0.00	0.00	Sussex
4,500.0	13.51	249.16	4,399.0	-312.8	-821.9	-312.8	0.00	0.00	
4,600.0	13.51	249.16	4,496.2	-321.1	-843.7	-321.1	0.00	0.00	
4,700.0	13.51	249.16	4,593.4	-329.4	-865.5	-329.4	0.00	0.00	
4,800.0	13.51	249.16	4,690.7	-337.7	-887.4	-337.7	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site:</b>	S26-T2N-R68W (Sullivan)	<b>North Reference:</b>	True
<b>Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	HZ		
<b>Design:</b>	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
4,900.0	13.51	249.16	4,787.9	-346.0	-909.2	-346.0	0.00	0.00	
5,000.0	13.51	249.16	4,885.1	-354.3	-931.1	-354.3	0.00	0.00	
5,068.8	13.51	249.16	4,952.0	-360.1	-946.1	-360.1	0.00	0.00	Shannon
5,100.0	13.51	249.16	4,982.4	-362.7	-952.9	-362.7	0.00	0.00	
5,200.0	13.51	249.16	5,079.6	-371.0	-974.7	-371.0	0.00	0.00	
5,300.0	13.51	249.16	5,176.8	-379.3	-996.6	-379.3	0.00	0.00	
5,400.0	13.51	249.16	5,274.1	-387.6	-1,018.4	-387.6	0.00	0.00	
5,500.0	13.51	249.16	5,371.3	-395.9	-1,040.2	-395.9	0.00	0.00	
5,600.0	13.51	249.16	5,468.5	-404.2	-1,062.1	-404.2	0.00	0.00	
5,700.0	13.51	249.16	5,565.8	-412.5	-1,083.9	-412.5	0.00	0.00	
5,800.0	13.51	249.16	5,663.0	-420.8	-1,105.7	-420.8	0.00	0.00	
5,900.0	13.51	249.16	5,760.2	-429.1	-1,127.6	-429.1	0.00	0.00	
6,000.0	13.51	249.16	5,857.5	-437.4	-1,149.4	-437.4	0.00	0.00	
6,100.0	13.51	249.16	5,954.7	-445.8	-1,171.3	-445.8	0.00	0.00	
6,200.0	13.51	249.16	6,051.9	-454.1	-1,193.1	-454.1	0.00	0.00	
6,300.0	13.51	249.16	6,149.2	-462.4	-1,214.9	-462.4	0.00	0.00	
6,400.0	13.51	249.16	6,246.4	-470.7	-1,236.8	-470.7	0.00	0.00	
6,500.0	13.51	249.16	6,343.6	-479.0	-1,258.6	-479.0	0.00	0.00	
6,600.0	13.51	249.16	6,440.9	-487.3	-1,280.4	-487.3	0.00	0.00	
6,700.0	13.51	249.16	6,538.1	-495.6	-1,302.3	-495.6	0.00	0.00	
6,800.0	13.51	249.16	6,635.3	-503.9	-1,324.1	-503.9	0.00	0.00	
6,900.0	13.51	249.16	6,732.6	-512.2	-1,345.9	-512.2	0.00	0.00	
6,915.9	13.51	249.16	6,748.0	-513.6	-1,349.4	-513.6	0.00	0.00	Teepee Buttes (*if present)
6,968.9	13.51	249.16	6,799.5	-518.0	-1,361.0	-518.0	0.00	0.00	Start build/turn @ 6968' MD
7,000.0	12.76	262.50	6,829.8	-519.7	-1,367.8	-519.7	10.00	-2.40	
7,100.0	15.12	303.80	6,927.1	-513.9	-1,389.6	-513.9	10.00	2.36	
7,200.0	22.16	326.54	7,021.9	-490.8	-1,410.9	-490.8	10.00	7.04	
7,300.0	30.83	337.89	7,111.4	-451.2	-1,431.0	-451.2	10.00	8.66	
7,400.0	40.07	344.52	7,192.8	-396.3	-1,449.3	-396.3	10.00	9.25	
7,459.0	45.65	347.32	7,236.0	-357.5	-1,459.0	-357.5	10.00	9.47	Sharon Springs
7,500.0	49.57	348.97	7,263.7	-327.8	-1,465.2	-327.8	10.00	9.55	
7,600.0	59.20	352.31	7,321.8	-247.7	-1,478.3	-247.7	10.00	9.63	
7,604.3	59.61	352.43	7,324.0	-244.0	-1,478.8	-244.0	10.04	9.71	Niobrara
7,700.0	68.90	355.03	7,365.6	-158.4	-1,488.1	-158.4	10.00	9.70	
7,792.7	77.93	357.25	7,392.0	-69.8	-1,494.0	-69.8	10.00	9.74	B Chalk
7,800.0	78.63	357.41	7,393.5	-62.7	-1,494.4	-62.7	9.98	9.73	
7,900.0	88.39	359.64	7,404.8	36.5	-1,496.9	36.5	10.00	9.75	
7,916.5	90.00	0.00	7,405.0	53.0	-1,497.0	53.0	10.01	9.77	LP @ 7405' TVD; 90°
8,000.0	90.00	0.00	7,405.0	136.5	-1,497.0	136.5	0.00	0.00	
8,100.0	90.00	0.00	7,405.0	236.5	-1,497.0	236.5	0.00	0.00	
8,200.0	90.00	0.00	7,405.0	336.5	-1,497.0	336.5	0.00	0.00	
8,300.0	90.00	0.00	7,405.0	436.5	-1,497.0	436.5	0.00	0.00	
8,400.0	90.00	0.00	7,405.0	536.5	-1,497.0	536.5	0.00	0.00	
8,500.0	90.00	0.00	7,405.0	636.5	-1,497.0	636.5	0.00	0.00	
8,600.0	90.00	0.00	7,405.0	736.5	-1,497.0	736.5	0.00	0.00	
8,700.0	90.00	0.00	7,405.0	836.5	-1,497.0	836.5	0.00	0.00	
8,800.0	90.00	0.00	7,405.0	936.5	-1,497.0	936.5	0.00	0.00	
8,900.0	90.00	0.00	7,405.0	1,036.5	-1,497.0	1,036.5	0.00	0.00	
9,000.0	90.00	0.00	7,405.0	1,136.5	-1,497.0	1,136.5	0.00	0.00	
9,100.0	90.00	0.00	7,405.0	1,236.5	-1,497.0	1,236.5	0.00	0.00	
9,200.0	90.00	0.00	7,405.0	1,336.5	-1,497.0	1,336.5	0.00	0.00	
9,300.0	90.00	0.00	7,405.0	1,436.5	-1,497.0	1,436.5	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site:</b>	S26-T2N-R68W (Sullivan)	<b>North Reference:</b>	True
<b>Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	HZ		
<b>Design:</b>	Plan #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,400.0	90.00	0.00	7,405.0	1,536.5	-1,497.0	1,536.5	0.00	0.00	
9,500.0	90.00	0.00	7,405.0	1,636.5	-1,497.0	1,636.5	0.00	0.00	
9,600.0	90.00	0.00	7,405.0	1,736.5	-1,497.0	1,736.5	0.00	0.00	
9,700.0	90.00	0.00	7,405.0	1,836.5	-1,497.0	1,836.5	0.00	0.00	
9,800.0	90.00	0.00	7,405.0	1,936.5	-1,497.0	1,936.5	0.00	0.00	
9,900.0	90.00	0.00	7,405.0	2,036.5	-1,497.0	2,036.5	0.00	0.00	
10,000.0	90.00	0.00	7,405.0	2,136.5	-1,497.0	2,136.5	0.00	0.00	
10,100.0	90.00	0.00	7,405.0	2,236.5	-1,497.0	2,236.5	0.00	0.00	
10,200.0	90.00	0.00	7,405.0	2,336.5	-1,497.0	2,336.5	0.00	0.00	
10,300.0	90.00	0.00	7,405.0	2,436.5	-1,497.0	2,436.5	0.00	0.00	
10,400.0	90.00	0.00	7,405.0	2,536.5	-1,497.0	2,536.5	0.00	0.00	
10,500.0	90.00	0.00	7,405.0	2,636.5	-1,497.0	2,636.5	0.00	0.00	
10,600.0	90.00	0.00	7,405.0	2,736.5	-1,497.0	2,736.5	0.00	0.00	
10,700.0	90.00	0.00	7,405.0	2,836.5	-1,497.0	2,836.5	0.00	0.00	
10,800.0	90.00	0.00	7,405.0	2,936.5	-1,497.0	2,936.5	0.00	0.00	
10,900.0	90.00	0.00	7,405.0	3,036.5	-1,497.0	3,036.5	0.00	0.00	
11,000.0	90.00	0.00	7,405.0	3,136.5	-1,497.0	3,136.5	0.00	0.00	
11,100.0	90.00	0.00	7,405.0	3,236.5	-1,497.0	3,236.5	0.00	0.00	
11,200.0	90.00	0.00	7,405.0	3,336.5	-1,497.0	3,336.5	0.00	0.00	
11,300.0	90.00	0.00	7,405.0	3,436.5	-1,497.0	3,436.5	0.00	0.00	
11,400.0	90.00	0.00	7,405.0	3,536.5	-1,497.0	3,536.5	0.00	0.00	
11,500.0	90.00	0.00	7,405.0	3,636.5	-1,497.0	3,636.5	0.00	0.00	
11,600.0	90.00	0.00	7,405.0	3,736.5	-1,497.0	3,736.5	0.00	0.00	
11,700.0	90.00	0.00	7,405.0	3,836.5	-1,497.0	3,836.5	0.00	0.00	
11,800.0	90.00	0.00	7,405.0	3,936.5	-1,497.0	3,936.5	0.00	0.00	
11,900.0	90.00	0.00	7,405.0	4,036.5	-1,497.0	4,036.5	0.00	0.00	
12,000.0	90.00	0.00	7,405.0	4,136.5	-1,497.0	4,136.5	0.00	0.00	
12,100.0	90.00	0.00	7,405.0	4,236.5	-1,497.0	4,236.5	0.00	0.00	
12,200.0	90.00	0.00	7,405.0	4,336.5	-1,497.0	4,336.5	0.00	0.00	
12,300.0	90.00	0.00	7,405.0	4,436.5	-1,497.0	4,436.5	0.00	0.00	
12,400.0	90.00	0.00	7,405.0	4,536.5	-1,497.0	4,536.5	0.00	0.00	
12,500.0	90.00	0.00	7,405.0	4,636.5	-1,497.0	4,636.5	0.00	0.00	
12,600.0	90.00	0.00	7,405.0	4,736.5	-1,497.0	4,736.5	0.00	0.00	
12,700.0	90.00	0.00	7,405.0	4,836.5	-1,497.0	4,836.5	0.00	0.00	
12,800.0	90.00	0.00	7,405.0	4,936.5	-1,497.0	4,936.5	0.00	0.00	
12,900.0	90.00	0.00	7,405.0	5,036.5	-1,497.0	5,036.5	0.00	0.00	
13,000.0	90.00	0.00	7,405.0	5,136.5	-1,497.0	5,136.5	0.00	0.00	
13,100.0	90.00	0.00	7,405.0	5,236.5	-1,497.0	5,236.5	0.00	0.00	
13,200.0	90.00	0.00	7,405.0	5,336.5	-1,497.0	5,336.5	0.00	0.00	
13,300.0	90.00	0.00	7,405.0	5,436.5	-1,497.0	5,436.5	0.00	0.00	
13,400.0	90.00	0.00	7,405.0	5,536.5	-1,497.0	5,536.5	0.00	0.00	
13,500.0	90.00	0.00	7,405.0	5,636.5	-1,497.0	5,636.5	0.00	0.00	
13,600.0	90.00	0.00	7,405.0	5,736.5	-1,497.0	5,736.5	0.00	0.00	
13,700.0	90.00	0.00	7,405.0	5,836.5	-1,497.0	5,836.5	0.00	0.00	
13,800.0	90.00	0.00	7,405.0	5,936.5	-1,497.0	5,936.5	0.00	0.00	
13,900.0	90.00	0.00	7,405.0	6,036.5	-1,497.0	6,036.5	0.00	0.00	
14,000.0	90.00	0.00	7,405.0	6,136.5	-1,497.0	6,136.5	0.00	0.00	
14,100.0	90.00	0.00	7,405.0	6,236.5	-1,497.0	6,236.5	0.00	0.00	
14,200.0	90.00	0.00	7,405.0	6,336.5	-1,497.0	6,336.5	0.00	0.00	
14,300.0	90.00	0.00	7,405.0	6,436.5	-1,497.0	6,436.5	0.00	0.00	
14,400.0	90.00	0.00	7,405.0	6,536.5	-1,497.0	6,536.5	0.00	0.00	
14,500.0	90.00	0.00	7,405.0	6,636.5	-1,497.0	6,636.5	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site:</b>	S26-T2N-R68W (Sullivan)	<b>North Reference:</b>	True
<b>Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	HZ		
<b>Design:</b>	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
14,600.0	90.00	0.00	7,405.0	6,736.5	-1,497.0	6,736.5	0.00	0.00	
14,700.0	90.00	0.00	7,405.0	6,836.5	-1,497.0	6,836.5	0.00	0.00	
14,784.5	90.00	0.00	7,405.0	6,921.0	-1,497.0	6,921.0	0.00	0.00	TD at 14784.5

### 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 4C-26H-P268 - plan hits target center - Point	0.00	0.00	7,405.0	6,921.0	-1,497.0	1,288,042.55	3,148,698.96	40.122839	-104.968285

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
350.0	350.0	Fox Hills - BASE			
4,491.8	4,391.0	Sussex			
5,068.8	4,952.0	Shannon			
6,915.9	6,748.0	Teepee Buttes (*if present)			
7,459.0	7,236.0	Sharon Springs			
7,604.3	7,324.0	Niobrara			
7,792.7	7,392.0	B Chalk			

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400'
1,075.6	1,069.3	-28.2	-74.1	EOB: Inc=13.51°
6,968.9	6,799.5	-518.0	-1,361.0	Start build/turn @ 6968' MD
7,916.5	7,405.0	53.0	-1,497.0	LP @ 7405' TVD; 90°
14,784.5	7,405.0	6,921.0	-1,497.0	TD at 14784.5

# **EnCana Oil & Gas (USA) Inc**

**DJ Wattenberg**

**S26-T2N-R68W (Sullivan)**

**Sullivan 4C-26H-P268**

**HZ**

**Plan #1**

## **Anticollision Report**

**26 August, 2014**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	Systematic Ellipse
<b>Depth Range:</b>	0.0 to 14,337.0ft	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>		<b>Date</b>	8/26/2014		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	14,784.5	Plan #1 (HZ)	Geolink MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
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	11,016.0	7,354.0	963.6	892.1	13.487	CC, ES
GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL	11,200.0	7,354.0	981.0	906.4	13.152	SF
GRANT BROTHERS 23-2Ae (EXISTING) - SUNDANCE						Out of range
GRANT BROTHERS 23-43 (EXISTING) - SUNDANCE W						Out of range
GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE W	13,940.8	7,210.0	743.4	622.3	6.139	CC, ES
GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE W	14,000.0	7,210.0	745.8	623.7	6.109	SF
GRANT BROTHERS 31-26 (EXISTING) - ENCANA WEL	12,084.5	7,334.0	207.9	118.1	2.316	CC, ES
GRANT BROTHERS 31-26 (EXISTING) - ENCANA WEL	12,100.0	7,334.0	208.5	118.5	2.316	SF
GRANT BROTHERS 32-26 (EXISTING) - ENCANA WEL	10,607.3	7,340.0	56.5	-8.0	0.876	Level 1, CC, ES, SF
GRANT BROTHERS 3-23 (EXISTING) - ENCANA WELL	13,642.8	7,341.5	418.0	307.6	3.786	CC, ES, SF
GRANT BROTHERS 33-23C (EXISTING) - SUNDANCE	14,300.0	7,320.0	373.5	245.3	2.914	CC, ES, SF
GRANT BROTHERS 34-23C (EXISTING) - SUNDANCE	13,282.2	7,326.0	258.0	147.5	2.335	CC, ES
GRANT BROTHERS 34-23C (EXISTING) - SUNDANCE	13,300.0	7,326.0	258.7	147.8	2.334	SF
GRANT BROTHERS 42-26 (EXISTING) - ENCANA WEL						Out of range
GRANT BROTHERS 44-23C (EXISTING) - SUNDANCE						Out of range
JOHNSON 1 (EXISTING) - KPK WELL - NO SURVEYS	5,337.1	5,085.0	616.7	588.4	21.849	CC, ES
JOHNSON 1 (EXISTING) - KPK WELL - NO SURVEYS	5,400.0	5,085.0	619.9	591.4	21.766	SF
JOHNSON 2 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS	400.0	363.0	95.5	94.2	74.839	CC, ES
MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS	900.0	860.5	125.3	122.1	40.246	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						Out of range
SULLIVAN 33-26 (EXISTING) - ENCANA WELL - NO SU	9,265.0	7,348.0	120.6	78.2	2.844	CC, ES, SF
SULLIVAN 34-26 (EXISTING) - ENCANA WELL - SURVE	7,785.7	7,339.4	322.6	296.0	12.157	CC, ES, SF
SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SU	400.0	365.0	36.2	34.9	28.311	CC, ES
SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SU	700.0	664.5	48.6	46.2	20.789	SF
SULLIVAN 4-6-26 (EXISTING) - ENCANA WELL - SURV	8,616.9	7,437.8	411.4	372.9	10.698	CC, ES
SULLIVAN 4-6-26 (EXISTING) - ENCANA WELL - SURV	8,700.0	7,438.9	419.7	380.1	10.611	SF
Sullivan 4A-26H-P268 - HZ - Plan #1	200.0	199.0	20.1	19.6	34.447	CC, ES
Sullivan 4A-26H-P268 - HZ - Plan #1	14,300.0	14,490.0	472.0	245.3	2.082	SF
Sullivan 4B-26H-P268 - HZ - Plan #1	300.0	300.0	10.1	9.1	10.765	CC, ES
Sullivan 4B-26H-P268 - HZ - Plan #1	14,300.0	14,563.3	316.1	150.8	1.913	SF
Sullivan 4D-26H-P268 - HZ - Plan #1	400.0	400.0	9.8	8.5	7.622	CC
Sullivan 4D-26H-P268 - HZ - Plan #1	13,600.0	13,642.9	141.9	-20.1	0.876	Level 1, SF
Sullivan 4D-26H-P268 - HZ - Plan #1	13,700.0	13,742.5	149.2	-20.4	0.880	Level 1, ES
Sullivan 4E-26H-P268 - HZ - Plan #1	400.0	400.0	19.9	18.6	15.461	CC, ES
Sullivan 4E-26H-P268 - HZ - Plan #1	14,300.0	14,454.2	516.6	307.3	2.468	SF
Sullivan 4F-26H-P268 - HZ - Plan #1	400.0	400.0	29.9	28.6	23.302	CC, ES
Sullivan 4F-26H-P268 - HZ - Plan #1	14,200.0	14,049.0	566.0	339.5	2.499	SF
Sullivan 4G-26H-P268 - HZ - Plan #1	400.0	400.0	40.0	38.7	31.141	CC, ES
Sullivan 4G-26H-P268 - HZ - Plan #1	14,300.0	14,259.4	898.6	668.8	3.910	SF
Sullivan 4H-26H-P268 - HZ - Plan #1	400.0	401.0	49.8	48.5	38.710	CC, ES
Sullivan 4H-26H-P268 - HZ - Plan #1	700.0	700.5	64.7	62.3	27.747	SF
Sullivan 4I-26H-P268 - HZ - Plan #1	400.0	401.0	59.9	58.6	46.539	CC, ES
Sullivan 4I-26H-P268 - HZ - Plan #1	700.0	700.5	74.7	72.4	32.050	SF

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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 4J-26H-P268 - HZ - Plan #1	400.0	400.0	69.9	68.6	54.441	CC, ES
Sullivan 4J-26H-P268 - HZ - Plan #1	800.0	798.7	96.5	93.8	36.052	SF
Sullivan 4K-26H-P268 - HZ - Plan #1	400.0	400.0	80.0	78.7	62.280	CC, ES
Sullivan 4K-26H-P268 - HZ - Plan #1	800.0	798.7	106.5	103.8	39.787	SF
Sullivan 4L-26H-P268 - HZ - Plan #1	400.0	400.0	89.8	88.5	69.903	CC, ES
Sullivan 4L-26H-P268 - HZ - Plan #1	800.0	798.7	116.2	113.5	43.408	SF
SULLIVAN 6-8-26 (EXISTING) - ENCANA WELL - SURV	5,000.0	4,970.6	114.8	79.4	3.243	ES, SF
SULLIVAN 6-8-26 (EXISTING) - ENCANA WELL - SURV	5,037.7	5,007.1	114.4	79.6	3.283	CC
SULLIVAN 8-6-26 (EXISTING) - ENCANA WELL - SURV						Out of range

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis				
10,800.0	7,405.0	7,354.0	7,354.0	60.9	12.8	90.00	3,152.5	-533.4	987.5	919.7	67.77	14.572			
10,900.0	7,405.0	7,354.0	7,354.0	62.5	12.8	90.00	3,152.5	-533.4	970.5	901.1	69.47	13.971			
11,000.0	7,405.0	7,354.0	7,354.0	64.0	12.8	90.00	3,152.5	-533.4	963.7	892.6	71.17	13.540			
11,016.0	7,405.0	7,354.0	7,354.0	64.3	12.8	90.00	3,152.5	-533.4	963.6	892.1	71.45	13.487 CC, ES			
11,100.0	7,405.0	7,354.0	7,354.0	65.6	12.8	90.00	3,152.5	-533.4	967.2	894.4	72.88	13.271			
11,200.0	7,405.0	7,354.0	7,354.0	67.1	12.8	90.00	3,152.5	-533.4	981.0	906.4	74.59	13.152 SF			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE WELL - SURVEYS													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 (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	
13,300.0	7,405.0	7,210.0	7,098.0	101.5	21.2	71.89	6,077.3	-790.4	981.5	871.0	110.50	8.882	
13,400.0	7,405.0	7,210.0	7,098.0	103.2	21.2	71.89	6,077.3	-790.4	919.3	807.1	112.15	8.197	
13,500.0	7,405.0	7,210.0	7,098.0	104.9	21.2	71.89	6,077.3	-790.4	864.3	750.5	113.80	7.594	
13,600.0	7,405.0	7,210.0	7,098.0	106.5	21.2	71.89	6,077.3	-790.4	817.8	702.3	115.46	7.083	
13,700.0	7,405.0	7,210.0	7,098.0	108.2	21.2	71.89	6,077.3	-790.4	781.4	664.3	117.11	6.673	
13,800.0	7,405.0	7,210.0	7,098.0	109.9	21.2	71.89	6,077.3	-790.4	756.6	637.9	118.77	6.371	
13,900.0	7,405.0	7,210.0	7,098.0	111.6	21.2	71.89	6,077.3	-790.4	744.5	624.1	120.42	6.183	
13,940.8	7,405.0	7,210.0	7,098.0	112.3	21.2	71.89	6,077.3	-790.4	743.4	622.3	121.10	6.139 CC, ES	
14,000.0	7,405.0	7,210.0	7,098.0	113.3	21.2	71.89	6,077.3	-790.4	745.8	623.7	122.08	6.109 SF	
14,100.0	7,405.0	7,210.0	7,098.0	115.0	21.2	71.89	6,077.3	-790.4	760.3	636.5	123.74	6.144	
14,200.0	7,405.0	7,210.0	7,098.0	116.7	21.2	71.89	6,077.3	-790.4	787.3	661.9	125.39	6.279	
14,300.0	7,405.0	7,210.0	7,098.0	118.4	21.2	71.89	6,077.3	-790.4	825.7	698.6	127.05	6.499	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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				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)				
11,200.0	7,405.0	7,334.0	7,334.0	67.1	12.8	90.00	4,220.9	-1,289.0	908.6	834.0	74.56	12.186		
11,300.0	7,405.0	7,334.0	7,334.0	68.7	12.8	90.00	4,220.9	-1,289.0	811.6	735.3	76.27	10.641		
11,400.0	7,405.0	7,334.0	7,334.0	70.3	12.8	90.00	4,220.9	-1,289.0	715.4	637.4	77.99	9.173		
11,500.0	7,405.0	7,334.0	7,334.0	71.9	12.8	90.00	4,220.9	-1,289.0	620.4	540.6	79.70	7.783		
11,600.0	7,405.0	7,334.0	7,334.0	73.5	12.8	90.00	4,220.9	-1,289.0	527.2	445.8	81.42	6.475		
11,700.0	7,405.0	7,334.0	7,334.0	75.1	12.8	90.00	4,220.9	-1,289.0	437.1	353.9	83.14	5.257		
11,800.0	7,405.0	7,334.0	7,334.0	76.7	12.8	90.00	4,220.9	-1,289.0	352.4	267.5	84.86	4.152		
11,900.0	7,405.0	7,334.0	7,334.0	78.3	12.8	90.00	4,220.9	-1,289.0	278.0	191.4	86.59	3.210		
12,000.0	7,405.0	7,334.0	7,334.0	80.0	12.8	90.00	4,220.9	-1,289.0	224.4	136.1	88.31	2.541		
12,084.5	7,405.0	7,334.0	7,334.0	81.3	12.8	90.00	4,220.9	-1,289.0	207.9	118.1	89.77	2.316 CC, ES		
12,100.0	7,405.0	7,334.0	7,334.0	81.6	12.8	90.00	4,220.9	-1,289.0	208.5	118.5	90.04	2.316 SF		
12,200.0	7,405.0	7,334.0	7,334.0	83.2	12.8	90.00	4,220.9	-1,289.0	237.9	146.1	91.77	2.592		
12,300.0	7,405.0	7,334.0	7,334.0	84.9	12.8	90.00	4,220.9	-1,289.0	299.5	206.0	93.50	3.203		
12,400.0	7,405.0	7,334.0	7,334.0	86.5	12.8	90.00	4,220.9	-1,289.0	377.9	282.6	95.23	3.968		
12,500.0	7,405.0	7,334.0	7,334.0	88.2	12.8	90.00	4,220.9	-1,289.0	464.6	367.7	96.96	4.792		
12,600.0	7,405.0	7,334.0	7,334.0	89.8	12.8	90.00	4,220.9	-1,289.0	555.9	457.2	98.69	5.633		
12,700.0	7,405.0	7,334.0	7,334.0	91.5	12.8	90.00	4,220.9	-1,289.0	649.7	549.3	100.42	6.470		
12,800.0	7,405.0	7,334.0	7,334.0	93.1	12.8	90.00	4,220.9	-1,289.0	745.1	643.0	102.16	7.294		
12,900.0	7,405.0	7,334.0	7,334.0	94.8	12.8	90.00	4,220.9	-1,289.0	841.6	737.7	103.89	8.101		
13,000.0	7,405.0	7,334.0	7,334.0	96.5	12.8	90.00	4,220.9	-1,289.0	938.8	833.2	105.62	8.888		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 32-26 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8140-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		
9,700.0	7,405.0	7,340.0	7,340.0	45.1	12.8	-90.00	2,743.8	-1,553.4	909.1	859.7	49.35	18.423		
9,800.0	7,405.0	7,340.0	7,340.0	46.4	12.8	-90.00	2,743.8	-1,553.4	809.3	758.3	50.98	15.875		
9,900.0	7,405.0	7,340.0	7,340.0	47.8	12.8	-90.00	2,743.8	-1,553.4	709.6	657.0	52.63	13.483		
10,000.0	7,405.0	7,340.0	7,340.0	49.2	12.8	-90.00	2,743.8	-1,553.4	610.0	555.7	54.28	11.237		
10,100.0	7,405.0	7,340.0	7,340.0	50.6	12.8	-90.00	2,743.8	-1,553.4	510.5	454.5	55.94	9.125		
10,200.0	7,405.0	7,340.0	7,340.0	52.0	12.8	-90.00	2,743.8	-1,553.4	411.2	353.6	57.61	7.138		
10,300.0	7,405.0	7,340.0	7,340.0	53.4	12.8	-90.00	2,743.8	-1,553.4	312.5	253.2	59.29	5.270		
10,400.0	7,405.0	7,340.0	7,340.0	54.9	12.8	-90.00	2,743.8	-1,553.4	214.9	153.9	60.97	3.524		
10,500.0	7,405.0	7,340.0	7,340.0	56.4	12.8	-90.00	2,743.8	-1,553.4	121.3	58.6	62.66	1.936		
10,600.0	7,405.0	7,340.0	7,340.0	57.9	12.8	-90.00	2,743.8	-1,553.4	56.9	-7.4	64.35	0.885 Level 1		
10,607.3	7,405.0	7,340.0	7,340.0	58.0	12.8	-90.00	2,743.8	-1,553.4	56.5	-8.0	64.47	0.876 Level 1, CC, ES, SF		
10,700.0	7,405.0	7,340.0	7,340.0	59.4	12.8	-90.00	2,743.8	-1,553.4	108.5	42.5	66.04	1.643		
10,800.0	7,405.0	7,340.0	7,340.0	60.9	12.8	-90.00	2,743.8	-1,553.4	200.8	133.0	67.74	2.964		
10,900.0	7,405.0	7,340.0	7,340.0	62.5	12.8	-90.00	2,743.8	-1,553.4	298.1	228.6	69.44	4.292		
11,000.0	7,405.0	7,340.0	7,340.0	64.0	12.8	-90.00	2,743.8	-1,553.4	396.7	325.6	71.15	5.576		
11,100.0	7,405.0	7,340.0	7,340.0	65.6	12.8	-90.00	2,743.8	-1,553.4	495.9	423.0	72.86	6.806		
11,200.0	7,405.0	7,340.0	7,340.0	67.1	12.8	-90.00	2,743.8	-1,553.4	595.4	520.8	74.57	7.984		
11,300.0	7,405.0	7,340.0	7,340.0	68.7	12.8	-90.00	2,743.8	-1,553.4	695.0	618.7	76.28	9.111		
11,400.0	7,405.0	7,340.0	7,340.0	70.3	12.8	-90.00	2,743.8	-1,553.4	794.7	716.7	78.00	10.189		
11,500.0	7,405.0	7,340.0	7,340.0	71.9	12.8	-90.00	2,743.8	-1,553.4	894.5	814.7	79.71	11.221		
11,600.0	7,405.0	7,340.0	7,340.0	73.5	12.8	-90.00	2,743.8	-1,553.4	994.3	912.8	81.43	12.210		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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						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		
12,800.0	7,405.0	7,355.9	7,353.5	93.1	6.4	91.31	5,779.0	-1,078.9	940.7	844.9	95.77	9.822		
12,900.0	7,405.0	7,354.2	7,351.9	94.8	6.4	91.08	5,779.1	-1,078.9	852.2	754.7	97.51	8.740		
13,000.0	7,405.0	7,352.6	7,350.2	96.5	6.4	90.85	5,779.1	-1,078.9	766.7	667.4	99.25	7.725		
13,100.0	7,405.0	7,350.9	7,348.6	98.1	6.4	90.63	5,779.1	-1,078.9	685.0	584.0	100.98	6.784		
13,200.0	7,405.0	7,349.2	7,346.9	99.8	6.4	90.39	5,779.2	-1,078.9	608.9	506.1	102.72	5.927		
13,300.0	7,405.0	7,347.5	7,345.2	101.5	6.4	90.16	5,779.2	-1,079.0	540.5	436.1	104.46	5.175		
13,400.0	7,405.0	7,345.8	7,343.5	103.2	6.4	89.93	5,779.2	-1,079.0	483.4	377.2	106.19	4.552		
13,500.0	7,405.0	7,344.0	7,341.7	104.9	6.4	89.69	5,779.3	-1,079.0	441.7	333.8	107.93	4.092		
13,600.0	7,405.0	7,342.3	7,340.0	106.5	6.4	89.45	5,779.3	-1,079.0	420.2	310.5	109.66	3.831		
13,642.8	7,405.0	7,341.5	7,339.2	107.3	6.4	89.35	5,779.3	-1,079.0	418.0	307.6	110.40	3.786	CC, ES, SF	
13,700.0	7,405.0	7,340.5	7,338.2	108.2	6.4	89.21	5,779.3	-1,079.0	421.9	310.5	111.39	3.787		
13,800.0	7,405.0	7,338.8	7,336.4	109.9	6.4	88.96	5,779.3	-1,079.1	446.5	333.4	113.12	3.947		
13,900.0	7,405.0	7,337.0	7,334.6	111.6	6.4	88.72	5,779.4	-1,079.1	490.7	375.9	114.85	4.273		
14,000.0	7,405.0	7,335.2	7,332.8	113.3	6.4	88.47	5,779.4	-1,079.1	549.8	433.2	116.58	4.716		
14,100.0	7,405.0	7,333.3	7,331.0	115.0	6.4	88.22	5,779.4	-1,079.1	619.4	501.1	118.30	5.236		
14,200.0	7,405.0	7,331.5	7,329.2	116.7	6.4	87.97	5,779.5	-1,079.1	696.5	576.4	120.02	5.803		
14,300.0	7,405.0	7,329.6	7,327.3	118.4	6.4	87.71	5,779.5	-1,079.2	778.7	657.0	121.74	6.397		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> S26-T2N-R68W (Sullivan) - GRANT BROTHERS 33-23C (EXISTING) - SUNDANCE WELL - NO SURV												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 8100-Geolink MWD												<b>Offset Well Error:</b>	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
13,600.0	7,405.0	7,320.0	7,320.0	106.5	12.8	90.00	6,694.8	-1,227.1	995.6	879.5	116.02	8.581	
13,700.0	7,405.0	7,320.0	7,320.0	108.2	12.8	90.00	6,694.8	-1,227.1	899.7	781.9	117.76	7.640	
13,800.0	7,405.0	7,320.0	7,320.0	109.9	12.8	90.00	6,694.8	-1,227.1	804.9	685.4	119.50	6.735	
13,900.0	7,405.0	7,320.0	7,320.0	111.6	12.8	90.00	6,694.8	-1,227.1	711.5	590.2	121.24	5.868	
14,000.0	7,405.0	7,320.0	7,320.0	113.3	12.8	90.00	6,694.8	-1,227.1	620.1	497.1	122.98	5.042	
14,100.0	7,405.0	7,320.0	7,320.0	115.0	12.8	90.00	6,694.8	-1,227.1	531.8	407.1	124.73	4.264	
14,200.0	7,405.0	7,320.0	7,320.0	116.7	12.8	90.00	6,694.8	-1,227.1	448.5	322.1	126.47	3.547	
14,300.0	7,405.0	7,320.0	7,320.0	118.4	12.8	90.00	6,694.8	-1,227.1	373.5	245.3	128.21	2.914 CC, ES, SF	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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 (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		
12,400.0	7,405.0	7,326.0	7,326.0	86.5	12.8	90.00	5,418.7	-1,238.9	919.2	824.0	95.21	9.654		
12,500.0	7,405.0	7,326.0	7,326.0	88.2	12.8	90.00	5,418.7	-1,238.9	823.7	726.7	96.94	8.497		
12,600.0	7,405.0	7,326.0	7,326.0	89.8	12.8	90.00	5,418.7	-1,238.9	729.4	630.7	98.67	7.392		
12,700.0	7,405.0	7,326.0	7,326.0	91.5	12.8	90.00	5,418.7	-1,238.9	636.8	536.4	100.41	6.343		
12,800.0	7,405.0	7,326.0	7,326.0	93.1	12.8	90.00	5,418.7	-1,238.9	546.9	444.8	102.14	5.355		
12,900.0	7,405.0	7,326.0	7,326.0	94.8	12.8	90.00	5,418.7	-1,238.9	461.2	357.3	103.88	4.440		
13,000.0	7,405.0	7,326.0	7,326.0	96.5	12.8	90.00	5,418.7	-1,238.9	382.4	276.8	105.61	3.621		
13,100.0	7,405.0	7,326.0	7,326.0	98.1	12.8	90.00	5,418.7	-1,238.9	315.9	208.5	107.35	2.943		
13,200.0	7,405.0	7,326.0	7,326.0	99.8	12.8	90.00	5,418.7	-1,238.9	270.8	161.7	109.08	2.483		
13,282.2	7,405.0	7,326.0	7,326.0	101.2	12.8	90.00	5,418.7	-1,238.9	258.0	147.5	110.51	2.335 CC, ES		
13,300.0	7,405.0	7,326.0	7,326.0	101.5	12.8	90.00	5,418.7	-1,238.9	258.7	147.8	110.82	2.334 SF		
13,400.0	7,405.0	7,326.0	7,326.0	103.2	12.8	90.00	5,418.7	-1,238.9	283.7	171.1	112.56	2.520		
13,500.0	7,405.0	7,326.0	7,326.0	104.9	12.8	90.00	5,418.7	-1,238.9	337.7	223.4	114.30	2.954		
13,600.0	7,405.0	7,326.0	7,326.0	106.5	12.8	90.00	5,418.7	-1,238.9	409.4	293.3	116.03	3.528		
13,700.0	7,405.0	7,326.0	7,326.0	108.2	12.8	90.00	5,418.7	-1,238.9	491.0	373.3	117.77	4.169		
13,800.0	7,405.0	7,326.0	7,326.0	109.9	12.8	90.00	5,418.7	-1,238.9	578.5	459.0	119.51	4.841		
13,900.0	7,405.0	7,326.0	7,326.0	111.6	12.8	90.00	5,418.7	-1,238.9	669.5	548.3	121.25	5.522		
14,000.0	7,405.0	7,326.0	7,326.0	113.3	12.8	90.00	5,418.7	-1,238.9	762.8	639.8	122.99	6.202		
14,100.0	7,405.0	7,326.0	7,326.0	115.0	12.8	90.00	5,418.7	-1,238.9	857.5	732.8	124.74	6.875		
14,200.0	7,405.0	7,326.0	7,326.0	116.7	12.8	90.00	5,418.7	-1,238.9	953.4	826.9	126.48	7.538		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - JOHNSON 1 (EXISTING) - KPK WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5085-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
3,000.0	2,940.5	2,881.5	2,881.5	10.9	5.0	33.78	21.9	-1,465.2	993.3	980.9	12.42	79.958		
3,100.0	3,037.7	2,978.7	2,978.7	11.4	5.2	34.54	21.9	-1,465.2	973.8	960.9	12.96	75.140		
3,200.0	3,135.0	3,076.0	3,076.0	11.8	5.4	35.33	21.9	-1,465.2	954.5	941.0	13.51	70.661		
3,300.0	3,232.2	3,173.2	3,173.2	12.3	5.5	36.15	21.9	-1,465.2	935.4	921.3	14.07	66.491		
3,400.0	3,329.4	3,270.4	3,270.4	12.7	5.7	37.00	21.9	-1,465.2	916.4	901.8	14.64	62.602		
3,500.0	3,426.7	3,367.7	3,367.7	13.2	5.9	37.89	21.9	-1,465.2	897.7	882.5	15.22	58.970		
3,600.0	3,523.9	3,464.9	3,464.9	13.6	6.0	38.81	21.9	-1,465.2	879.2	863.3	15.82	55.576		
3,700.0	3,621.1	3,562.1	3,562.1	14.1	6.2	39.78	21.9	-1,465.2	860.9	844.4	16.43	52.399		
3,800.0	3,718.4	3,659.4	3,659.4	14.5	6.4	40.78	21.9	-1,465.2	842.8	825.8	17.05	49.424		
3,900.0	3,815.6	3,756.6	3,756.6	15.0	6.6	41.83	21.9	-1,465.2	825.1	807.4	17.69	46.636		
4,000.0	3,912.8	3,853.8	3,853.8	15.4	6.7	42.92	21.9	-1,465.2	807.6	789.3	18.35	44.022		
4,100.0	4,010.0	3,951.0	3,951.0	15.9	6.9	44.06	21.9	-1,465.2	790.4	771.4	19.01	41.571		
4,200.0	4,107.3	4,048.3	4,048.3	16.3	7.1	45.25	21.9	-1,465.2	773.6	753.9	19.70	39.271		
4,300.0	4,204.5	4,145.5	4,145.5	16.8	7.2	46.48	21.9	-1,465.2	757.1	736.7	20.40	37.114		
4,400.0	4,301.7	4,242.7	4,242.7	17.3	7.4	47.77	21.9	-1,465.2	740.9	719.8	21.11	35.091		
4,500.0	4,399.0	4,340.0	4,340.0	17.7	7.6	49.12	21.9	-1,465.2	725.2	703.3	21.85	33.194		
4,600.0	4,496.2	4,437.2	4,437.2	18.2	7.7	50.52	21.9	-1,465.2	709.9	687.3	22.60	31.417		
4,700.0	4,593.4	4,534.4	4,534.4	18.6	7.9	51.98	21.9	-1,465.2	695.0	671.6	23.36	29.753		
4,800.0	4,690.7	4,631.7	4,631.7	19.1	8.1	53.51	21.9	-1,465.2	680.6	656.5	24.14	28.196		
4,900.0	4,787.9	4,728.9	4,728.9	19.5	8.3	55.09	21.9	-1,465.2	666.7	641.8	24.93	26.742		
5,000.0	4,885.1	4,826.1	4,826.1	20.0	8.4	56.74	21.9	-1,465.2	653.4	627.6	25.74	25.386		
5,100.0	4,982.4	4,923.4	4,923.4	20.4	8.6	58.45	21.9	-1,465.2	640.6	614.0	26.56	24.123		
5,200.0	5,079.6	5,020.6	5,020.6	20.9	8.8	60.23	21.9	-1,465.2	628.4	601.0	27.38	22.949		
5,300.0	5,176.8	5,085.0	5,085.0	21.3	8.9	61.44	21.9	-1,465.2	617.8	589.7	28.07	22.006		
5,337.1	5,212.9	5,085.0	5,085.0	21.5	8.9	61.44	21.9	-1,465.2	616.7	588.4	28.22	21.849 CC, ES		
5,400.0	5,274.1	5,085.0	5,085.0	21.8	8.9	61.44	21.9	-1,465.2	619.9	591.4	28.48	21.766 SF		
5,500.0	5,371.3	5,085.0	5,085.0	22.2	8.9	61.44	21.9	-1,465.2	637.8	608.9	28.89	22.082		
5,600.0	5,468.5	5,085.0	5,085.0	22.7	8.9	61.44	21.9	-1,465.2	670.4	641.1	29.29	22.887		
5,700.0	5,565.8	5,085.0	5,085.0	23.1	8.9	61.44	21.9	-1,465.2	715.5	685.8	29.70	24.095		
5,800.0	5,663.0	5,085.0	5,085.0	23.6	8.9	61.44	21.9	-1,465.2	771.1	741.0	30.10	25.616		
5,900.0	5,760.2	5,085.0	5,085.0	24.0	8.9	61.44	21.9	-1,465.2	835.0	804.5	30.51	27.369		
6,000.0	5,857.5	5,085.0	5,085.0	24.5	8.9	61.44	21.9	-1,465.2	905.4	874.5	30.91	29.288		
6,100.0	5,954.7	5,085.0	5,085.0	24.9	8.9	61.44	21.9	-1,465.2	981.0	949.7	31.32	31.322		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	13.38	92.9	22.1	102.4					
100.0	100.0	63.0	63.0	0.1	0.1	13.38	92.9	22.1	95.5	95.3	0.23	417.311		
200.0	200.0	163.0	163.0	0.3	0.3	13.38	92.9	22.1	95.5	94.9	0.58	165.247		
300.0	300.0	263.0	263.0	0.5	0.5	13.38	92.9	22.1	95.5	94.6	0.93	103.020		
400.0	400.0	363.0	363.0	0.6	0.6	13.38	92.9	22.1	95.5	94.2	1.28	74.839 CC, ES		
500.0	500.0	463.0	463.0	0.8	0.8	125.06	92.9	22.1	96.5	94.9	1.63	59.327		
600.0	599.8	562.8	562.8	1.0	1.0	127.47	92.9	22.1	99.6	97.6	1.98	50.210		
700.0	699.5	662.5	662.5	1.2	1.2	131.15	92.9	22.1	105.1	102.8	2.35	44.706		
800.0	798.7	761.7	761.7	1.5	1.3	135.65	92.9	22.1	113.5	110.8	2.73	41.595		
900.0	897.5	860.5	860.5	1.8	1.5	140.48	92.9	22.1	125.3	122.1	3.11	40.246 SF		
1,000.0	995.6	958.6	958.6	2.1	1.7	145.23	92.9	22.1	140.6	137.1	3.49	40.261		
1,100.0	1,093.1	1,056.1	1,056.1	2.5	1.8	149.65	92.9	22.1	159.6	155.7	3.86	41.330		
1,200.0	1,190.3	1,153.3	1,153.3	2.9	2.0	153.38	92.9	22.1	180.3	176.1	4.22	42.682		
1,300.0	1,287.5	1,250.5	1,250.5	3.4	2.2	156.35	92.9	22.1	201.5	197.0	4.58	44.030		
1,400.0	1,384.8	1,347.8	1,347.8	3.8	2.4	158.74	92.9	22.1	223.2	218.3	4.93	45.323		
1,500.0	1,482.0	1,445.0	1,445.0	4.2	2.5	160.72	92.9	22.1	245.2	239.9	5.27	46.539		
1,600.0	1,579.2	1,542.2	1,542.2	4.7	2.7	162.37	92.9	22.1	267.4	261.8	5.61	47.669		
1,700.0	1,676.5	1,639.5	1,639.5	5.1	2.9	163.76	92.9	22.1	289.8	283.9	5.95	48.713		
1,800.0	1,773.7	1,736.7	1,736.7	5.6	3.0	164.96	92.9	22.1	312.4	306.1	6.29	49.676		
1,900.0	1,870.9	1,833.9	1,833.9	6.0	3.2	165.99	92.9	22.1	335.0	328.4	6.63	50.562		
2,000.0	1,968.2	1,931.2	1,931.2	6.4	3.4	166.90	92.9	22.1	357.8	350.8	6.96	51.379		
2,100.0	2,065.4	2,028.4	2,028.4	6.9	3.5	167.70	92.9	22.1	380.6	373.3	7.30	52.132		
2,200.0	2,162.6	2,125.6	2,125.6	7.3	3.7	168.40	92.9	22.1	403.5	395.9	7.64	52.827		
2,300.0	2,259.9	2,222.9	2,222.9	7.8	3.9	169.03	92.9	22.1	426.4	418.5	7.98	53.470		
2,400.0	2,357.1	2,320.1	2,320.1	8.2	4.0	169.60	92.9	22.1	449.4	441.1	8.31	54.066		
2,500.0	2,454.3	2,417.3	2,417.3	8.7	4.2	170.11	92.9	22.1	472.4	463.8	8.65	54.618		
2,600.0	2,551.6	2,514.6	2,514.6	9.1	4.4	170.57	92.9	22.1	495.5	486.5	8.99	55.132		
2,700.0	2,648.8	2,611.8	2,611.8	9.6	4.6	171.00	92.9	22.1	518.6	509.2	9.32	55.611		
2,800.0	2,746.0	2,709.0	2,709.0	10.0	4.7	171.38	92.9	22.1	541.7	532.0	9.66	56.059		
2,900.0	2,843.3	2,806.3	2,806.3	10.5	4.9	171.74	92.9	22.1	564.8	554.8	10.00	56.477		
3,000.0	2,940.5	2,903.5	2,903.5	10.9	5.1	172.06	92.9	22.1	587.9	577.6	10.34	56.869		
3,100.0	3,037.7	3,000.7	3,000.7	11.4	5.2	172.37	92.9	22.1	611.1	600.4	10.68	57.236		
3,200.0	3,135.0	3,098.0	3,098.0	11.8	5.4	172.65	92.9	22.1	634.3	623.3	11.02	57.582		
3,300.0	3,232.2	3,195.2	3,195.2	12.3	5.6	172.91	92.9	22.1	657.5	646.1	11.35	57.907		
3,400.0	3,329.4	3,292.4	3,292.4	12.7	5.7	173.15	92.9	22.1	680.7	669.0	11.69	58.214		
3,500.0	3,426.7	3,389.7	3,389.7	13.2	5.9	173.38	92.9	22.1	703.9	691.8	12.03	58.504		
3,600.0	3,523.9	3,486.9	3,486.9	13.6	6.1	173.59	92.9	22.1	727.1	714.7	12.37	58.778		
3,700.0	3,621.1	3,584.1	3,584.1	14.1	6.3	173.79	92.9	22.1	750.3	737.6	12.71	59.037		
3,800.0	3,718.4	3,681.4	3,681.4	14.5	6.4	173.98	92.9	22.1	773.6	760.5	13.05	59.284		
3,900.0	3,815.6	3,778.6	3,778.6	15.0	6.6	174.15	92.9	22.1	796.8	783.4	13.39	59.517		
4,000.0	3,912.8	3,875.8	3,875.8	15.4	6.8	174.32	92.9	22.1	820.1	806.3	13.73	59.739		
4,100.0	4,010.0	3,973.0	3,973.0	15.9	6.9	174.48	92.9	22.1	843.3	829.3	14.07	59.951		
4,200.0	4,107.3	4,070.3	4,070.3	16.3	7.1	174.62	92.9	22.1	866.6	852.2	14.41	60.152		
4,300.0	4,204.5	4,167.5	4,167.5	16.8	7.3	174.76	92.9	22.1	889.9	875.1	14.75	60.344		
4,400.0	4,301.7	4,264.7	4,264.7	17.3	7.4	174.90	92.9	22.1	913.1	898.1	15.09	60.527		
4,500.0	4,399.0	4,362.0	4,362.0	17.7	7.6	175.03	92.9	22.1	936.4	921.0	15.43	60.703		
4,600.0	4,496.2	4,459.2	4,459.2	18.2	7.8	175.15	92.9	22.1	959.7	943.9	15.77	60.870		
4,700.0	4,593.4	4,556.4	4,556.4	18.6	8.0	175.26	92.9	22.1	983.0	966.9	16.11	61.031		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 33-26 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8170-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,300.0	7,405.0	7,348.0	7,348.0	31.4	12.8	-90.00	1,401.4	-1,617.6	972.5	943.2	29.26	33.238		
8,400.0	7,405.0	7,348.0	7,348.0	31.9	12.8	-90.00	1,401.4	-1,617.6	873.3	843.0	30.32	28.803		
8,500.0	7,405.0	7,348.0	7,348.0	32.6	12.8	-90.00	1,401.4	-1,617.6	774.4	742.9	31.49	24.594		
8,600.0	7,405.0	7,348.0	7,348.0	33.3	12.8	-90.00	1,401.4	-1,617.6	675.8	643.1	32.74	20.641		
8,700.0	7,405.0	7,348.0	7,348.0	34.1	12.8	-90.00	1,401.4	-1,617.6	577.7	543.6	34.07	16.958		
8,800.0	7,405.0	7,348.0	7,348.0	34.9	12.8	-90.00	1,401.4	-1,617.6	480.4	444.9	35.45	13.551		
8,900.0	7,405.0	7,348.0	7,348.0	35.9	12.8	-90.00	1,401.4	-1,617.6	384.4	347.5	36.88	10.422		
9,000.0	7,405.0	7,348.0	7,348.0	36.8	12.8	-90.00	1,401.4	-1,617.6	291.1	252.8	38.35	7.591		
9,100.0	7,405.0	7,348.0	7,348.0	37.9	12.8	-90.00	1,401.4	-1,617.6	204.4	164.5	39.86	5.127		
9,200.0	7,405.0	7,348.0	7,348.0	39.0	12.8	-90.00	1,401.4	-1,617.6	137.0	95.6	41.39	3.310		
9,265.0	7,405.0	7,348.0	7,348.0	39.7	12.8	-90.00	1,401.4	-1,617.6	120.6	78.2	42.40	2.844	CC, ES, SF	
9,300.0	7,405.0	7,348.0	7,348.0	40.1	12.8	-90.00	1,401.4	-1,617.6	125.6	82.6	42.95	2.924		
9,400.0	7,405.0	7,348.0	7,348.0	41.3	12.8	-90.00	1,401.4	-1,617.6	181.1	136.5	44.53	4.066		
9,500.0	7,405.0	7,348.0	7,348.0	42.5	12.8	-90.00	1,401.4	-1,617.6	264.2	218.0	46.12	5.727		
9,600.0	7,405.0	7,348.0	7,348.0	43.8	12.8	-90.00	1,401.4	-1,617.6	356.1	308.3	47.74	7.460		
9,700.0	7,405.0	7,348.0	7,348.0	45.1	12.8	-90.00	1,401.4	-1,617.6	451.4	402.1	49.36	9.146		
9,800.0	7,405.0	7,348.0	7,348.0	46.4	12.8	-90.00	1,401.4	-1,617.6	548.5	497.5	51.00	10.755		
9,900.0	7,405.0	7,348.0	7,348.0	47.8	12.8	-90.00	1,401.4	-1,617.6	646.4	593.7	52.64	12.279		
10,000.0	7,405.0	7,348.0	7,348.0	49.2	12.8	-90.00	1,401.4	-1,617.6	744.9	690.6	54.30	13.719		
10,100.0	7,405.0	7,348.0	7,348.0	50.6	12.8	-90.00	1,401.4	-1,617.6	843.7	787.7	55.96	15.077		
10,200.0	7,405.0	7,348.0	7,348.0	52.0	12.8	-90.00	1,401.4	-1,617.6	942.8	885.2	57.63	16.360		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 34-26 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
4,500.0	4,399.0	4,317.4	4,310.4	17.7	8.1	33.20	-109.1	-1,791.7	991.4	971.8	19.65	50.462		
4,600.0	4,496.2	4,415.5	4,408.5	18.2	8.2	33.92	-109.0	-1,794.7	974.8	954.6	20.22	48.204		
4,700.0	4,593.4	4,514.9	4,507.9	18.6	8.4	34.70	-108.5	-1,797.6	958.3	937.5	20.82	46.036		
4,800.0	4,690.7	4,611.7	4,604.6	19.1	8.6	35.48	-108.1	-1,800.4	941.9	920.5	21.42	43.982		
4,900.0	4,787.9	4,709.4	4,702.3	19.5	8.7	36.29	-107.6	-1,803.4	925.8	903.8	22.03	42.027		
5,000.0	4,885.1	4,823.4	4,816.3	20.0	8.9	37.28	-107.3	-1,805.7	908.9	886.2	22.71	40.019		
5,100.0	4,982.4	4,930.0	4,922.8	20.4	9.1	38.27	-107.1	-1,806.3	890.9	867.5	23.39	38.089		
5,200.0	5,079.6	5,030.5	5,023.3	20.9	9.2	39.24	-107.1	-1,806.3	872.4	848.3	24.06	36.255		
5,300.0	5,176.8	5,126.5	5,119.3	21.3	9.4	40.20	-107.2	-1,806.2	854.1	829.3	24.74	34.529		
5,400.0	5,274.1	5,223.8	5,216.7	21.8	9.6	41.20	-107.6	-1,806.3	836.2	810.8	25.43	32.885		
5,500.0	5,371.3	5,326.6	5,319.4	22.2	9.8	42.23	-109.0	-1,806.3	818.1	791.9	26.15	31.286		
5,600.0	5,468.5	5,423.0	5,415.9	22.7	9.9	43.26	-110.3	-1,806.0	799.9	773.0	26.86	29.780		
5,700.0	5,565.8	5,514.1	5,506.9	23.1	10.1	44.33	-110.5	-1,805.9	782.6	755.0	27.58	28.379		
5,800.0	5,663.0	5,610.2	5,603.0	23.6	10.2	45.49	-110.8	-1,806.2	766.0	737.7	28.33	27.038		
5,900.0	5,760.2	5,710.2	5,703.0	24.0	10.4	46.72	-111.5	-1,806.6	749.7	720.5	29.11	25.750		
6,000.0	5,857.5	5,812.2	5,805.0	24.5	10.6	48.07	-112.0	-1,806.3	733.1	703.2	29.93	24.495		
6,100.0	5,954.7	5,904.9	5,897.7	24.9	10.7	49.36	-112.4	-1,806.0	717.0	686.2	30.72	23.338		
6,200.0	6,051.9	5,993.7	5,986.5	25.4	10.9	50.61	-112.7	-1,806.6	702.2	670.6	31.51	22.286		
6,300.0	6,149.2	6,092.9	6,085.7	25.8	11.1	52.04	-112.9	-1,807.9	688.3	655.9	32.35	21.273		
6,400.0	6,246.4	6,186.4	6,179.2	26.3	11.2	53.48	-112.8	-1,808.9	674.9	641.7	33.19	20.334		
6,500.0	6,343.6	6,279.9	6,272.7	26.7	11.4	55.04	-111.7	-1,810.1	662.7	628.7	34.05	19.460		
6,600.0	6,440.9	6,377.5	6,370.3	27.2	11.5	56.77	-109.9	-1,811.2	651.4	616.4	34.96	18.633		
6,700.0	6,538.1	6,475.5	6,468.3	27.6	11.7	58.60	-107.9	-1,812.0	640.6	604.7	35.88	17.853		
6,800.0	6,635.3	6,573.4	6,566.1	28.1	11.8	60.49	-105.8	-1,812.7	630.3	593.5	36.81	17.123		
6,900.0	6,732.6	6,672.5	6,665.1	28.5	12.0	62.50	-103.6	-1,813.0	620.6	582.9	37.75	16.438		
7,000.0	6,829.8	6,771.8	6,764.5	29.0	12.2	64.65	-101.8	-1,813.1	610.8	572.2	38.56	15.840		
7,100.0	6,927.1	6,868.8	6,861.5	29.3	12.3	66.82	-100.5	-1,813.4	592.1	553.8	38.25	15.479		
7,200.0	7,021.9	6,964.2	6,956.9	29.6	12.5	69.02	-99.1	-1,813.8	562.0	525.2	36.79	15.276		
7,300.0	7,111.4	7,053.0	7,045.6	29.7	12.6	71.24	-97.7	-1,814.1	521.4	487.0	34.31	15.197		
7,400.0	7,192.8	7,134.3	7,126.9	29.8	12.7	73.48	-96.3	-1,814.7	472.8	441.7	31.19	15.159		
7,500.0	7,263.7	7,206.8	7,199.5	29.9	12.9	75.75	-95.3	-1,815.4	420.3	392.0	28.31	14.846		
7,600.0	7,321.8	7,267.3	7,259.9	29.9	13.0	77.62	-94.4	-1,815.7	370.7	343.9	26.75	13.854		
7,700.0	7,365.6	7,313.2	7,305.8	30.0	13.0	79.76	-93.5	-1,815.8	334.1	307.6	26.46	12.626		
7,785.7	7,390.5	7,339.4	7,332.0	30.0	13.1	81.91	-93.0	-1,815.9	322.6	296.0	26.53	12.157	CC, ES, SF	
7,800.0	7,393.5	7,342.6	7,335.2	30.0	13.1	83.50	-92.9	-1,815.9	322.9	296.4	26.53	12.171		
7,900.0	7,404.8	7,355.6	7,348.2	30.1	13.1	85.90	-92.7	-1,815.9	344.2	317.4	26.77	12.855		
8,000.0	7,405.0	7,357.8	7,350.4	30.3	13.1	88.61	-92.6	-1,815.9	392.7	365.5	27.19	14.445		
8,100.0	7,405.0	7,359.7	7,352.3	30.6	13.1	90.96	-92.6	-1,815.9	458.3	430.5	27.79	16.492		
8,200.0	7,405.0	7,361.7	7,354.3	30.9	13.1	91.30	-92.5	-1,815.9	534.7	506.1	28.57	18.715		
8,300.0	7,405.0	7,363.6	7,356.2	31.4	13.1	91.65	-92.5	-1,815.9	617.8	588.3	29.50	20.943		
8,400.0	7,405.0	7,365.5	7,358.1	31.9	13.1	92.00	-92.5	-1,816.0	705.3	674.7	30.55	23.084		
8,500.0	7,405.0	7,367.5	7,360.0	32.6	13.1	92.34	-92.4	-1,816.0	795.8	764.0	31.71	25.093		
8,600.0	7,405.0	7,369.4	7,362.0	33.3	13.1	92.69	-92.4	-1,816.0	888.3	855.3	32.96	26.951		
8,700.0	7,405.0	7,371.3	7,363.9	34.1	13.1	93.03	-92.3	-1,816.0	982.2	948.0	34.27	28.659		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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)	
0.0	0.0	0.0	0.0	0.0	0.0	114.33	-14.9	33.0	50.4					
100.0	100.0	65.0	65.0	0.1	0.1	114.33	-14.9	33.0	36.2	36.0	0.23	155.920		
200.0	200.0	165.0	165.0	0.3	0.3	114.33	-14.9	33.0	36.2	35.6	0.58	62.307		
300.0	300.0	265.0	265.0	0.5	0.5	114.33	-14.9	33.0	36.2	35.3	0.93	38.932		
400.0	400.0	365.0	365.0	0.6	0.6	114.33	-14.9	33.0	36.2	34.9	1.28	28.311 CC, ES		
500.0	500.0	465.0	465.0	0.8	0.8	-136.71	-14.9	33.0	37.5	35.8	1.63	23.001		
600.0	599.8	564.8	564.8	1.0	1.0	-141.63	-14.9	33.0	41.4	39.5	1.98	20.907		
700.0	699.5	664.5	664.5	1.2	1.2	-147.94	-14.9	33.0	48.6	46.2	2.34	20.789 SF		
800.0	798.7	763.7	763.7	1.5	1.3	-154.10	-14.9	33.0	59.3	56.6	2.69	22.045		
900.0	897.5	862.5	862.5	1.8	1.5	-159.31	-14.9	33.0	73.7	70.7	3.03	24.281		
1,000.0	995.6	960.6	960.6	2.1	1.7	-163.41	-14.9	33.0	91.8	88.4	3.37	27.219		
1,100.0	1,093.1	1,058.1	1,058.1	2.5	1.8	-166.56	-14.9	33.0	113.5	109.8	3.71	30.612		
1,200.0	1,190.3	1,155.3	1,155.3	2.9	2.0	-168.84	-14.9	33.0	136.3	132.3	4.05	33.675		
1,300.0	1,287.5	1,252.5	1,252.5	3.4	2.2	-170.46	-14.9	33.0	159.3	155.0	4.39	36.298		
1,400.0	1,384.8	1,349.8	1,349.8	3.8	2.4	-171.68	-14.9	33.0	182.4	177.7	4.73	38.563		
1,500.0	1,482.0	1,447.0	1,447.0	4.2	2.5	-172.62	-14.9	33.0	205.6	200.5	5.07	40.537		
1,600.0	1,579.2	1,544.2	1,544.2	4.7	2.7	-173.37	-14.9	33.0	228.8	223.4	5.41	42.269		
1,700.0	1,676.5	1,641.5	1,641.5	5.1	2.9	-173.98	-14.9	33.0	252.0	246.3	5.75	43.801		
1,800.0	1,773.7	1,738.7	1,738.7	5.6	3.0	-174.49	-14.9	33.0	275.3	269.2	6.10	45.164		
1,900.0	1,870.9	1,835.9	1,835.9	6.0	3.2	-174.92	-14.9	33.0	298.6	292.1	6.44	46.385		
2,000.0	1,968.2	1,933.2	1,933.2	6.4	3.4	-175.29	-14.9	33.0	321.8	315.1	6.78	47.485		
2,100.0	2,065.4	2,030.4	2,030.4	6.9	3.5	-175.61	-14.9	33.0	345.1	338.0	7.12	48.481		
2,200.0	2,162.6	2,127.6	2,127.6	7.3	3.7	-175.89	-14.9	33.0	368.4	361.0	7.46	49.386		
2,300.0	2,259.9	2,224.9	2,224.9	7.8	3.9	-176.13	-14.9	33.0	391.8	383.9	7.80	50.212		
2,400.0	2,357.1	2,322.1	2,322.1	8.2	4.1	-176.35	-14.9	33.0	415.1	406.9	8.14	50.969		
2,500.0	2,454.3	2,419.3	2,419.3	8.7	4.2	-176.55	-14.9	33.0	438.4	429.9	8.49	51.666		
2,600.0	2,551.6	2,516.6	2,516.6	9.1	4.4	-176.72	-14.9	33.0	461.7	452.9	8.83	52.309		
2,700.0	2,648.8	2,613.8	2,613.8	9.6	4.6	-176.88	-14.9	33.0	485.0	475.9	9.17	52.905		
2,800.0	2,746.0	2,711.0	2,711.0	10.0	4.7	-177.02	-14.9	33.0	508.4	498.9	9.51	53.457		
2,900.0	2,843.3	2,808.3	2,808.3	10.5	4.9	-177.15	-14.9	33.0	531.7	521.9	9.85	53.972		
3,000.0	2,940.5	2,905.5	2,905.5	10.9	5.1	-177.27	-14.9	33.0	555.1	544.9	10.19	54.452		
3,100.0	3,037.7	3,002.7	3,002.7	11.4	5.2	-177.38	-14.9	33.0	578.4	567.9	10.54	54.901		
3,200.0	3,135.0	3,100.0	3,100.0	11.8	5.4	-177.48	-14.9	33.0	601.7	590.9	10.88	55.321		
3,300.0	3,232.2	3,197.2	3,197.2	12.3	5.6	-177.58	-14.9	33.0	625.1	613.9	11.22	55.716		
3,400.0	3,329.4	3,294.4	3,294.4	12.7	5.7	-177.67	-14.9	33.0	648.4	636.9	11.56	56.088		
3,500.0	3,426.7	3,391.7	3,391.7	13.2	5.9	-177.75	-14.9	33.0	671.8	659.9	11.90	56.439		
3,600.0	3,523.9	3,488.9	3,488.9	13.6	6.1	-177.82	-14.9	33.0	695.1	682.9	12.24	56.769		
3,700.0	3,621.1	3,586.1	3,586.1	14.1	6.3	-177.89	-14.9	33.0	718.5	705.9	12.59	57.082		
3,800.0	3,718.4	3,683.4	3,683.4	14.5	6.4	-177.96	-14.9	33.0	741.8	728.9	12.93	57.379		
3,900.0	3,815.6	3,780.6	3,780.6	15.0	6.6	-178.02	-14.9	33.0	765.2	751.9	13.27	57.660		
4,000.0	3,912.8	3,877.8	3,877.8	15.4	6.8	-178.08	-14.9	33.0	788.5	774.9	13.61	57.927		
4,100.0	4,010.0	3,975.0	3,975.0	15.9	6.9	-178.14	-14.9	33.0	811.9	797.9	13.95	58.180		
4,200.0	4,107.3	4,072.3	4,072.3	16.3	7.1	-178.19	-14.9	33.0	835.2	820.9	14.30	58.422		
4,300.0	4,204.5	4,169.5	4,169.5	16.8	7.3	-178.24	-14.9	33.0	858.6	843.9	14.64	58.652		
4,400.0	4,301.7	4,266.7	4,266.7	17.3	7.4	-178.28	-14.9	33.0	881.9	867.0	14.98	58.872		
4,500.0	4,399.0	4,364.0	4,364.0	17.7	7.6	-178.33	-14.9	33.0	905.3	890.0	15.32	59.082		
4,600.0	4,496.2	4,461.2	4,461.2	18.2	7.8	-178.37	-14.9	33.0	928.6	913.0	15.66	59.283		
4,700.0	4,593.4	4,558.4	4,558.4	18.6	8.0	-178.41	-14.9	33.0	952.0	936.0	16.01	59.475		
4,800.0	4,690.7	4,655.7	4,655.7	19.1	8.1	-178.45	-14.9	33.0	975.4	959.0	16.35	59.660		
4,900.0	4,787.9	4,752.9	4,752.9	19.5	8.3	-178.48	-14.9	33.0	998.7	982.0	16.69	59.836		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 4-6-26 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 74-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
7,800.0	7,393.5	7,415.9	7,343.5	30.0	18.4	-65.43	753.1	-1,908.5	914.9	884.4	30.54	29.960		
7,900.0	7,404.8	7,428.4	7,356.0	30.1	18.4	-86.18	753.3	-1,908.4	826.5	794.5	32.08	25.767		
8,000.0	7,405.0	7,429.9	7,357.5	30.3	18.4	-89.22	753.3	-1,908.4	741.5	709.0	32.43	22.863		
8,100.0	7,405.0	7,431.2	7,358.8	30.6	18.4	-89.39	753.3	-1,908.4	660.6	627.6	33.04	19.995		
8,200.0	7,405.0	7,432.5	7,360.0	30.9	18.4	-89.57	753.3	-1,908.4	585.7	551.9	33.82	17.317		
8,300.0	7,405.0	7,433.7	7,361.3	31.4	18.4	-89.75	753.3	-1,908.4	519.3	484.5	34.75	14.942		
8,400.0	7,405.0	7,435.0	7,362.6	31.9	18.4	-89.93	753.4	-1,908.4	465.1	429.2	35.81	12.985		
8,500.0	7,405.0	7,436.3	7,363.9	32.6	18.4	-90.11	753.4	-1,908.3	427.7	390.7	36.98	11.565		
8,600.0	7,405.0	7,437.6	7,365.1	33.3	18.4	-90.28	753.4	-1,908.3	411.7	373.5	38.23	10.770		
8,616.9	7,405.0	7,437.8	7,365.4	33.4	18.4	-90.31	753.4	-1,908.3	411.4	372.9	38.45	10.698 CC, ES		
8,700.0	7,405.0	7,438.9	7,366.4	34.1	18.4	-90.46	753.4	-1,908.3	419.7	380.1	39.55	10.611 SF		
8,800.0	7,405.0	7,440.1	7,367.7	34.9	18.4	-90.64	753.4	-1,908.3	450.3	409.3	40.93	11.000		
8,900.0	7,405.0	7,441.4	7,369.0	35.9	18.4	-90.82	753.4	-1,908.3	499.4	457.0	42.36	11.788		
9,000.0	7,405.0	7,442.7	7,370.3	36.8	18.4	-91.00	753.5	-1,908.3	562.1	518.3	43.83	12.824		
9,100.0	7,405.0	7,444.0	7,371.6	37.9	18.4	-91.18	753.5	-1,908.3	634.5	589.1	45.33	13.996		
9,200.0	7,405.0	7,445.3	7,372.8	39.0	18.4	-91.36	753.5	-1,908.3	713.6	666.7	46.86	15.226		
9,300.0	7,405.0	7,446.5	7,374.1	40.1	18.4	-91.53	753.5	-1,908.3	797.3	748.9	48.42	16.468		
9,400.0	7,405.0	7,447.8	7,375.4	41.3	18.4	-91.71	753.5	-1,908.3	884.5	834.5	49.99	17.693		
9,500.0	7,405.0	7,449.1	7,376.7	42.5	18.5	-91.89	753.5	-1,908.3	974.1	922.5	51.58	18.885		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4A-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	-20.1	20.2					
100.0	100.0	99.0	99.0	0.1	0.1	-89.95	0.0	-20.1	20.1	19.9	0.24	85.276		
200.0	200.0	199.0	199.0	0.3	0.3	-89.95	0.0	-20.1	20.1	19.6	0.58	34.447	CC, ES	
300.0	300.0	298.3	298.3	0.5	0.5	-91.20	-0.5	-21.8	21.8	20.8	0.94	23.287		
400.0	400.0	397.4	397.2	0.6	0.7	-94.06	-1.9	-26.7	26.8	25.5	1.30	20.645		
500.0	500.0	496.1	495.6	0.8	0.9	14.49	-4.3	-34.8	33.6	31.9	1.63	20.595		
600.0	599.8	594.6	593.4	1.0	1.1	13.37	-7.6	-46.2	40.4	38.4	1.98	20.408		
700.0	699.5	692.9	690.5	1.2	1.5	12.89	-11.9	-60.7	47.2	44.8	2.33	20.269		
800.0	798.7	790.9	786.8	1.5	1.8	12.82	-17.1	-78.4	54.0	51.3	2.68	20.142		
900.0	897.5	888.8	882.2	1.8	2.2	13.01	-23.2	-99.2	60.8	57.7	3.04	20.004		
1,000.0	995.6	986.4	976.6	2.1	2.7	13.39	-30.1	-123.1	67.5	64.1	3.40	19.841		
1,100.0	1,093.1	1,085.4	1,071.6	2.5	3.2	14.00	-38.0	-149.7	73.6	69.8	3.78	19.439		
1,200.0	1,190.3	1,185.3	1,167.5	2.9	3.7	14.70	-45.9	-176.7	78.9	74.7	4.19	18.829		
1,300.0	1,287.5	1,285.2	1,263.3	3.4	4.3	15.31	-53.8	-203.7	84.2	79.6	4.60	18.295		
1,400.0	1,384.8	1,385.0	1,359.1	3.8	4.8	15.85	-61.7	-230.7	89.5	84.5	5.02	17.823		
1,500.0	1,482.0	1,484.9	1,454.9	4.2	5.3	16.32	-69.6	-257.7	94.8	89.4	5.45	17.404		
1,600.0	1,579.2	1,584.7	1,550.7	4.7	5.9	16.75	-77.5	-284.7	100.1	94.2	5.88	17.029		
1,700.0	1,676.5	1,684.6	1,646.5	5.1	6.4	17.13	-85.4	-311.7	105.5	99.1	6.32	16.691		
1,800.0	1,773.7	1,784.4	1,742.3	5.6	6.9	17.48	-93.4	-338.7	110.8	104.0	6.76	16.387		
1,900.0	1,870.9	1,884.3	1,838.1	6.0	7.5	17.79	-101.3	-365.7	116.1	108.9	7.21	16.112		
2,000.0	1,968.2	1,984.1	1,933.9	6.4	8.0	18.08	-109.2	-392.7	121.5	113.8	7.66	15.861		
2,100.0	2,065.4	2,084.0	2,029.7	6.9	8.5	18.34	-117.1	-419.7	126.8	118.7	8.11	15.632		
2,200.0	2,162.6	2,183.9	2,125.5	7.3	9.1	18.59	-125.0	-446.7	132.2	123.6	8.57	15.423		
2,300.0	2,259.9	2,283.7	2,221.3	7.8	9.6	18.81	-132.9	-473.7	137.5	128.5	9.03	15.230		
2,400.0	2,357.1	2,383.6	2,317.2	8.2	10.1	19.02	-140.8	-500.7	142.9	133.4	9.49	15.053		
2,500.0	2,454.3	2,483.4	2,413.0	8.7	10.7	19.21	-148.8	-527.7	148.2	138.3	9.95	14.889		
2,600.0	2,551.6	2,583.3	2,508.8	9.1	11.2	19.38	-156.7	-554.7	153.6	143.1	10.42	14.737		
2,700.0	2,648.8	2,683.1	2,604.6	9.6	11.7	19.55	-164.6	-581.7	158.9	148.0	10.89	14.596		
2,800.0	2,746.0	2,783.0	2,700.4	10.0	12.3	19.71	-172.5	-608.7	164.3	152.9	11.36	14.464		
2,900.0	2,843.3	2,882.8	2,796.2	10.5	12.8	19.85	-180.4	-635.7	169.6	157.8	11.83	14.342		
3,000.0	2,940.5	2,982.7	2,892.0	10.9	13.3	19.99	-188.3	-662.7	175.0	162.7	12.30	14.227		
3,100.0	3,037.7	3,082.6	2,987.8	11.4	13.9	20.12	-196.2	-689.8	180.3	167.6	12.77	14.120		
3,200.0	3,135.0	3,182.4	3,083.6	11.8	14.4	20.24	-204.1	-716.8	185.7	172.5	13.25	14.019		
3,300.0	3,232.2	3,282.3	3,179.4	12.3	15.0	20.35	-212.1	-743.8	191.1	177.3	13.72	13.924		
3,400.0	3,329.4	3,382.1	3,275.2	12.7	15.5	20.46	-220.0	-770.8	196.4	182.2	14.20	13.835		
3,500.0	3,426.7	3,482.0	3,371.1	13.2	16.0	20.56	-227.9	-797.8	201.8	187.1	14.68	13.750		
3,600.0	3,523.9	3,581.8	3,466.9	13.6	16.6	20.66	-235.8	-824.8	207.2	192.0	15.15	13.671		
3,700.0	3,621.1	3,681.7	3,562.7	14.1	17.1	20.75	-243.7	-851.8	212.5	196.9	15.63	13.595		
3,800.0	3,718.4	3,781.5	3,658.5	14.5	17.6	20.84	-251.6	-878.8	217.9	201.8	16.11	13.524		
3,900.0	3,815.6	3,881.4	3,754.3	15.0	18.2	20.92	-259.5	-905.8	223.2	206.7	16.59	13.456		
4,000.0	3,912.8	3,981.3	3,850.1	15.4	18.7	21.00	-267.5	-932.8	228.6	211.5	17.07	13.392		
4,100.0	4,010.0	4,081.1	3,945.9	15.9	19.3	21.08	-275.4	-959.8	234.0	216.4	17.55	13.331		
4,200.0	4,107.3	4,181.0	4,041.7	16.3	19.8	21.15	-283.3	-986.8	239.3	221.3	18.03	13.272		
4,300.0	4,204.5	4,280.8	4,137.5	16.8	20.3	21.22	-291.2	-1,013.8	244.7	226.2	18.52	13.217		
4,400.0	4,301.7	4,380.7	4,233.3	17.3	20.9	21.28	-299.1	-1,040.8	250.1	231.1	19.00	13.163		
4,500.0	4,399.0	4,480.5	4,329.1	17.7	21.4	21.35	-307.0	-1,067.8	255.4	236.0	19.48	13.113		
4,600.0	4,496.2	4,580.4	4,424.9	18.2	21.9	21.41	-314.9	-1,094.8	260.8	240.8	19.96	13.064		
4,700.0	4,593.4	4,680.2	4,520.8	18.6	22.5	21.47	-322.9	-1,121.8	266.2	245.7	20.45	13.018		
4,800.0	4,690.7	4,780.1	4,616.6	19.1	23.0	21.52	-330.8	-1,148.8	271.5	250.6	20.93	12.973		
4,900.0	4,787.9	4,880.0	4,712.4	19.5	23.5	21.58	-338.7	-1,175.8	276.9	255.5	21.41	12.931		
5,000.0	4,885.1	4,979.8	4,808.2	20.0	24.1	21.63	-346.6	-1,202.8	282.3	260.4	21.90	12.890		
5,100.0	4,982.4	5,079.7	4,904.0	20.4	24.6	21.68	-354.5	-1,229.8	287.6	265.3	22.38	12.850		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	5,079.6	5,179.5	4,999.8	20.9	25.2	21.73	-362.4	-1,256.8	293.0	270.1	22.87	12.812		
5,300.0	5,176.8	5,279.4	5,095.6	21.3	25.7	21.77	-370.3	-1,283.8	298.4	275.0	23.35	12.776		
5,400.0	5,274.1	5,379.2	5,191.4	21.8	26.2	21.82	-378.3	-1,310.8	303.7	279.9	23.84	12.741		
5,500.0	5,371.3	5,479.1	5,287.2	22.2	26.8	21.86	-386.2	-1,337.8	309.1	284.8	24.33	12.707		
5,600.0	5,468.5	5,578.9	5,383.0	22.7	27.3	21.90	-394.1	-1,364.8	314.5	289.7	24.81	12.675		
5,700.0	5,565.8	5,678.8	5,478.8	23.1	27.8	21.94	-402.0	-1,391.8	319.9	294.6	25.30	12.643		
5,800.0	5,663.0	5,778.7	5,574.7	23.6	28.4	21.98	-409.9	-1,418.8	325.2	299.4	25.78	12.613		
5,900.0	5,760.2	5,878.5	5,670.5	24.0	28.9	22.02	-417.8	-1,445.8	330.6	304.3	26.27	12.584		
6,000.0	5,857.5	5,978.4	5,766.3	24.5	29.5	22.06	-425.7	-1,472.8	336.0	309.2	26.76	12.555		
6,100.0	5,954.7	6,078.2	5,862.1	24.9	30.0	22.09	-433.7	-1,499.8	341.3	314.1	27.25	12.528		
6,200.0	6,051.9	6,178.1	5,957.9	25.4	30.5	22.12	-441.6	-1,526.8	346.7	319.0	27.73	12.502		
6,300.0	6,149.2	6,277.9	6,053.7	25.8	31.1	22.16	-449.5	-1,553.8	352.1	323.9	28.22	12.476		
6,400.0	6,246.4	6,377.8	6,149.5	26.3	31.6	22.19	-457.4	-1,580.9	357.4	328.7	28.71	12.451		
6,500.0	6,343.6	6,477.6	6,245.3	26.7	32.1	22.22	-465.3	-1,607.9	362.8	333.6	29.19	12.427		
6,600.0	6,440.9	6,577.5	6,341.1	27.2	32.7	22.25	-473.2	-1,634.9	368.2	338.5	29.68	12.404		
6,700.0	6,538.1	6,677.4	6,436.9	27.6	33.2	22.28	-481.1	-1,661.9	373.6	343.4	30.17	12.381		
6,800.0	6,635.3	6,777.2	6,532.7	28.1	33.8	22.31	-489.1	-1,688.9	378.9	348.3	30.66	12.360		
6,900.0	6,732.6	6,877.1	6,628.6	28.5	34.3	22.34	-497.0	-1,715.9	384.3	353.1	31.15	12.338		
7,000.0	6,829.8	6,976.9	6,724.3	29.0	34.8	9.42	-504.9	-1,742.9	389.6	358.0	31.64	12.315		
7,100.0	6,927.1	7,075.7	6,819.1	29.3	35.4	-32.26	-512.7	-1,769.6	394.7	363.7	31.00	12.733		
7,200.0	7,021.9	7,171.2	6,910.8	29.6	35.9	-57.44	-520.2	-1,795.4	401.0	371.8	29.21	13.727		
7,300.0	7,111.4	7,272.4	7,008.1	29.7	36.4	-71.93	-517.2	-1,822.8	410.3	382.8	27.49	14.926		
7,400.0	7,192.8	7,381.7	7,110.7	29.8	36.8	-81.45	-494.2	-1,851.8	422.0	395.6	26.46	15.953		
7,500.0	7,263.7	7,500.6	7,215.4	29.9	37.1	-88.42	-446.7	-1,881.3	435.3	409.3	26.02	16.728		
7,600.0	7,321.8	7,630.5	7,316.3	29.9	37.3	-93.72	-370.5	-1,909.7	448.6	422.6	25.95	17.286		
7,700.0	7,365.6	7,771.8	7,404.2	30.0	37.5	-97.61	-263.2	-1,934.5	460.2	434.2	26.04	17.676		
7,800.0	7,393.5	7,923.1	7,467.4	30.0	37.7	-100.11	-127.3	-1,952.3	468.5	442.2	26.23	17.857		
7,900.0	7,404.8	8,080.9	7,494.5	30.1	37.8	-101.10	27.4	-1,959.9	471.9	445.3	26.61	17.734		
8,000.0	7,405.0	8,190.0	7,495.0	30.3	38.0	-101.12	136.5	-1,960.1	472.0	444.5	27.43	17.209		
8,100.0	7,405.0	8,290.0	7,495.0	30.6	38.2	-101.12	236.5	-1,960.1	472.0	443.3	28.65	16.474		
8,200.0	7,405.0	8,390.0	7,495.0	30.9	38.5	-101.12	336.5	-1,960.1	472.0	441.7	30.22	15.620		
8,300.0	7,405.0	8,490.0	7,495.0	31.4	38.8	-101.12	436.5	-1,960.1	472.0	439.9	32.08	14.713		
8,400.0	7,405.0	8,590.0	7,495.0	31.9	39.3	-101.12	536.5	-1,960.1	472.0	437.8	34.19	13.806		
8,500.0	7,405.0	8,690.0	7,495.0	32.6	39.8	-101.12	636.5	-1,960.1	472.0	435.5	36.50	12.932		
8,600.0	7,405.0	8,790.0	7,495.0	33.3	40.3	-101.12	736.5	-1,960.1	472.0	433.0	38.98	12.109		
8,700.0	7,405.0	8,890.0	7,495.0	34.1	41.0	-101.12	836.5	-1,960.1	472.0	430.4	41.59	11.347		
8,800.0	7,405.0	8,990.0	7,495.0	34.9	41.7	-101.12	936.5	-1,960.1	472.0	427.6	44.32	10.648		
8,900.0	7,405.0	9,090.0	7,495.0	35.9	42.4	-101.12	1,036.5	-1,960.1	472.0	424.8	47.15	10.011		
9,000.0	7,405.0	9,190.0	7,495.0	36.8	43.2	-101.12	1,136.5	-1,960.1	472.0	421.9	50.05	9.430		
9,100.0	7,405.0	9,290.0	7,495.0	37.9	44.1	-101.12	1,236.5	-1,960.1	472.0	418.9	53.01	8.903		
9,200.0	7,405.0	9,390.0	7,495.0	39.0	45.0	-101.12	1,336.5	-1,960.1	472.0	415.9	56.03	8.423		
9,300.0	7,405.0	9,490.0	7,495.0	40.1	46.0	-101.12	1,436.5	-1,960.1	472.0	412.9	59.10	7.986		
9,400.0	7,405.0	9,590.0	7,495.0	41.3	47.0	-101.12	1,536.5	-1,960.1	472.0	409.8	62.21	7.587		
9,500.0	7,405.0	9,690.0	7,495.0	42.5	48.1	-101.12	1,636.5	-1,960.1	472.0	406.6	65.35	7.223		
9,600.0	7,405.0	9,790.0	7,495.0	43.8	49.2	-101.12	1,736.5	-1,960.1	472.0	403.4	68.51	6.888		
9,700.0	7,405.0	9,890.0	7,495.0	45.1	50.4	-101.12	1,836.5	-1,960.1	472.0	400.3	71.71	6.582		
9,800.0	7,405.0	9,990.0	7,495.0	46.4	51.5	-101.12	1,936.5	-1,960.1	472.0	397.0	74.93	6.299		
9,900.0	7,405.0	10,090.0	7,495.0	47.8	52.8	-101.12	2,036.5	-1,960.1	472.0	393.8	78.16	6.038		
10,000.0	7,405.0	10,190.0	7,495.0	49.2	54.0	-101.12	2,136.5	-1,960.1	472.0	390.5	81.41	5.797		
10,100.0	7,405.0	10,290.0	7,495.0	50.6	55.3	-101.12	2,236.5	-1,960.1	472.0	387.3	84.68	5.573		
10,200.0	7,405.0	10,390.0	7,495.0	52.0	56.6	-101.12	2,336.5	-1,960.1	472.0	384.0	87.96	5.365		
10,300.0	7,405.0	10,490.0	7,495.0	53.4	57.9	-101.12	2,436.5	-1,960.1	472.0	380.7	91.26	5.172		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4A-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	7,405.0	10,590.0	7,495.0	54.9	59.3	-101.12	2,536.5	-1,960.1	472.0	377.4	94.56	4.991		
10,500.0	7,405.0	10,690.0	7,495.0	56.4	60.6	-101.12	2,636.5	-1,960.1	472.0	374.1	97.87	4.822		
10,600.0	7,405.0	10,790.0	7,495.0	57.9	62.0	-101.12	2,736.5	-1,960.1	472.0	370.8	101.20	4.664		
10,700.0	7,405.0	10,890.0	7,495.0	59.4	63.4	-101.12	2,836.5	-1,960.1	472.0	367.4	104.53	4.515		
10,800.0	7,405.0	10,990.0	7,495.0	60.9	64.8	-101.12	2,936.5	-1,960.1	472.0	364.1	107.86	4.376		
10,900.0	7,405.0	11,090.0	7,495.0	62.5	66.3	-101.12	3,036.5	-1,960.1	472.0	360.8	111.21	4.244		
11,000.0	7,405.0	11,190.0	7,495.0	64.0	67.7	-101.12	3,136.5	-1,960.1	472.0	357.4	114.56	4.120		
11,100.0	7,405.0	11,290.0	7,495.0	65.6	69.2	-101.12	3,236.5	-1,960.1	472.0	354.0	117.91	4.003		
11,200.0	7,405.0	11,390.0	7,495.0	67.1	70.7	-101.12	3,336.5	-1,960.1	472.0	350.7	121.27	3.892		
11,300.0	7,405.0	11,490.0	7,495.0	68.7	72.2	-101.12	3,436.5	-1,960.1	472.0	347.3	124.63	3.787		
11,400.0	7,405.0	11,590.0	7,495.0	70.3	73.7	-101.12	3,536.5	-1,960.1	472.0	344.0	128.00	3.687		
11,500.0	7,405.0	11,690.0	7,495.0	71.9	75.2	-101.12	3,636.5	-1,960.1	472.0	340.6	131.37	3.592		
11,600.0	7,405.0	11,790.0	7,495.0	73.5	76.8	-101.12	3,736.5	-1,960.1	472.0	337.2	134.75	3.502		
11,700.0	7,405.0	11,890.0	7,495.0	75.1	78.3	-101.12	3,836.5	-1,960.1	472.0	333.8	138.13	3.417		
11,800.0	7,405.0	11,990.0	7,495.0	76.7	79.8	-101.12	3,936.5	-1,960.1	472.0	330.4	141.51	3.335		
11,900.0	7,405.0	12,090.0	7,495.0	78.3	81.4	-101.12	4,036.5	-1,960.1	472.0	327.1	144.90	3.257		
12,000.0	7,405.0	12,190.0	7,495.0	80.0	83.0	-101.12	4,136.5	-1,960.1	472.0	323.7	148.28	3.183		
12,100.0	7,405.0	12,290.0	7,495.0	81.6	84.5	-101.12	4,236.5	-1,960.1	472.0	320.3	151.68	3.112		
12,200.0	7,405.0	12,390.0	7,495.0	83.2	86.1	-101.12	4,336.5	-1,960.1	472.0	316.9	155.07	3.044		
12,300.0	7,405.0	12,490.0	7,495.0	84.9	87.7	-101.12	4,436.5	-1,960.1	472.0	313.5	158.46	2.978		
12,400.0	7,405.0	12,590.0	7,495.0	86.5	89.3	-101.12	4,536.5	-1,960.1	472.0	310.1	161.86	2.916		
12,500.0	7,405.0	12,690.0	7,495.0	88.2	90.9	-101.12	4,636.5	-1,960.1	472.0	306.7	165.26	2.856		
12,600.0	7,405.0	12,790.0	7,495.0	89.8	92.5	-101.12	4,736.5	-1,960.1	472.0	303.3	168.66	2.798		
12,700.0	7,405.0	12,890.0	7,495.0	91.5	94.1	-101.12	4,836.5	-1,960.1	472.0	299.9	172.06	2.743		
12,800.0	7,405.0	12,990.0	7,495.0	93.1	95.7	-101.12	4,936.5	-1,960.1	472.0	296.5	175.47	2.690		
12,900.0	7,405.0	13,090.0	7,495.0	94.8	97.3	-101.12	5,036.5	-1,960.1	472.0	293.1	178.87	2.639		
13,000.0	7,405.0	13,190.0	7,495.0	96.5	99.0	-101.12	5,136.5	-1,960.1	472.0	289.7	182.28	2.589		
13,100.0	7,405.0	13,290.0	7,495.0	98.1	100.6	-101.12	5,236.5	-1,960.1	472.0	286.3	185.69	2.542		
13,200.0	7,405.0	13,390.0	7,495.0	99.8	102.2	-101.12	5,336.5	-1,960.1	472.0	282.9	189.09	2.496		
13,300.0	7,405.0	13,490.0	7,495.0	101.5	103.9	-101.12	5,436.5	-1,960.1	472.0	279.5	192.51	2.452		
13,400.0	7,405.0	13,590.0	7,495.0	103.2	105.5	-101.12	5,536.5	-1,960.1	472.0	276.0	195.92	2.409		
13,500.0	7,405.0	13,690.0	7,495.0	104.9	107.2	-101.12	5,636.5	-1,960.1	472.0	272.6	199.33	2.368		
13,600.0	7,405.0	13,790.0	7,495.0	106.5	108.8	-101.12	5,736.5	-1,960.1	472.0	269.2	202.74	2.328		
13,700.0	7,405.0	13,890.0	7,495.0	108.2	110.5	-101.12	5,836.5	-1,960.1	472.0	265.8	206.16	2.289		
13,800.0	7,405.0	13,990.0	7,495.0	109.9	112.1	-101.12	5,936.5	-1,960.1	472.0	262.4	209.57	2.252		
13,900.0	7,405.0	14,090.0	7,495.0	111.6	113.8	-101.12	6,036.5	-1,960.1	472.0	259.0	212.99	2.216		
14,000.0	7,405.0	14,190.0	7,495.0	113.3	115.4	-101.12	6,136.5	-1,960.1	472.0	255.5	216.41	2.181		
14,100.0	7,405.0	14,290.0	7,495.0	115.0	117.1	-101.12	6,236.5	-1,960.1	472.0	252.1	219.83	2.147		
14,200.0	7,405.0	14,390.0	7,495.0	116.7	118.8	-101.12	6,336.5	-1,960.1	472.0	248.7	223.25	2.114		
14,300.0	7,405.0	14,490.0	7,495.0	118.4	120.4	-101.12	6,436.5	-1,960.1	472.0	245.3	226.66	2.082 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4B-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	-10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	-10.1	10.1	9.8	0.24	42.425		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-10.1	10.1	9.5	0.59	17.172		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-10.1	10.1	9.1	0.94	10.765 CC, ES		
400.0	400.0	399.6	399.6	0.6	0.6	-92.62	-0.5	-11.7	11.7	10.4	1.29	9.125		
500.0	500.0	499.1	499.0	0.8	0.8	14.92	-2.2	-16.6	15.1	13.5	1.63	9.259		
600.0	599.8	598.5	597.9	1.0	1.1	13.30	-4.9	-24.8	18.5	16.6	1.98	9.359		
700.0	699.5	697.7	696.5	1.2	1.3	12.58	-8.7	-36.2	22.0	19.7	2.33	9.432		
800.0	798.7	796.9	794.4	1.5	1.6	12.40	-13.5	-50.9	25.4	22.8	2.68	9.479		
900.0	897.5	895.9	891.6	1.8	2.0	12.55	-19.4	-68.7	28.9	25.8	3.04	9.499		
1,000.0	995.6	994.8	988.0	2.1	2.4	12.94	-26.4	-89.6	32.3	28.9	3.41	9.492		
1,100.0	1,093.1	1,094.4	1,084.5	2.5	2.8	13.73	-34.2	-113.2	35.0	31.2	3.79	9.249		
1,200.0	1,190.3	1,194.4	1,181.3	2.9	3.3	14.75	-42.0	-136.9	36.9	32.7	4.20	8.805		
1,300.0	1,287.5	1,294.4	1,278.1	3.4	3.8	15.66	-49.9	-160.7	38.9	34.2	4.61	8.419		
1,400.0	1,384.8	1,394.3	1,374.9	3.8	4.2	16.50	-57.8	-184.4	40.8	35.7	5.05	8.080		
1,500.0	1,482.0	1,494.3	1,471.7	4.2	4.7	17.25	-65.7	-208.2	42.7	37.2	5.49	7.781		
1,600.0	1,579.2	1,594.3	1,568.5	4.7	5.2	17.94	-73.5	-231.9	44.6	38.7	5.94	7.514		
1,700.0	1,676.5	1,694.3	1,665.3	5.1	5.6	18.58	-81.4	-255.7	46.6	40.2	6.40	7.276		
1,800.0	1,773.7	1,794.3	1,762.1	5.6	6.1	19.16	-89.3	-279.4	48.5	41.7	6.87	7.062		
1,900.0	1,870.9	1,894.2	1,858.9	6.0	6.6	19.70	-97.2	-303.2	50.5	43.1	7.35	6.869		
2,000.0	1,968.2	1,994.2	1,955.7	6.4	7.1	20.20	-105.0	-326.9	52.4	44.6	7.84	6.694		
2,100.0	2,065.4	2,094.2	2,052.5	6.9	7.5	20.66	-112.9	-350.6	54.4	46.1	8.33	6.535		
2,200.0	2,162.6	2,194.2	2,149.3	7.3	8.0	21.09	-120.8	-374.4	56.4	47.6	8.82	6.389		
2,300.0	2,259.9	2,294.2	2,246.1	7.8	8.5	21.49	-128.7	-398.1	58.3	49.0	9.32	6.257		
2,400.0	2,357.1	2,394.1	2,342.9	8.2	9.0	21.86	-136.5	-421.9	60.3	50.5	9.83	6.135		
2,500.0	2,454.3	2,494.1	2,439.7	8.7	9.5	22.21	-144.4	-445.6	62.3	51.9	10.34	6.023		
2,600.0	2,551.6	2,594.1	2,536.5	9.1	9.9	22.54	-152.3	-469.4	64.3	53.4	10.86	5.919		
2,700.0	2,648.8	2,694.1	2,633.3	9.6	10.4	22.85	-160.2	-493.1	66.2	54.9	11.37	5.823		
2,800.0	2,746.0	2,794.1	2,730.1	10.0	10.9	23.14	-168.0	-516.9	68.2	56.3	11.90	5.734		
2,900.0	2,843.3	2,894.0	2,826.9	10.5	11.4	23.42	-175.9	-540.6	70.2	57.8	12.42	5.652		
3,000.0	2,940.5	2,994.0	2,923.7	10.9	11.9	23.68	-183.8	-564.4	72.2	59.2	12.95	5.575		
3,100.0	3,037.7	3,094.0	3,020.5	11.4	12.3	23.93	-191.7	-588.1	74.2	60.7	13.48	5.503		
3,200.0	3,135.0	3,194.0	3,117.3	11.8	12.8	24.16	-199.5	-611.9	76.1	62.1	14.01	5.435		
3,300.0	3,232.2	3,294.0	3,214.1	12.3	13.3	24.38	-207.4	-635.6	78.1	63.6	14.54	5.372		
3,400.0	3,329.4	3,393.9	3,310.9	12.7	13.8	24.59	-215.3	-659.4	80.1	65.0	15.08	5.313		
3,500.0	3,426.7	3,493.9	3,407.7	13.2	14.3	24.79	-223.2	-683.1	82.1	66.5	15.62	5.257		
3,600.0	3,523.9	3,593.9	3,504.5	13.6	14.7	24.98	-231.0	-706.9	84.1	67.9	16.16	5.205		
3,700.0	3,621.1	3,693.9	3,601.3	14.1	15.2	25.16	-238.9	-730.6	86.1	69.4	16.70	5.155		
3,800.0	3,718.4	3,793.9	3,698.0	14.5	15.7	25.34	-246.8	-754.4	88.1	70.8	17.24	5.108		
3,900.0	3,815.6	3,893.8	3,794.8	15.0	16.2	25.50	-254.6	-778.1	90.1	72.3	17.79	5.064		
4,000.0	3,912.8	3,993.8	3,891.6	15.4	16.7	25.66	-262.5	-801.9	92.1	73.7	18.33	5.022		
4,100.0	4,010.0	4,093.8	3,988.4	15.9	17.1	25.81	-270.4	-825.6	94.1	75.2	18.88	4.982		
4,200.0	4,107.3	4,193.8	4,085.2	16.3	17.6	25.96	-278.3	-849.4	96.0	76.6	19.43	4.944		
4,300.0	4,204.5	4,293.8	4,182.0	16.8	18.1	26.10	-286.1	-873.1	98.0	78.1	19.98	4.908		
4,400.0	4,301.7	4,393.7	4,278.8	17.3	18.6	26.23	-294.0	-896.9	100.0	79.5	20.53	4.874		
4,500.0	4,399.0	4,493.7	4,375.6	17.7	19.1	26.36	-301.9	-920.6	102.0	81.0	21.08	4.841		
4,600.0	4,496.2	4,593.7	4,472.4	18.2	19.5	26.49	-309.8	-944.4	104.0	82.4	21.63	4.810		
4,700.0	4,593.4	4,693.7	4,569.2	18.6	20.0	26.61	-317.6	-968.1	106.0	83.8	22.18	4.780		
4,800.0	4,690.7	4,793.7	4,666.0	19.1	20.5	26.72	-325.5	-991.8	108.0	85.3	22.74	4.751		
4,900.0	4,787.9	4,893.6	4,762.8	19.5	21.0	26.83	-333.4	-1,015.6	110.0	86.7	23.29	4.724		
5,000.0	4,885.1	4,993.6	4,859.6	20.0	21.5	26.94	-341.3	-1,039.3	112.0	88.2	23.84	4.698		
5,100.0	4,982.4	5,093.6	4,956.4	20.4	21.9	27.04	-349.1	-1,063.1	114.0	89.6	24.40	4.673		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		
5,200.0	5,079.6	5,193.6	5,053.2	20.9	22.4	27.14	-357.0	-1,086.8	116.0	91.1	24.96	4.649		
5,300.0	5,176.8	5,293.6	5,150.0	21.3	22.9	27.24	-364.9	-1,110.6	118.0	92.5	25.51	4.626		
5,400.0	5,274.1	5,393.5	5,246.8	21.8	23.4	27.33	-372.8	-1,134.3	120.0	93.9	26.07	4.603		
5,500.0	5,371.3	5,493.5	5,343.6	22.2	23.9	27.42	-380.6	-1,158.1	122.0	95.4	26.63	4.582		
5,600.0	5,468.5	5,593.5	5,440.4	22.7	24.4	27.51	-388.5	-1,181.8	124.0	96.8	27.19	4.561		
5,700.0	5,565.8	5,693.5	5,537.2	23.1	24.8	27.59	-396.4	-1,205.6	126.0	98.3	27.75	4.542		
5,800.0	5,663.0	5,793.5	5,634.0	23.6	25.3	27.68	-404.3	-1,229.3	128.0	99.7	28.30	4.523		
5,900.0	5,760.2	5,893.4	5,730.8	24.0	25.8	27.75	-412.1	-1,253.1	130.0	101.1	28.86	4.504		
6,000.0	5,857.5	5,993.4	5,827.6	24.5	26.3	27.83	-420.0	-1,276.8	132.0	102.6	29.42	4.486		
6,100.0	5,954.7	6,093.4	5,924.4	24.9	26.8	27.91	-427.9	-1,300.6	134.0	104.0	29.99	4.469		
6,200.0	6,051.9	6,193.4	6,021.2	25.4	27.2	27.98	-435.8	-1,324.3	136.0	105.5	30.55	4.453		
6,300.0	6,149.2	6,293.4	6,118.0	25.8	27.7	28.05	-443.6	-1,348.1	138.0	106.9	31.11	4.437		
6,400.0	6,246.4	6,393.3	6,214.8	26.3	28.2	28.12	-451.5	-1,371.8	140.0	108.3	31.67	4.421		
6,500.0	6,343.6	6,493.3	6,311.6	26.7	28.7	28.18	-459.4	-1,395.6	142.0	109.8	32.23	4.406		
6,600.0	6,440.9	6,593.3	6,408.4	27.2	29.2	28.25	-467.2	-1,419.3	144.0	111.2	32.79	4.392		
6,700.0	6,538.1	6,693.3	6,505.2	27.6	29.6	28.31	-475.1	-1,443.1	146.0	112.7	33.36	4.378		
6,800.0	6,635.3	6,793.3	6,602.0	28.1	30.1	28.37	-483.0	-1,466.8	148.0	114.1	33.92	4.364		
6,900.0	6,732.6	6,893.2	6,698.8	28.5	30.6	28.43	-490.9	-1,490.6	150.0	115.5	34.48	4.351		
7,000.0	6,829.8	6,993.2	6,795.6	29.0	31.1	15.24	-498.7	-1,514.3	151.9	117.1	34.86	4.358		
7,100.0	6,927.1	7,092.1	6,891.4	29.3	31.6	-30.02	-506.5	-1,537.8	152.6	120.5	32.10	4.754		
7,200.0	7,021.9	7,187.2	6,983.4	29.6	32.0	-62.06	-514.0	-1,560.4	156.1	128.7	27.38	5.701		
7,300.0	7,111.4	7,281.0	7,074.3	29.7	32.5	-85.30	-519.6	-1,582.7	170.4	145.2	25.23	6.755		
7,400.0	7,192.8	7,386.1	7,175.8	29.8	32.8	-102.46	-509.8	-1,607.6	195.5	169.2	26.28	7.439		
7,500.0	7,263.7	7,503.7	7,285.1	29.9	33.2	-114.84	-476.5	-1,634.4	226.3	199.2	27.05	8.366		
7,600.0	7,321.8	7,637.2	7,398.2	29.9	33.4	-123.74	-411.9	-1,662.2	258.1	231.9	26.23	9.839		
7,700.0	7,365.6	7,789.7	7,505.7	30.0	33.5	-129.94	-307.5	-1,688.5	286.4	262.2	24.22	11.828		
7,800.0	7,393.5	7,961.8	7,590.1	30.0	33.7	-133.79	-159.8	-1,709.2	306.9	284.9	22.08	13.900		
7,900.0	7,404.8	8,148.1	7,629.1	30.1	33.8	-135.34	21.3	-1,718.8	315.9	294.8	21.11	14.964		
8,000.0	7,405.0	8,263.3	7,630.0	30.3	34.0	-135.38	136.5	-1,719.0	316.1	294.3	21.81	14.496		
8,100.0	7,405.0	8,363.3	7,630.0	30.6	34.2	-135.38	236.5	-1,719.0	316.1	293.3	22.81	13.859		
8,200.0	7,405.0	8,463.3	7,630.0	30.9	34.6	-135.38	336.5	-1,719.0	316.1	292.1	24.03	13.156		
8,300.0	7,405.0	8,563.3	7,630.0	31.4	35.0	-135.38	436.5	-1,719.0	316.1	290.7	25.43	12.431		
8,400.0	7,405.0	8,663.3	7,630.0	31.9	35.5	-135.38	536.5	-1,719.0	316.1	289.1	26.99	11.713		
8,500.0	7,405.0	8,763.3	7,630.0	32.6	36.0	-135.38	636.5	-1,719.0	316.1	287.4	28.67	11.024		
8,600.0	7,405.0	8,863.3	7,630.0	33.3	36.7	-135.38	736.5	-1,719.0	316.1	285.6	30.47	10.374		
8,700.0	7,405.0	8,963.3	7,630.0	34.1	37.4	-135.38	836.5	-1,719.0	316.1	283.8	32.36	9.769		
8,800.0	7,405.0	9,063.3	7,630.0	34.9	38.2	-135.38	936.5	-1,719.0	316.1	281.8	34.32	9.211		
8,900.0	7,405.0	9,163.3	7,630.0	35.9	39.0	-135.38	1,036.5	-1,719.0	316.1	279.8	36.35	8.697		
9,000.0	7,405.0	9,263.3	7,630.0	36.8	39.9	-135.38	1,136.5	-1,719.0	316.1	277.7	38.43	8.227		
9,100.0	7,405.0	9,363.3	7,630.0	37.9	40.9	-135.38	1,236.5	-1,719.0	316.1	275.6	40.55	7.796		
9,200.0	7,405.0	9,463.3	7,630.0	39.0	41.9	-135.38	1,336.5	-1,719.0	316.1	273.4	42.71	7.401		
9,300.0	7,405.0	9,563.3	7,630.0	40.1	42.9	-135.38	1,436.5	-1,719.0	316.1	271.2	44.91	7.039		
9,400.0	7,405.0	9,663.3	7,630.0	41.3	44.0	-135.38	1,536.5	-1,719.0	316.1	269.0	47.13	6.707		
9,500.0	7,405.0	9,763.3	7,630.0	42.5	45.2	-135.38	1,636.5	-1,719.0	316.1	266.7	49.38	6.402		
9,600.0	7,405.0	9,863.3	7,630.0	43.8	46.4	-135.38	1,736.5	-1,719.0	316.1	264.5	51.65	6.120		
9,700.0	7,405.0	9,963.3	7,630.0	45.1	47.6	-135.38	1,836.5	-1,719.0	316.1	262.2	53.94	5.861		
9,800.0	7,405.0	10,063.3	7,630.0	46.4	48.9	-135.38	1,936.5	-1,719.0	316.1	259.9	56.24	5.621		
9,900.0	7,405.0	10,163.3	7,630.0	47.8	50.1	-135.38	2,036.5	-1,719.0	316.1	257.6	58.56	5.398		
10,000.0	7,405.0	10,263.3	7,630.0	49.2	51.5	-135.38	2,136.5	-1,719.0	316.1	255.2	60.89	5.192		
10,100.0	7,405.0	10,363.3	7,630.0	50.6	52.8	-135.38	2,236.5	-1,719.0	316.1	252.9	63.23	4.999		
10,200.0	7,405.0	10,463.3	7,630.0	52.0	54.2	-135.38	2,336.5	-1,719.0	316.1	250.5	65.59	4.820		
10,300.0	7,405.0	10,563.3	7,630.0	53.4	55.6	-135.38	2,436.5	-1,719.0	316.1	248.2	67.95	4.652		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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				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	7,405.0	10,663.3	7,630.0	54.9	57.0	-135.38	2,536.5	-1,719.0	316.1	245.8	70.32	4.496		
10,500.0	7,405.0	10,763.3	7,630.0	56.4	58.4	-135.38	2,636.5	-1,719.0	316.1	243.4	72.69	4.349		
10,600.0	7,405.0	10,863.3	7,630.0	57.9	59.8	-135.38	2,736.5	-1,719.0	316.1	241.0	75.08	4.211		
10,700.0	7,405.0	10,963.3	7,630.0	59.4	61.3	-135.38	2,836.5	-1,719.0	316.1	238.6	77.47	4.081		
10,800.0	7,405.0	11,063.3	7,630.0	60.9	62.8	-135.38	2,936.5	-1,719.0	316.1	236.3	79.86	3.958		
10,900.0	7,405.0	11,163.3	7,630.0	62.5	64.3	-135.38	3,036.5	-1,719.0	316.1	233.9	82.26	3.843		
11,000.0	7,405.0	11,263.3	7,630.0	64.0	65.8	-135.38	3,136.5	-1,719.0	316.1	231.4	84.67	3.734		
11,100.0	7,405.0	11,363.3	7,630.0	65.6	67.3	-135.38	3,236.5	-1,719.0	316.1	229.0	87.08	3.630		
11,200.0	7,405.0	11,463.3	7,630.0	67.1	68.8	-135.38	3,336.5	-1,719.0	316.1	226.6	89.49	3.532		
11,300.0	7,405.0	11,563.3	7,630.0	68.7	70.4	-135.38	3,436.5	-1,719.0	316.1	224.2	91.91	3.440		
11,400.0	7,405.0	11,663.3	7,630.0	70.3	71.9	-135.38	3,536.5	-1,719.0	316.1	221.8	94.33	3.351		
11,500.0	7,405.0	11,763.3	7,630.0	71.9	73.5	-135.38	3,636.5	-1,719.0	316.1	219.4	96.75	3.267		
11,600.0	7,405.0	11,863.3	7,630.0	73.5	75.0	-135.38	3,736.5	-1,719.0	316.1	216.9	99.17	3.187		
11,700.0	7,405.0	11,963.3	7,630.0	75.1	76.6	-135.38	3,836.5	-1,719.0	316.1	214.5	101.60	3.111		
11,800.0	7,405.0	12,063.3	7,630.0	76.7	78.2	-135.38	3,936.5	-1,719.0	316.1	212.1	104.03	3.039		
11,900.0	7,405.0	12,163.3	7,630.0	78.3	79.8	-135.38	4,036.5	-1,719.0	316.1	209.6	106.47	2.969		
12,000.0	7,405.0	12,263.3	7,630.0	80.0	81.4	-135.38	4,136.5	-1,719.0	316.1	207.2	108.90	2.903		
12,100.0	7,405.0	12,363.3	7,630.0	81.6	83.0	-135.38	4,236.5	-1,719.0	316.1	204.8	111.34	2.839		
12,200.0	7,405.0	12,463.3	7,630.0	83.2	84.6	-135.38	4,336.5	-1,719.0	316.1	202.3	113.78	2.778		
12,300.0	7,405.0	12,563.3	7,630.0	84.9	86.2	-135.38	4,436.5	-1,719.0	316.1	199.9	116.22	2.720		
12,400.0	7,405.0	12,663.3	7,630.0	86.5	87.8	-135.38	4,536.5	-1,719.0	316.1	197.5	118.66	2.664		
12,500.0	7,405.0	12,763.3	7,630.0	88.2	89.5	-135.38	4,636.5	-1,719.0	316.1	195.0	121.10	2.610		
12,600.0	7,405.0	12,863.3	7,630.0	89.8	91.1	-135.38	4,736.5	-1,719.0	316.1	192.6	123.55	2.559		
12,700.0	7,405.0	12,963.3	7,630.0	91.5	92.7	-135.38	4,836.5	-1,719.0	316.1	190.1	125.99	2.509		
12,800.0	7,405.0	13,063.3	7,630.0	93.1	94.4	-135.38	4,936.5	-1,719.0	316.1	187.7	128.44	2.461		
12,900.0	7,405.0	13,163.3	7,630.0	94.8	96.0	-135.38	5,036.5	-1,719.0	316.1	185.2	130.89	2.415		
13,000.0	7,405.0	13,263.3	7,630.0	96.5	97.7	-135.38	5,136.5	-1,719.0	316.1	182.8	133.34	2.371		
13,100.0	7,405.0	13,363.3	7,630.0	98.1	99.3	-135.38	5,236.5	-1,719.0	316.1	180.3	135.79	2.328		
13,200.0	7,405.0	13,463.3	7,630.0	99.8	101.0	-135.38	5,336.5	-1,719.0	316.1	177.9	138.24	2.287		
13,300.0	7,405.0	13,563.3	7,630.0	101.5	102.6	-135.38	5,436.5	-1,719.0	316.1	175.4	140.70	2.247		
13,400.0	7,405.0	13,663.3	7,630.0	103.2	104.3	-135.38	5,536.5	-1,719.0	316.1	173.0	143.15	2.208		
13,500.0	7,405.0	13,763.3	7,630.0	104.9	106.0	-135.38	5,636.5	-1,719.0	316.1	170.5	145.61	2.171		
13,600.0	7,405.0	13,863.3	7,630.0	106.5	107.6	-135.38	5,736.5	-1,719.0	316.1	168.1	148.06	2.135		
13,700.0	7,405.0	13,963.3	7,630.0	108.2	109.3	-135.38	5,836.5	-1,719.0	316.1	165.6	150.52	2.100		
13,800.0	7,405.0	14,063.3	7,630.0	109.9	111.0	-135.38	5,936.5	-1,719.0	316.1	163.1	152.98	2.066		
13,900.0	7,405.0	14,163.3	7,630.0	111.6	112.6	-135.38	6,036.5	-1,719.0	316.1	160.7	155.43	2.034		
14,000.0	7,405.0	14,263.3	7,630.0	113.3	114.3	-135.38	6,136.5	-1,719.0	316.1	158.2	157.89	2.002		
14,100.0	7,405.0	14,363.3	7,630.0	115.0	116.0	-135.38	6,236.5	-1,719.0	316.1	155.8	160.35	1.971		
14,200.0	7,405.0	14,463.3	7,630.0	116.7	117.7	-135.38	6,336.5	-1,719.0	316.1	153.3	162.81	1.942		
14,300.0	7,405.0	14,563.3	7,630.0	118.4	119.4	-135.38	6,436.5	-1,719.0	316.1	150.8	165.27	1.913 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	9.8	9.8					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	9.8	9.8	9.6	0.24	41.246		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	9.8	9.8	9.2	0.59	16.695		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	9.8	9.8	8.9	0.94	10.466		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	9.8	9.8	8.5	1.28	7.622 CC		
500.0	500.0	500.0	500.0	0.8	0.8	-162.22	0.0	9.8	11.4	9.8	1.63	7.003		
600.0	599.8	600.4	600.3	1.0	1.0	-166.06	-0.7	8.2	14.8	12.8	1.98	7.475		
700.0	699.5	700.9	700.7	1.2	1.2	-167.97	-2.8	3.3	18.3	15.9	2.33	7.831		
800.0	798.7	801.5	800.9	1.5	1.4	-168.87	-6.3	-4.8	21.7	19.0	2.68	8.102		
900.0	897.5	902.2	900.9	1.8	1.6	-169.16	-11.2	-16.1	25.2	22.2	3.03	8.308		
1,000.0	995.6	1,003.1	1,000.5	2.1	1.9	-169.07	-17.5	-30.7	28.7	25.3	3.39	8.460		
1,100.0	1,093.1	1,104.0	1,099.6	2.5	2.3	-168.68	-25.2	-48.5	32.1	28.3	3.76	8.530		
1,200.0	1,190.3	1,204.0	1,197.3	2.9	2.6	-168.02	-33.4	-67.6	34.8	30.6	4.15	8.385		
1,300.0	1,287.5	1,304.0	1,295.1	3.4	3.0	-167.46	-41.7	-86.8	37.5	32.9	4.54	8.254		
1,400.0	1,384.8	1,403.9	1,392.9	3.8	3.4	-166.97	-50.0	-105.9	40.2	35.2	4.94	8.135		
1,500.0	1,482.0	1,503.9	1,490.6	4.2	3.8	-166.54	-58.3	-125.1	42.9	37.5	5.34	8.026		
1,600.0	1,579.2	1,603.9	1,588.4	4.7	4.2	-166.17	-66.6	-144.3	45.6	39.8	5.75	7.927		
1,700.0	1,676.5	1,703.8	1,686.1	5.1	4.6	-165.83	-74.8	-163.4	48.3	42.1	6.16	7.837		
1,800.0	1,773.7	1,803.8	1,783.9	5.6	5.0	-165.54	-83.1	-182.6	51.0	44.4	6.58	7.754		
1,900.0	1,870.9	1,903.7	1,881.7	6.0	5.4	-165.27	-91.4	-201.7	53.7	46.7	7.00	7.678		
2,000.0	1,968.2	2,003.7	1,979.4	6.4	5.8	-165.03	-99.7	-220.9	56.4	49.0	7.42	7.607		
2,100.0	2,065.4	2,103.7	2,077.2	6.9	6.2	-164.81	-108.0	-240.1	59.2	51.3	7.84	7.543		
2,200.0	2,162.6	2,203.6	2,174.9	7.3	6.6	-164.60	-116.2	-259.2	61.9	53.6	8.27	7.483		
2,300.0	2,259.9	2,303.6	2,272.7	7.8	7.0	-164.42	-124.5	-278.4	64.6	55.9	8.70	7.427		
2,400.0	2,357.1	2,403.6	2,370.5	8.2	7.4	-164.25	-132.8	-297.6	67.3	58.2	9.13	7.376		
2,500.0	2,454.3	2,503.5	2,468.2	8.7	7.8	-164.10	-141.1	-316.7	70.0	60.5	9.56	7.328		
2,600.0	2,551.6	2,603.5	2,566.0	9.1	8.2	-163.95	-149.3	-335.9	72.8	62.8	9.99	7.283		
2,700.0	2,648.8	2,703.5	2,663.7	9.6	8.6	-163.82	-157.6	-355.0	75.5	65.1	10.42	7.241		
2,800.0	2,746.0	2,803.4	2,761.5	10.0	9.0	-163.69	-165.9	-374.2	78.2	67.3	10.86	7.202		
2,900.0	2,843.3	2,903.4	2,859.2	10.5	9.4	-163.58	-174.2	-393.4	80.9	69.6	11.29	7.165		
3,000.0	2,940.5	3,003.3	2,957.0	10.9	9.8	-163.47	-182.5	-412.5	83.6	71.9	11.73	7.131		
3,100.0	3,037.7	3,103.3	3,054.8	11.4	10.2	-163.37	-190.7	-431.7	86.4	74.2	12.17	7.098		
3,200.0	3,135.0	3,203.3	3,152.5	11.8	10.6	-163.27	-199.0	-450.8	89.1	76.5	12.61	7.068		
3,300.0	3,232.2	3,303.2	3,250.3	12.3	11.1	-163.18	-207.3	-470.0	91.8	78.8	13.04	7.039		
3,400.0	3,329.4	3,403.2	3,348.0	12.7	11.5	-163.10	-215.6	-489.2	94.5	81.1	13.48	7.011		
3,500.0	3,426.7	3,503.2	3,445.8	13.2	11.9	-163.02	-223.8	-508.3	97.3	83.3	13.92	6.985		
3,600.0	3,523.9	3,603.1	3,543.6	13.6	12.3	-162.94	-232.1	-527.5	100.0	85.6	14.36	6.961		
3,700.0	3,621.1	3,703.1	3,641.3	14.1	12.7	-162.87	-240.4	-546.7	102.7	87.9	14.80	6.938		
3,800.0	3,718.4	3,803.0	3,739.1	14.5	13.1	-162.80	-248.7	-565.8	105.4	90.2	15.25	6.916		
3,900.0	3,815.6	3,903.0	3,836.8	15.0	13.5	-162.74	-257.0	-585.0	108.2	92.5	15.69	6.894		
4,000.0	3,912.8	4,003.0	3,934.6	15.4	13.9	-162.68	-265.2	-604.1	110.9	94.7	16.13	6.874		
4,100.0	4,010.0	4,102.9	4,032.4	15.9	14.3	-162.62	-273.5	-623.3	113.6	97.0	16.57	6.855		
4,200.0	4,107.3	4,202.9	4,130.1	16.3	14.7	-162.56	-281.8	-642.5	116.3	99.3	17.01	6.837		
4,300.0	4,204.5	4,302.9	4,227.9	16.8	15.1	-162.51	-290.1	-661.6	119.1	101.6	17.46	6.820		
4,400.0	4,301.7	4,402.8	4,325.6	17.3	15.5	-162.46	-298.3	-680.8	121.8	103.9	17.90	6.803		
4,500.0	4,399.0	4,502.8	4,423.4	17.7	16.0	-162.41	-306.6	-699.9	124.5	106.2	18.34	6.787		
4,600.0	4,496.2	4,602.7	4,521.2	18.2	16.4	-162.36	-314.9	-719.1	127.2	108.4	18.79	6.772		
4,700.0	4,593.4	4,702.7	4,618.9	18.6	16.8	-162.32	-323.2	-738.3	129.9	110.7	19.23	6.757		
4,800.0	4,690.7	4,802.7	4,716.7	19.1	17.2	-162.28	-331.5	-757.4	132.7	113.0	19.68	6.743		
4,900.0	4,787.9	4,902.6	4,814.4	19.5	17.6	-162.24	-339.7	-776.6	135.4	115.3	20.12	6.729		
5,000.0	4,885.1	5,002.6	4,912.2	20.0	18.0	-162.20	-348.0	-795.8	138.1	117.6	20.57	6.716		
5,100.0	4,982.4	5,102.6	5,010.0	20.4	18.4	-162.16	-356.3	-814.9	140.8	119.8	21.01	6.704		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	5,079.6	5,202.5	5,107.7	20.9	18.8	-162.12	-364.6	-834.1	143.6	122.1	21.46	6.692		
5,300.0	5,176.8	5,302.5	5,205.5	21.3	19.2	-162.09	-372.9	-853.2	146.3	124.4	21.90	6.680		
5,400.0	5,274.1	5,402.4	5,303.2	21.8	19.6	-162.05	-381.1	-872.4	149.0	126.7	22.35	6.669		
5,500.0	5,371.3	5,502.4	5,401.0	22.2	20.0	-162.02	-389.4	-891.6	151.7	129.0	22.79	6.658		
5,600.0	5,468.5	5,602.4	5,498.7	22.7	20.5	-161.99	-397.7	-910.7	154.5	131.2	23.24	6.647		
5,700.0	5,565.8	5,702.3	5,596.5	23.1	20.9	-161.96	-406.0	-929.9	157.2	133.5	23.68	6.637		
5,800.0	5,663.0	5,802.3	5,694.3	23.6	21.3	-161.93	-414.2	-949.0	159.9	135.8	24.13	6.628		
5,900.0	5,760.2	5,902.3	5,792.0	24.0	21.7	-161.90	-422.5	-968.2	162.6	138.1	24.58	6.618		
6,000.0	5,857.5	6,002.2	5,889.8	24.5	22.1	-161.88	-430.8	-987.4	165.4	140.4	25.02	6.609		
6,100.0	5,954.7	6,102.2	5,987.5	24.9	22.5	-161.85	-439.1	-1,006.5	168.1	142.6	25.47	6.600		
6,200.0	6,051.9	6,202.2	6,085.3	25.4	22.9	-161.82	-447.4	-1,025.7	170.8	144.9	25.91	6.592		
6,300.0	6,149.2	6,302.1	6,183.1	25.8	23.3	-161.80	-455.6	-1,044.9	173.5	147.2	26.36	6.583		
6,400.0	6,246.4	6,402.1	6,280.8	26.3	23.7	-161.77	-463.9	-1,064.0	176.3	149.5	26.81	6.575		
6,500.0	6,343.6	6,502.0	6,378.6	26.7	24.1	-161.75	-472.2	-1,083.2	179.0	151.7	27.25	6.568		
6,600.0	6,440.9	6,602.0	6,476.3	27.2	24.5	-161.73	-480.5	-1,102.3	181.7	154.0	27.70	6.560		
6,700.0	6,538.1	6,702.0	6,574.1	27.6	25.0	-161.71	-488.7	-1,121.5	184.5	156.3	28.15	6.553		
6,800.0	6,635.3	6,801.9	6,671.9	28.1	25.4	-161.69	-497.0	-1,140.7	187.2	158.6	28.60	6.546		
6,900.0	6,732.6	6,901.9	6,769.6	28.5	25.8	-161.66	-505.3	-1,159.8	189.9	160.9	29.04	6.539		
7,000.0	6,829.8	7,001.8	6,867.4	29.0	26.2	-174.46	-513.6	-1,179.0	192.6	163.0	29.55	6.517		
7,100.0	6,927.1	7,101.7	6,965.2	29.3	26.5	147.68	-516.5	-1,198.3	195.2	164.3	30.82	6.332		
7,200.0	7,021.9	7,203.2	7,063.6	29.6	26.8	128.45	-502.1	-1,217.9	197.8	166.1	31.68	6.243		
7,300.0	7,111.4	7,306.3	7,159.3	29.7	27.0	120.52	-469.6	-1,237.4	200.3	168.4	31.94	6.272		
7,400.0	7,192.8	7,411.0	7,249.1	29.8	27.0	117.19	-419.2	-1,256.0	202.6	171.1	31.54	6.425		
7,500.0	7,263.7	7,517.3	7,329.4	29.9	27.1	115.86	-351.9	-1,273.0	204.5	174.0	30.55	6.695		
7,600.0	7,321.8	7,625.0	7,396.8	29.9	27.1	115.48	-269.5	-1,287.8	205.9	176.7	29.21	7.047		
7,700.0	7,365.6	7,733.8	7,448.4	30.0	27.1	115.53	-174.6	-1,299.6	206.5	178.6	27.90	7.401		
7,800.0	7,393.5	7,843.4	7,481.6	30.0	27.2	115.75	-70.7	-1,308.0	206.3	179.2	27.08	7.617		
7,900.0	7,404.8	7,953.4	7,494.8	30.1	27.3	116.01	38.3	-1,312.5	205.2	178.0	27.18	7.550		
8,000.0	7,405.0	8,054.8	7,495.0	30.3	27.6	116.23	139.7	-1,314.3	203.6	175.7	27.95	7.285		
8,100.0	7,405.0	8,154.8	7,495.0	30.6	27.9	116.45	239.6	-1,316.1	202.1	173.1	29.00	6.967		
8,200.0	7,405.0	8,254.8	7,495.0	30.9	28.3	116.68	339.6	-1,317.8	200.5	170.2	30.34	6.608		
8,300.0	7,405.0	8,354.8	7,495.0	31.4	28.9	116.90	439.6	-1,319.6	198.9	167.0	31.92	6.232		
8,400.0	7,405.0	8,454.7	7,495.0	31.9	29.5	117.13	539.5	-1,321.3	197.4	163.7	33.71	5.856		
8,500.0	7,405.0	8,554.7	7,495.0	32.6	30.2	117.36	639.5	-1,323.1	195.8	160.2	35.67	5.490		
8,600.0	7,405.0	8,654.7	7,495.0	33.3	31.0	117.60	739.5	-1,324.8	194.3	156.5	37.77	5.144		
8,700.0	7,405.0	8,754.7	7,495.0	34.1	31.9	117.84	839.5	-1,326.6	192.7	152.8	39.99	4.820		
8,800.0	7,405.0	8,854.7	7,495.0	34.9	32.9	118.08	939.4	-1,328.3	191.2	148.9	42.30	4.520		
8,900.0	7,405.0	8,954.7	7,495.0	35.9	33.9	118.33	1,039.4	-1,330.0	189.7	145.0	44.68	4.245		
9,000.0	7,405.0	9,054.7	7,495.0	36.8	35.0	118.58	1,139.4	-1,331.8	188.1	141.0	47.13	3.992		
9,100.0	7,405.0	9,154.6	7,495.0	37.9	36.1	118.84	1,239.3	-1,333.5	186.6	137.0	49.63	3.760		
9,200.0	7,405.0	9,254.6	7,495.0	39.0	37.3	119.10	1,339.3	-1,335.3	185.1	132.9	52.16	3.548		
9,300.0	7,405.0	9,354.6	7,495.0	40.1	38.5	119.37	1,439.3	-1,337.0	183.5	128.8	54.72	3.354		
9,400.0	7,405.0	9,454.6	7,495.0	41.3	39.7	119.64	1,539.2	-1,338.8	182.0	124.7	57.31	3.176		
9,500.0	7,405.0	9,554.6	7,495.0	42.5	41.0	119.91	1,639.2	-1,340.5	180.5	120.6	59.91	3.013		
9,600.0	7,405.0	9,654.6	7,495.0	43.8	42.4	120.19	1,739.2	-1,342.3	179.0	116.5	62.52	2.863		
9,700.0	7,405.0	9,754.6	7,495.0	45.1	43.7	120.47	1,839.1	-1,344.0	177.5	112.4	65.14	2.725		
9,800.0	7,405.0	9,854.5	7,495.0	46.4	45.1	120.76	1,939.1	-1,345.7	176.0	108.2	67.76	2.597		
9,900.0	7,405.0	9,954.5	7,495.0	47.8	46.5	121.05	2,039.1	-1,347.5	174.5	104.1	70.38	2.479		
10,000.0	7,405.0	10,054.5	7,495.0	49.2	48.0	121.35	2,139.1	-1,349.2	173.0	100.0	72.99	2.370		
10,100.0	7,405.0	10,154.5	7,495.0	50.6	49.4	121.65	2,239.0	-1,351.0	171.5	95.9	75.60	2.269		
10,200.0	7,405.0	10,254.5	7,495.0	52.0	50.9	121.96	2,339.0	-1,352.7	170.0	91.8	78.19	2.174		
10,300.0	7,405.0	10,354.5	7,495.0	53.4	52.4	122.28	2,439.0	-1,354.5	168.6	87.8	80.78	2.087		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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 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	7,405.0	10,454.4	7,495.0	54.9	53.9	122.60	2,538.9	-1,356.2	167.1	83.7	83.35	2.005		
10,500.0	7,405.0	10,554.4	7,495.0	56.4	55.4	122.92	2,638.9	-1,358.0	165.6	79.7	85.90	1.928		
10,600.0	7,405.0	10,654.4	7,495.0	57.9	57.0	123.25	2,738.9	-1,359.7	164.2	75.7	88.43	1.856		
10,700.0	7,405.0	10,754.4	7,495.0	59.4	58.5	123.59	2,838.8	-1,361.5	162.7	71.8	90.94	1.789		
10,800.0	7,405.0	10,854.4	7,495.0	60.9	60.1	123.93	2,938.8	-1,363.2	161.2	67.8	93.42	1.726		
10,900.0	7,405.0	10,954.4	7,495.0	62.5	61.7	124.28	3,038.8	-1,364.9	159.8	63.9	95.89	1.667		
11,000.0	7,405.0	11,054.4	7,495.0	64.0	63.2	124.64	3,138.8	-1,366.7	158.4	60.0	98.32	1.611		
11,100.0	7,405.0	11,154.3	7,495.0	65.6	64.8	125.00	3,238.7	-1,368.4	156.9	56.2	100.73	1.558		
11,200.0	7,405.0	11,254.3	7,495.0	67.1	66.4	125.37	3,338.7	-1,370.2	155.5	52.4	103.10	1.508		
11,300.0	7,405.0	11,354.3	7,495.0	68.7	68.0	125.74	3,438.7	-1,371.9	154.1	48.6	105.45	1.461 Level 3		
11,400.0	7,405.0	11,454.3	7,495.0	70.3	69.7	126.13	3,538.6	-1,373.7	152.7	44.9	107.75	1.417 Level 3		
11,500.0	7,405.0	11,554.3	7,495.0	71.9	71.3	126.52	3,638.6	-1,375.4	151.3	41.2	110.03	1.375 Level 3		
11,600.0	7,405.0	11,654.3	7,495.0	73.5	72.9	126.91	3,738.6	-1,377.2	149.9	37.6	112.26	1.335 Level 3		
11,700.0	7,405.0	11,754.2	7,495.0	75.1	74.5	127.32	3,838.5	-1,378.9	148.5	34.0	114.46	1.297 Level 3		
11,800.0	7,405.0	11,854.2	7,495.0	76.7	76.2	127.73	3,938.5	-1,380.6	147.1	30.5	116.61	1.261 Level 3		
11,900.0	7,405.0	11,954.2	7,495.0	78.3	77.8	128.15	4,038.5	-1,382.4	145.7	27.0	118.72	1.227 Level 2		
12,000.0	7,405.0	12,054.2	7,495.0	80.0	79.5	128.58	4,138.4	-1,384.1	144.3	23.6	120.79	1.195 Level 2		
12,100.0	7,405.0	12,154.2	7,495.0	81.6	81.1	129.01	4,238.4	-1,385.9	143.0	20.2	122.80	1.164 Level 2		
12,200.0	7,405.0	12,254.2	7,495.0	83.2	82.8	129.46	4,338.4	-1,387.6	141.6	16.9	124.77	1.135 Level 2		
12,300.0	7,405.0	12,354.2	7,495.0	84.9	84.4	129.91	4,438.4	-1,389.4	140.3	13.6	126.68	1.107 Level 2		
12,400.0	7,405.0	12,454.1	7,495.0	86.5	86.1	130.37	4,538.3	-1,391.1	138.9	10.4	128.54	1.081 Level 2		
12,500.0	7,405.0	12,554.1	7,495.0	88.2	87.8	130.84	4,638.3	-1,392.9	137.6	7.3	130.34	1.056 Level 2		
12,600.0	7,405.0	12,654.1	7,495.0	89.8	89.4	131.32	4,738.3	-1,394.6	136.3	4.2	132.09	1.032 Level 2		
12,700.0	7,405.0	12,754.1	7,495.0	91.5	91.1	131.81	4,838.2	-1,396.4	135.0	1.2	133.77	1.009 Level 2		
12,800.0	7,405.0	12,854.1	7,495.0	93.1	92.8	132.31	4,938.2	-1,398.1	133.7	-1.7	135.39	0.988 Level 1		
12,900.0	7,405.0	12,954.1	7,495.0	94.8	94.5	132.82	5,038.2	-1,399.8	132.4	-4.5	136.94	0.967 Level 1		
13,000.0	7,405.0	13,054.0	7,495.0	96.5	96.1	133.34	5,138.1	-1,401.6	131.1	-7.3	138.42	0.947 Level 1		
13,100.0	7,405.0	13,154.0	7,495.0	98.1	97.8	133.87	5,238.1	-1,403.3	129.9	-9.9	139.83	0.929 Level 1		
13,200.0	7,405.0	13,254.0	7,495.0	99.8	99.5	134.41	5,338.1	-1,405.1	128.6	-12.5	141.16	0.911 Level 1		
13,263.3	7,405.0	13,315.8	7,495.0	100.9	100.6	134.61	5,398.8	-1,405.7	128.2	-14.1	142.27	0.901 Level 1		
13,300.0	7,405.0	13,351.3	7,495.0	101.5	101.2	134.54	5,435.3	-1,405.5	128.3	-15.0	143.32	0.895 Level 1		
13,400.0	7,405.0	13,448.1	7,495.0	103.2	102.8	133.66	5,532.1	-1,402.7	130.4	-17.3	147.73	0.883 Level 1		
13,500.0	7,405.0	13,544.6	7,495.0	104.9	104.4	131.88	5,628.4	-1,396.6	135.1	-19.1	154.20	0.876 Level 1		
13,600.0	7,405.0	13,642.9	7,495.0	106.5	106.0	129.48	5,726.3	-1,387.7	141.9	-20.1	162.03	0.876 Level 1, SF		
13,700.0	7,405.0	13,742.5	7,495.0	108.2	107.6	127.23	5,825.5	-1,378.5	149.2	-20.4	169.51	0.880 Level 1, ES		
13,800.0	7,405.0	13,842.1	7,495.0	109.9	109.3	125.19	5,924.6	-1,369.3	156.6	-19.9	176.50	0.887 Level 1		
13,900.0	7,405.0	13,941.6	7,495.0	111.6	110.9	123.33	6,023.8	-1,360.1	164.3	-18.8	183.07	0.897 Level 1		
14,000.0	7,405.0	14,041.2	7,495.0	113.3	112.6	121.65	6,122.9	-1,350.9	172.1	-17.2	189.26	0.909 Level 1		
14,100.0	7,405.0	14,140.8	7,495.0	115.0	114.2	120.10	6,222.1	-1,341.7	180.0	-15.1	195.14	0.922 Level 1		
14,200.0	7,405.0	14,240.4	7,495.0	116.7	115.9	118.69	6,321.2	-1,332.5	188.1	-12.7	200.74	0.937 Level 1		
14,300.0	7,405.0	14,339.9	7,495.0	118.4	117.6	117.40	6,420.4	-1,323.3	196.2	-9.9	206.12	0.952 Level 1		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	90.05	0.0	19.9	19.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	19.9	19.9	19.6	0.24	83.671		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	19.9	19.9	19.3	0.59	33.867		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	19.9	19.9	18.9	0.94	21.230		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	19.9	19.9	18.6	1.28	15.461 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	-160.76	0.0	19.9	21.5	19.9	1.63	13.164		
600.0	599.8	599.8	599.8	1.0	1.0	-164.47	0.0	19.9	26.5	24.5	1.98	13.376		
700.0	699.5	700.6	700.5	1.2	1.2	-167.27	-0.9	18.3	33.3	31.0	2.33	14.312		
800.0	798.7	801.5	801.4	1.5	1.4	-168.43	-3.4	13.7	40.3	37.6	2.68	15.056		
900.0	897.5	902.7	902.2	1.8	1.6	-168.65	-7.7	5.9	47.4	44.4	3.03	15.645		
1,000.0	995.6	1,004.2	1,002.9	2.1	1.8	-168.29	-13.8	-5.1	54.6	51.2	3.39	16.102		
1,100.0	1,093.1	1,105.6	1,103.0	2.5	2.1	-167.56	-21.5	-19.1	61.8	58.0	3.76	16.410		
1,200.0	1,190.3	1,205.3	1,201.3	2.9	2.4	-166.80	-29.7	-34.0	68.7	64.6	4.16	16.532		
1,300.0	1,287.5	1,305.1	1,299.6	3.4	2.7	-166.18	-37.9	-48.9	75.7	71.1	4.56	16.608		
1,400.0	1,384.8	1,404.9	1,397.8	3.8	3.0	-165.67	-46.1	-63.8	82.6	77.7	4.96	16.651		
1,500.0	1,482.0	1,504.6	1,496.1	4.2	3.3	-165.24	-54.4	-78.8	89.6	84.2	5.37	16.673		
1,600.0	1,579.2	1,604.4	1,594.4	4.7	3.7	-164.86	-62.6	-93.7	96.6	90.8	5.79	16.679		
1,700.0	1,676.5	1,704.1	1,692.7	5.1	4.0	-164.54	-70.8	-108.6	103.6	97.3	6.21	16.675		
1,800.0	1,773.7	1,803.9	1,791.0	5.6	4.3	-164.26	-79.0	-123.5	110.5	103.9	6.63	16.664		
1,900.0	1,870.9	1,903.6	1,889.3	6.0	4.7	-164.02	-87.2	-138.4	117.5	110.5	7.06	16.647		
2,000.0	1,968.2	2,003.4	1,987.6	6.4	5.0	-163.80	-95.4	-153.4	124.5	117.0	7.49	16.628		
2,100.0	2,065.4	2,103.1	2,085.9	6.9	5.3	-163.60	-103.7	-168.3	131.5	123.6	7.92	16.607		
2,200.0	2,162.6	2,202.9	2,184.2	7.3	5.7	-163.42	-111.9	-183.2	138.5	130.1	8.35	16.585		
2,300.0	2,259.9	2,302.6	2,282.5	7.8	6.0	-163.26	-120.1	-198.1	145.5	136.7	8.78	16.562		
2,400.0	2,357.1	2,402.4	2,380.7	8.2	6.4	-163.12	-128.3	-213.0	152.4	143.2	9.22	16.539		
2,500.0	2,454.3	2,502.2	2,479.0	8.7	6.7	-162.99	-136.5	-228.0	159.4	149.8	9.65	16.516		
2,600.0	2,551.6	2,601.9	2,577.3	9.1	7.0	-162.87	-144.8	-242.9	166.4	156.3	10.09	16.494		
2,700.0	2,648.8	2,701.7	2,675.6	9.6	7.4	-162.75	-153.0	-257.8	173.4	162.9	10.53	16.472		
2,800.0	2,746.0	2,801.4	2,773.9	10.0	7.7	-162.65	-161.2	-272.7	180.4	169.4	10.97	16.450		
2,900.0	2,843.3	2,901.2	2,872.2	10.5	8.1	-162.56	-169.4	-287.6	187.4	176.0	11.41	16.429		
3,000.0	2,940.5	3,000.9	2,970.5	10.9	8.4	-162.47	-177.6	-302.6	194.4	182.5	11.85	16.409		
3,100.0	3,037.7	3,100.7	3,068.8	11.4	8.8	-162.39	-185.9	-317.5	201.4	189.1	12.29	16.390		
3,200.0	3,135.0	3,200.4	3,167.1	11.8	9.1	-162.31	-194.1	-332.4	208.4	195.6	12.73	16.371		
3,300.0	3,232.2	3,300.2	3,265.3	12.3	9.5	-162.24	-202.3	-347.3	215.4	202.2	13.17	16.353		
3,400.0	3,329.4	3,399.9	3,363.6	12.7	9.8	-162.17	-210.5	-362.2	222.4	208.7	13.61	16.335		
3,500.0	3,426.7	3,499.7	3,461.9	13.2	10.1	-162.11	-218.7	-377.2	229.3	215.3	14.05	16.319		
3,600.0	3,523.9	3,599.5	3,560.2	13.6	10.5	-162.05	-227.0	-392.1	236.3	221.8	14.50	16.302		
3,700.0	3,621.1	3,699.2	3,658.5	14.1	10.8	-161.99	-235.2	-407.0	243.3	228.4	14.94	16.287		
3,800.0	3,718.4	3,799.0	3,756.8	14.5	11.2	-161.94	-243.4	-421.9	250.3	234.9	15.38	16.272		
3,900.0	3,815.6	3,898.7	3,855.1	15.0	11.5	-161.89	-251.6	-436.8	257.3	241.5	15.83	16.257		
4,000.0	3,912.8	3,998.5	3,953.4	15.4	11.9	-161.84	-259.8	-451.8	264.3	248.0	16.27	16.243		
4,100.0	4,010.0	4,098.2	4,051.7	15.9	12.2	-161.80	-268.1	-466.7	271.3	254.6	16.72	16.230		
4,200.0	4,107.3	4,198.0	4,150.0	16.3	12.6	-161.76	-276.3	-481.6	278.3	261.1	17.16	16.217		
4,300.0	4,204.5	4,297.7	4,248.2	16.8	12.9	-161.72	-284.5	-496.5	285.3	267.7	17.61	16.204		
4,400.0	4,301.7	4,397.5	4,346.5	17.3	13.3	-161.68	-292.7	-511.4	292.3	274.2	18.05	16.192		
4,500.0	4,399.0	4,497.3	4,444.8	17.7	13.6	-161.64	-300.9	-526.4	299.3	280.8	18.50	16.181		
4,600.0	4,496.2	4,597.0	4,543.1	18.2	13.9	-161.61	-309.2	-541.3	306.3	287.3	18.94	16.170		
4,700.0	4,593.4	4,696.8	4,641.4	18.6	14.3	-161.57	-317.4	-556.2	313.3	293.9	19.39	16.159		
4,800.0	4,690.7	4,796.5	4,739.7	19.1	14.6	-161.54	-325.6	-571.1	320.3	300.4	19.83	16.148		
4,900.0	4,787.9	4,896.3	4,838.0	19.5	15.0	-161.51	-333.8	-586.0	327.3	307.0	20.28	16.138		
5,000.0	4,885.1	4,996.0	4,936.3	20.0	15.3	-161.48	-342.0	-601.0	334.3	313.5	20.73	16.128		
5,100.0	4,982.4	5,095.8	5,034.6	20.4	15.7	-161.45	-350.3	-615.9	341.3	320.1	21.17	16.119		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							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	5,079.6	5,195.5	5,132.9	20.9	16.0	-161.42	-358.5	-630.8	348.3	326.6	21.62	16.110		
5,300.0	5,176.8	5,295.3	5,231.1	21.3	16.4	-161.40	-366.7	-645.7	355.3	333.2	22.06	16.101		
5,400.0	5,274.1	5,395.0	5,329.4	21.8	16.7	-161.37	-374.9	-660.6	362.3	339.7	22.51	16.092		
5,500.0	5,371.3	5,494.8	5,427.7	22.2	17.1	-161.35	-383.1	-675.5	369.2	346.3	22.96	16.084		
5,600.0	5,468.5	5,594.6	5,526.0	22.7	17.4	-161.33	-391.4	-690.5	376.2	352.8	23.40	16.076		
5,700.0	5,565.8	5,694.3	5,624.3	23.1	17.8	-161.30	-399.6	-705.4	383.2	359.4	23.85	16.068		
5,800.0	5,663.0	5,794.1	5,722.6	23.6	18.1	-161.28	-407.8	-720.3	390.2	365.9	24.30	16.061		
5,900.0	5,760.2	5,893.8	5,820.9	24.0	18.5	-161.26	-416.0	-735.2	397.2	372.5	24.74	16.053		
6,000.0	5,857.5	5,993.6	5,919.2	24.5	18.8	-161.24	-424.2	-750.1	404.2	379.0	25.19	16.046		
6,100.0	5,954.7	6,093.3	6,017.5	24.9	19.1	-161.22	-432.5	-765.1	411.2	385.6	25.64	16.039		
6,200.0	6,051.9	6,193.1	6,115.8	25.4	19.5	-161.20	-440.7	-780.0	418.2	392.1	26.09	16.033		
6,300.0	6,149.2	6,292.8	6,214.0	25.8	19.8	-161.19	-448.9	-794.9	425.2	398.7	26.53	16.026		
6,400.0	6,246.4	6,392.6	6,312.3	26.3	20.2	-161.17	-457.1	-809.8	432.2	405.2	26.98	16.020		
6,500.0	6,343.6	6,492.4	6,410.6	26.7	20.5	-161.15	-465.3	-824.7	439.2	411.8	27.43	16.013		
6,600.0	6,440.9	6,592.1	6,508.9	27.2	20.9	-161.14	-473.5	-839.7	446.2	418.3	27.88	16.007		
6,700.0	6,538.1	6,691.9	6,607.2	27.6	21.2	-161.12	-481.8	-854.6	453.2	424.9	28.32	16.002		
6,800.0	6,635.3	6,791.6	6,705.5	28.1	21.6	-161.10	-490.0	-869.5	460.2	431.4	28.77	15.996		
6,900.0	6,732.6	6,891.4	6,803.8	28.5	21.9	-161.09	-498.2	-884.4	467.2	438.0	29.22	15.990		
7,000.0	6,829.8	6,991.1	6,902.1	29.0	22.3	-174.17	-506.4	-899.3	474.2	444.6	29.60	16.017		
7,100.0	6,927.1	7,089.7	6,999.2	29.3	22.6	146.62	-514.6	-914.1	481.0	450.7	30.28	15.885		
7,200.0	7,021.9	7,188.4	7,096.7	29.6	22.9	127.22	-517.0	-928.9	488.5	457.4	31.14	15.685		
7,300.0	7,111.4	7,291.9	7,197.7	29.7	23.1	119.22	-501.7	-944.2	497.0	465.5	31.50	15.775		
7,400.0	7,192.8	7,400.9	7,299.4	29.8	23.1	115.88	-466.0	-959.7	505.9	474.7	31.26	16.186		
7,500.0	7,263.7	7,515.9	7,397.3	29.9	23.0	114.61	-408.0	-974.5	514.9	484.4	30.43	16.920		
7,600.0	7,321.8	7,637.0	7,485.9	29.9	22.9	114.31	-326.9	-988.0	523.1	493.9	29.20	17.911		
7,700.0	7,365.6	7,763.8	7,558.5	30.0	22.8	114.42	-223.7	-999.0	529.8	501.9	27.94	18.961		
7,800.0	7,393.5	7,895.4	7,608.2	30.0	22.8	114.64	-102.5	-1,006.5	534.5	507.3	27.15	19.689		
7,900.0	7,404.8	8,029.9	7,629.5	30.1	23.0	114.78	30.0	-1,009.8	536.5	509.2	27.29	19.663		
8,000.0	7,405.0	8,136.4	7,630.0	30.3	23.2	114.79	136.5	-1,009.8	536.6	508.5	28.08	19.109		
8,100.0	7,405.0	8,236.4	7,630.0	30.6	23.6	114.79	236.5	-1,009.8	536.6	507.4	29.16	18.400		
8,200.0	7,405.0	8,336.4	7,630.0	30.9	24.1	114.79	336.5	-1,009.8	536.6	506.0	30.54	17.570		
8,300.0	7,405.0	8,436.4	7,630.0	31.4	24.7	114.79	436.5	-1,009.8	536.6	504.4	32.18	16.677		
8,400.0	7,405.0	8,536.4	7,630.0	31.9	25.4	114.79	536.5	-1,009.8	536.6	502.5	34.03	15.767		
8,500.0	7,405.0	8,636.4	7,630.0	32.6	26.2	114.79	636.5	-1,009.8	536.6	500.5	36.08	14.874		
8,600.0	7,405.0	8,736.4	7,630.0	33.3	27.1	114.79	736.5	-1,009.8	536.6	498.3	38.28	14.018		
8,700.0	7,405.0	8,836.4	7,630.0	34.1	28.1	114.79	836.5	-1,009.8	536.6	496.0	40.61	13.213		
8,800.0	7,405.0	8,936.4	7,630.0	34.9	29.1	114.79	936.5	-1,009.8	536.6	493.5	43.05	12.464		
8,900.0	7,405.0	9,036.4	7,630.0	35.9	30.3	114.79	1,036.5	-1,009.8	536.6	491.0	45.59	11.771		
9,000.0	7,405.0	9,136.4	7,630.0	36.8	31.4	114.79	1,136.5	-1,009.8	536.6	488.4	48.20	11.133		
9,100.0	7,405.0	9,236.4	7,630.0	37.9	32.7	114.79	1,236.5	-1,009.8	536.6	485.7	50.88	10.547		
9,200.0	7,405.0	9,336.4	7,630.0	39.0	34.0	114.79	1,336.5	-1,009.8	536.6	483.0	53.61	10.009		
9,300.0	7,405.0	9,436.4	7,630.0	40.1	35.3	114.79	1,436.5	-1,009.8	536.6	480.2	56.39	9.515		
9,400.0	7,405.0	9,536.4	7,630.0	41.3	36.6	114.79	1,536.5	-1,009.8	536.6	477.4	59.22	9.061		
9,500.0	7,405.0	9,636.4	7,630.0	42.5	38.0	114.79	1,636.5	-1,009.8	536.6	474.5	62.08	8.644		
9,600.0	7,405.0	9,736.4	7,630.0	43.8	39.4	114.79	1,736.5	-1,009.8	536.6	471.6	64.96	8.260		
9,700.0	7,405.0	9,836.4	7,630.0	45.1	40.9	114.79	1,836.5	-1,009.8	536.6	468.7	67.88	7.905		
9,800.0	7,405.0	9,936.4	7,630.0	46.4	42.4	114.79	1,936.5	-1,009.8	536.6	465.8	70.82	7.577		
9,900.0	7,405.0	10,036.4	7,630.0	47.8	43.8	114.79	2,036.5	-1,009.8	536.6	462.8	73.78	7.273		
10,000.0	7,405.0	10,136.4	7,630.0	49.2	45.4	114.79	2,136.5	-1,009.8	536.6	459.8	76.76	6.990		
10,100.0	7,405.0	10,236.4	7,630.0	50.6	46.9	114.79	2,236.5	-1,009.8	536.6	456.8	79.76	6.728		
10,200.0	7,405.0	10,336.4	7,630.0	52.0	48.4	114.79	2,336.5	-1,009.8	536.6	453.8	82.76	6.483		
10,300.0	7,405.0	10,436.4	7,630.0	53.4	50.0	114.79	2,436.5	-1,009.8	536.6	450.8	85.79	6.255		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	7,405.0	10,536.4	7,630.0	54.9	51.5	114.79	2,536.5	-1,009.8	536.6	447.8	88.82	6.041		
10,500.0	7,405.0	10,636.4	7,630.0	56.4	53.1	114.79	2,636.5	-1,009.8	536.6	444.7	91.87	5.841		
10,600.0	7,405.0	10,736.4	7,630.0	57.9	54.7	114.79	2,736.5	-1,009.8	536.6	441.7	94.92	5.653		
10,700.0	7,405.0	10,836.4	7,630.0	59.4	56.3	114.79	2,836.5	-1,009.8	536.6	438.6	97.98	5.476		
10,800.0	7,405.0	10,936.4	7,630.0	60.9	57.9	114.79	2,936.5	-1,009.8	536.6	435.5	101.05	5.310		
10,900.0	7,405.0	11,036.4	7,630.0	62.5	59.5	114.79	3,036.5	-1,009.8	536.6	432.4	104.13	5.153		
11,000.0	7,405.0	11,136.4	7,630.0	64.0	61.2	114.79	3,136.5	-1,009.8	536.6	429.4	107.22	5.005		
11,100.0	7,405.0	11,236.4	7,630.0	65.6	62.8	114.79	3,236.5	-1,009.8	536.6	426.3	110.31	4.864		
11,200.0	7,405.0	11,336.4	7,630.0	67.1	64.4	114.79	3,336.5	-1,009.8	536.6	423.2	113.40	4.732		
11,300.0	7,405.0	11,436.4	7,630.0	68.7	66.1	114.79	3,436.5	-1,009.8	536.6	420.1	116.50	4.606		
11,400.0	7,405.0	11,536.4	7,630.0	70.3	67.7	114.79	3,536.5	-1,009.8	536.6	417.0	119.61	4.486		
11,500.0	7,405.0	11,636.4	7,630.0	71.9	69.4	114.79	3,636.5	-1,009.8	536.6	413.9	122.72	4.372		
11,600.0	7,405.0	11,736.4	7,630.0	73.5	71.0	114.79	3,736.5	-1,009.8	536.6	410.7	125.83	4.264		
11,700.0	7,405.0	11,836.4	7,630.0	75.1	72.7	114.79	3,836.5	-1,009.8	536.6	407.6	128.95	4.161		
11,800.0	7,405.0	11,936.4	7,630.0	76.7	74.4	114.79	3,936.5	-1,009.8	536.6	404.5	132.07	4.063		
11,900.0	7,405.0	12,036.4	7,630.0	78.3	76.0	114.79	4,036.5	-1,009.8	536.6	401.4	135.19	3.969		
12,000.0	7,405.0	12,136.4	7,630.0	80.0	77.7	114.79	4,136.5	-1,009.8	536.6	398.3	138.32	3.879		
12,100.0	7,405.0	12,236.4	7,630.0	81.6	79.4	114.79	4,236.5	-1,009.8	536.6	395.1	141.45	3.793		
12,200.0	7,405.0	12,336.4	7,630.0	83.2	81.1	114.79	4,336.5	-1,009.8	536.6	392.0	144.58	3.711		
12,300.0	7,405.0	12,436.4	7,630.0	84.9	82.8	114.79	4,436.5	-1,009.8	536.6	388.9	147.72	3.632		
12,400.0	7,405.0	12,536.4	7,630.0	86.5	84.5	114.79	4,536.5	-1,009.8	536.6	385.7	150.85	3.557		
12,500.0	7,405.0	12,636.4	7,630.0	88.2	86.1	114.79	4,636.5	-1,009.8	536.6	382.6	153.99	3.484		
12,600.0	7,405.0	12,736.4	7,630.0	89.8	87.8	114.79	4,736.5	-1,009.8	536.6	379.4	157.13	3.415		
12,700.0	7,405.0	12,836.4	7,630.0	91.5	89.5	114.79	4,836.5	-1,009.8	536.6	376.3	160.28	3.348		
12,800.0	7,405.0	12,936.4	7,630.0	93.1	91.2	114.79	4,936.5	-1,009.8	536.6	373.2	163.42	3.283		
12,900.0	7,405.0	13,036.4	7,630.0	94.8	92.9	114.79	5,036.5	-1,009.8	536.6	370.0	166.57	3.221		
13,000.0	7,405.0	13,136.4	7,630.0	96.5	94.6	114.79	5,136.5	-1,009.8	536.6	366.9	169.71	3.162		
13,100.0	7,405.0	13,236.4	7,630.0	98.1	96.3	114.79	5,236.5	-1,009.8	536.6	363.7	172.86	3.104		
13,200.0	7,405.0	13,336.4	7,630.0	99.8	98.0	114.79	5,336.5	-1,009.8	536.6	360.6	176.01	3.048		
13,300.0	7,405.0	13,436.4	7,630.0	101.5	99.8	114.79	5,436.5	-1,009.8	536.6	357.4	179.17	2.995		
13,400.0	7,405.0	13,536.4	7,630.0	103.2	101.5	114.79	5,536.5	-1,009.8	536.6	354.3	182.32	2.943		
13,500.0	7,405.0	13,636.4	7,630.0	104.9	103.2	114.79	5,636.5	-1,009.8	536.6	351.1	185.48	2.893		
13,600.0	7,405.0	13,736.4	7,630.0	106.5	104.9	114.79	5,736.5	-1,009.8	536.6	347.9	188.63	2.845		
13,700.0	7,405.0	13,844.4	7,630.0	108.2	106.7	114.83	5,844.5	-1,010.6	535.9	344.1	191.86	2.793		
13,800.0	7,405.0	13,953.6	7,630.0	109.9	108.6	114.96	5,953.7	-1,013.5	533.6	338.6	194.97	2.737		
13,900.0	7,405.0	14,054.5	7,630.0	111.6	110.4	115.13	6,054.5	-1,017.2	530.2	332.3	197.88	2.679		
14,000.0	7,405.0	14,154.5	7,630.0	113.3	112.1	115.30	6,154.4	-1,021.0	526.8	326.0	200.76	2.624		
14,100.0	7,405.0	14,254.4	7,630.0	115.0	113.8	115.48	6,254.2	-1,024.8	523.4	319.8	203.63	2.570		
14,200.0	7,405.0	14,354.3	7,630.0	116.7	115.5	115.65	6,354.1	-1,028.5	520.0	313.5	206.48	2.518		
14,300.0	7,405.0	14,454.2	7,630.0	118.4	117.3	115.84	6,453.9	-1,032.3	516.6	307.3	209.32	2.468 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	90.67	-0.3	29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.67	-0.3	29.9	29.9	29.7	0.24	126.105		
200.0	200.0	200.0	200.0	0.3	0.3	90.67	-0.3	29.9	29.9	29.3	0.59	51.042		
300.0	300.0	300.0	300.0	0.5	0.5	90.67	-0.3	29.9	29.9	29.0	0.94	31.997		
400.0	400.0	400.0	400.0	0.6	0.6	90.67	-0.3	29.9	29.9	28.6	1.28	23.302 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	-159.65	-0.3	29.9	31.6	29.9	1.63	19.324		
600.0	599.8	599.8	599.8	1.0	1.0	-162.48	-0.3	29.9	36.5	34.5	1.98	18.429		
700.0	699.5	699.5	699.5	1.2	1.2	-165.78	-0.3	29.9	44.9	42.6	2.33	19.291		
800.0	798.7	800.5	800.5	1.5	1.3	-168.12	-1.3	28.4	55.2	52.5	2.67	20.635		
900.0	897.5	901.9	901.8	1.8	1.5	-169.13	-4.1	23.9	65.7	62.7	3.02	21.730		
1,000.0	995.6	1,003.7	1,003.1	2.1	1.7	-169.35	-8.8	16.3	76.3	73.0	3.38	22.613		
1,100.0	1,093.1	1,105.8	1,104.5	2.5	2.0	-169.06	-15.5	5.5	87.0	83.3	3.74	23.263		
1,200.0	1,190.3	1,207.5	1,204.8	2.9	2.2	-168.21	-23.9	-8.0	95.5	91.4	4.13	23.140		
1,300.0	1,287.5	1,307.1	1,303.2	3.4	2.5	-167.34	-32.5	-22.0	103.4	98.8	4.52	22.845		
1,400.0	1,384.8	1,406.8	1,401.5	3.8	2.8	-166.59	-41.2	-35.9	111.2	106.3	4.93	22.562		
1,500.0	1,482.0	1,506.5	1,499.8	4.2	3.1	-165.94	-49.8	-49.9	119.1	113.7	5.34	22.293		
1,600.0	1,579.2	1,606.2	1,598.1	4.7	3.4	-165.37	-58.5	-63.8	126.9	121.2	5.76	22.039		
1,700.0	1,676.5	1,705.9	1,696.4	5.1	3.8	-164.87	-67.1	-77.8	134.8	128.6	6.18	21.801		
1,800.0	1,773.7	1,805.5	1,794.8	5.6	4.1	-164.43	-75.8	-91.7	142.7	136.1	6.61	21.578		
1,900.0	1,870.9	1,905.2	1,893.1	6.0	4.4	-164.03	-84.4	-105.7	150.6	143.6	7.05	21.370		
2,000.0	1,968.2	2,004.9	1,991.4	6.4	4.7	-163.67	-93.1	-119.6	158.5	151.0	7.49	21.175		
2,100.0	2,065.4	2,104.6	2,089.7	6.9	5.1	-163.34	-101.7	-133.6	166.4	158.5	7.93	20.994		
2,200.0	2,162.6	2,204.3	2,188.0	7.3	5.4	-163.05	-110.4	-147.5	174.4	166.0	8.37	20.825		
2,300.0	2,259.9	2,304.0	2,286.4	7.8	5.7	-162.77	-119.0	-161.5	182.3	173.5	8.82	20.668		
2,400.0	2,357.1	2,403.6	2,384.7	8.2	6.0	-162.53	-127.7	-175.4	190.2	180.9	9.27	20.520		
2,500.0	2,454.3	2,503.3	2,483.0	8.7	6.4	-162.30	-136.3	-189.4	198.1	188.4	9.72	20.383		
2,600.0	2,551.6	2,603.0	2,581.3	9.1	6.7	-162.09	-145.0	-203.3	206.1	195.9	10.17	20.254		
2,700.0	2,648.8	2,702.7	2,679.7	9.6	7.0	-161.89	-153.6	-217.3	214.0	203.4	10.63	20.133		
2,800.0	2,746.0	2,802.4	2,778.0	10.0	7.4	-161.71	-162.3	-231.2	221.9	210.9	11.09	20.019		
2,900.0	2,843.3	2,902.0	2,876.3	10.5	7.7	-161.54	-170.9	-245.2	229.9	218.3	11.54	19.912		
3,000.0	2,940.5	3,001.7	2,974.6	10.9	8.0	-161.39	-179.6	-259.1	237.8	225.8	12.00	19.812		
3,100.0	3,037.7	3,101.4	3,072.9	11.4	8.4	-161.24	-188.2	-273.1	245.8	233.3	12.46	19.717		
3,200.0	3,135.0	3,201.1	3,171.3	11.8	8.7	-161.10	-196.9	-287.0	253.7	240.8	12.93	19.628		
3,300.0	3,232.2	3,300.8	3,269.6	12.3	9.0	-160.97	-205.5	-301.0	261.7	248.3	13.39	19.543		
3,400.0	3,329.4	3,400.5	3,367.9	12.7	9.4	-160.85	-214.2	-314.9	269.6	255.8	13.85	19.463		
3,500.0	3,426.7	3,500.1	3,466.2	13.2	9.7	-160.74	-222.8	-328.9	277.6	263.2	14.32	19.387		
3,600.0	3,523.9	3,599.8	3,564.5	13.6	10.0	-160.63	-231.5	-342.8	285.5	270.7	14.78	19.315		
3,700.0	3,621.1	3,699.5	3,662.9	14.1	10.4	-160.53	-240.1	-356.8	293.5	278.2	15.25	19.247		
3,800.0	3,718.4	3,799.2	3,761.2	14.5	10.7	-160.43	-248.8	-370.7	301.4	285.7	15.71	19.182		
3,900.0	3,815.6	3,898.9	3,859.5	15.0	11.0	-160.34	-257.4	-384.7	309.4	293.2	16.18	19.120		
4,000.0	3,912.8	3,998.6	3,957.8	15.4	11.4	-160.25	-266.1	-398.6	317.3	300.7	16.65	19.061		
4,100.0	4,010.0	4,098.2	4,056.2	15.9	11.7	-160.17	-274.7	-412.6	325.3	308.2	17.11	19.005		
4,200.0	4,107.3	4,197.9	4,154.5	16.3	12.0	-160.09	-283.4	-426.5	333.2	315.6	17.58	18.952		
4,300.0	4,204.5	4,297.6	4,252.8	16.8	12.4	-160.01	-292.0	-440.5	341.2	323.1	18.05	18.900		
4,400.0	4,301.7	4,397.3	4,351.1	17.3	12.7	-159.94	-300.7	-454.4	349.1	330.6	18.52	18.851		
4,500.0	4,399.0	4,497.0	4,449.4	17.7	13.1	-159.87	-309.3	-468.4	357.1	338.1	18.99	18.804		
4,600.0	4,496.2	4,596.6	4,547.8	18.2	13.4	-159.80	-318.0	-482.3	365.1	345.6	19.46	18.759		
4,700.0	4,593.4	4,696.3	4,646.1	18.6	13.7	-159.74	-326.6	-496.3	373.0	353.1	19.93	18.716		
4,800.0	4,690.7	4,796.0	4,744.4	19.1	14.1	-159.68	-335.3	-510.2	381.0	360.6	20.40	18.675		
4,900.0	4,787.9	4,895.7	4,842.7	19.5	14.4	-159.62	-343.9	-524.2	388.9	368.1	20.87	18.635		
5,000.0	4,885.1	4,995.4	4,941.0	20.0	14.7	-159.57	-352.6	-538.1	396.9	375.5	21.34	18.597		
5,100.0	4,982.4	5,095.1	5,039.4	20.4	15.1	-159.51	-361.2	-552.1	404.8	383.0	21.81	18.560		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4F-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	5,079.6	5,194.7	5,137.7	20.9	15.4	-159.46	-369.9	-566.0	412.8	390.5	22.28	18.524		
5,300.0	5,176.8	5,294.4	5,236.0	21.3	15.7	-159.41	-378.5	-580.0	420.8	398.0	22.76	18.490		
5,400.0	5,274.1	5,394.1	5,334.3	21.8	16.1	-159.37	-387.2	-593.9	428.7	405.5	23.23	18.457		
5,500.0	5,371.3	5,493.8	5,432.6	22.2	16.4	-159.32	-395.8	-607.9	436.7	413.0	23.70	18.426		
5,600.0	5,468.5	5,593.5	5,531.0	22.7	16.7	-159.28	-404.5	-621.8	444.6	420.5	24.17	18.395		
5,700.0	5,565.8	5,693.1	5,629.3	23.1	17.1	-159.23	-413.1	-635.8	452.6	428.0	24.64	18.366		
5,800.0	5,663.0	5,792.8	5,727.6	23.6	17.4	-159.19	-421.8	-649.7	460.6	435.4	25.12	18.337		
5,900.0	5,760.2	5,892.5	5,825.9	24.0	17.8	-159.15	-430.4	-663.7	468.5	442.9	25.59	18.309		
6,000.0	5,857.5	5,992.2	5,924.3	24.5	18.1	-159.11	-439.1	-677.6	476.5	450.4	26.06	18.283		
6,100.0	5,954.7	6,091.9	6,022.6	24.9	18.4	-159.08	-447.7	-691.6	484.4	457.9	26.54	18.257		
6,200.0	6,051.9	6,191.6	6,120.9	25.4	18.8	-159.04	-456.4	-705.5	492.4	465.4	27.01	18.232		
6,300.0	6,149.2	6,291.2	6,219.2	25.8	19.1	-159.00	-465.0	-719.5	500.4	472.9	27.48	18.207		
6,400.0	6,246.4	6,390.9	6,317.5	26.3	19.4	-158.97	-473.7	-733.4	508.3	480.4	27.96	18.184		
6,500.0	6,343.6	6,490.6	6,415.9	26.7	19.8	-158.94	-482.3	-747.4	516.3	487.9	28.43	18.161		
6,600.0	6,440.9	6,590.3	6,514.2	27.2	20.1	-158.91	-491.0	-761.3	524.3	495.4	28.90	18.139		
6,700.0	6,538.1	6,690.0	6,612.5	27.6	20.5	-158.88	-499.6	-775.3	532.2	502.8	29.38	18.118		
6,800.0	6,635.3	6,789.7	6,710.8	28.1	20.8	-158.85	-508.3	-789.2	540.2	510.3	29.85	18.097		
6,900.0	6,732.6	6,889.7	6,809.5	28.5	21.1	-158.86	-516.6	-803.2	548.1	517.8	30.30	18.092		
7,000.0	6,829.8	6,989.5	6,908.1	29.0	21.3	-173.24	-513.0	-817.4	556.0	526.0	29.99	18.538		
7,100.0	6,927.1	7,086.5	7,002.0	29.3	21.4	144.29	-493.0	-830.9	564.1	535.0	29.08	19.396		
7,200.0	7,021.9	7,181.3	7,089.1	29.6	21.4	120.55	-458.3	-843.7	572.2	544.0	28.17	20.312		
7,300.0	7,111.4	7,274.2	7,167.9	29.7	21.3	108.42	-410.7	-855.3	579.9	552.5	27.40	21.166		
7,400.0	7,192.8	7,365.4	7,236.9	29.8	21.2	101.32	-352.0	-865.7	587.0	560.1	26.86	21.857		
7,500.0	7,263.7	7,455.3	7,295.0	29.9	21.1	96.72	-284.1	-874.5	593.1	566.6	26.56	22.333		
7,600.0	7,321.8	7,544.2	7,341.3	29.9	21.1	93.64	-208.8	-881.8	598.1	571.6	26.49	22.580		
7,700.0	7,365.6	7,632.2	7,375.4	30.0	21.1	91.61	-127.9	-887.4	601.6	575.0	26.61	22.609		
7,800.0	7,393.5	7,719.7	7,396.6	30.0	21.1	90.44	-43.2	-891.1	603.6	576.7	26.90	22.439		
7,900.0	7,404.8	7,806.8	7,404.9	30.1	21.3	90.00	43.5	-893.1	603.9	576.6	27.29	22.125		
8,000.0	7,405.0	7,905.1	7,405.0	30.3	21.5	90.00	141.7	-893.9	603.0	574.9	28.11	21.454		
8,100.0	7,405.0	8,005.1	7,405.0	30.6	21.9	90.00	241.7	-894.8	602.2	572.8	29.34	20.522		
8,200.0	7,405.0	8,105.1	7,405.0	30.9	22.5	90.00	341.7	-895.7	601.3	570.4	30.93	19.442		
8,300.0	7,405.0	8,205.1	7,405.0	31.4	23.2	90.00	441.7	-896.6	600.4	567.6	32.81	18.299		
8,400.0	7,405.0	8,305.1	7,405.0	31.9	23.9	90.00	541.7	-897.4	599.5	564.6	34.95	17.156		
8,500.0	7,405.0	8,405.1	7,405.0	32.6	24.8	90.00	641.7	-898.3	598.7	561.4	37.29	16.054		
8,600.0	7,405.0	8,505.1	7,405.0	33.3	25.8	90.00	741.7	-899.2	597.8	558.0	39.81	15.017		
8,700.0	7,405.0	8,605.1	7,405.0	34.1	26.8	90.00	841.7	-900.1	596.9	554.5	42.46	14.057		
8,800.0	7,405.0	8,705.1	7,405.0	34.9	27.9	90.00	941.7	-900.9	596.1	550.8	45.24	13.176		
8,900.0	7,405.0	8,805.1	7,405.0	35.9	29.1	90.00	1,041.7	-901.8	595.2	547.1	48.11	12.372		
9,000.0	7,405.0	8,905.1	7,405.0	36.8	30.4	90.00	1,141.7	-902.7	594.3	543.3	51.05	11.641		
9,100.0	7,405.0	9,005.1	7,405.0	37.9	31.6	90.00	1,241.7	-903.5	593.4	539.4	54.07	10.975		
9,200.0	7,405.0	9,105.1	7,405.0	39.0	33.0	90.00	1,341.7	-904.4	592.6	535.4	57.14	10.370		
9,300.0	7,405.0	9,205.1	7,405.0	40.1	34.3	90.00	1,441.6	-905.3	591.7	531.4	60.26	9.819		
9,400.0	7,405.0	9,305.1	7,405.0	41.3	35.7	90.00	1,541.6	-906.2	590.8	527.4	63.42	9.316		
9,500.0	7,405.0	9,405.1	7,405.0	42.5	37.2	90.00	1,641.6	-907.0	589.9	523.3	66.62	8.856		
9,600.0	7,405.0	9,505.1	7,405.0	43.8	38.6	90.00	1,741.6	-907.9	589.1	519.2	69.84	8.434		
9,700.0	7,405.0	9,605.0	7,405.0	45.1	40.1	90.00	1,841.6	-908.8	588.2	515.1	73.09	8.047		
9,800.0	7,405.0	9,705.0	7,405.0	46.4	41.6	90.00	1,941.6	-909.7	587.3	511.0	76.37	7.691		
9,900.0	7,405.0	9,805.0	7,405.0	47.8	43.1	90.00	2,041.6	-910.5	586.5	506.8	79.66	7.362		
10,000.0	7,405.0	9,905.0	7,405.0	49.2	44.7	90.00	2,141.6	-911.4	585.6	502.6	82.97	7.058		
10,100.0	7,405.0	10,005.0	7,405.0	50.6	46.2	90.00	2,241.6	-912.3	584.7	498.4	86.30	6.775		
10,200.0	7,405.0	10,105.0	7,405.0	52.0	47.8	90.00	2,341.6	-913.1	583.8	494.2	89.64	6.513		
10,300.0	7,405.0	10,205.0	7,405.0	53.4	49.4	90.00	2,441.6	-914.0	583.0	490.0	92.99	6.269		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
10,400.0	7,405.0	10,305.0	7,405.0	54.9	51.0	90.00	2,541.6	-914.9	582.1	485.7	96.36	6.041		
10,500.0	7,405.0	10,405.0	7,405.0	56.4	52.6	90.00	2,641.6	-915.8	581.2	481.5	99.73	5.828		
10,600.0	7,405.0	10,505.0	7,405.0	57.9	54.2	90.00	2,741.5	-916.6	580.3	477.2	103.11	5.628		
10,700.0	7,405.0	10,605.0	7,405.0	59.4	55.8	90.00	2,841.5	-917.5	579.5	473.0	106.51	5.441		
10,800.0	7,405.0	10,705.0	7,405.0	60.9	57.4	90.00	2,941.5	-918.4	578.6	468.7	109.90	5.265		
10,900.0	7,405.0	10,805.0	7,405.0	62.5	59.1	90.00	3,041.5	-919.3	577.7	464.4	113.31	5.099		
11,000.0	7,405.0	10,905.0	7,405.0	64.0	60.7	90.00	3,141.5	-920.1	576.9	460.1	116.72	4.942		
11,100.0	7,405.0	11,005.0	7,405.0	65.6	62.4	90.00	3,241.5	-921.0	576.0	455.8	120.14	4.794		
11,200.0	7,405.0	11,105.0	7,405.0	67.1	64.0	90.00	3,341.5	-921.9	575.1	451.6	123.56	4.655		
11,300.0	7,405.0	11,205.0	7,405.0	68.7	65.7	90.00	3,441.5	-922.7	574.2	447.3	126.98	4.522		
11,400.0	7,405.0	11,305.0	7,405.0	70.3	67.4	90.00	3,541.5	-923.6	573.4	442.9	130.42	4.396		
11,500.0	7,405.0	11,405.0	7,405.0	71.9	69.0	90.00	3,641.5	-924.5	572.5	438.6	133.85	4.277		
11,600.0	7,405.0	11,505.0	7,405.0	73.5	70.7	90.00	3,741.5	-925.4	571.6	434.3	137.29	4.164		
11,700.0	7,405.0	11,605.0	7,405.0	75.1	72.4	90.00	3,841.5	-926.2	570.7	430.0	140.73	4.056		
11,800.0	7,405.0	11,705.0	7,405.0	76.7	74.1	90.00	3,941.5	-927.1	569.9	425.7	144.18	3.953		
11,900.0	7,405.0	11,805.0	7,405.0	78.3	75.7	90.00	4,041.4	-928.0	569.0	421.4	147.62	3.854		
12,000.0	7,405.0	11,905.0	7,405.0	80.0	77.4	90.00	4,141.4	-928.9	568.1	417.1	151.08	3.761		
12,100.0	7,405.0	12,005.0	7,405.0	81.6	79.1	90.00	4,241.4	-929.7	567.3	412.7	154.53	3.671		
12,200.0	7,405.0	12,105.0	7,405.0	83.2	80.8	90.00	4,341.4	-930.6	566.4	408.4	157.98	3.585		
12,300.0	7,405.0	12,204.9	7,405.0	84.9	82.5	90.00	4,441.4	-931.5	565.5	404.1	161.44	3.503		
12,400.0	7,405.0	12,304.9	7,405.0	86.5	84.2	90.00	4,541.4	-932.3	564.6	399.7	164.90	3.424		
12,500.0	7,405.0	12,404.9	7,405.0	88.2	85.9	90.00	4,641.4	-933.2	563.8	395.4	168.37	3.348		
12,600.0	7,405.0	12,504.9	7,405.0	89.8	87.6	90.00	4,741.4	-934.1	562.9	391.1	171.83	3.276		
12,700.0	7,405.0	12,604.9	7,405.0	91.5	89.3	90.00	4,841.4	-935.0	562.0	386.7	175.30	3.206		
12,800.0	7,405.0	12,704.9	7,405.0	93.1	91.0	90.00	4,941.4	-935.8	561.1	382.4	178.76	3.139		
12,900.0	7,405.0	12,804.9	7,405.0	94.8	92.7	90.00	5,041.4	-936.7	560.3	378.0	182.23	3.075		
13,000.0	7,405.0	12,904.9	7,405.0	96.5	94.4	90.00	5,141.4	-937.6	559.4	373.7	185.70	3.012		
13,100.0	7,405.0	13,004.9	7,405.0	98.1	96.1	90.00	5,241.4	-938.5	558.5	369.4	189.17	2.952		
13,200.0	7,405.0	13,104.9	7,405.0	99.8	97.8	90.00	5,341.3	-939.3	557.7	365.0	192.65	2.895		
13,300.0	7,405.0	13,204.9	7,405.0	101.5	99.6	90.00	5,441.3	-940.2	556.8	360.7	196.12	2.839		
13,400.0	7,405.0	13,304.9	7,405.0	103.2	101.3	90.00	5,541.3	-941.1	555.9	356.3	199.60	2.785		
13,500.0	7,405.0	13,404.9	7,405.0	104.9	103.0	90.00	5,641.3	-941.9	555.0	352.0	203.07	2.733		
13,600.0	7,405.0	13,504.9	7,405.0	106.5	104.7	90.00	5,741.3	-942.8	554.2	347.6	206.55	2.683		
13,700.0	7,405.0	13,604.9	7,405.0	108.2	106.4	90.00	5,841.3	-943.7	553.3	343.3	210.03	2.634		
13,800.0	7,405.0	13,704.9	7,405.0	109.9	108.1	90.00	5,941.3	-944.6	552.4	338.9	213.51	2.587		
13,893.8	7,405.0	13,792.9	7,405.0	111.5	109.7	90.00	6,029.4	-945.2	551.8	335.1	216.67	2.547		
13,900.0	7,405.0	13,800.0	7,405.0	111.6	109.8	90.00	6,036.4	-945.2	551.8	334.9	216.91	2.544		
14,000.0	7,405.0	13,882.0	7,405.0	113.3	111.2	90.00	6,118.4	-943.7	553.6	333.5	220.07	2.516		
14,100.0	7,405.0	13,965.6	7,405.0	115.0	112.6	90.00	6,201.9	-939.7	558.3	335.1	223.27	2.501		
14,200.0	7,405.0	14,049.0	7,405.0	116.7	114.0	90.00	6,285.0	-933.3	566.0	339.5	226.46	2.499 SF		
14,300.0	7,405.0	14,131.9	7,405.0	118.4	115.4	90.00	6,367.5	-924.6	576.5	346.9	229.63	2.511		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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 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	90.51	-0.4	40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.51	-0.4	40.0	40.0	39.8	0.24	168.528		
200.0	200.0	200.0	200.0	0.3	0.3	90.51	-0.4	40.0	40.0	39.4	0.59	68.214		
300.0	300.0	300.0	300.0	0.5	0.5	90.51	-0.4	40.0	40.0	39.1	0.94	42.761		
400.0	400.0	400.0	400.0	0.6	0.6	90.51	-0.4	40.0	40.0	38.7	1.28	31.141 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	-159.52	-0.4	40.0	41.6	40.0	1.63	25.490		
600.0	599.8	599.8	599.8	1.0	1.0	-161.74	-0.4	40.0	46.6	44.6	1.98	23.503		
700.0	699.5	699.5	699.5	1.2	1.2	-164.54	-0.4	40.0	54.9	52.6	2.33	23.586		
800.0	798.7	798.7	798.7	1.5	1.3	-167.28	-0.4	40.0	66.7	64.1	2.67	24.976		
900.0	897.5	899.9	899.9	1.8	1.5	-169.04	-1.5	38.7	80.6	77.6	3.02	26.718		
1,000.0	995.6	1,001.5	1,001.3	2.1	1.7	-169.53	-5.1	34.7	95.0	91.6	3.37	28.207		
1,100.0	1,093.1	1,103.5	1,103.0	2.5	1.9	-169.23	-11.0	28.0	109.6	105.9	3.73	29.399		
1,200.0	1,190.3	1,205.2	1,203.9	2.9	2.1	-168.27	-19.3	18.7	122.3	118.2	4.11	29.721		
1,300.0	1,287.5	1,304.5	1,302.3	3.4	2.4	-167.30	-27.9	9.0	134.3	129.8	4.51	29.775		
1,400.0	1,384.8	1,403.7	1,400.7	3.8	2.6	-166.49	-36.6	-0.7	146.3	141.4	4.91	29.771		
1,500.0	1,482.0	1,503.0	1,499.1	4.2	2.9	-165.80	-45.2	-10.4	158.3	153.0	5.33	29.729		
1,600.0	1,579.2	1,602.2	1,597.5	4.7	3.1	-165.21	-53.9	-20.2	170.4	164.6	5.74	29.662		
1,700.0	1,676.5	1,701.5	1,695.9	5.1	3.4	-164.69	-62.5	-29.9	182.5	176.3	6.17	29.579		
1,800.0	1,773.7	1,800.7	1,794.3	5.6	3.7	-164.24	-71.2	-39.6	194.5	187.9	6.60	29.487		
1,900.0	1,870.9	1,900.0	1,892.7	6.0	3.9	-163.85	-79.8	-49.3	206.6	199.6	7.03	29.390		
2,000.0	1,968.2	1,999.2	1,991.1	6.4	4.2	-163.49	-88.5	-59.1	218.7	211.3	7.47	29.291		
2,100.0	2,065.4	2,098.5	2,089.5	6.9	4.5	-163.18	-97.1	-68.8	230.9	222.9	7.91	29.193		
2,200.0	2,162.6	2,197.8	2,187.9	7.3	4.8	-162.89	-105.8	-78.5	243.0	234.6	8.35	29.097		
2,300.0	2,259.9	2,297.0	2,286.3	7.8	5.0	-162.63	-114.4	-88.2	255.1	246.3	8.80	29.003		
2,400.0	2,357.1	2,396.3	2,384.7	8.2	5.3	-162.40	-123.1	-97.9	267.2	258.0	9.24	28.912		
2,500.0	2,454.3	2,495.5	2,483.1	8.7	5.6	-162.19	-131.7	-107.7	279.4	269.7	9.69	28.825		
2,600.0	2,551.6	2,594.8	2,581.5	9.1	5.9	-161.99	-140.4	-117.4	291.5	281.3	10.14	28.741		
2,700.0	2,648.8	2,694.0	2,679.9	9.6	6.2	-161.81	-149.0	-127.1	303.6	293.0	10.59	28.661		
2,800.0	2,746.0	2,793.3	2,778.3	10.0	6.4	-161.64	-157.7	-136.8	315.8	304.7	11.05	28.584		
2,900.0	2,843.3	2,892.5	2,876.7	10.5	6.7	-161.49	-166.3	-146.6	327.9	316.4	11.50	28.511		
3,000.0	2,940.5	2,991.8	2,975.1	10.9	7.0	-161.35	-175.0	-156.3	340.1	328.1	11.96	28.441		
3,100.0	3,037.7	3,091.1	3,073.4	11.4	7.3	-161.21	-183.7	-166.0	352.2	339.8	12.41	28.374		
3,200.0	3,135.0	3,190.3	3,171.8	11.8	7.6	-161.09	-192.3	-175.7	364.4	351.5	12.87	28.310		
3,300.0	3,232.2	3,289.6	3,270.2	12.3	7.8	-160.97	-201.0	-185.5	376.5	363.2	13.33	28.250		
3,400.0	3,329.4	3,388.8	3,368.6	12.7	8.1	-160.86	-209.6	-195.2	388.7	374.9	13.79	28.192		
3,500.0	3,426.7	3,488.1	3,467.0	13.2	8.4	-160.76	-218.3	-204.9	400.8	386.6	14.25	28.136		
3,600.0	3,523.9	3,587.3	3,565.4	13.6	8.7	-160.66	-226.9	-214.6	413.0	398.3	14.71	28.083		
3,700.0	3,621.1	3,686.6	3,663.8	14.1	9.0	-160.57	-235.6	-224.3	425.1	410.0	15.17	28.032		
3,800.0	3,718.4	3,785.9	3,762.2	14.5	9.3	-160.49	-244.2	-234.1	437.3	421.7	15.63	27.984		
3,900.0	3,815.6	3,885.1	3,860.6	15.0	9.5	-160.40	-252.9	-243.8	449.4	433.4	16.09	27.937		
4,000.0	3,912.8	3,984.4	3,959.0	15.4	9.8	-160.33	-261.5	-253.5	461.6	445.1	16.55	27.893		
4,100.0	4,010.0	4,083.6	4,057.4	15.9	10.1	-160.25	-270.2	-263.2	473.8	456.7	17.01	27.850		
4,200.0	4,107.3	4,182.9	4,155.8	16.3	10.4	-160.19	-278.8	-273.0	485.9	468.4	17.47	27.809		
4,300.0	4,204.5	4,282.1	4,254.2	16.8	10.7	-160.12	-287.5	-282.7	498.1	480.1	17.94	27.770		
4,400.0	4,301.7	4,381.4	4,352.6	17.3	11.0	-160.06	-296.1	-292.4	510.2	491.8	18.40	27.732		
4,500.0	4,399.0	4,480.6	4,451.0	17.7	11.2	-160.00	-304.8	-302.1	522.4	503.5	18.86	27.696		
4,600.0	4,496.2	4,579.9	4,549.4	18.2	11.5	-159.94	-313.4	-311.9	534.6	515.2	19.33	27.661		
4,700.0	4,593.4	4,679.2	4,647.8	18.6	11.8	-159.88	-322.1	-321.6	546.7	526.9	19.79	27.627		
4,800.0	4,690.7	4,778.4	4,746.2	19.1	12.1	-159.83	-330.7	-331.3	558.9	538.6	20.25	27.595		
4,900.0	4,787.9	4,877.7	4,844.6	19.5	12.4	-159.78	-339.4	-341.0	571.1	550.3	20.72	27.564		
5,000.0	4,885.1	4,976.9	4,943.0	20.0	12.7	-159.73	-348.0	-350.7	583.2	562.0	21.18	27.534		
5,100.0	4,982.4	5,076.2	5,041.4	20.4	13.0	-159.69	-356.7	-360.5	595.4	573.7	21.65	27.505		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	5,079.6	5,175.4	5,139.8	20.9	13.2	-159.64	-365.3	-370.2	607.6	585.4	22.11	27.477		
5,300.0	5,176.8	5,274.7	5,238.2	21.3	13.5	-159.60	-374.0	-379.9	619.7	597.1	22.58	27.450		
5,400.0	5,274.1	5,374.0	5,336.6	21.8	13.8	-159.56	-382.6	-389.6	631.9	608.8	23.04	27.424		
5,500.0	5,371.3	5,473.2	5,435.0	22.2	14.1	-159.52	-391.3	-399.4	644.1	620.5	23.51	27.399		
5,600.0	5,468.5	5,572.5	5,533.4	22.7	14.4	-159.48	-399.9	-409.1	656.2	632.2	23.97	27.374		
5,700.0	5,565.8	5,671.7	5,631.8	23.1	14.7	-159.45	-408.6	-418.8	668.4	643.9	24.44	27.351		
5,800.0	5,663.0	5,771.0	5,730.2	23.6	15.0	-159.41	-417.2	-428.5	680.6	655.7	24.90	27.328		
5,900.0	5,760.2	5,870.2	5,828.6	24.0	15.2	-159.38	-425.9	-438.3	692.7	667.4	25.37	27.306		
6,000.0	5,857.5	5,969.5	5,927.0	24.5	15.5	-159.35	-434.5	-448.0	704.9	679.1	25.84	27.284		
6,100.0	5,954.7	6,068.7	6,025.4	24.9	15.8	-159.31	-443.2	-457.7	717.1	690.8	26.30	27.263		
6,200.0	6,051.9	6,168.0	6,123.8	25.4	16.1	-159.28	-451.8	-467.4	729.2	702.5	26.77	27.243		
6,300.0	6,149.2	6,267.3	6,222.2	25.8	16.4	-159.25	-460.5	-477.1	741.4	714.2	27.23	27.224		
6,400.0	6,246.4	6,366.5	6,320.6	26.3	16.7	-159.23	-469.1	-486.9	753.6	725.9	27.70	27.205		
6,500.0	6,343.6	6,465.8	6,419.0	26.7	17.0	-159.20	-477.8	-496.6	765.7	737.6	28.17	27.186		
6,600.0	6,440.9	6,565.0	6,517.4	27.2	17.2	-159.17	-486.4	-506.3	777.9	749.3	28.63	27.168		
6,700.0	6,538.1	6,664.3	6,615.8	27.6	17.5	-159.15	-495.1	-516.0	790.1	761.0	29.10	27.151		
6,800.0	6,635.3	6,763.5	6,714.2	28.1	17.8	-159.12	-503.7	-525.8	802.2	772.7	29.57	27.134		
6,900.0	6,732.6	6,862.8	6,812.6	28.5	18.1	-159.10	-512.4	-535.5	814.4	784.4	30.03	27.118		
7,000.0	6,829.8	6,962.1	6,911.1	29.0	18.4	-172.46	-519.9	-545.2	826.6	796.3	30.31	27.275		
7,100.0	6,927.1	7,061.3	7,009.6	29.3	18.5	146.09	-513.7	-554.9	838.8	808.8	29.94	28.014		
7,200.0	7,021.9	7,160.6	7,105.5	29.6	18.5	123.27	-490.6	-564.4	850.6	821.3	29.36	28.972		
7,300.0	7,111.4	7,259.9	7,196.1	29.7	18.3	111.96	-451.1	-573.4	861.8	833.1	28.68	30.049		
7,400.0	7,192.8	7,359.4	7,278.6	29.8	18.1	105.54	-396.4	-581.5	872.0	844.0	28.02	31.126		
7,500.0	7,263.7	7,459.0	7,350.7	29.9	17.9	101.51	-328.1	-588.7	880.9	853.4	27.46	32.077		
7,600.0	7,321.8	7,558.9	7,410.0	29.9	17.7	98.86	-248.2	-594.5	888.2	861.1	27.09	32.780		
7,700.0	7,365.6	7,658.9	7,454.6	30.0	17.6	97.14	-158.9	-598.9	893.6	866.7	26.97	33.133		
7,800.0	7,393.5	7,759.1	7,483.2	30.0	17.6	96.14	-63.0	-601.7	897.1	870.0	27.12	33.079		
7,900.0	7,404.8	7,859.4	7,494.8	30.1	17.8	95.76	36.4	-602.9	898.5	871.0	27.55	32.620		
8,000.0	7,405.0	7,959.4	7,495.0	30.3	18.1	95.75	136.5	-602.9	898.6	870.2	28.37	31.668		
8,100.0	7,405.0	8,059.4	7,495.0	30.6	18.6	95.75	236.5	-602.9	898.6	869.0	29.58	30.378		
8,200.0	7,405.0	8,159.4	7,495.0	30.9	19.2	95.75	336.5	-602.9	898.6	867.4	31.13	28.864		
8,300.0	7,405.0	8,259.4	7,495.0	31.4	19.9	95.75	436.5	-602.9	898.6	865.6	32.98	27.246		
8,400.0	7,405.0	8,359.4	7,495.0	31.9	20.8	95.75	536.5	-602.9	898.6	863.5	35.08	25.615		
8,500.0	7,405.0	8,459.4	7,495.0	32.6	21.8	95.75	636.5	-602.9	898.6	861.2	37.39	24.033		
8,600.0	7,405.0	8,559.4	7,495.0	33.3	22.9	95.75	736.5	-602.9	898.6	858.7	39.87	22.538		
8,700.0	7,405.0	8,659.4	7,495.0	34.1	24.1	95.75	836.5	-602.9	898.6	856.1	42.49	21.146		
8,800.0	7,405.0	8,759.4	7,495.0	34.9	25.3	95.75	936.5	-602.9	898.6	853.3	45.23	19.865		
8,900.0	7,405.0	8,859.4	7,495.0	35.9	26.6	95.75	1,036.5	-602.9	898.6	850.5	48.07	18.692		
9,000.0	7,405.0	8,959.4	7,495.0	36.8	27.9	95.75	1,136.5	-602.9	898.6	847.6	50.99	17.622		
9,100.0	7,405.0	9,059.4	7,495.0	37.9	29.3	95.75	1,236.5	-602.9	898.6	844.6	53.98	16.647		
9,200.0	7,405.0	9,159.4	7,495.0	39.0	30.7	95.75	1,336.5	-602.9	898.6	841.5	57.02	15.758		
9,300.0	7,405.0	9,259.4	7,495.0	40.1	32.2	95.75	1,436.5	-602.9	898.6	838.5	60.12	14.947		
9,400.0	7,405.0	9,359.4	7,495.0	41.3	33.7	95.75	1,536.5	-602.9	898.6	835.3	63.25	14.206		
9,500.0	7,405.0	9,459.4	7,495.0	42.5	35.2	95.75	1,636.5	-602.9	898.6	832.1	66.42	13.528		
9,600.0	7,405.0	9,559.4	7,495.0	43.8	36.7	95.75	1,736.5	-602.9	898.6	828.9	69.62	12.906		
9,700.0	7,405.0	9,659.4	7,495.0	45.1	38.2	95.75	1,836.5	-602.9	898.6	825.7	72.85	12.335		
9,800.0	7,405.0	9,759.4	7,495.0	46.4	39.8	95.75	1,936.5	-602.9	898.6	822.5	76.10	11.808		
9,900.0	7,405.0	9,859.4	7,495.0	47.8	41.4	95.75	2,036.5	-602.9	898.6	819.2	79.37	11.321		
10,000.0	7,405.0	9,959.4	7,495.0	49.2	43.0	95.75	2,136.5	-602.9	898.6	815.9	82.66	10.871		
10,100.0	7,405.0	10,059.4	7,495.0	50.6	44.6	95.75	2,236.5	-602.9	898.6	812.6	85.97	10.453		
10,200.0	7,405.0	10,159.4	7,495.0	52.0	46.2	95.75	2,336.5	-602.9	898.6	809.3	89.28	10.064		
10,300.0	7,405.0	10,259.4	7,495.0	53.4	47.8	95.75	2,436.5	-602.9	898.6	805.9	92.62	9.702		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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		
10,400.0	7,405.0	10,359.4	7,495.0	54.9	49.5	95.75	2,536.5	-602.9	898.6	802.6	95.96	9.364	
10,500.0	7,405.0	10,459.4	7,495.0	56.4	51.1	95.75	2,636.5	-602.9	898.6	799.3	99.31	9.048	
10,600.0	7,405.0	10,559.4	7,495.0	57.9	52.8	95.75	2,736.5	-602.9	898.6	795.9	102.67	8.752	
10,700.0	7,405.0	10,659.4	7,495.0	59.4	54.4	95.75	2,836.5	-602.9	898.6	792.5	106.05	8.473	
10,800.0	7,405.0	10,759.4	7,495.0	60.9	56.1	95.75	2,936.5	-602.9	898.6	789.1	109.42	8.212	
10,900.0	7,405.0	10,859.4	7,495.0	62.5	57.7	95.75	3,036.5	-602.9	898.6	785.8	112.81	7.965	
11,000.0	7,405.0	10,959.4	7,495.0	64.0	59.4	95.75	3,136.5	-602.9	898.6	782.4	116.20	7.733	
11,100.0	7,405.0	11,059.4	7,495.0	65.6	61.1	95.75	3,236.5	-602.9	898.6	779.0	119.60	7.513	
11,200.0	7,405.0	11,159.4	7,495.0	67.1	62.8	95.75	3,336.5	-602.9	898.6	775.6	123.00	7.305	
11,300.0	7,405.0	11,259.4	7,495.0	68.7	64.5	95.75	3,436.5	-602.9	898.6	772.2	126.41	7.109	
11,400.0	7,405.0	11,359.4	7,495.0	70.3	66.2	95.75	3,536.5	-602.9	898.6	768.7	129.82	6.922	
11,500.0	7,405.0	11,459.4	7,495.0	71.9	67.8	95.75	3,636.5	-602.9	898.6	765.3	133.23	6.744	
11,600.0	7,405.0	11,559.4	7,495.0	73.5	69.5	95.75	3,736.5	-602.9	898.6	761.9	136.65	6.576	
11,700.0	7,405.0	11,659.4	7,495.0	75.1	71.2	95.75	3,836.5	-602.9	898.6	758.5	140.08	6.415	
11,800.0	7,405.0	11,759.4	7,495.0	76.7	72.9	95.75	3,936.5	-602.9	898.6	755.1	143.50	6.262	
11,900.0	7,405.0	11,859.4	7,495.0	78.3	74.6	95.75	4,036.5	-602.9	898.6	751.6	146.93	6.116	
12,000.0	7,405.0	11,959.4	7,495.0	80.0	76.4	95.75	4,136.5	-602.9	898.6	748.2	150.36	5.976	
12,100.0	7,405.0	12,059.4	7,495.0	81.6	78.1	95.75	4,236.5	-602.9	898.6	744.8	153.80	5.842	
12,200.0	7,405.0	12,159.4	7,495.0	83.2	79.8	95.75	4,336.5	-602.9	898.6	741.3	157.23	5.715	
12,300.0	7,405.0	12,259.4	7,495.0	84.9	81.5	95.75	4,436.5	-602.9	898.6	737.9	160.67	5.592	
12,400.0	7,405.0	12,359.4	7,495.0	86.5	83.2	95.75	4,536.5	-602.9	898.6	734.4	164.12	5.475	
12,500.0	7,405.0	12,459.4	7,495.0	88.2	84.9	95.75	4,636.5	-602.9	898.6	731.0	167.56	5.363	
12,600.0	7,405.0	12,559.4	7,495.0	89.8	86.6	95.75	4,736.5	-602.9	898.6	727.6	171.01	5.255	
12,700.0	7,405.0	12,659.4	7,495.0	91.5	88.3	95.75	4,836.5	-602.9	898.6	724.1	174.45	5.151	
12,800.0	7,405.0	12,759.4	7,495.0	93.1	90.1	95.75	4,936.5	-602.9	898.6	720.7	177.90	5.051	
12,900.0	7,405.0	12,859.4	7,495.0	94.8	91.8	95.75	5,036.5	-602.9	898.6	717.2	181.35	4.955	
13,000.0	7,405.0	12,959.4	7,495.0	96.5	93.5	95.75	5,136.5	-602.9	898.6	713.8	184.80	4.862	
13,100.0	7,405.0	13,059.4	7,495.0	98.1	95.2	95.75	5,236.5	-602.9	898.6	710.3	188.26	4.773	
13,200.0	7,405.0	13,159.4	7,495.0	99.8	97.0	95.75	5,336.5	-602.9	898.6	706.8	191.71	4.687	
13,300.0	7,405.0	13,259.4	7,495.0	101.5	98.7	95.75	5,436.5	-602.9	898.6	703.4	195.17	4.604	
13,400.0	7,405.0	13,359.4	7,495.0	103.2	100.4	95.75	5,536.5	-602.9	898.6	699.9	198.63	4.524	
13,500.0	7,405.0	13,459.4	7,495.0	104.9	102.1	95.75	5,636.5	-602.9	898.6	696.5	202.08	4.446	
13,600.0	7,405.0	13,559.4	7,495.0	106.5	103.9	95.75	5,736.5	-602.9	898.6	693.0	205.54	4.372	
13,700.0	7,405.0	13,659.4	7,495.0	108.2	105.6	95.75	5,836.5	-602.9	898.6	689.6	209.01	4.299	
13,800.0	7,405.0	13,759.4	7,495.0	109.9	107.3	95.75	5,936.5	-602.9	898.6	686.1	212.47	4.229	
13,900.0	7,405.0	13,859.4	7,495.0	111.6	109.1	95.75	6,036.5	-602.9	898.6	682.6	215.93	4.161	
14,000.0	7,405.0	13,959.4	7,495.0	113.3	110.8	95.75	6,136.5	-602.9	898.6	679.2	219.39	4.096	
14,100.0	7,405.0	14,059.4	7,495.0	115.0	112.5	95.75	6,236.5	-602.9	898.6	675.7	222.86	4.032	
14,200.0	7,405.0	14,159.4	7,495.0	116.7	114.2	95.75	6,336.5	-602.9	898.6	672.2	226.32	3.970	
14,300.0	7,405.0	14,259.4	7,495.0	118.4	116.0	95.75	6,436.5	-602.9	898.6	668.8	229.79	3.910 SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4H-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		
0.0	0.0	1.0	1.0	0.0	0.0	90.42	-0.4	49.8	49.8						
100.0	100.0	101.0	101.0	0.1	0.1	90.42	-0.4	49.8	49.8	49.6	0.24	208.242			
200.0	200.0	201.0	201.0	0.3	0.3	90.42	-0.4	49.8	49.8	49.2	0.59	84.656			
300.0	300.0	301.0	301.0	0.5	0.5	90.42	-0.4	49.8	49.8	48.9	0.94	53.127			
400.0	400.0	401.0	401.0	0.6	0.6	90.42	-0.4	49.8	49.8	48.5	1.29	38.710 CC, ES			
500.0	500.0	501.0	501.0	0.8	0.8	-159.44	-0.4	49.8	51.4	49.8	1.64	31.450			
600.0	599.8	600.8	600.8	1.0	1.0	-161.28	-0.4	49.8	56.4	54.4	1.98	28.413			
700.0	699.5	700.5	700.5	1.2	1.2	-163.71	-0.4	49.8	64.7	62.3	2.33	27.747 SF			
800.0	798.7	799.7	799.7	1.5	1.3	-166.21	-0.4	49.8	76.4	73.8	2.68	28.574			
900.0	897.5	898.5	898.5	1.8	1.5	-168.48	-0.4	49.8	91.7	88.7	3.02	30.411			
1,000.0	995.6	998.0	997.9	2.1	1.7	-169.59	-2.0	49.5	109.9	106.5	3.36	32.732			
1,100.0	1,093.1	1,098.7	1,098.5	2.5	1.9	-169.29	-7.0	48.3	129.9	126.2	3.71	35.004			
1,200.0	1,190.3	1,201.6	1,201.2	2.9	2.1	-168.54	-14.2	44.3	148.0	143.9	4.09	36.132			
1,300.0	1,287.5	1,302.2	1,301.1	3.4	2.3	-167.59	-22.7	38.0	163.4	158.9	4.49	36.410			
1,400.0	1,384.8	1,401.0	1,399.4	3.8	2.5	-166.78	-31.2	31.6	178.7	173.8	4.89	36.565			
1,500.0	1,482.0	1,499.8	1,497.6	4.2	2.7	-166.11	-39.7	25.2	194.0	188.7	5.29	36.648			
1,600.0	1,579.2	1,598.6	1,595.8	4.7	2.9	-165.53	-48.2	18.8	209.3	203.6	5.71	36.682			
1,700.0	1,676.5	1,697.4	1,694.0	5.1	3.2	-165.03	-56.7	12.4	224.7	218.5	6.12	36.681			
1,800.0	1,773.7	1,796.2	1,792.3	5.6	3.4	-164.59	-65.2	5.9	240.0	233.5	6.55	36.657			
1,900.0	1,870.9	1,895.0	1,890.5	6.0	3.6	-164.21	-73.6	-0.5	255.4	248.4	6.97	36.617			
2,000.0	1,968.2	1,993.8	1,988.7	6.4	3.9	-163.87	-82.1	-6.9	270.8	263.4	7.41	36.566			
2,100.0	2,065.4	2,092.6	2,086.9	6.9	4.1	-163.57	-90.6	-13.3	286.2	278.3	7.84	36.508			
2,200.0	2,162.6	2,191.4	2,185.2	7.3	4.4	-163.30	-99.1	-19.7	301.6	293.3	8.27	36.445			
2,300.0	2,259.9	2,290.2	2,283.4	7.8	4.6	-163.05	-107.6	-26.1	317.0	308.3	8.71	36.381			
2,400.0	2,357.1	2,389.0	2,381.6	8.2	4.8	-162.83	-116.1	-32.5	332.4	323.2	9.15	36.316			
2,500.0	2,454.3	2,487.8	2,479.8	8.7	5.1	-162.62	-124.6	-38.9	347.8	338.2	9.59	36.250			
2,600.0	2,551.6	2,586.6	2,578.0	9.1	5.3	-162.44	-133.1	-45.3	363.2	353.2	10.04	36.186			
2,700.0	2,648.8	2,685.4	2,676.3	9.6	5.6	-162.27	-141.6	-51.7	378.6	368.1	10.48	36.123			
2,800.0	2,746.0	2,784.2	2,774.5	10.0	5.8	-162.11	-150.1	-58.1	394.1	383.1	10.93	36.061			
2,900.0	2,843.3	2,883.0	2,872.7	10.5	6.1	-161.96	-158.6	-64.6	409.5	398.1	11.37	36.001			
3,000.0	2,940.5	2,981.8	2,970.9	10.9	6.3	-161.83	-167.1	-71.0	424.9	413.1	11.82	35.943			
3,100.0	3,037.7	3,080.6	3,069.2	11.4	6.6	-161.70	-175.6	-77.4	440.3	428.1	12.27	35.887			
3,200.0	3,135.0	3,179.4	3,167.4	11.8	6.8	-161.59	-184.1	-83.8	455.8	443.1	12.72	35.833			
3,300.0	3,232.2	3,278.2	3,265.6	12.3	7.1	-161.48	-192.6	-90.2	471.2	458.0	13.17	35.781			
3,400.0	3,329.4	3,377.0	3,363.8	12.7	7.3	-161.38	-201.1	-96.6	486.6	473.0	13.62	35.731			
3,500.0	3,426.7	3,475.7	3,462.1	13.2	7.6	-161.28	-209.6	-103.0	502.1	488.0	14.07	35.682			
3,600.0	3,523.9	3,574.5	3,560.3	13.6	7.8	-161.19	-218.1	-109.4	517.5	503.0	14.52	35.636			
3,700.0	3,621.1	3,673.3	3,658.5	14.1	8.1	-161.10	-226.5	-115.8	533.0	518.0	14.97	35.591			
3,800.0	3,718.4	3,772.1	3,756.7	14.5	8.3	-161.02	-235.0	-122.2	548.4	533.0	15.43	35.548			
3,900.0	3,815.6	3,870.9	3,854.9	15.0	8.6	-160.95	-243.5	-128.7	563.8	548.0	15.88	35.506			
4,000.0	3,912.8	3,969.7	3,953.2	15.4	8.8	-160.88	-252.0	-135.1	579.3	563.0	16.33	35.466			
4,100.0	4,010.0	4,068.5	4,051.4	15.9	9.1	-160.81	-260.5	-141.5	594.7	577.9	16.79	35.428			
4,200.0	4,107.3	4,167.3	4,149.6	16.3	9.3	-160.74	-269.0	-147.9	610.2	592.9	17.24	35.390			
4,300.0	4,204.5	4,266.1	4,247.8	16.8	9.6	-160.68	-277.5	-154.3	625.6	607.9	17.70	35.355			
4,400.0	4,301.7	4,364.9	4,346.1	17.3	9.8	-160.62	-286.0	-160.7	641.1	622.9	18.15	35.320			
4,500.0	4,399.0	4,463.7	4,444.3	17.7	10.1	-160.57	-294.5	-167.1	656.5	637.9	18.60	35.287			
4,600.0	4,496.2	4,562.5	4,542.5	18.2	10.3	-160.51	-303.0	-173.5	672.0	652.9	19.06	35.255			
4,700.0	4,593.4	4,661.3	4,640.7	18.6	10.6	-160.46	-311.5	-179.9	687.4	667.9	19.52	35.224			
4,800.0	4,690.7	4,760.1	4,739.0	19.1	10.8	-160.41	-320.0	-186.3	702.9	682.9	19.97	35.194			
4,900.0	4,787.9	4,858.9	4,837.2	19.5	11.1	-160.37	-328.5	-192.7	718.3	697.9	20.43	35.165			
5,000.0	4,885.1	4,957.7	4,935.4	20.0	11.3	-160.32	-337.0	-199.2	733.8	712.9	20.88	35.138			
5,100.0	4,982.4	5,056.5	5,033.6	20.4	11.6	-160.28	-345.5	-205.6	749.2	727.9	21.34	35.111			

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4H-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	5,079.6	5,155.3	5,131.8	20.9	11.8	-160.24	-354.0	-212.0	764.7	742.9	21.79	35.085		
5,300.0	5,176.8	5,254.1	5,230.1	21.3	12.1	-160.20	-362.5	-218.4	780.1	757.9	22.25	35.059		
5,400.0	5,274.1	5,352.9	5,328.3	21.8	12.3	-160.16	-371.0	-224.8	795.6	772.9	22.71	35.035		
5,500.0	5,371.3	5,451.7	5,426.5	22.2	12.6	-160.13	-379.5	-231.2	811.0	787.8	23.16	35.011		
5,600.0	5,468.5	5,550.5	5,524.7	22.7	12.9	-160.09	-387.9	-237.6	826.5	802.8	23.62	34.988		
5,700.0	5,565.8	5,649.3	5,623.0	23.1	13.1	-160.06	-396.4	-244.0	841.9	817.8	24.08	34.966		
5,800.0	5,663.0	5,748.1	5,721.2	23.6	13.4	-160.02	-404.9	-250.4	857.4	832.8	24.53	34.945		
5,900.0	5,760.2	5,846.9	5,819.4	24.0	13.6	-159.99	-413.4	-256.8	872.8	847.8	24.99	34.924		
6,000.0	5,857.5	5,945.7	5,917.6	24.5	13.9	-159.96	-421.9	-263.3	888.3	862.8	25.45	34.904		
6,100.0	5,954.7	6,044.5	6,015.9	24.9	14.1	-159.93	-430.4	-269.7	903.7	877.8	25.91	34.884		
6,200.0	6,051.9	6,143.3	6,114.1	25.4	14.4	-159.90	-438.9	-276.1	919.2	892.8	26.36	34.865		
6,300.0	6,149.2	6,242.1	6,212.3	25.8	14.6	-159.88	-447.4	-282.5	934.6	907.8	26.82	34.846		
6,400.0	6,246.4	6,340.9	6,310.5	26.3	14.9	-159.85	-455.9	-288.9	950.1	922.8	27.28	34.828		
6,500.0	6,343.6	6,439.7	6,408.7	26.7	15.1	-159.83	-464.4	-295.3	965.5	937.8	27.74	34.811		
6,600.0	6,440.9	6,538.5	6,507.0	27.2	15.4	-159.80	-472.9	-301.7	981.0	952.8	28.19	34.794		
6,700.0	6,538.1	6,637.3	6,605.2	27.6	15.6	-159.78	-481.4	-308.1	996.4	967.8	28.65	34.777		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4I-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	1.0	1.0	0.0	0.0	90.36	-0.4	59.9	59.9					
100.0	100.0	101.0	101.0	0.1	0.1	90.36	-0.4	59.9	59.9	59.6	0.24	250.357		
200.0	200.0	201.0	201.0	0.3	0.3	90.36	-0.4	59.9	59.9	59.3	0.59	101.777		
300.0	300.0	301.0	301.0	0.5	0.5	90.36	-0.4	59.9	59.9	58.9	0.94	63.871		
400.0	400.0	401.0	401.0	0.6	0.6	90.36	-0.4	59.9	59.9	58.6	1.29	46.539 CC, ES		
500.0	500.0	501.0	501.0	0.8	0.8	-159.38	-0.4	59.9	61.5	59.9	1.64	37.609		
600.0	599.8	600.8	600.8	1.0	1.0	-160.94	-0.4	59.9	66.4	64.4	1.98	33.486		
700.0	699.5	700.5	700.5	1.2	1.2	-163.08	-0.4	59.9	74.7	72.4	2.33	32.050 SF		
800.0	798.7	799.7	799.7	1.5	1.3	-165.37	-0.4	59.9	86.4	83.8	2.68	32.299		
900.0	897.5	898.5	898.5	1.8	1.5	-167.53	-0.4	59.9	101.7	98.6	3.02	33.685		
1,000.0	995.6	996.6	996.6	2.1	1.7	-169.42	-0.4	59.9	120.4	117.0	3.35	35.882		
1,100.0	1,093.1	1,097.1	1,097.1	2.5	1.9	-170.54	-1.8	59.1	141.4	137.8	3.70	38.255		
1,200.0	1,190.3	1,198.5	1,198.4	2.9	2.0	-170.48	-6.5	56.7	161.3	157.3	4.06	39.716		
1,300.0	1,287.5	1,300.5	1,299.9	3.4	2.2	-169.53	-14.3	52.6	179.0	174.6	4.45	40.270		
1,400.0	1,384.8	1,399.0	1,397.9	3.8	2.4	-168.41	-23.3	47.9	195.8	191.0	4.84	40.479		
1,500.0	1,482.0	1,497.5	1,495.9	4.2	2.7	-167.47	-32.2	43.2	212.7	207.4	5.24	40.590		
1,600.0	1,579.2	1,596.0	1,593.9	4.7	2.9	-166.67	-41.2	38.5	229.6	223.9	5.65	40.632		
1,700.0	1,676.5	1,694.5	1,691.9	5.1	3.1	-165.98	-50.1	33.8	246.5	240.5	6.07	40.626		
1,800.0	1,773.7	1,793.0	1,789.9	5.6	3.3	-165.38	-59.1	29.1	263.5	257.0	6.49	40.587		
1,900.0	1,870.9	1,891.5	1,887.9	6.0	3.5	-164.85	-68.0	24.4	280.5	273.6	6.92	40.525		
2,000.0	1,968.2	1,990.1	1,985.9	6.4	3.8	-164.38	-77.0	19.8	297.5	290.2	7.36	40.449		
2,100.0	2,065.4	2,088.6	2,083.9	6.9	4.0	-163.96	-85.9	15.1	314.6	306.8	7.79	40.363		
2,200.0	2,162.6	2,187.1	2,181.9	7.3	4.2	-163.58	-94.9	10.4	331.6	323.4	8.23	40.271		
2,300.0	2,259.9	2,285.6	2,279.9	7.8	4.5	-163.24	-103.8	5.7	348.7	340.0	8.68	40.177		
2,400.0	2,357.1	2,384.1	2,377.9	8.2	4.7	-162.94	-112.8	1.0	365.7	356.6	9.12	40.082		
2,500.0	2,454.3	2,482.6	2,475.8	8.7	4.9	-162.66	-121.7	-3.7	382.8	373.2	9.57	39.987		
2,600.0	2,551.6	2,581.1	2,573.8	9.1	5.2	-162.40	-130.7	-8.4	399.9	389.9	10.02	39.894		
2,700.0	2,648.8	2,679.7	2,671.8	9.6	5.4	-162.17	-139.6	-13.1	417.0	406.5	10.48	39.803		
2,800.0	2,746.0	2,778.2	2,769.8	10.0	5.7	-161.95	-148.6	-17.7	434.1	423.2	10.93	39.715		
2,900.0	2,843.3	2,876.7	2,867.8	10.5	5.9	-161.75	-157.5	-22.4	451.2	439.8	11.39	39.629		
3,000.0	2,940.5	2,975.2	2,965.8	10.9	6.1	-161.56	-166.5	-27.1	468.3	456.5	11.84	39.546		
3,100.0	3,037.7	3,073.7	3,063.8	11.4	6.4	-161.39	-175.4	-31.8	485.5	473.2	12.30	39.467		
3,200.0	3,135.0	3,172.2	3,161.8	11.8	6.6	-161.23	-184.4	-36.5	502.6	489.8	12.76	39.390		
3,300.0	3,232.2	3,270.7	3,259.8	12.3	6.9	-161.08	-193.3	-41.2	519.7	506.5	13.22	39.316		
3,400.0	3,329.4	3,369.3	3,357.8	12.7	7.1	-160.94	-202.3	-45.9	536.8	523.2	13.68	39.245		
3,500.0	3,426.7	3,467.8	3,455.8	13.2	7.3	-160.81	-211.2	-50.6	554.0	539.8	14.14	39.176		
3,600.0	3,523.9	3,566.3	3,553.8	13.6	7.6	-160.69	-220.2	-55.2	571.1	556.5	14.60	39.111		
3,700.0	3,621.1	3,664.8	3,651.8	14.1	7.8	-160.57	-229.1	-59.9	588.3	573.2	15.07	39.048		
3,800.0	3,718.4	3,763.3	3,749.8	14.5	8.1	-160.46	-238.1	-64.6	605.4	589.9	15.53	38.987		
3,900.0	3,815.6	3,861.8	3,847.8	15.0	8.3	-160.35	-247.0	-69.3	622.5	606.5	15.99	38.929		
4,000.0	3,912.8	3,960.3	3,945.8	15.4	8.6	-160.26	-256.0	-74.0	639.7	623.2	16.46	38.873		
4,100.0	4,010.0	4,058.8	4,043.8	15.9	8.8	-160.16	-264.9	-78.7	656.8	639.9	16.92	38.819		
4,200.0	4,107.3	4,157.4	4,141.7	16.3	9.0	-160.07	-273.8	-83.4	674.0	656.6	17.39	38.768		
4,300.0	4,204.5	4,255.9	4,239.7	16.8	9.3	-159.99	-282.8	-88.0	691.1	673.3	17.85	38.718		
4,400.0	4,301.7	4,354.4	4,337.7	17.3	9.5	-159.91	-291.7	-92.7	708.3	690.0	18.32	38.670		
4,500.0	4,399.0	4,452.9	4,435.7	17.7	9.8	-159.83	-300.7	-97.4	725.4	706.7	18.78	38.624		
4,600.0	4,496.2	4,551.4	4,533.7	18.2	10.0	-159.76	-309.6	-102.1	742.6	723.3	19.25	38.580		
4,700.0	4,593.4	4,649.9	4,631.7	18.6	10.3	-159.69	-318.6	-106.8	759.7	740.0	19.71	38.537		
4,800.0	4,690.7	4,748.4	4,729.7	19.1	10.5	-159.63	-327.5	-111.5	776.9	756.7	20.18	38.496		
4,900.0	4,787.9	4,847.0	4,827.7	19.5	10.8	-159.56	-336.5	-116.2	794.1	773.4	20.65	38.456		
5,000.0	4,885.1	4,945.5	4,925.7	20.0	11.0	-159.50	-345.4	-120.9	811.2	790.1	21.12	38.417		
5,100.0	4,982.4	5,044.0	5,023.7	20.4	11.2	-159.44	-354.4	-125.5	828.4	806.8	21.58	38.380		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							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	5,079.6	5,142.5	5,121.7	20.9	11.5	-159.39	-363.3 -130.2		845.5	823.5	22.05	38.344						
5,300.0	5,176.8	5,241.0	5,219.7	21.3	11.7	-159.33	-372.3 -134.9		862.7	840.2	22.52	38.310						
5,400.0	5,274.1	5,339.5	5,317.7	21.8	12.0	-159.28	-381.2 -139.6		879.8	856.9	22.99	38.276						
5,500.0	5,371.3	5,438.0	5,415.7	22.2	12.2	-159.23	-390.2 -144.3		897.0	873.6	23.46	38.244						
5,600.0	5,468.5	5,536.5	5,513.7	22.7	12.5	-159.18	-399.1 -149.0		914.2	890.2	23.92	38.212						
5,700.0	5,565.8	5,635.1	5,611.7	23.1	12.7	-159.14	-408.1 -153.7		931.3	906.9	24.39	38.182						
5,800.0	5,663.0	5,733.6	5,709.7	23.6	13.0	-159.09	-417.0 -158.4		948.5	923.6	24.86	38.152						
5,900.0	5,760.2	5,832.1	5,807.6	24.0	13.2	-159.05	-426.0 -163.0		965.7	940.3	25.33	38.124						
6,000.0	5,857.5	5,930.6	5,905.6	24.5	13.5	-159.01	-434.9 -167.7		982.8	957.0	25.80	38.096						
6,100.0	5,954.7	6,029.1	6,003.6	24.9	13.7	-158.97	-443.9 -172.4		1,000.0	973.7	26.27	38.069						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							
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)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.31	-0.4	69.9	69.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.31	-0.4	69.9	69.9	69.7	0.24	294.622		
200.0	200.0	200.0	200.0	0.3	0.3	90.31	-0.4	69.9	69.9	69.3	0.59	119.252		
300.0	300.0	300.0	300.0	0.5	0.5	90.31	-0.4	69.9	69.9	69.0	0.94	74.755		
400.0	400.0	400.0	400.0	0.6	0.6	90.31	-0.4	69.9	69.9	68.6	1.28	54.441 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	-159.34	-0.4	69.9	71.6	69.9	1.63	43.814		
600.0	599.8	599.8	599.8	1.0	1.0	-160.69	-0.4	69.9	76.5	74.5	1.98	38.593		
700.0	699.5	699.5	699.5	1.2	1.2	-162.59	-0.4	69.9	84.8	82.4	2.33	36.383		
800.0	798.7	798.7	798.7	1.5	1.3	-164.70	-0.4	69.9	96.5	93.8	2.68	36.052 SF		
900.0	897.5	897.5	897.5	1.8	1.5	-166.74	-0.4	69.9	111.6	108.6	3.02	36.987		
1,000.0	995.6	995.6	995.6	2.1	1.7	-168.59	-0.4	69.9	130.3	126.9	3.36	38.824		
1,100.0	1,093.1	1,093.1	1,093.1	2.5	1.9	-170.20	-0.4	69.9	152.3	148.6	3.69	41.263		
1,200.0	1,190.3	1,190.5	1,190.5	2.9	2.0	-171.02	-1.8	70.2	175.3	171.3	4.04	43.403		
1,300.0	1,287.5	1,288.1	1,288.0	3.4	2.2	-170.67	-6.5	71.0	198.3	193.9	4.40	45.054		
1,400.0	1,384.8	1,385.5	1,385.0	3.8	2.4	-169.53	-14.3	72.4	221.1	216.4	4.78	46.256		
1,500.0	1,482.0	1,482.7	1,481.8	4.2	2.6	-168.35	-23.2	73.9	244.1	238.9	5.18	47.158		
1,600.0	1,579.2	1,579.9	1,578.6	4.7	2.8	-167.38	-32.0	75.5	267.1	261.5	5.58	47.865		
1,700.0	1,676.5	1,677.2	1,675.4	5.1	3.0	-166.56	-40.9	77.0	290.2	284.2	5.99	48.423		
1,800.0	1,773.7	1,774.4	1,772.2	5.6	3.2	-165.86	-49.7	78.6	313.3	306.9	6.41	48.866		
1,900.0	1,870.9	1,871.6	1,869.1	6.0	3.4	-165.26	-58.6	80.2	336.5	329.6	6.84	49.221		
2,000.0	1,968.2	1,968.8	1,965.9	6.4	3.6	-164.74	-67.4	81.7	359.7	352.4	7.26	49.508		
2,100.0	2,065.4	2,066.0	2,062.7	6.9	3.8	-164.28	-76.3	83.3	382.9	375.2	7.70	49.741		
2,200.0	2,162.6	2,163.3	2,159.5	7.3	4.0	-163.87	-85.1	84.8	406.1	398.0	8.13	49.933		
2,300.0	2,259.9	2,260.5	2,256.3	7.8	4.3	-163.50	-94.0	86.4	429.4	420.8	8.57	50.091		
2,400.0	2,357.1	2,357.7	2,353.1	8.2	4.5	-163.18	-102.8	87.9	452.7	443.6	9.01	50.222		
2,500.0	2,454.3	2,454.9	2,449.9	8.7	4.7	-162.88	-111.7	89.5	475.9	466.5	9.46	50.331		
2,600.0	2,551.6	2,552.2	2,546.7	9.1	4.9	-162.62	-120.6	91.0	499.2	489.3	9.90	50.423		
2,700.0	2,648.8	2,649.4	2,643.5	9.6	5.1	-162.37	-129.4	92.6	522.5	512.2	10.35	50.500		
2,800.0	2,746.0	2,746.6	2,740.3	10.0	5.4	-162.15	-138.3	94.2	545.9	535.1	10.80	50.565		
2,900.0	2,843.3	2,843.8	2,837.1	10.5	5.6	-161.94	-147.1	95.7	569.2	557.9	11.24	50.621		
3,000.0	2,940.5	2,941.1	2,933.9	10.9	5.8	-161.76	-156.0	97.3	592.5	580.8	11.69	50.668		
3,100.0	3,037.7	3,038.3	3,030.7	11.4	6.0	-161.58	-164.8	98.8	615.8	603.7	12.14	50.708		
3,200.0	3,135.0	3,135.5	3,127.5	11.8	6.3	-161.42	-173.7	100.4	639.2	626.6	12.60	50.742		
3,300.0	3,232.2	3,232.7	3,224.3	12.3	6.5	-161.27	-182.5	101.9	662.5	649.5	13.05	50.771		
3,400.0	3,329.4	3,329.9	3,321.2	12.7	6.7	-161.13	-191.4	103.5	685.9	672.4	13.50	50.796		
3,500.0	3,426.7	3,427.2	3,418.0	13.2	6.9	-161.00	-200.2	105.1	709.2	695.3	13.96	50.817		
3,600.0	3,523.9	3,524.4	3,514.8	13.6	7.2	-160.88	-209.1	106.6	732.6	718.2	14.41	50.835		
3,700.0	3,621.1	3,621.6	3,611.6	14.1	7.4	-160.76	-217.9	108.2	755.9	741.1	14.87	50.851		
3,800.0	3,718.4	3,718.8	3,708.4	14.5	7.6	-160.66	-226.8	109.7	779.3	764.0	15.32	50.864		
3,900.0	3,815.6	3,816.1	3,805.2	15.0	7.9	-160.55	-235.7	111.3	802.7	786.9	15.78	50.876		
4,000.0	3,912.8	3,913.3	3,902.0	15.4	8.1	-160.46	-244.5	112.8	826.0	809.8	16.23	50.885		
4,100.0	4,010.0	4,010.5	3,998.8	15.9	8.3	-160.37	-253.4	114.4	849.4	832.7	16.69	50.893		
4,200.0	4,107.3	4,107.7	4,095.6	16.3	8.5	-160.28	-262.2	115.9	872.8	855.6	17.15	50.900		
4,300.0	4,204.5	4,205.0	4,192.4	16.8	8.8	-160.20	-271.1	117.5	896.1	878.5	17.60	50.906		
4,400.0	4,301.7	4,302.2	4,289.2	17.3	9.0	-160.12	-279.9	119.1	919.5	901.4	18.06	50.911		
4,500.0	4,399.0	4,399.4	4,386.0	17.7	9.2	-160.05	-288.8	120.6	942.9	924.4	18.52	50.915		
4,600.0	4,496.2	4,496.6	4,482.8	18.2	9.4	-159.98	-297.6	122.2	966.3	947.3	18.98	50.918		
4,700.0	4,593.4	4,593.8	4,579.6	18.6	9.7	-159.91	-306.5	123.7	989.6	970.2	19.43	50.920		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							
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)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.28	-0.4	80.0	80.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.28	-0.4	80.0	80.0	79.8	0.24	337.046		
200.0	200.0	200.0	200.0	0.3	0.3	90.28	-0.4	80.0	80.0	79.4	0.59	136.424		
300.0	300.0	300.0	300.0	0.5	0.5	90.28	-0.4	80.0	80.0	79.1	0.94	85.519		
400.0	400.0	400.0	400.0	0.6	0.6	90.28	-0.4	80.0	80.0	78.7	1.28	62.280 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	-159.32	-0.4	80.0	81.6	80.0	1.63	49.980		
600.0	599.8	599.8	599.8	1.0	1.0	-160.51	-0.4	80.0	86.5	84.6	1.98	43.672		
700.0	699.5	699.5	699.5	1.2	1.2	-162.21	-0.4	80.0	94.8	92.5	2.33	40.694		
800.0	798.7	798.7	798.7	1.5	1.3	-164.15	-0.4	80.0	106.5	103.8	2.68	39.787 SF		
900.0	897.5	897.5	897.5	1.8	1.5	-166.09	-0.4	80.0	121.6	118.6	3.02	40.274		
1,000.0	995.6	995.6	995.6	2.1	1.7	-167.88	-0.4	80.0	140.2	136.9	3.36	41.753		
1,100.0	1,093.1	1,092.1	1,092.1	2.5	1.9	-168.94	-1.8	80.5	162.5	158.8	3.70	43.949		
1,200.0	1,190.3	1,188.1	1,188.0	2.9	2.0	-168.84	-6.2	82.2	186.3	182.3	4.06	45.937		
1,300.0	1,287.5	1,283.9	1,283.5	3.4	2.2	-167.89	-13.5	85.0	210.8	206.4	4.43	47.550		
1,400.0	1,384.8	1,380.7	1,379.8	3.8	2.4	-166.86	-21.9	88.3	235.6	230.8	4.83	48.799		
1,500.0	1,482.0	1,477.5	1,476.2	4.2	2.6	-166.01	-30.4	91.5	260.5	255.3	5.23	49.787		
1,600.0	1,579.2	1,574.3	1,572.6	4.7	2.8	-165.32	-38.9	94.8	285.4	279.7	5.64	50.576		
1,700.0	1,676.5	1,671.1	1,668.9	5.1	3.0	-164.74	-47.3	98.0	310.3	304.3	6.06	51.213		
1,800.0	1,773.7	1,767.9	1,765.3	5.6	3.2	-164.24	-55.8	101.3	335.3	328.8	6.48	51.734		
1,900.0	1,870.9	1,864.7	1,861.7	6.0	3.4	-163.81	-64.3	104.5	360.3	353.4	6.91	52.165		
2,000.0	1,968.2	1,961.5	1,958.1	6.4	3.7	-163.44	-72.7	107.8	385.3	377.9	7.33	52.524		
2,100.0	2,065.4	2,058.3	2,054.4	6.9	3.9	-163.11	-81.2	111.1	410.3	402.5	7.77	52.827		
2,200.0	2,162.6	2,155.1	2,150.8	7.3	4.1	-162.82	-89.7	114.3	435.3	427.1	8.20	53.084		
2,300.0	2,259.9	2,251.9	2,247.2	7.8	4.3	-162.56	-98.1	117.6	460.3	451.7	8.64	53.305		
2,400.0	2,357.1	2,348.7	2,343.5	8.2	4.5	-162.33	-106.6	120.8	485.3	476.3	9.07	53.495		
2,500.0	2,454.3	2,445.5	2,439.9	8.7	4.8	-162.12	-115.1	124.1	510.4	500.9	9.51	53.660		
2,600.0	2,551.6	2,542.3	2,536.3	9.1	5.0	-161.93	-123.5	127.3	535.4	525.5	9.95	53.804		
2,700.0	2,648.8	2,639.1	2,632.7	9.6	5.2	-161.76	-132.0	130.6	560.5	550.1	10.39	53.930		
2,800.0	2,746.0	2,735.9	2,729.0	10.0	5.4	-161.60	-140.5	133.8	585.5	574.7	10.84	54.042		
2,900.0	2,843.3	2,832.7	2,825.4	10.5	5.7	-161.46	-148.9	137.1	610.6	599.3	11.28	54.142		
3,000.0	2,940.5	2,929.5	2,921.8	10.9	5.9	-161.33	-157.4	140.3	635.7	624.0	11.72	54.230		
3,100.0	3,037.7	3,026.3	3,018.1	11.4	6.1	-161.20	-165.9	143.6	660.7	648.6	12.17	54.309		
3,200.0	3,135.0	3,123.1	3,114.5	11.8	6.3	-161.09	-174.3	146.8	685.8	673.2	12.61	54.380		
3,300.0	3,232.2	3,219.9	3,210.9	12.3	6.6	-160.98	-182.8	150.1	710.9	697.8	13.06	54.445		
3,400.0	3,329.4	3,316.7	3,307.3	12.7	6.8	-160.88	-191.3	153.3	736.0	722.5	13.50	54.503		
3,500.0	3,426.7	3,413.5	3,403.6	13.2	7.0	-160.79	-199.7	156.6	761.0	747.1	13.95	54.556		
3,600.0	3,523.9	3,510.3	3,500.0	13.6	7.2	-160.71	-208.2	159.8	786.1	771.7	14.40	54.604		
3,700.0	3,621.1	3,607.1	3,596.4	14.1	7.5	-160.62	-216.7	163.1	811.2	796.4	14.84	54.648		
3,800.0	3,718.4	3,703.9	3,692.7	14.5	7.7	-160.55	-225.1	166.4	836.3	821.0	15.29	54.688		
3,900.0	3,815.6	3,800.6	3,789.1	15.0	7.9	-160.48	-233.6	169.6	861.4	845.6	15.74	54.725		
4,000.0	3,912.8	3,897.4	3,885.5	15.4	8.2	-160.41	-242.1	172.9	886.5	870.3	16.19	54.759		
4,100.0	4,010.0	3,994.2	3,981.9	15.9	8.4	-160.34	-250.5	176.1	911.5	894.9	16.64	54.791		
4,200.0	4,107.3	4,091.0	4,078.2	16.3	8.6	-160.28	-259.0	179.4	936.6	919.5	17.09	54.820		
4,300.0	4,204.5	4,187.8	4,174.6	16.8	8.9	-160.23	-267.5	182.6	961.7	944.2	17.53	54.847		
4,400.0	4,301.7	4,284.6	4,271.0	17.3	9.1	-160.17	-275.9	185.9	986.8	968.8	17.98	54.872		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	90.45	-0.7	89.8	89.8					
100.0	100.0	100.0	100.0	0.1	0.1	90.45	-0.7	89.8	89.8	89.6	0.24	378.301		
200.0	200.0	200.0	200.0	0.3	0.3	90.45	-0.7	89.8	89.8	89.2	0.59	153.122		
300.0	300.0	300.0	300.0	0.5	0.5	90.45	-0.7	89.8	89.8	88.9	0.94	95.987		
400.0	400.0	400.0	400.0	0.6	0.6	90.45	-0.7	89.8	89.8	88.5	1.28	69.903 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	-159.10	-0.7	89.8	91.4	89.8	1.63	55.973		
600.0	599.8	599.8	599.8	1.0	1.0	-160.17	-0.7	89.8	96.3	94.3	1.98	48.606		
700.0	699.5	699.5	699.5	1.2	1.2	-161.74	-0.7	89.8	104.6	102.2	2.33	44.878		
800.0	798.7	798.7	798.7	1.5	1.3	-163.56	-0.7	89.8	116.2	113.5	2.68	43.408 SF		
900.0	897.5	897.5	897.5	1.8	1.5	-165.41	-0.7	89.8	131.3	128.3	3.02	43.457		
1,000.0	995.6	995.6	995.6	2.1	1.7	-167.16	-0.7	89.8	149.9	146.5	3.36	44.584		
1,100.0	1,093.1	1,090.1	1,090.1	2.5	1.8	-168.30	-1.7	90.8	172.6	168.9	3.70	46.688		
1,200.0	1,190.3	1,183.4	1,183.3	2.9	2.0	-168.52	-5.0	93.8	198.1	194.0	4.05	48.931		
1,300.0	1,287.5	1,275.8	1,275.4	3.4	2.2	-168.03	-10.4	98.9	225.3	220.9	4.41	51.066		
1,400.0	1,384.8	1,367.4	1,366.4	3.8	2.4	-167.07	-17.8	105.9	254.3	249.5	4.79	53.066		
1,500.0	1,482.0	1,462.8	1,461.0	4.2	2.6	-166.05	-26.5	114.2	284.1	278.9	5.20	54.688		
1,600.0	1,579.2	1,558.1	1,555.6	4.7	2.8	-165.22	-35.2	122.4	314.0	308.4	5.61	56.012		
1,700.0	1,676.5	1,653.4	1,650.2	5.1	3.1	-164.54	-43.9	130.6	344.0	337.9	6.02	57.102		
1,800.0	1,773.7	1,748.8	1,744.8	5.6	3.3	-163.96	-52.6	138.8	374.0	367.5	6.45	58.009		
1,900.0	1,870.9	1,844.1	1,839.3	6.0	3.5	-163.47	-61.3	147.0	404.0	397.1	6.87	58.774		
2,000.0	1,968.2	1,939.5	1,933.9	6.4	3.8	-163.05	-70.0	155.3	434.0	426.7	7.30	59.424		
2,100.0	2,065.4	2,034.8	2,028.5	6.9	4.0	-162.68	-78.7	163.5	464.0	456.3	7.74	59.983		
2,200.0	2,162.6	2,130.1	2,123.1	7.3	4.3	-162.36	-87.4	171.7	494.1	485.9	8.17	60.468		
2,300.0	2,259.9	2,225.5	2,217.7	7.8	4.5	-162.08	-96.1	179.9	524.2	515.6	8.61	60.891		
2,400.0	2,357.1	2,320.8	2,312.3	8.2	4.8	-161.82	-104.9	188.1	554.3	545.2	9.05	61.263		
2,500.0	2,454.3	2,416.1	2,406.8	8.7	5.0	-161.59	-113.6	196.3	584.4	574.9	9.49	61.592		
2,600.0	2,551.6	2,511.5	2,501.4	9.1	5.3	-161.39	-122.3	204.6	614.5	604.5	9.93	61.885		
2,700.0	2,648.8	2,606.8	2,596.0	9.6	5.5	-161.20	-131.0	212.8	644.6	634.2	10.37	62.147		
2,800.0	2,746.0	2,702.2	2,690.6	10.0	5.8	-161.03	-139.7	221.0	674.7	663.9	10.82	62.383		
2,900.0	2,843.3	2,797.5	2,785.2	10.5	6.1	-160.87	-148.4	229.2	704.8	693.6	11.26	62.597		
3,000.0	2,940.5	2,892.8	2,879.8	10.9	6.3	-160.73	-157.1	237.4	734.9	723.2	11.70	62.790		
3,100.0	3,037.7	2,988.2	2,974.3	11.4	6.6	-160.60	-165.8	245.7	765.1	752.9	12.15	62.967		
3,200.0	3,135.0	3,083.5	3,068.9	11.8	6.8	-160.48	-174.5	253.9	795.2	782.6	12.60	63.128		
3,300.0	3,232.2	3,178.9	3,163.5	12.3	7.1	-160.37	-183.2	262.1	825.3	812.3	13.04	63.276		
3,400.0	3,329.4	3,274.2	3,258.1	12.7	7.4	-160.26	-191.9	270.3	855.5	842.0	13.49	63.413		
3,500.0	3,426.7	3,369.5	3,352.7	13.2	7.6	-160.16	-200.6	278.5	885.6	871.7	13.94	63.539		
3,600.0	3,523.9	3,464.9	3,447.3	13.6	7.9	-160.07	-209.3	286.8	915.8	901.4	14.39	63.655		
3,700.0	3,621.1	3,560.2	3,541.9	14.1	8.1	-159.99	-218.0	295.0	945.9	931.1	14.83	63.764		
3,800.0	3,718.4	3,655.6	3,636.4	14.5	8.4	-159.91	-226.7	303.2	976.1	960.8	15.28	63.864		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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				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)				
2,400.0	2,357.1	2,602.2	2,530.1	8.2	11.1	14.53	-259.4	-1,288.9	957.2	945.6	11.58	82.648		
2,500.0	2,454.3	2,683.2	2,608.4	8.7	11.5	14.08	-268.3	-1,270.2	913.9	901.8	12.06	75.786		
2,600.0	2,551.6	2,770.3	2,692.5	9.1	12.0	13.41	-280.0	-1,250.7	871.6	859.0	12.60	69.203		
2,700.0	2,648.8	2,865.1	2,783.8	9.6	12.5	12.56	-293.3	-1,228.9	828.9	815.8	13.17	62.932		
2,800.0	2,746.0	2,954.1	2,869.5	10.0	12.9	11.72	-305.2	-1,208.3	786.3	772.6	13.73	57.266		
2,900.0	2,843.3	3,042.6	2,954.9	10.5	13.3	10.80	-317.0	-1,188.1	744.0	729.7	14.29	52.077		
3,000.0	2,940.5	3,136.4	3,045.5	10.9	13.8	9.81	-328.2	-1,166.8	701.7	686.9	14.87	47.180		
3,100.0	3,037.7	3,228.7	3,134.6	11.4	14.3	8.66	-339.8	-1,145.1	659.1	643.6	15.47	42.603		
3,200.0	3,135.0	3,311.3	3,214.3	11.8	14.7	7.58	-349.3	-1,126.1	617.0	600.9	16.05	38.441		
3,300.0	3,232.2	3,408.4	3,308.2	12.3	15.2	6.05	-361.3	-1,104.2	575.7	559.0	16.72	34.437		
3,400.0	3,329.4	3,508.8	3,405.1	12.7	15.7	4.45	-371.2	-1,080.0	532.7	515.3	17.42	30.590		
3,500.0	3,426.7	3,602.1	3,494.8	13.2	16.2	2.60	-380.6	-1,056.1	488.9	470.7	18.17	26.909		
3,600.0	3,523.9	3,690.0	3,579.1	13.6	16.6	0.47	-389.6	-1,033.0	444.9	425.9	18.97	23.452		
3,700.0	3,621.1	3,763.0	3,649.4	14.1	17.0	-1.62	-397.6	-1,015.1	403.4	383.6	19.76	20.414		
3,800.0	3,718.4	3,843.6	3,727.5	14.5	17.4	-4.45	-408.1	-997.8	366.0	345.2	20.76	17.630		
3,900.0	3,815.6	3,929.9	3,811.3	15.0	17.7	-7.99	-419.9	-981.0	331.7	309.7	21.95	15.110		
4,000.0	3,912.8	4,020.5	3,900.1	15.4	18.1	-11.72	-429.4	-965.8	299.6	276.4	23.22	12.902		
4,100.0	4,010.0	4,111.4	3,989.7	15.9	18.3	-15.60	-436.7	-952.5	269.3	244.8	24.56	10.969		
4,200.0	4,107.3	4,202.9	4,080.3	16.3	18.6	-19.90	-442.9	-941.1	241.4	215.4	26.02	9.279		
4,300.0	4,204.5	4,294.7	4,171.4	16.8	18.8	-24.66	-448.3	-931.6	216.1	188.5	27.60	7.831		
4,400.0	4,301.7	4,388.0	4,264.3	17.3	19.0	-30.02	-453.3	-924.3	193.9	164.6	29.27	6.624		
4,500.0	4,399.0	4,483.9	4,359.9	17.7	19.2	-36.32	-457.9	-918.3	174.2	143.2	31.08	5.607		
4,600.0	4,496.2	4,581.2	4,457.0	18.2	19.3	-43.65	-461.4	-913.0	156.5	123.7	32.86	4.763		
4,700.0	4,593.4	4,678.6	4,554.2	18.6	19.5	-51.83	-463.4	-909.3	140.9	106.5	34.43	4.093		
4,800.0	4,690.7	4,775.6	4,651.2	19.1	19.6	-61.25	-464.7	-906.4	128.4	92.8	35.60	3.606		
4,900.0	4,787.9	4,873.2	4,748.8	19.5	19.7	-72.13	-465.4	-903.9	119.5	83.4	36.04	3.314		
5,000.0	4,885.1	4,970.6	4,846.2	20.0	19.8	-84.23	-465.3	-901.4	114.8	79.4	35.41	3.243 ES, SF		
5,037.7	4,921.8	5,007.1	4,882.7	20.1	19.8	-89.00	-465.1	-900.4	114.4	79.6	34.86	3.283 CC		
5,100.0	4,982.4	5,067.5	4,943.0	20.4	19.9	-96.93	-464.6	-898.6	115.5	81.9	33.61	3.438		
5,200.0	5,079.6	5,164.9	5,040.4	20.9	20.0	-108.91	-463.7	-896.0	121.7	90.6	31.12	3.909		
5,300.0	5,176.8	5,263.4	5,138.9	21.3	20.1	-118.77	-463.4	-895.5	131.5	102.5	28.97	4.538		
5,400.0	5,274.1	5,361.0	5,236.5	21.8	20.1	-126.83	-463.0	-896.0	143.8	116.3	27.48	5.232		
5,500.0	5,371.3	5,458.5	5,334.0	22.2	20.2	-133.69	-462.2	-896.4	158.4	131.8	26.56	5.964		
5,600.0	5,468.5	5,556.0	5,431.4	22.7	20.3	-139.43	-461.1	-896.9	174.8	148.7	26.08	6.700		
5,700.0	5,565.8	5,652.1	5,527.6	23.1	20.3	-144.14	-460.0	-897.2	192.6	166.7	25.90	7.436		
5,800.0	5,663.0	5,746.4	5,621.9	23.6	20.4	-147.84	-459.6	-896.7	212.7	186.7	25.92	8.204		
5,900.0	5,760.2	5,844.5	5,720.0	24.0	20.5	-150.91	-459.8	-895.4	234.2	208.2	26.03	8.996		
6,000.0	5,857.5	5,945.9	5,821.3	24.5	20.6	-153.71	-459.1	-895.5	254.9	228.7	26.19	9.734		
6,100.0	5,954.7	6,045.3	5,920.7	24.9	20.6	-156.19	-457.6	-896.7	274.8	248.4	26.36	10.423		
6,200.0	6,051.9	6,144.4	6,019.8	25.4	20.7	-158.40	-455.7	-898.6	294.5	268.0	26.57	11.086		
6,300.0	6,149.2	6,242.4	6,117.7	25.8	20.7	-160.38	-453.5	-900.9	314.3	287.5	26.78	11.736		
6,400.0	6,246.4	6,340.4	6,215.6	26.3	20.8	-162.18	-451.0	-903.2	334.2	307.2	27.01	12.375		
6,500.0	6,343.6	6,438.4	6,313.6	26.7	20.8	-163.80	-448.3	-905.8	354.3	327.0	27.24	13.003		
6,600.0	6,440.9	6,535.6	6,410.8	27.2	20.8	-165.24	-445.7	-908.4	374.5	347.0	27.49	13.620		
6,700.0	6,538.1	6,632.1	6,507.2	27.6	20.9	-166.52	-443.0	-910.8	395.1	367.4	27.75	14.237		
6,800.0	6,635.3	6,728.2	6,603.2	28.1	20.9	-167.69	-440.2	-912.9	416.2	388.2	28.02	14.855		
6,900.0	6,732.6	6,824.2	6,699.1	28.5	21.0	-168.73	-437.5	-914.7	437.7	409.5	28.29	15.475		
7,000.0	6,829.8	6,919.5	6,794.4	29.0	21.1	-176.79	-434.8	-916.1	459.7	431.1	28.60	16.073		
7,100.0	6,927.1	7,015.1	6,890.0	29.3	21.1	-135.43	-432.3	-917.0	479.7	450.7	28.92	16.585		
7,200.0	7,021.9	7,110.4	6,985.3	29.6	21.2	-114.79	-430.0	-917.7	497.0	467.9	29.07	17.095		
7,300.0	7,111.4	7,200.8	7,075.6	29.7	21.3	-107.06	-427.8	-918.3	513.3	484.2	29.07	17.656		
7,400.0	7,192.8	7,283.4	7,158.2	29.8	21.4	-104.78	-426.0	-918.8	531.4	502.4	28.96	18.348		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							
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
7,500.0	7,263.7	7,355.6	7,230.3	29.9	21.4	104.45	-424.5	-919.2	554.5	525.8	28.73	19.299	
7,600.0	7,321.8	7,412.1	7,286.9	29.9	21.5	103.84	-423.5	-919.5	585.9	557.4	28.49	20.565	
7,700.0	7,365.6	7,454.4	7,329.1	30.0	21.5	101.91	-422.9	-919.5	627.2	598.7	28.43	22.062	
7,800.0	7,393.5	7,481.3	7,356.1	30.0	21.6	97.87	-422.7	-919.4	678.4	649.7	28.67	23.660	
7,900.0	7,404.8	7,492.6	7,367.3	30.1	21.6	91.41	-422.6	-919.3	737.8	708.9	28.89	25.537	
8,000.0	7,405.0	7,493.5	7,368.3	30.3	21.6	90.18	-422.6	-919.3	803.8	774.6	29.24	27.495	
8,100.0	7,405.0	7,494.2	7,369.0	30.6	21.6	90.26	-422.6	-919.3	876.3	846.5	29.85	29.359	
8,200.0	7,405.0	7,494.9	7,369.7	30.9	21.6	90.33	-422.5	-919.3	953.8	923.2	30.64	31.133	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4C-26H-P268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	Well @ 4996.0ft
<b>Reference Site:</b>	S26-T2N-R68W (Sullivan)	<b>MD Reference:</b>	Well @ 4996.0ft
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Sullivan 4C-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to Well @ 4996.0ft

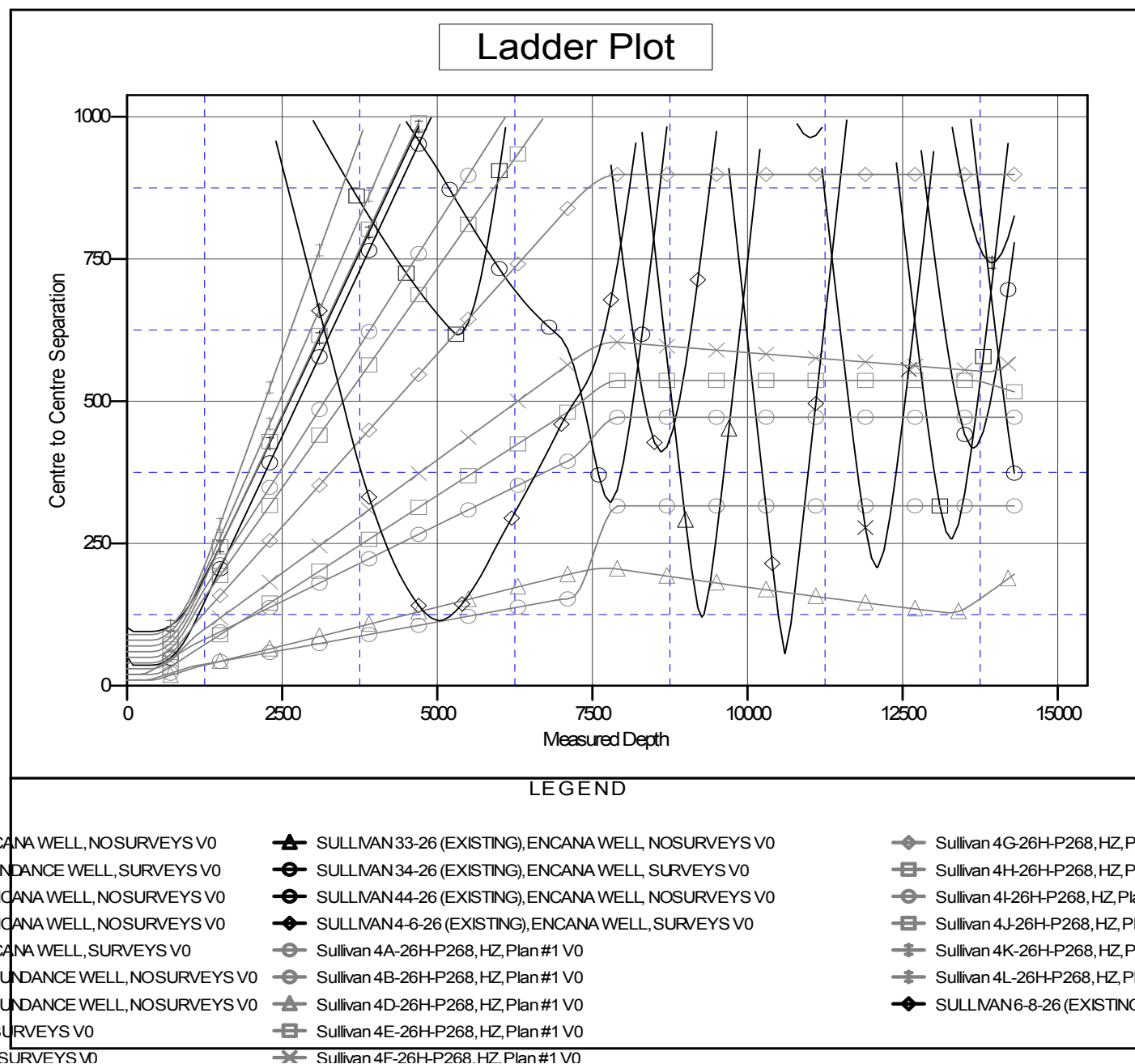
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Sullivan 4C-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