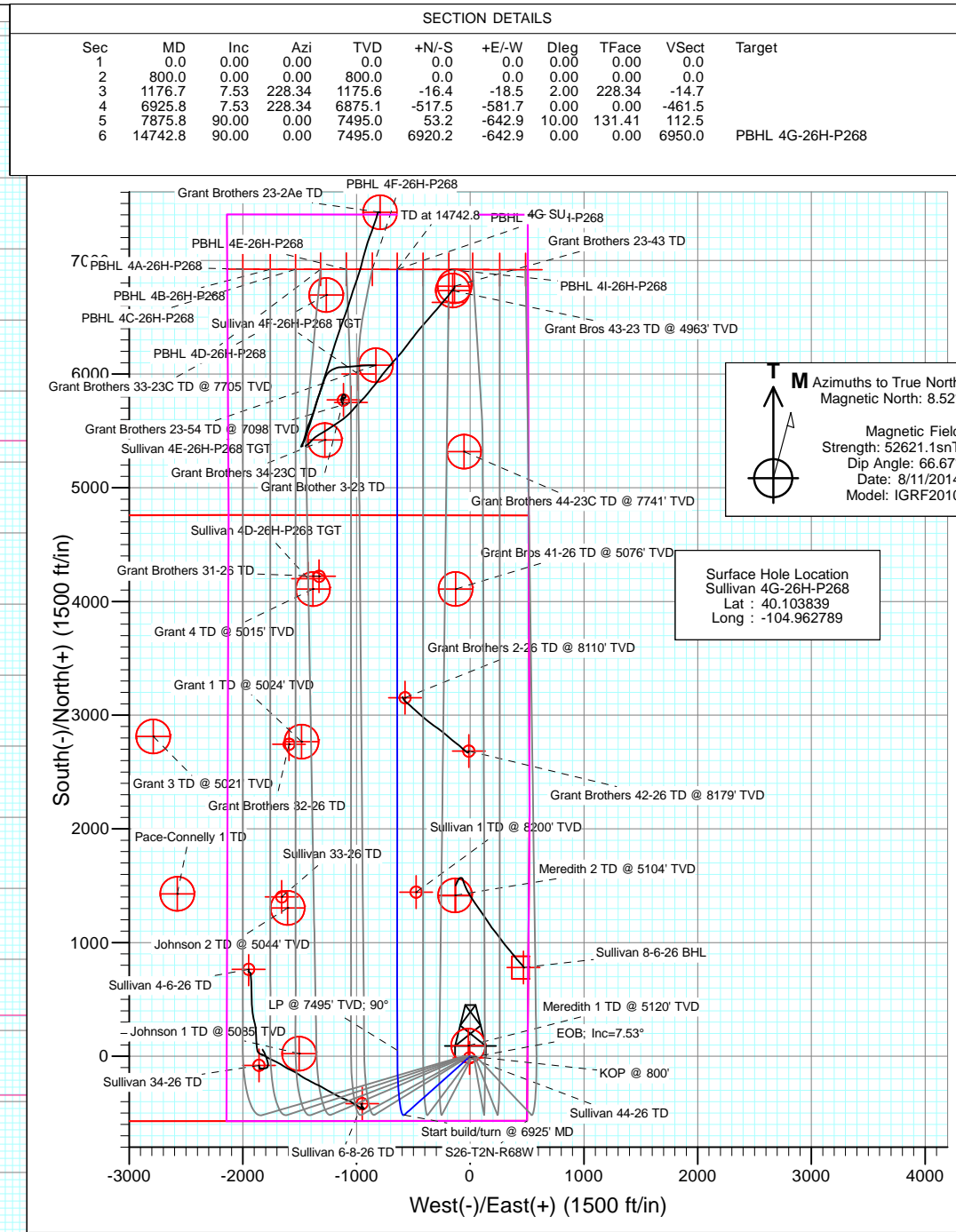
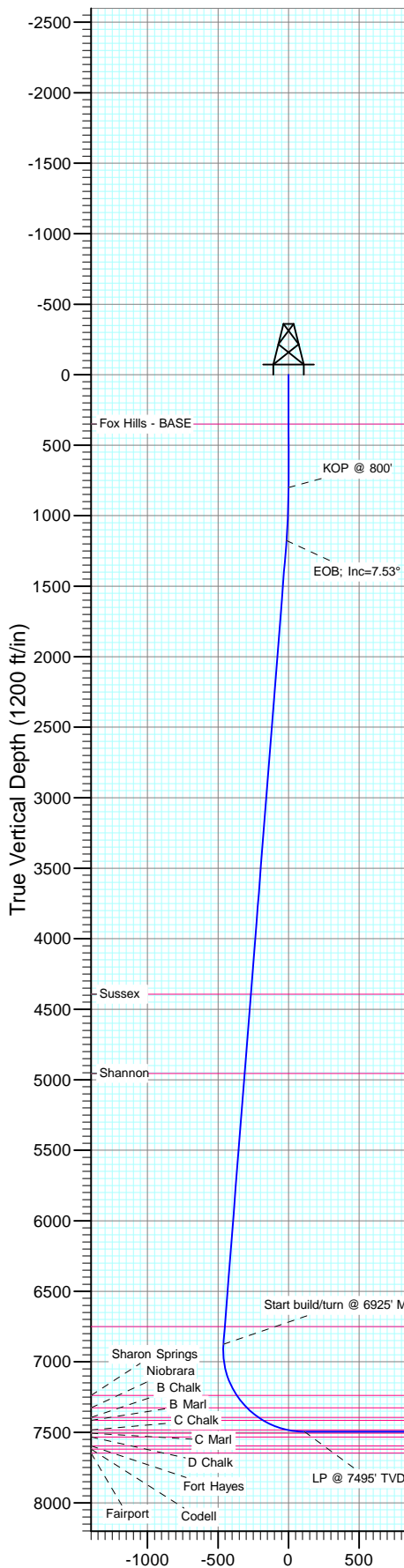




Project: DJ Wattenberg  
Site: S26-T2N-R68W (Sullivan)  
Well: Sullivan 4G-26H-P268  
Wellbore: HZ  
Design: Plan #1



DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL 4G-26H-P268	6920.2	-642.9	1288046.83	3149592.99	40.122836	-104.965088

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

Vertical Section at 354.69° (1200 ft/in)

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 4G-26H-P268					
Well Position	+N/-S	0.0 ft	Northing:	1,281,130.61 ft	Latitude:	40.103839
	+E/-W	0.0 ft	Easting:	3,150,277.81 ft	Longitude:	-104.962789
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	354.69

<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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,176.7	7.53	228.34	1,175.6	-16.4	-18.5	2.00	2.00	0.00	228.34	
6,925.8	7.53	228.34	6,875.1	-517.5	-581.7	0.00	0.00	0.00	0.00	
7,875.8	90.00	0.00	7,495.0	53.2	-642.9	10.00	8.68	13.86	131.41	
14,742.8	90.00	0.00	7,495.0	6,920.2	-642.9	0.00	0.00	0.00	0.00	PBHL 4G-26H-P268

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	KOP @ 800'
900.0	2.00	228.34	900.0	-1.2	-1.3	-1.0	2.00	2.00	
1,000.0	4.00	228.34	999.8	-4.6	-5.2	-4.1	2.00	2.00	
1,100.0	6.00	228.34	1,099.5	-10.4	-11.7	-9.3	2.00	2.00	
1,176.7	7.53	228.34	1,175.6	-16.4	-18.5	-14.7	2.00	2.00	EOB; Inc=7.53°
1,200.0	7.53	228.34	1,198.7	-18.5	-20.8	-16.5	0.00	0.00	
1,300.0	7.53	228.34	1,297.9	-27.2	-30.6	-24.2	0.00	0.00	
1,400.0	7.53	228.34	1,397.0	-35.9	-40.4	-32.0	0.00	0.00	
1,500.0	7.53	228.34	1,496.1	-44.6	-50.1	-39.8	0.00	0.00	
1,600.0	7.53	228.34	1,595.3	-53.3	-59.9	-47.6	0.00	0.00	
1,700.0	7.53	228.34	1,694.4	-62.1	-69.7	-55.3	0.00	0.00	
1,800.0	7.53	228.34	1,793.5	-70.8	-79.5	-63.1	0.00	0.00	
1,900.0	7.53	228.34	1,892.7	-79.5	-89.3	-70.9	0.00	0.00	
2,000.0	7.53	228.34	1,991.8	-88.2	-99.1	-78.7	0.00	0.00	
2,100.0	7.53	228.34	2,090.9	-96.9	-108.9	-86.4	0.00	0.00	
2,200.0	7.53	228.34	2,190.1	-105.6	-118.7	-94.2	0.00	0.00	
2,300.0	7.53	228.34	2,289.2	-114.3	-128.5	-102.0	0.00	0.00	
2,400.0	7.53	228.34	2,388.4	-123.1	-138.3	-109.7	0.00	0.00	
2,500.0	7.53	228.34	2,487.5	-131.8	-148.1	-117.5	0.00	0.00	
2,600.0	7.53	228.34	2,586.6	-140.5	-157.9	-125.3	0.00	0.00	
2,700.0	7.53	228.34	2,685.8	-149.2	-167.7	-133.1	0.00	0.00	
2,800.0	7.53	228.34	2,784.9	-157.9	-177.5	-140.8	0.00	0.00	
2,900.0	7.53	228.34	2,884.0	-166.6	-187.3	-148.6	0.00	0.00	
3,000.0	7.53	228.34	2,983.2	-175.4	-197.1	-156.4	0.00	0.00	
3,100.0	7.53	228.34	3,082.3	-184.1	-206.9	-164.1	0.00	0.00	
3,200.0	7.53	228.34	3,181.5	-192.8	-216.7	-171.9	0.00	0.00	
3,300.0	7.53	228.34	3,280.6	-201.5	-226.5	-179.7	0.00	0.00	
3,400.0	7.53	228.34	3,379.7	-210.2	-236.3	-187.5	0.00	0.00	
3,500.0	7.53	228.34	3,478.9	-218.9	-246.1	-195.2	0.00	0.00	
3,600.0	7.53	228.34	3,578.0	-227.7	-255.9	-203.0	0.00	0.00	
3,700.0	7.53	228.34	3,677.1	-236.4	-265.7	-210.8	0.00	0.00	
3,800.0	7.53	228.34	3,776.3	-245.1	-275.5	-218.6	0.00	0.00	
3,900.0	7.53	228.34	3,875.4	-253.8	-285.3	-226.3	0.00	0.00	
4,000.0	7.53	228.34	3,974.5	-262.5	-295.0	-234.1	0.00	0.00	
4,100.0	7.53	228.34	4,073.7	-271.2	-304.8	-241.9	0.00	0.00	
4,200.0	7.53	228.34	4,172.8	-280.0	-314.6	-249.6	0.00	0.00	
4,300.0	7.53	228.34	4,272.0	-288.7	-324.4	-257.4	0.00	0.00	
4,400.0	7.53	228.34	4,371.1	-297.4	-334.2	-265.2	0.00	0.00	
4,500.0	7.53	228.34	4,470.2	-306.1	-344.0	-273.0	0.00	0.00	
4,600.0	7.53	228.34	4,569.4	-314.8	-353.8	-280.7	0.00	0.00	
4,700.0	7.53	228.34	4,668.5	-323.5	-363.6	-288.5	0.00	0.00	
4,800.0	7.53	228.34	4,767.6	-332.2	-373.4	-296.3	0.00	0.00	
4,900.0	7.53	228.34	4,866.8	-341.0	-383.2	-304.1	0.00	0.00	
5,000.0	7.53	228.34	4,965.9	-349.7	-393.0	-311.8	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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
5,100.0	7.53	228.34	5,065.1	-358.4	-402.8	-319.6	0.00	0.00	
5,200.0	7.53	228.34	5,164.2	-367.1	-412.6	-327.4	0.00	0.00	
5,300.0	7.53	228.34	5,263.3	-375.8	-422.4	-335.1	0.00	0.00	
5,400.0	7.53	228.34	5,362.5	-384.5	-432.2	-342.9	0.00	0.00	
5,500.0	7.53	228.34	5,461.6	-393.3	-442.0	-350.7	0.00	0.00	
5,600.0	7.53	228.34	5,560.7	-402.0	-451.8	-358.5	0.00	0.00	
5,700.0	7.53	228.34	5,659.9	-410.7	-461.6	-366.2	0.00	0.00	
5,800.0	7.53	228.34	5,759.0	-419.4	-471.4	-374.0	0.00	0.00	
5,900.0	7.53	228.34	5,858.1	-428.1	-481.2	-381.8	0.00	0.00	
6,000.0	7.53	228.34	5,957.3	-436.8	-491.0	-389.6	0.00	0.00	
6,100.0	7.53	228.34	6,056.4	-445.6	-500.8	-397.3	0.00	0.00	
6,200.0	7.53	228.34	6,155.6	-454.3	-510.6	-405.1	0.00	0.00	
6,300.0	7.53	228.34	6,254.7	-463.0	-520.4	-412.9	0.00	0.00	
6,400.0	7.53	228.34	6,353.8	-471.7	-530.2	-420.6	0.00	0.00	
6,500.0	7.53	228.34	6,453.0	-480.4	-539.9	-428.4	0.00	0.00	
6,600.0	7.53	228.34	6,552.1	-489.1	-549.7	-436.2	0.00	0.00	
6,700.0	7.53	228.34	6,651.2	-497.9	-559.5	-444.0	0.00	0.00	
6,800.0	7.53	228.34	6,750.4	-506.6	-569.3	-451.7	0.00	0.00	
6,900.0	7.53	228.34	6,849.5	-515.3	-579.1	-459.5	0.00	0.00	
6,925.8	7.53	228.34	6,875.1	-517.5	-581.7	-461.5	0.00	0.00	Start build/turn @ 6925' MD
7,000.0	6.14	293.22	6,948.9	-519.2	-588.9	-462.5	10.00	-1.88	
7,100.0	13.62	335.93	7,047.4	-506.3	-598.7	-448.8	10.00	7.48	
7,200.0	23.08	346.59	7,142.3	-476.4	-608.1	-418.1	10.00	9.46	
7,300.0	32.85	351.20	7,230.5	-430.4	-616.8	-371.5	10.00	9.77	
7,400.0	42.72	353.86	7,309.4	-369.8	-624.6	-310.4	10.00	9.87	
7,500.0	52.63	355.67	7,376.7	-296.2	-631.2	-236.6	10.00	9.91	
7,600.0	62.56	357.06	7,430.2	-212.1	-636.5	-152.3	10.00	9.93	
7,700.0	72.50	358.21	7,468.4	-119.8	-640.3	-60.1	10.00	9.94	
7,800.0	82.45	359.25	7,490.0	-22.4	-642.4	37.2	10.00	9.95	
7,875.8	90.00	0.00	7,495.0	53.2	-642.9	112.5	10.00	9.95	LP @ 7495' TVD; 90°
7,900.0	90.00	0.00	7,495.0	77.4	-642.9	136.5	0.00	0.00	
8,000.0	90.00	0.00	7,495.0	177.4	-642.9	236.1	0.00	0.00	
8,100.0	90.00	0.00	7,495.0	277.4	-642.9	335.7	0.00	0.00	
8,200.0	90.00	0.00	7,495.0	377.4	-642.9	435.3	0.00	0.00	
8,300.0	90.00	0.00	7,495.0	477.4	-642.9	534.8	0.00	0.00	
8,400.0	90.00	0.00	7,495.0	577.4	-642.9	634.4	0.00	0.00	
8,500.0	90.00	0.00	7,495.0	677.4	-642.9	734.0	0.00	0.00	
8,600.0	90.00	0.00	7,495.0	777.4	-642.9	833.5	0.00	0.00	
8,700.0	90.00	0.00	7,495.0	877.4	-642.9	933.1	0.00	0.00	
8,800.0	90.00	0.00	7,495.0	977.4	-642.9	1,032.7	0.00	0.00	
8,900.0	90.00	0.00	7,495.0	1,077.4	-642.9	1,132.3	0.00	0.00	
9,000.0	90.00	0.00	7,495.0	1,177.4	-642.9	1,231.8	0.00	0.00	
9,100.0	90.00	0.00	7,495.0	1,277.4	-642.9	1,331.4	0.00	0.00	
9,200.0	90.00	0.00	7,495.0	1,377.4	-642.9	1,431.0	0.00	0.00	
9,300.0	90.00	0.00	7,495.0	1,477.4	-642.9	1,530.5	0.00	0.00	
9,400.0	90.00	0.00	7,495.0	1,577.4	-642.9	1,630.1	0.00	0.00	
9,500.0	90.00	0.00	7,495.0	1,677.4	-642.9	1,729.7	0.00	0.00	
9,600.0	90.00	0.00	7,495.0	1,777.4	-642.9	1,829.3	0.00	0.00	
9,700.0	90.00	0.00	7,495.0	1,877.4	-642.9	1,928.8	0.00	0.00	
9,800.0	90.00	0.00	7,495.0	1,977.4	-642.9	2,028.4	0.00	0.00	
9,900.0	90.00	0.00	7,495.0	2,077.4	-642.9	2,128.0	0.00	0.00	
10,000.0	90.00	0.00	7,495.0	2,177.4	-642.9	2,227.5	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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
10,100.0	90.00	0.00	7,495.0	2,277.4	-642.9	2,327.1	0.00	0.00	
10,200.0	90.00	0.00	7,495.0	2,377.4	-642.9	2,426.7	0.00	0.00	
10,300.0	90.00	0.00	7,495.0	2,477.4	-642.9	2,526.3	0.00	0.00	
10,400.0	90.00	0.00	7,495.0	2,577.4	-642.9	2,625.8	0.00	0.00	
10,500.0	90.00	0.00	7,495.0	2,677.4	-642.9	2,725.4	0.00	0.00	
10,600.0	90.00	0.00	7,495.0	2,777.4	-642.9	2,825.0	0.00	0.00	
10,700.0	90.00	0.00	7,495.0	2,877.4	-642.9	2,924.5	0.00	0.00	
10,800.0	90.00	0.00	7,495.0	2,977.4	-642.9	3,024.1	0.00	0.00	
10,900.0	90.00	0.00	7,495.0	3,077.4	-642.9	3,123.7	0.00	0.00	
11,000.0	90.00	0.00	7,495.0	3,177.4	-642.9	3,223.3	0.00	0.00	
11,100.0	90.00	0.00	7,495.0	3,277.4	-642.9	3,322.8	0.00	0.00	
11,200.0	90.00	0.00	7,495.0	3,377.4	-642.9	3,422.4	0.00	0.00	
11,300.0	90.00	0.00	7,495.0	3,477.4	-642.9	3,522.0	0.00	0.00	
11,400.0	90.00	0.00	7,495.0	3,577.4	-642.9	3,621.5	0.00	0.00	
11,500.0	90.00	0.00	7,495.0	3,677.4	-642.9	3,721.1	0.00	0.00	
11,600.0	90.00	0.00	7,495.0	3,777.4	-642.9	3,820.7	0.00	0.00	
11,700.0	90.00	0.00	7,495.0	3,877.4	-642.9	3,920.3	0.00	0.00	
11,800.0	90.00	0.00	7,495.0	3,977.4	-642.9	4,019.8	0.00	0.00	
11,900.0	90.00	0.00	7,495.0	4,077.4	-642.9	4,119.4	0.00	0.00	
12,000.0	90.00	0.00	7,495.0	4,177.4	-642.9	4,219.0	0.00	0.00	
12,100.0	90.00	0.00	7,495.0	4,277.4	-642.9	4,318.5	0.00	0.00	
12,200.0	90.00	0.00	7,495.0	4,377.4	-642.9	4,418.1	0.00	0.00	
12,300.0	90.00	0.00	7,495.0	4,477.4	-642.9	4,517.7	0.00	0.00	
12,400.0	90.00	0.00	7,495.0	4,577.4	-642.9	4,617.3	0.00	0.00	
12,500.0	90.00	0.00	7,495.0	4,677.4	-642.9	4,716.8	0.00	0.00	
12,600.0	90.00	0.00	7,495.0	4,777.4	-642.9	4,816.4	0.00	0.00	
12,700.0	90.00	0.00	7,495.0	4,877.4	-642.9	4,916.0	0.00	0.00	
12,800.0	90.00	0.00	7,495.0	4,977.4	-642.9	5,015.5	0.00	0.00	
12,900.0	90.00	0.00	7,495.0	5,077.4	-642.9	5,115.1	0.00	0.00	
13,000.0	90.00	0.00	7,495.0	5,177.4	-642.9	5,214.7	0.00	0.00	
13,100.0	90.00	0.00	7,495.0	5,277.4	-642.9	5,314.3	0.00	0.00	
13,200.0	90.00	0.00	7,495.0	5,377.4	-642.9	5,413.8	0.00	0.00	
13,300.0	90.00	0.00	7,495.0	5,477.4	-642.9	5,513.4	0.00	0.00	
13,400.0	90.00	0.00	7,495.0	5,577.4	-642.9	5,613.0	0.00	0.00	
13,500.0	90.00	0.00	7,495.0	5,677.4	-642.9	5,712.5	0.00	0.00	
13,600.0	90.00	0.00	7,495.0	5,777.4	-642.9	5,812.1	0.00	0.00	
13,700.0	90.00	0.00	7,495.0	5,877.4	-642.9	5,911.7	0.00	0.00	
13,800.0	90.00	0.00	7,495.0	5,977.4	-642.9	6,011.3	0.00	0.00	
13,900.0	90.00	0.00	7,495.0	6,077.4	-642.9	6,110.8	0.00	0.00	
14,000.0	90.00	0.00	7,495.0	6,177.4	-642.9	6,210.4	0.00	0.00	
14,100.0	90.00	0.00	7,495.0	6,277.4	-642.9	6,310.0	0.00	0.00	
14,200.0	90.00	0.00	7,495.0	6,377.4	-642.9	6,409.5	0.00	0.00	
14,300.0	90.00	0.00	7,495.0	6,477.4	-642.9	6,509.1	0.00	0.00	
14,400.0	90.00	0.00	7,495.0	6,577.4	-642.9	6,608.7	0.00	0.00	
14,500.0	90.00	0.00	7,495.0	6,677.4	-642.9	6,708.3	0.00	0.00	
14,600.0	90.00	0.00	7,495.0	6,777.4	-642.9	6,807.8	0.00	0.00	
14,700.0	90.00	0.00	7,495.0	6,877.4	-642.9	6,907.4	0.00	0.00	
14,742.8	90.00	0.00	7,495.0	6,920.2	-642.9	6,950.0	0.00	0.00	TD at 14742.8

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-26H-P268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	HZ		
<b>Design:</b>	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
PBHL 4G-26H-P268	0.00	0.00	7,495.0	6,920.2	-642.9	1,288,046.83	3,149,592.99	40.122836	-104.965088
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
800.0	800.0	0.0	0.0	KOP @ 800'
1,176.7	1,175.6	-16.4	-18.5	EOB; Inc=7.53°
6,925.8	6,875.1	-517.5	-581.7	Start build/turn @ 6925' MD
7,875.8	7,495.0	53.2	-642.9	LP @ 7495' TVD; 90°
14,742.8	7,495.0	6,920.2	-642.9	TD at 14742.8

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

**DJ Wattenberg**

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

**Sullivan 4G-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 4G-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 4G-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	14,742.8	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 4G-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 4G-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)	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	10,975.4	7,444.0	69.5	-2.1	0.971	Level 1, CC, ES, SF
GRANT BROTHERS 23-2Ae (EXISTING) - SUNDANCE	14,300.0	7,835.6	960.1	806.3	6.243	CC, ES, SF
GRANT BROTHERS 23-43 (EXISTING) - SUNDANCE W	14,300.0	7,715.4	580.4	436.0	4.018	CC, ES, SF
GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE W	13,900.2	7,210.0	371.8	302.7	5.381	CC, ES, SF
GRANT BROTHERS 31-26 (EXISTING) - ENCANA WEL	12,043.9	7,424.0	686.1	596.2	7.630	CC, ES
GRANT BROTHERS 31-26 (EXISTING) - ENCANA WEL	12,100.0	7,424.0	688.4	597.5	7.574	SF
GRANT BROTHERS 32-26 (EXISTING) - ENCANA WEL	10,566.8	7,430.0	950.5	885.9	14.708	CC, ES
GRANT BROTHERS 32-26 (EXISTING) - ENCANA WEL	10,800.0	7,430.0	978.7	910.1	14.270	SF
GRANT BROTHERS 3-23 (EXISTING) - ENCANA WELL	13,600.7	7,440.1	475.0	364.6	4.301	CC, ES, SF
GRANT BROTHERS 33-23C (EXISTING) - SUNDANCE	14,300.0	7,410.0	661.1	532.0	5.122	CC, ES, SF
GRANT BROTHERS 34-23C (EXISTING) - SUNDANCE	13,241.7	7,416.0	636.0	525.3	5.747	CC, ES
GRANT BROTHERS 34-23C (EXISTING) - SUNDANCE	13,300.0	7,416.0	638.7	527.0	5.719	SF
GRANT BROTHERS 42-26 (EXISTING) - ENCANA WEL	10,502.0	7,511.1	626.8	560.6	9.465	CC, ES
GRANT BROTHERS 42-26 (EXISTING) - ENCANA WEL	10,600.0	7,511.5	634.5	566.6	9.346	SF
GRANT BROTHERS 44-23C (EXISTING) - SUNDANCE	13,140.0	7,456.0	588.1	479.1	5.397	CC, ES
GRANT BROTHERS 44-23C (EXISTING) - SUNDANCE	13,200.0	7,456.0	591.2	481.1	5.374	SF
JOHNSON 1 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
JOHNSON 2 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS	800.0	763.0	95.0	92.3	35.536	CC, ES
MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS	1,300.0	1,260.9	121.1	116.6	27.078	SF
MEREDITH 2 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
PACE-CONNELLY 1 (EXISTING) - FOUNDATION WELL						Out of range
SULLIVAN 1 (EXISTING) - ENCANA WELL - NO SURVE	9,265.5	7,457.0	166.6	123.3	3.853	CC, ES, SF
SULLIVAN 33-26 (EXISTING) - ENCANA WELL - NO SU						Out of range
SULLIVAN 34-26 (EXISTING) - ENCANA WELL - SURVE						Out of range
SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SU	1,092.4	1,056.9	6.2	2.5	1.672	CC, ES, SF
SULLIVAN 4-6-26 (EXISTING) - ENCANA WELL - SURV						Out of range
Sullivan 4A-26H-P268 - HZ - Plan #1	200.0	199.0	60.1	59.6	102.863	CC, ES
Sullivan 4A-26H-P268 - HZ - Plan #1	5,700.0	5,589.9	982.8	958.5	40.368	SF
Sullivan 4B-26H-P268 - HZ - Plan #1	300.0	300.0	50.1	49.1	53.525	CC, ES
Sullivan 4B-26H-P268 - HZ - Plan #1	7,000.0	6,913.9	974.4	943.6	31.552	SF
Sullivan 4C-26H-P268 - HZ - Plan #1	400.0	400.0	40.0	38.7	31.141	CC, ES
Sullivan 4C-26H-P268 - HZ - Plan #1	14,300.0	14,340.6	898.6	667.4	3.887	SF
Sullivan 4D-26H-P268 - HZ - Plan #1	500.0	500.0	30.2	28.6	18.494	CC, ES
Sullivan 4D-26H-P268 - HZ - Plan #1	14,300.0	14,388.1	674.0	441.7	2.901	SF
Sullivan 4E-26H-P268 - HZ - Plan #1	600.0	600.0	20.1	18.2	10.160	CC, ES
Sullivan 4E-26H-P268 - HZ - Plan #1	14,300.0	14,485.6	466.8	244.1	2.096	SF
Sullivan 4F-26H-P268 - HZ - Plan #1	700.0	700.0	10.1	7.7	4.319	CC, ES
Sullivan 4F-26H-P268 - HZ - Plan #1	14,300.0	14,233.3	236.7	21.1	1.098	Level 2, SF
Sullivan 4H-26H-P268 - HZ - Plan #1	800.0	801.0	9.8	7.1	3.650	CC, ES
Sullivan 4H-26H-P268 - HZ - Plan #1	14,300.0	14,415.4	264.4	62.6	1.310	Level 3, SF
Sullivan 4I-26H-P268 - HZ - Plan #1	800.0	801.0	19.9	17.2	7.404	CC, ES
Sullivan 4I-26H-P268 - HZ - Plan #1	14,300.0	14,178.4	458.7	231.0	2.015	SF
Sullivan 4J-26H-P268 - HZ - Plan #1	800.0	800.0	29.9	27.3	11.165	CC, ES
Sullivan 4J-26H-P268 - HZ - Plan #1	14,300.0	14,313.1	691.0	458.0	2.965	SF
Sullivan 4K-26H-P268 - HZ - Plan #1	800.0	800.0	40.0	37.3	14.921	CC, ES

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 4G-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 4G-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 4K-26H-P268 - HZ - Plan #1	14,300.0	14,405.8	912.2	682.3	3.968	SF
Sullivan 4L-26H-P268 - HZ - Plan #1	800.0	800.0	49.8	47.1	18.574	CC, ES
Sullivan 4L-26H-P268 - HZ - Plan #1	1,000.0	999.8	55.2	51.8	16.327	SF
SULLIVAN 6-8-26 (EXISTING) - ENCANA WELL - SURV	7,376.4	7,377.6	338.7	309.0	11.392	CC, ES
SULLIVAN 6-8-26 (EXISTING) - ENCANA WELL - SURV	7,400.0	7,395.9	339.1	309.3	11.388	SF
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 4G-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 4G-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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,000.0	7,495.0	7,444.0	7,444.0	43.6	13.0	90.00	3,152.8	-573.4	977.9	922.8	55.13	17.737		
10,100.0	7,495.0	7,444.0	7,444.0	45.2	13.0	90.00	3,152.8	-573.4	878.2	821.4	56.80	15.461		
10,200.0	7,495.0	7,444.0	7,444.0	46.9	13.0	90.00	3,152.8	-573.4	778.6	720.1	58.47	13.315		
10,300.0	7,495.0	7,444.0	7,444.0	48.5	13.0	90.00	3,152.8	-573.4	679.0	618.9	60.15	11.289		
10,400.0	7,495.0	7,444.0	7,444.0	50.1	13.0	90.00	3,152.8	-573.4	579.6	517.8	61.83	9.374		
10,500.0	7,495.0	7,444.0	7,444.0	51.8	13.0	90.00	3,152.8	-573.4	480.5	417.0	63.52	7.564		
10,600.0	7,495.0	7,444.0	7,444.0	53.4	13.0	90.00	3,152.8	-573.4	381.8	316.6	65.21	5.855		
10,700.0	7,495.0	7,444.0	7,444.0	55.1	13.0	90.00	3,152.8	-573.4	284.1	217.2	66.91	4.246		
10,800.0	7,495.0	7,444.0	7,444.0	56.8	13.0	90.00	3,152.8	-573.4	188.7	120.1	68.61	2.751		
10,900.0	7,495.0	7,444.0	7,444.0	58.4	13.0	90.00	3,152.8	-573.4	102.6	32.3	70.31	1.459 Level 3		
10,975.4	7,495.0	7,444.0	7,444.0	59.7	13.0	90.00	3,152.8	-573.4	69.5	-2.1	71.60	0.971 Level 1, CC, ES, SF		
11,000.0	7,495.0	7,444.0	7,444.0	60.1	13.0	90.00	3,152.8	-573.4	73.8	1.7	72.02	1.024 Level 2		
11,100.0	7,495.0	7,444.0	7,444.0	61.8	13.0	90.00	3,152.8	-573.4	142.7	68.9	73.73	1.935		
11,200.0	7,495.0	7,444.0	7,444.0	63.5	13.0	90.00	3,152.8	-573.4	235.1	159.6	75.44	3.116		
11,300.0	7,495.0	7,444.0	7,444.0	65.1	13.0	90.00	3,152.8	-573.4	331.9	254.8	77.16	4.302		
11,400.0	7,495.0	7,444.0	7,444.0	66.8	13.0	90.00	3,152.8	-573.4	430.2	351.3	78.87	5.455		
11,500.0	7,495.0	7,444.0	7,444.0	68.5	13.0	90.00	3,152.8	-573.4	529.1	448.6	80.59	6.566		
11,600.0	7,495.0	7,444.0	7,444.0	70.2	13.0	90.00	3,152.8	-573.4	628.4	546.1	82.31	7.635		
11,700.0	7,495.0	7,444.0	7,444.0	71.9	13.0	90.00	3,152.8	-573.4	727.9	643.9	84.03	8.662		
11,800.0	7,495.0	7,444.0	7,444.0	73.6	13.0	90.00	3,152.8	-573.4	827.5	741.7	85.75	9.650		
11,900.0	7,495.0	7,444.0	7,444.0	75.3	13.0	90.00	3,152.8	-573.4	927.2	839.7	87.48	10.599		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 23-2Ae (EXISTING) - SUNDANCE WELL - SURVEYS													<b>Offset Site Error:</b> 0.0 ft
Survey Program: 118-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
14,300.0	7,495.0	7,835.6	7,436.6	116.7	40.4	-96.63	7,423.9	-803.0	960.1	806.3	153.80	6.243	CC, ES, SF

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 23-43 (EXISTING) - SUNDANCE WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 177-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,800.0	7,495.0	7,706.2	7,403.4	108.0	36.7	88.33	6,765.9	-139.4	935.7	800.0	135.70	6.895	
13,900.0	7,495.0	7,708.0	7,405.2	109.8	36.7	88.54	6,765.9	-139.4	853.1	715.6	137.45	6.207	
14,000.0	7,495.0	7,709.8	7,407.0	111.5	36.7	88.75	6,766.0	-139.4	774.6	635.4	139.20	5.565	
14,100.0	7,495.0	7,711.7	7,408.9	113.2	36.7	88.96	6,766.0	-139.4	701.7	560.7	140.95	4.978	
14,200.0	7,495.0	7,713.5	7,410.7	115.0	36.7	89.17	6,766.1	-139.4	636.1	493.4	142.70	4.457	
14,300.0	7,495.0	7,715.4	7,412.6	116.7	36.7	89.38	6,766.1	-139.4	580.4	436.0	144.45	4.018	CC, ES, SF

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 118-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (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		
13,000.0	7,495.0	7,210.0	7,098.0	94.2	21.2	-30.28	6,077.6	-830.4	974.0	912.8	61.12	15.936		
13,100.0	7,495.0	7,210.0	7,098.0	95.9	21.2	-30.28	6,077.6	-830.4	882.4	820.4	62.00	14.232		
13,200.0	7,495.0	7,210.0	7,098.0	97.7	21.2	-30.28	6,077.6	-830.4	792.8	729.9	62.88	12.608		
13,300.0	7,495.0	7,210.0	7,098.0	99.4	21.2	-30.28	6,077.6	-830.4	706.0	642.3	63.76	11.072		
13,400.0	7,495.0	7,210.0	7,098.0	101.1	21.2	-30.28	6,077.6	-830.4	623.2	558.6	64.65	9.640		
13,500.0	7,495.0	7,210.0	7,098.0	102.8	21.2	-30.28	6,077.6	-830.4	546.2	480.7	65.53	8.335		
13,600.0	7,495.0	7,210.0	7,098.0	104.6	21.2	-30.28	6,077.6	-830.4	477.8	411.4	66.42	7.194		
13,700.0	7,495.0	7,210.0	7,098.0	106.3	21.2	-30.28	6,077.6	-830.4	422.2	354.9	67.31	6.274		
13,800.0	7,495.0	7,210.0	7,098.0	108.0	21.2	-30.28	6,077.6	-830.4	385.0	316.8	68.19	5.646		
13,900.0	7,495.0	7,210.0	7,098.0	109.8	21.2	-30.28	6,077.6	-830.4	371.8	302.7	69.08	5.382		
13,900.2	7,495.0	7,210.0	7,098.0	109.8	21.2	-30.28	6,077.6	-830.4	371.8	302.7	69.08	5.381	CC, ES, SF	
14,000.0	7,495.0	7,210.0	7,098.0	111.5	21.2	-30.28	6,077.6	-830.4	384.9	315.0	69.97	5.501		
14,100.0	7,495.0	7,210.0	7,098.0	113.2	21.2	-30.28	6,077.6	-830.4	422.0	351.2	70.85	5.956		
14,200.0	7,495.0	7,210.0	7,098.0	115.0	21.2	-30.28	6,077.6	-830.4	477.6	405.8	71.74	6.657		
14,300.0	7,495.0	7,210.0	7,098.0	116.7	21.2	-30.28	6,077.6	-830.4	545.9	473.3	72.63	7.516		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,400.0	7,495.0	7,424.0	7,424.0	66.8	13.0	-90.00	4,221.3	-1,329.0	941.0	862.1	78.84	11.936		
11,500.0	7,495.0	7,424.0	7,424.0	68.5	13.0	-90.00	4,221.3	-1,329.0	875.6	795.0	80.55	10.869		
11,600.0	7,495.0	7,424.0	7,424.0	70.2	13.0	-90.00	4,221.3	-1,329.0	817.2	734.9	82.27	9.933		
11,700.0	7,495.0	7,424.0	7,424.0	71.9	13.0	-90.00	4,221.3	-1,329.0	767.5	683.5	84.00	9.137		
11,800.0	7,495.0	7,424.0	7,424.0	73.6	13.0	-90.00	4,221.3	-1,329.0	728.2	642.5	85.72	8.495		
11,900.0	7,495.0	7,424.0	7,424.0	75.3	13.0	-90.00	4,221.3	-1,329.0	701.1	613.6	87.44	8.017		
12,000.0	7,495.0	7,424.0	7,424.0	77.0	13.0	-90.00	4,221.3	-1,329.0	687.5	598.4	89.17	7.710		
12,043.9	7,495.0	7,424.0	7,424.0	77.8	13.0	-90.00	4,221.3	-1,329.0	686.1	596.2	89.93	7.630 CC, ES		
12,100.0	7,495.0	7,424.0	7,424.0	78.8	13.0	-90.00	4,221.3	-1,329.0	688.4	597.5	90.90	7.574 SF		
12,200.0	7,495.0	7,424.0	7,424.0	80.5	13.0	-90.00	4,221.3	-1,329.0	703.7	611.0	92.62	7.597		
12,300.0	7,495.0	7,424.0	7,424.0	82.2	13.0	-90.00	4,221.3	-1,329.0	732.4	638.0	94.35	7.762		
12,400.0	7,495.0	7,424.0	7,424.0	83.9	13.0	-90.00	4,221.3	-1,329.0	773.0	676.9	96.08	8.045		
12,500.0	7,495.0	7,424.0	7,424.0	85.6	13.0	-90.00	4,221.3	-1,329.0	823.9	726.1	97.81	8.423		
12,600.0	7,495.0	7,424.0	7,424.0	87.3	13.0	-90.00	4,221.3	-1,329.0	883.2	783.6	99.55	8.872		
12,700.0	7,495.0	7,424.0	7,424.0	89.0	13.0	-90.00	4,221.3	-1,329.0	949.3	848.0	101.28	9.373		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 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							
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	
10,300.0	7,495.0	7,430.0	7,430.0	48.5	13.0	-90.00	2,744.2	-1,593.4	987.2	927.1	60.13	16.420		
10,400.0	7,495.0	7,430.0	7,430.0	50.1	13.0	-90.00	2,744.2	-1,593.4	965.0	903.2	61.81	15.613		
10,500.0	7,495.0	7,430.0	7,430.0	51.8	13.0	-90.00	2,744.2	-1,593.4	952.9	889.4	63.50	15.006		
10,566.8	7,495.0	7,430.0	7,430.0	52.9	13.0	-90.00	2,744.2	-1,593.4	950.5	885.9	64.63	14.708	CC, ES	
10,600.0	7,495.0	7,430.0	7,430.0	53.4	13.0	-90.00	2,744.2	-1,593.4	951.1	885.9	65.19	14.590		
10,700.0	7,495.0	7,430.0	7,430.0	55.1	13.0	-90.00	2,744.2	-1,593.4	959.8	892.9	66.89	14.350		
10,800.0	7,495.0	7,430.0	7,430.0	56.8	13.0	-90.00	2,744.2	-1,593.4	978.7	910.1	68.59	14.270	SF	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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	7,495.0	7,452.5	7,450.2	90.8	6.5	-91.95	5,777.9	-1,117.8	930.9	834.4	96.52	9.645		
12,900.0	7,495.0	7,450.9	7,448.6	92.5	6.5	-91.76	5,777.9	-1,117.9	846.5	748.2	98.26	8.615		
13,000.0	7,495.0	7,449.4	7,447.0	94.2	6.5	-91.57	5,777.9	-1,117.9	765.8	665.8	100.00	7.658		
13,100.0	7,495.0	7,447.8	7,445.5	95.9	6.5	-91.38	5,777.9	-1,117.9	690.1	588.4	101.74	6.783		
13,200.0	7,495.0	7,446.3	7,443.9	97.7	6.5	-91.20	5,778.0	-1,117.9	621.4	517.9	103.48	6.005		
13,300.0	7,495.0	7,444.7	7,442.4	99.4	6.5	-91.01	5,778.0	-1,117.9	562.2	457.0	105.23	5.343		
13,400.0	7,495.0	7,443.2	7,440.8	101.1	6.5	-90.82	5,778.0	-1,117.9	515.7	408.7	106.97	4.821		
13,500.0	7,495.0	7,441.6	7,439.3	102.8	6.5	-90.64	5,778.0	-1,117.9	485.6	376.9	108.71	4.467		
13,600.0	7,495.0	7,440.1	7,437.8	104.6	6.5	-90.46	5,778.1	-1,117.9	475.0	364.6	110.45	4.301		
13,600.7	7,495.0	7,440.1	7,437.8	104.6	6.5	-90.45	5,778.1	-1,117.9	475.0	364.6	110.46	4.301	CC, ES, SF	
13,700.0	7,495.0	7,438.6	7,436.3	106.3	6.5	-90.27	5,778.1	-1,118.0	485.3	373.1	112.19	4.326		
13,800.0	7,495.0	7,437.1	7,434.7	108.0	6.5	-90.09	5,778.1	-1,118.0	515.2	401.2	113.93	4.522		
13,900.0	7,495.0	7,435.6	7,433.2	109.8	6.5	-89.91	5,778.1	-1,118.0	561.5	445.8	115.67	4.854		
14,000.0	7,495.0	7,434.1	7,431.7	111.5	6.5	-89.73	5,778.2	-1,118.0	620.5	503.1	117.41	5.285		
14,100.0	7,495.0	7,432.6	7,430.2	113.2	6.5	-89.55	5,778.2	-1,118.0	689.1	570.0	119.15	5.784		
14,200.0	7,495.0	7,431.1	7,428.7	115.0	6.5	-89.37	5,778.2	-1,118.0	764.7	643.8	120.88	6.326		
14,300.0	7,495.0	7,429.6	7,427.3	116.7	6.5	-89.19	5,778.2	-1,118.0	845.3	722.7	122.62	6.894		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 33-23C (EXISTING) - SUNDANCE WELL - NO SURV										Offset Site Error:		0.0 ft	
Survey Program:		8100-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)					
13,800.0	7,495.0	7,410.0	7,410.0	108.0	12.9	-90.00	6,695.1	-1,267.1	951.2	830.8	120.36	7.903			
13,900.0	7,495.0	7,410.0	7,410.0	109.8	12.9	-90.00	6,695.1	-1,267.1	878.2	756.1	122.10	7.192			
14,000.0	7,495.0	7,410.0	7,410.0	111.5	12.9	-90.00	6,695.1	-1,267.1	811.0	687.1	123.85	6.548			
14,100.0	7,495.0	7,410.0	7,410.0	113.2	12.9	-90.00	6,695.1	-1,267.1	751.1	625.5	125.59	5.981			
14,200.0	7,495.0	7,410.0	7,410.0	115.0	12.9	-90.00	6,695.1	-1,267.1	700.4	573.1	127.33	5.501			
14,300.0	7,495.0	7,410.0	7,410.0	116.7	12.9	-90.00	6,695.1	-1,267.1	661.1	532.0	129.07	5.122	CC, ES, SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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		
12,500.0	7,495.0	7,416.0	7,416.0	85.6	12.9	-90.00	5,419.1	-1,278.9	977.0	879.2	97.80	9.990		
12,600.0	7,495.0	7,416.0	7,416.0	87.3	12.9	-90.00	5,419.1	-1,278.9	903.5	803.9	99.53	9.077		
12,700.0	7,495.0	7,416.0	7,416.0	89.0	12.9	-90.00	5,419.1	-1,278.9	835.4	734.1	101.27	8.250		
12,800.0	7,495.0	7,416.0	7,416.0	90.8	12.9	-90.00	5,419.1	-1,278.9	774.3	671.3	103.00	7.518		
12,900.0	7,495.0	7,416.0	7,416.0	92.5	12.9	-90.00	5,419.1	-1,278.9	722.0	617.2	104.73	6.893		
13,000.0	7,495.0	7,416.0	7,416.0	94.2	12.9	-90.00	5,419.1	-1,278.9	680.4	573.9	106.47	6.390		
13,100.0	7,495.0	7,416.0	7,416.0	95.9	12.9	-90.00	5,419.1	-1,278.9	651.6	543.4	108.21	6.022		
13,200.0	7,495.0	7,416.0	7,416.0	97.7	12.9	-90.00	5,419.1	-1,278.9	637.4	527.4	109.94	5.797		
13,241.7	7,495.0	7,416.0	7,416.0	98.4	12.9	-90.00	5,419.1	-1,278.9	636.0	525.3	110.67	5.747 CC, ES		
13,300.0	7,495.0	7,416.0	7,416.0	99.4	12.9	-90.00	5,419.1	-1,278.9	638.7	527.0	111.68	5.719 SF		
13,400.0	7,495.0	7,416.0	7,416.0	101.1	12.9	-90.00	5,419.1	-1,278.9	655.4	542.0	113.42	5.779		
13,500.0	7,495.0	7,416.0	7,416.0	102.8	12.9	-90.00	5,419.1	-1,278.9	686.5	571.3	115.16	5.961		
13,600.0	7,495.0	7,416.0	7,416.0	104.6	12.9	-90.00	5,419.1	-1,278.9	730.0	613.1	116.90	6.245		
13,700.0	7,495.0	7,416.0	7,416.0	106.3	12.9	-90.00	5,419.1	-1,278.9	783.9	665.3	118.63	6.608		
13,800.0	7,495.0	7,416.0	7,416.0	108.0	12.9	-90.00	5,419.1	-1,278.9	846.3	725.9	120.37	7.031		
13,900.0	7,495.0	7,416.0	7,416.0	109.8	12.9	-90.00	5,419.1	-1,278.9	915.4	793.3	122.12	7.496		
14,000.0	7,495.0	7,416.0	7,416.0	111.5	12.9	-90.00	5,419.1	-1,278.9	989.7	865.9	123.86	7.991		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 42-26 (EXISTING) - ENCANA WELL - Existing													Offset Site Error:	0.0 ft
Survey Program: 951-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,800.0	7,495.0	7,508.1	7,443.0	40.4	18.8	89.63	2,679.3	-16.1	941.1	886.6	54.49	17.270		
9,900.0	7,495.0	7,508.5	7,443.4	42.0	18.8	89.67	2,679.3	-16.1	869.1	812.9	56.14	15.479		
10,000.0	7,495.0	7,509.0	7,443.8	43.6	18.8	89.71	2,679.3	-16.1	803.1	745.3	57.80	13.893		
10,100.0	7,495.0	7,509.4	7,444.3	45.2	18.8	89.75	2,679.3	-16.1	744.7	685.2	59.47	12.522		
10,200.0	7,495.0	7,509.8	7,444.7	46.9	18.8	89.79	2,679.3	-16.1	695.8	634.6	61.14	11.380		
10,300.0	7,495.0	7,510.2	7,445.1	48.5	18.8	89.83	2,679.3	-16.1	658.6	595.8	62.82	10.484		
10,400.0	7,495.0	7,510.6	7,445.5	50.1	18.8	89.86	2,679.4	-16.1	635.1	570.6	64.50	9.846		
10,500.0	7,495.0	7,511.1	7,445.9	51.8	18.8	89.90	2,679.4	-16.1	626.9	560.7	66.19	9.470		
10,502.0	7,495.0	7,511.1	7,445.9	51.8	18.8	89.90	2,679.4	-16.1	626.8	560.6	66.23	9.465 CC, ES		
10,600.0	7,495.0	7,511.5	7,446.3	53.4	18.8	89.94	2,679.4	-16.1	634.5	566.6	67.89	9.346 SF		
10,700.0	7,495.0	7,511.9	7,446.8	55.1	18.8	89.98	2,679.4	-16.1	657.4	587.8	69.58	9.448		
10,800.0	7,495.0	7,512.3	7,447.2	56.8	18.8	90.02	2,679.4	-16.1	694.1	622.8	71.28	9.737		
10,900.0	7,495.0	7,512.7	7,447.6	58.4	18.8	90.05	2,679.4	-16.1	742.5	669.6	72.99	10.174		
11,000.0	7,495.0	7,513.1	7,448.0	60.1	18.8	90.09	2,679.4	-16.1	800.6	725.9	74.69	10.719		
11,100.0	7,495.0	7,513.5	7,448.4	61.8	18.8	90.13	2,679.4	-16.1	866.4	790.0	76.40	11.339		
11,200.0	7,495.0	7,514.0	7,448.8	63.5	18.8	90.17	2,679.4	-16.1	938.2	860.1	78.11	12.010		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 44-23C (EXISTING) - SUNDANCE WELL - NO SURV												Offset Site Error:	0.0 ft
Survey Program: 8150-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
12,400.0	7,495.0	7,456.0	7,456.0	83.9	13.0	90.00	5,317.4	-54.8	945.2	849.1	96.14	9.832	
12,500.0	7,495.0	7,456.0	7,456.0	85.6	13.0	90.00	5,317.4	-54.8	869.2	771.3	97.87	8.881	
12,600.0	7,495.0	7,456.0	7,456.0	87.3	13.0	90.00	5,317.4	-54.8	798.4	698.8	99.60	8.016	
12,700.0	7,495.0	7,456.0	7,456.0	89.0	13.0	90.00	5,317.4	-54.8	734.5	633.1	101.34	7.248	
12,800.0	7,495.0	7,456.0	7,456.0	90.8	13.0	90.00	5,317.4	-54.8	679.3	576.2	103.07	6.591	
12,900.0	7,495.0	7,456.0	7,456.0	92.5	13.0	90.00	5,317.4	-54.8	635.2	530.4	104.80	6.061	
13,000.0	7,495.0	7,456.0	7,456.0	94.2	13.0	90.00	5,317.4	-54.8	604.5	498.0	106.54	5.674	
13,100.0	7,495.0	7,456.0	7,456.0	95.9	13.0	90.00	5,317.4	-54.8	589.5	481.2	108.28	5.444	
13,140.0	7,495.0	7,456.0	7,456.0	96.6	13.0	90.00	5,317.4	-54.8	588.1	479.1	108.97	5.397 CC, ES	
13,200.0	7,495.0	7,456.0	7,456.0	97.7	13.0	90.00	5,317.4	-54.8	591.2	481.1	110.01	5.374 SF	
13,300.0	7,495.0	7,456.0	7,456.0	99.4	13.0	90.00	5,317.4	-54.8	609.5	497.7	111.75	5.454	
13,400.0	7,495.0	7,456.0	7,456.0	101.1	13.0	90.00	5,317.4	-54.8	643.0	529.5	113.49	5.666	
13,500.0	7,495.0	7,456.0	7,456.0	102.8	13.0	90.00	5,317.4	-54.8	689.5	574.3	115.23	5.984	
13,600.0	7,495.0	7,456.0	7,456.0	104.6	13.0	90.00	5,317.4	-54.8	746.6	629.7	116.97	6.383	
13,700.0	7,495.0	7,456.0	7,456.0	106.3	13.0	90.00	5,317.4	-54.8	812.1	693.4	118.70	6.841	
13,800.0	7,495.0	7,456.0	7,456.0	108.0	13.0	90.00	5,317.4	-54.8	884.0	763.6	120.44	7.340	
13,900.0	7,495.0	7,456.0	7,456.0	109.8	13.0	90.00	5,317.4	-54.8	961.0	838.8	122.18	7.865	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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	-10.87	93.3	-17.9	101.9					
100.0	100.0	63.0	63.0	0.1	0.1	-10.87	93.3	-17.9	95.0	94.7	0.23	414.980		
200.0	200.0	163.0	163.0	0.3	0.3	-10.87	93.3	-17.9	95.0	94.4	0.58	164.324		
300.0	300.0	263.0	263.0	0.5	0.5	-10.87	93.3	-17.9	95.0	94.0	0.93	102.445		
400.0	400.0	363.0	363.0	0.6	0.6	-10.87	93.3	-17.9	95.0	93.7	1.28	74.421		
500.0	500.0	463.0	463.0	0.8	0.8	-10.87	93.3	-17.9	95.0	93.3	1.63	58.435		
600.0	600.0	563.0	563.0	1.0	1.0	-10.87	93.3	-17.9	95.0	93.0	1.97	48.103		
700.0	700.0	663.0	663.0	1.2	1.2	-10.87	93.3	-17.9	95.0	92.6	2.32	40.876		
800.0	800.0	763.0	763.0	1.3	1.3	-10.87	93.3	-17.9	95.0	92.3	2.67	35.536 CC, ES		
900.0	900.0	863.0	863.0	1.5	1.5	121.68	93.3	-17.9	95.9	92.8	3.02	31.725		
1,000.0	999.8	962.8	962.8	1.7	1.7	124.21	93.3	-17.9	98.7	95.3	3.38	29.247		
1,100.0	1,099.5	1,062.5	1,062.5	1.9	1.9	128.10	93.3	-17.9	103.9	100.1	3.74	27.804		
1,200.0	1,198.7	1,161.7	1,161.7	2.1	2.0	132.88	93.3	-17.9	111.8	107.7	4.10	27.238		
1,300.0	1,297.9	1,260.9	1,260.9	2.4	2.2	137.41	93.3	-17.9	121.1	116.6	4.47	27.078 SF		
1,400.0	1,397.0	1,360.0	1,360.0	2.6	2.4	141.28	93.3	-17.9	131.1	126.3	4.84	27.093		
1,500.0	1,496.1	1,459.1	1,459.1	2.9	2.5	144.59	93.3	-17.9	141.6	136.4	5.20	27.222		
1,600.0	1,595.3	1,558.3	1,558.3	3.1	2.7	147.44	93.3	-17.9	152.5	146.9	5.56	27.425		
1,700.0	1,694.4	1,657.4	1,657.4	3.4	2.9	149.90	93.3	-17.9	163.7	157.8	5.92	27.671		
1,800.0	1,793.5	1,756.5	1,756.5	3.7	3.1	152.05	93.3	-17.9	175.2	169.0	6.27	27.943		
1,900.0	1,892.7	1,855.7	1,855.7	3.9	3.2	153.93	93.3	-17.9	186.9	180.3	6.62	28.226		
2,000.0	1,991.8	1,954.8	1,954.8	4.2	3.4	155.59	93.3	-17.9	198.8	191.8	6.97	28.513		
2,100.0	2,090.9	2,053.9	2,053.9	4.5	3.6	157.06	93.3	-17.9	210.8	203.5	7.32	28.797		
2,200.0	2,190.1	2,153.1	2,153.1	4.8	3.8	158.37	93.3	-17.9	223.0	215.3	7.67	29.075		
2,300.0	2,289.2	2,252.2	2,252.2	5.0	3.9	159.55	93.3	-17.9	235.2	227.2	8.02	29.345		
2,400.0	2,388.4	2,351.4	2,351.4	5.3	4.1	160.61	93.3	-17.9	247.6	239.2	8.36	29.605		
2,500.0	2,487.5	2,450.5	2,450.5	5.6	4.3	161.57	93.3	-17.9	260.0	251.3	8.71	29.854		
2,600.0	2,586.6	2,549.6	2,549.6	5.9	4.5	162.44	93.3	-17.9	272.5	263.4	9.05	30.093		
2,700.0	2,685.8	2,648.8	2,648.8	6.2	4.6	163.23	93.3	-17.9	285.0	275.6	9.40	30.321		
2,800.0	2,784.9	2,747.9	2,747.9	6.5	4.8	163.96	93.3	-17.9	297.6	287.9	9.74	30.539		
2,900.0	2,884.0	2,847.0	2,847.0	6.7	5.0	164.63	93.3	-17.9	310.2	300.1	10.09	30.746		
3,000.0	2,983.2	2,946.2	2,946.2	7.0	5.1	165.24	93.3	-17.9	322.9	312.5	10.43	30.944		
3,100.0	3,082.3	3,045.3	3,045.3	7.3	5.3	165.81	93.3	-17.9	335.6	324.8	10.78	31.133		
3,200.0	3,181.4	3,144.4	3,144.4	7.6	5.5	166.34	93.3	-17.9	348.3	337.2	11.12	31.312		
3,300.0	3,280.6	3,243.6	3,243.6	7.9	5.7	166.83	93.3	-17.9	361.1	349.6	11.47	31.484		
3,400.0	3,379.7	3,342.7	3,342.7	8.2	5.8	167.29	93.3	-17.9	373.9	362.1	11.81	31.647		
3,500.0	3,478.9	3,441.9	3,441.9	8.4	6.0	167.72	93.3	-17.9	386.7	374.5	12.16	31.803		
3,600.0	3,578.0	3,541.0	3,541.0	8.7	6.2	168.12	93.3	-17.9	399.5	387.0	12.50	31.952		
3,700.0	3,677.1	3,640.1	3,640.1	9.0	6.4	168.49	93.3	-17.9	412.4	399.5	12.85	32.094		
3,800.0	3,776.3	3,739.3	3,739.3	9.3	6.5	168.85	93.3	-17.9	425.2	412.0	13.19	32.230		
3,900.0	3,875.4	3,838.4	3,838.4	9.6	6.7	169.18	93.3	-17.9	438.1	424.6	13.54	32.360		
4,000.0	3,974.5	3,937.5	3,937.5	9.9	6.9	169.49	93.3	-17.9	451.0	437.1	13.88	32.484		
4,100.0	4,073.7	4,036.7	4,036.7	10.2	7.0	169.79	93.3	-17.9	463.9	449.7	14.23	32.603		
4,200.0	4,172.8	4,135.8	4,135.8	10.4	7.2	170.07	93.3	-17.9	476.8	462.2	14.57	32.717		
4,300.0	4,271.9	4,234.9	4,234.9	10.7	7.4	170.33	93.3	-17.9	489.7	474.8	14.92	32.827		
4,400.0	4,371.1	4,334.1	4,334.1	11.0	7.6	170.58	93.3	-17.9	502.7	487.4	15.26	32.932		
4,500.0	4,470.2	4,433.2	4,433.2	11.3	7.7	170.82	93.3	-17.9	515.6	500.0	15.61	33.033		
4,600.0	4,569.4	4,532.4	4,532.4	11.6	7.9	171.05	93.3	-17.9	528.6	512.6	15.95	33.130		
4,700.0	4,668.5	4,631.5	4,631.5	11.9	8.1	171.26	93.3	-17.9	541.5	525.2	16.30	33.223		
4,800.0	4,767.6	4,730.6	4,730.6	12.2	8.3	171.47	93.3	-17.9	554.5	537.8	16.64	33.313		
4,900.0	4,866.8	4,829.8	4,829.8	12.5	8.4	171.66	93.3	-17.9	567.5	550.5	16.99	33.400		
5,000.0	4,965.9	4,928.9	4,928.9	12.7	8.6	171.85	93.3	-17.9	580.4	563.1	17.34	33.483		
5,100.0	5,065.0	5,028.0	5,028.0	13.0	8.8	172.03	93.3	-17.9	593.4	575.7	17.68	33.563		

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 4G-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 4G-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		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,164.2	5,120.0	5,120.0	13.3	8.9	172.19	93.3	-17.9	606.4	588.4	18.01	33.666	
5,300.0	5,263.3	5,120.0	5,120.0	13.6	8.9	172.19	93.3	-17.9	628.5	610.3	18.19	34.547	
5,400.0	5,362.5	5,120.0	5,120.0	13.9	8.9	172.19	93.3	-17.9	664.9	646.6	18.37	36.199	
5,500.0	5,461.6	5,120.0	5,120.0	14.2	8.9	172.19	93.3	-17.9	713.7	695.1	18.55	38.480	
5,600.0	5,560.7	5,120.0	5,120.0	14.5	8.9	172.19	93.3	-17.9	772.3	753.6	18.72	41.248	
5,700.0	5,659.9	5,120.0	5,120.0	14.8	8.9	172.19	93.3	-17.9	838.9	820.0	18.90	44.380	
5,800.0	5,759.0	5,120.0	5,120.0	15.0	8.9	172.19	93.3	-17.9	911.5	892.4	19.08	47.775	
5,900.0	5,858.1	5,120.0	5,120.0	15.3	8.9	172.19	93.3	-17.9	989.0	969.7	19.26	51.356	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 1 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8200-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,300.0	7,495.0	7,457.0	7,457.0	20.3	13.0	90.00	1,442.9	-476.3	979.8	949.9	29.86	32.810		
8,400.0	7,495.0	7,457.0	7,457.0	21.2	13.0	90.00	1,442.9	-476.3	881.4	850.4	30.97	28.460		
8,500.0	7,495.0	7,457.0	7,457.0	22.2	13.0	90.00	1,442.9	-476.3	783.4	751.3	32.17	24.349		
8,600.0	7,495.0	7,457.0	7,457.0	23.4	13.0	90.00	1,442.9	-476.3	686.1	652.6	33.46	20.504		
8,700.0	7,495.0	7,457.0	7,457.0	24.5	13.0	90.00	1,442.9	-476.3	589.5	554.7	34.81	16.937		
8,800.0	7,495.0	7,457.0	7,457.0	25.8	13.0	90.00	1,442.9	-476.3	494.4	458.2	36.21	13.654		
8,900.0	7,495.0	7,457.0	7,457.0	27.1	13.0	90.00	1,442.9	-476.3	401.7	364.0	37.66	10.666		
9,000.0	7,495.0	7,457.0	7,457.0	28.5	13.0	90.00	1,442.9	-476.3	313.4	274.3	39.15	8.007		
9,100.0	7,495.0	7,457.0	7,457.0	29.9	13.0	90.00	1,442.9	-476.3	234.8	194.2	40.66	5.775		
9,200.0	7,495.0	7,457.0	7,457.0	31.3	13.0	90.00	1,442.9	-476.3	179.0	136.8	42.21	4.241		
9,265.5	7,495.0	7,457.0	7,457.0	32.3	13.0	90.00	1,442.9	-476.3	166.6	123.3	43.24	3.853	CC, ES, SF	
9,300.0	7,495.0	7,457.0	7,457.0	32.8	13.0	90.00	1,442.9	-476.3	170.1	126.3	43.78	3.886		
9,400.0	7,495.0	7,457.0	7,457.0	34.3	13.0	90.00	1,442.9	-476.3	214.1	168.7	45.36	4.719		
9,500.0	7,495.0	7,457.0	7,457.0	35.8	13.0	90.00	1,442.9	-476.3	287.6	240.7	46.96	6.124		
9,600.0	7,495.0	7,457.0	7,457.0	37.3	13.0	90.00	1,442.9	-476.3	373.7	325.1	48.58	7.691		
9,700.0	7,495.0	7,457.0	7,457.0	38.9	13.0	90.00	1,442.9	-476.3	465.3	415.1	50.21	9.267		
9,800.0	7,495.0	7,457.0	7,457.0	40.4	13.0	90.00	1,442.9	-476.3	559.8	508.0	51.85	10.797		
9,900.0	7,495.0	7,457.0	7,457.0	42.0	13.0	90.00	1,442.9	-476.3	656.0	602.5	53.50	12.261		
10,000.0	7,495.0	7,457.0	7,457.0	43.6	13.0	90.00	1,442.9	-476.3	753.1	698.0	55.16	13.654		
10,100.0	7,495.0	7,457.0	7,457.0	45.2	13.0	90.00	1,442.9	-476.3	850.9	794.1	56.82	14.975		
10,200.0	7,495.0	7,457.0	7,457.0	46.9	13.0	90.00	1,442.9	-476.3	949.2	890.7	58.50	16.227		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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	-154.36	-14.6	-7.0	38.5					
100.0	100.0	65.0	65.0	0.1	0.1	-154.36	-14.6	-7.0	16.2	15.9	0.23	69.551		
200.0	200.0	165.0	165.0	0.3	0.3	-154.36	-14.6	-7.0	16.2	15.6	0.58	27.793		
300.0	300.0	265.0	265.0	0.5	0.5	-154.36	-14.6	-7.0	16.2	15.2	0.93	17.366		
400.0	400.0	365.0	365.0	0.6	0.6	-154.36	-14.6	-7.0	16.2	14.9	1.28	12.629		
500.0	500.0	465.0	465.0	0.8	0.8	-154.36	-14.6	-7.0	16.2	14.5	1.63	9.922		
600.0	600.0	565.0	565.0	1.0	1.0	-154.36	-14.6	-7.0	16.2	14.2	1.98	8.171		
700.0	700.0	665.0	665.0	1.2	1.2	-154.36	-14.6	-7.0	16.2	13.8	2.33	6.945		
800.0	800.0	765.0	765.0	1.3	1.3	-154.36	-14.6	-7.0	16.2	13.5	2.68	6.039		
900.0	900.0	865.0	865.0	1.5	1.5	-25.36	-14.6	-7.0	14.6	11.5	3.02	4.816		
1,000.0	999.8	964.8	964.8	1.7	1.7	-38.24	-14.6	-7.0	10.1	6.7	3.37	2.989		
1,092.4	1,091.9	1,056.9	1,056.9	1.9	1.8	-90.00	-14.6	-7.0	6.2	2.5	3.73	1.672	CC, ES, SF	
1,100.0	1,099.5	1,064.5	1,064.5	1.9	1.9	-97.15	-14.6	-7.0	6.3	2.5	3.76	1.673		
1,200.0	1,198.7	1,163.7	1,163.7	2.1	2.0	-153.97	-14.6	-7.0	14.3	10.2	4.07	3.515		
1,300.0	1,297.9	1,262.9	1,262.9	2.4	2.2	-166.40	-14.6	-7.0	26.7	22.3	4.41	6.065		
1,400.0	1,397.0	1,362.0	1,362.0	2.6	2.4	-170.86	-14.6	-7.0	39.6	34.8	4.75	8.334		
1,500.0	1,496.1	1,461.1	1,461.1	2.9	2.6	-173.13	-14.6	-7.0	52.6	47.5	5.10	10.318		
1,600.0	1,595.3	1,560.3	1,560.3	3.1	2.7	-174.50	-14.6	-7.0	65.6	60.2	5.44	12.056		
1,700.0	1,694.4	1,659.4	1,659.4	3.4	2.9	-175.42	-14.6	-7.0	78.7	72.9	5.79	13.591		
1,800.0	1,793.5	1,758.5	1,758.5	3.7	3.1	-176.07	-14.6	-7.0	91.8	85.6	6.14	14.954		
1,900.0	1,892.7	1,857.7	1,857.7	3.9	3.2	-176.56	-14.6	-7.0	104.8	98.4	6.48	16.172		
2,000.0	1,991.8	1,956.8	1,956.8	4.2	3.4	-176.94	-14.6	-7.0	117.9	111.1	6.83	17.268		
2,100.0	2,090.9	2,055.9	2,055.9	4.5	3.6	-177.25	-14.6	-7.0	131.0	123.9	7.18	18.258		
2,200.0	2,190.1	2,155.1	2,155.1	4.8	3.8	-177.50	-14.6	-7.0	144.1	136.6	7.52	19.157		
2,300.0	2,289.2	2,254.2	2,254.2	5.0	3.9	-177.71	-14.6	-7.0	157.2	149.4	7.87	19.977		
2,400.0	2,388.4	2,353.4	2,353.4	5.3	4.1	-177.88	-14.6	-7.0	170.3	162.1	8.22	20.728		
2,500.0	2,487.5	2,452.5	2,452.5	5.6	4.3	-178.04	-14.6	-7.0	183.4	174.9	8.56	21.418		
2,600.0	2,586.6	2,551.6	2,551.6	5.9	4.5	-178.17	-14.6	-7.0	196.5	187.6	8.91	22.055		
2,700.0	2,685.8	2,650.8	2,650.8	6.2	4.6	-178.28	-14.6	-7.0	209.7	200.4	9.26	22.644		
2,800.0	2,784.9	2,749.9	2,749.9	6.5	4.8	-178.38	-14.6	-7.0	222.8	213.2	9.61	23.191		
2,900.0	2,884.0	2,849.0	2,849.0	6.7	5.0	-178.47	-14.6	-7.0	235.9	225.9	9.95	23.699		
3,000.0	2,983.2	2,948.2	2,948.2	7.0	5.1	-178.55	-14.6	-7.0	249.0	238.7	10.30	24.174		
3,100.0	3,082.3	3,047.3	3,047.3	7.3	5.3	-178.63	-14.6	-7.0	262.1	251.4	10.65	24.617		
3,200.0	3,181.4	3,146.4	3,146.4	7.6	5.5	-178.69	-14.6	-7.0	275.2	264.2	10.99	25.033		
3,300.0	3,280.6	3,245.6	3,245.6	7.9	5.7	-178.75	-14.6	-7.0	288.3	277.0	11.34	25.423		
3,400.0	3,379.7	3,344.7	3,344.7	8.2	5.8	-178.80	-14.6	-7.0	301.4	289.7	11.69	25.790		
3,500.0	3,478.9	3,443.9	3,443.9	8.4	6.0	-178.85	-14.6	-7.0	314.5	302.5	12.03	26.136		
3,600.0	3,578.0	3,543.0	3,543.0	8.7	6.2	-178.90	-14.6	-7.0	327.6	315.3	12.38	26.462		
3,700.0	3,677.1	3,642.1	3,642.1	9.0	6.4	-178.94	-14.6	-7.0	340.7	328.0	12.73	26.771		
3,800.0	3,776.3	3,741.3	3,741.3	9.3	6.5	-178.98	-14.6	-7.0	353.9	340.8	13.08	27.063		
3,900.0	3,875.4	3,840.4	3,840.4	9.6	6.7	-179.02	-14.6	-7.0	367.0	353.5	13.42	27.340		
4,000.0	3,974.5	3,939.5	3,939.5	9.9	6.9	-179.05	-14.6	-7.0	380.1	366.3	13.77	27.604		
4,100.0	4,073.7	4,038.7	4,038.7	10.2	7.0	-179.08	-14.6	-7.0	393.2	379.1	14.12	27.854		
4,200.0	4,172.8	4,137.8	4,137.8	10.4	7.2	-179.11	-14.6	-7.0	406.3	391.8	14.46	28.092		
4,300.0	4,271.9	4,236.9	4,236.9	10.7	7.4	-179.14	-14.6	-7.0	419.4	404.6	14.81	28.319		
4,400.0	4,371.1	4,336.1	4,336.1	11.0	7.6	-179.17	-14.6	-7.0	432.5	417.4	15.16	28.536		
4,500.0	4,470.2	4,435.2	4,435.2	11.3	7.7	-179.19	-14.6	-7.0	445.6	430.1	15.50	28.743		
4,600.0	4,569.4	4,534.4	4,534.4	11.6	7.9	-179.21	-14.6	-7.0	458.7	442.9	15.85	28.941		
4,700.0	4,668.5	4,633.5	4,633.5	11.9	8.1	-179.24	-14.6	-7.0	471.8	455.7	16.20	29.131		
4,800.0	4,767.6	4,732.6	4,732.6	12.2	8.3	-179.26	-14.6	-7.0	485.0	468.4	16.54	29.313		
4,900.0	4,866.8	4,831.8	4,831.8	12.5	8.4	-179.28	-14.6	-7.0	498.1	481.2	16.89	29.487		
5,000.0	4,965.9	4,930.9	4,930.9	12.7	8.6	-179.30	-14.6	-7.0	511.2	493.9	17.24	29.654		

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 4G-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 4G-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						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		
5,100.0	5,065.0	5,030.0	5,030.0	13.0	8.8	-179.31	-14.6	-7.0	524.3	506.7	17.59	29.814		
5,200.0	5,164.2	5,129.2	5,129.2	13.3	9.0	-179.33	-14.6	-7.0	537.4	519.5	17.93	29.969		
5,300.0	5,263.3	5,228.3	5,228.3	13.6	9.1	-179.35	-14.6	-7.0	550.5	532.2	18.28	30.117		
5,400.0	5,362.5	5,327.5	5,327.5	13.9	9.3	-179.36	-14.6	-7.0	563.6	545.0	18.63	30.260		
5,500.0	5,461.6	5,426.6	5,426.6	14.2	9.5	-179.38	-14.6	-7.0	576.7	557.8	18.97	30.398		
5,600.0	5,560.7	5,525.7	5,525.7	14.5	9.6	-179.39	-14.6	-7.0	589.9	570.5	19.32	30.531		
5,700.0	5,659.9	5,624.9	5,624.9	14.8	9.8	-179.40	-14.6	-7.0	603.0	583.3	19.67	30.659		
5,800.0	5,759.0	5,724.0	5,724.0	15.0	10.0	-179.42	-14.6	-7.0	616.1	596.1	20.01	30.782		
5,900.0	5,858.1	5,823.1	5,823.1	15.3	10.2	-179.43	-14.6	-7.0	629.2	608.8	20.36	30.902		
6,000.0	5,957.3	5,922.3	5,922.3	15.6	10.3	-179.44	-14.6	-7.0	642.3	621.6	20.71	31.017		
6,100.0	6,056.4	6,021.4	6,021.4	15.9	10.5	-179.45	-14.6	-7.0	655.4	634.4	21.05	31.129		
6,200.0	6,155.5	6,120.5	6,120.5	16.2	10.7	-179.46	-14.6	-7.0	668.5	647.1	21.40	31.237		
6,300.0	6,254.7	6,219.7	6,219.7	16.5	10.9	-179.47	-14.6	-7.0	681.6	659.9	21.75	31.342		
6,400.0	6,353.8	6,318.8	6,318.8	16.8	11.0	-179.48	-14.6	-7.0	694.7	672.6	22.10	31.443		
6,500.0	6,453.0	6,418.0	6,418.0	17.1	11.2	-179.49	-14.6	-7.0	707.9	685.4	22.44	31.541		
6,600.0	6,552.1	6,517.1	6,517.1	17.3	11.4	-179.50	-14.6	-7.0	721.0	698.2	22.79	31.636		
6,700.0	6,651.2	6,616.2	6,616.2	17.6	11.5	-179.51	-14.6	-7.0	734.1	710.9	23.14	31.728		
6,800.0	6,750.4	6,715.4	6,715.4	17.9	11.7	-179.52	-14.6	-7.0	747.2	723.7	23.48	31.818		
6,900.0	6,849.5	6,814.5	6,814.5	18.2	11.9	-179.53	-14.6	-7.0	760.3	736.5	23.83	31.905		
7,000.0	6,948.8	6,913.8	6,913.8	18.4	12.1	115.72	-14.6	-7.0	770.3	746.1	24.22	31.802		
7,100.0	7,047.4	7,012.4	7,012.4	18.5	12.2	74.76	-14.6	-7.0	769.4	744.9	24.46	31.458		
7,200.0	7,142.2	7,107.2	7,107.2	18.4	12.4	67.60	-14.6	-7.0	758.0	733.4	24.59	30.829		
7,300.0	7,230.5	7,195.5	7,195.5	18.3	12.6	68.17	-14.6	-7.0	738.1	713.3	24.79	29.780		
7,400.0	7,309.4	7,274.4	7,274.4	18.0	12.7	72.08	-14.6	-7.0	712.4	687.3	25.17	28.307		
7,500.0	7,376.7	7,341.7	7,341.7	17.8	12.8	77.57	-14.6	-7.0	684.8	659.2	25.67	26.675		
7,600.0	7,430.2	7,395.2	7,395.2	17.7	12.9	83.21	-14.6	-7.0	659.8	633.7	26.10	25.278		
7,700.0	7,468.4	7,433.4	7,433.4	17.6	13.0	87.69	-14.6	-7.0	642.0	615.6	26.36	24.357		
7,799.4	7,489.9	7,454.9	7,454.9	17.7	13.0	90.00	-14.6	-7.0	635.5	608.9	26.55	23.931		
7,800.0	7,490.0	7,455.0	7,455.0	17.7	13.0	90.01	-14.6	-7.0	635.5	608.9	26.56	23.930		
7,900.0	7,495.0	7,460.0	7,460.0	17.9	13.0	90.00	-14.6	-7.0	642.5	615.7	26.85	23.933		
8,000.0	7,495.0	7,460.0	7,460.0	18.3	13.0	90.00	-14.6	-7.0	664.3	636.9	27.34	24.294		
8,100.0	7,495.0	7,460.0	7,460.0	18.8	13.0	90.00	-14.6	-7.0	699.7	671.7	28.03	24.966		
8,200.0	7,495.0	7,460.0	7,460.0	19.5	13.0	90.00	-14.6	-7.0	747.0	718.1	28.88	25.868		
8,300.0	7,495.0	7,460.0	7,460.0	20.3	13.0	90.00	-14.6	-7.0	804.0	774.1	29.87	26.918		
8,400.0	7,495.0	7,460.0	7,460.0	21.2	13.0	90.00	-14.6	-7.0	868.8	837.8	30.98	28.048		
8,500.0	7,495.0	7,460.0	7,460.0	22.2	13.0	90.00	-14.6	-7.0	939.8	907.6	32.18	29.204		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 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	-89.64	0.4	-60.1	60.2					
100.0	100.0	99.0	99.0	0.1	0.1	-89.64	0.4	-60.1	60.1	59.9	0.24	254.649		
200.0	200.0	199.0	199.0	0.3	0.3	-89.64	0.4	-60.1	60.1	59.6	0.58	102.863 CC, ES		
300.0	300.0	297.0	297.0	0.5	0.5	-90.08	-0.1	-61.7	61.8	60.8	0.93	66.299		
400.0	400.0	394.8	394.6	0.6	0.7	-91.28	-1.5	-66.5	66.7	65.4	1.28	51.951		
500.0	500.0	492.1	491.6	0.8	0.9	-92.93	-3.8	-74.4	74.9	73.2	1.65	45.521		
600.0	600.0	588.7	587.5	1.0	1.1	-94.71	-7.0	-85.4	86.5	84.4	2.02	42.715		
700.0	700.0	684.5	682.2	1.2	1.4	-96.39	-11.1	-99.4	101.4	99.0	2.43	41.775		
800.0	800.0	779.2	775.2	1.3	1.8	-97.86	-16.0	-116.1	119.6	116.8	2.86	41.849		
900.0	900.0	872.9	866.7	1.5	2.2	32.71	-21.8	-135.6	139.7	136.7	3.00	46.591		
1,000.0	999.8	966.0	956.9	1.7	2.6	32.35	-28.3	-157.8	160.0	156.7	3.34	47.875		
1,100.0	1,099.5	1,060.9	1,048.1	1.9	3.1	32.49	-35.6	-183.1	180.3	176.7	3.70	48.763		
1,200.0	1,198.7	1,159.2	1,142.4	2.1	3.6	33.16	-43.4	-209.6	198.4	194.3	4.08	48.671		
1,300.0	1,297.9	1,257.7	1,236.9	2.4	4.1	34.00	-51.2	-236.3	215.6	211.1	4.47	48.252		
1,400.0	1,397.0	1,356.1	1,331.4	2.6	4.6	34.72	-59.0	-262.9	232.9	228.0	4.87	47.820		
1,500.0	1,496.1	1,454.6	1,425.8	2.9	5.2	35.33	-66.9	-289.5	250.2	244.9	5.28	47.389		
1,600.0	1,595.3	1,553.0	1,520.3	3.1	5.7	35.87	-74.7	-316.1	267.5	261.8	5.70	46.970		
1,700.0	1,694.4	1,651.5	1,614.8	3.4	6.2	36.34	-82.5	-342.8	284.9	278.7	6.12	46.567		
1,800.0	1,793.5	1,750.0	1,709.2	3.7	6.7	36.76	-90.3	-369.4	302.2	295.7	6.54	46.184		
1,900.0	1,892.7	1,848.4	1,803.7	3.9	7.3	37.13	-98.1	-396.0	319.6	312.6	6.97	45.822		
2,000.0	1,991.8	1,946.9	1,898.2	4.2	7.8	37.46	-105.9	-422.6	337.0	329.6	7.41	45.481		
2,100.0	2,090.9	2,045.3	1,992.6	4.5	8.3	37.76	-113.7	-449.3	354.4	346.5	7.85	45.160		
2,200.0	2,190.1	2,143.8	2,087.1	4.8	8.8	38.04	-121.5	-475.9	371.8	363.5	8.29	44.859		
2,300.0	2,289.2	2,242.3	2,181.6	5.0	9.4	38.29	-129.3	-502.5	389.2	380.5	8.73	44.577		
2,400.0	2,388.4	2,340.7	2,276.0	5.3	9.9	38.51	-137.1	-529.1	406.6	397.4	9.18	44.313		
2,500.0	2,487.5	2,439.2	2,370.5	5.6	10.4	38.72	-144.9	-555.8	424.0	414.4	9.62	44.064		
2,600.0	2,586.6	2,537.6	2,465.0	5.9	11.0	38.91	-152.7	-582.4	441.5	431.4	10.07	43.831		
2,700.0	2,685.8	2,636.1	2,559.4	6.2	11.5	39.09	-160.5	-609.0	458.9	448.4	10.52	43.612		
2,800.0	2,784.9	2,734.6	2,653.9	6.5	12.0	39.25	-168.3	-635.6	476.3	465.4	10.97	43.405		
2,900.0	2,884.0	2,833.0	2,748.4	6.7	12.5	39.41	-176.1	-662.3	493.8	482.4	11.43	43.211		
3,000.0	2,983.2	2,931.5	2,842.9	7.0	13.1	39.55	-183.9	-688.9	511.2	499.4	11.88	43.028		
3,100.0	3,082.3	3,029.9	2,937.3	7.3	13.6	39.68	-191.7	-715.5	528.7	516.3	12.34	42.855		
3,200.0	3,181.4	3,128.4	3,031.8	7.6	14.1	39.81	-199.5	-742.1	546.1	533.3	12.79	42.692		
3,300.0	3,280.6	3,226.8	3,126.3	7.9	14.7	39.92	-207.3	-768.8	563.6	550.3	13.25	42.537		
3,400.0	3,379.7	3,325.3	3,220.7	8.2	15.2	40.03	-215.1	-795.4	581.0	567.3	13.71	42.390		
3,500.0	3,478.9	3,423.8	3,315.2	8.4	15.7	40.14	-222.9	-822.0	598.5	584.3	14.17	42.251		
3,600.0	3,578.0	3,522.2	3,409.7	8.7	16.2	40.23	-230.7	-848.6	616.0	601.3	14.62	42.120		
3,700.0	3,677.1	3,620.7	3,504.1	9.0	16.8	40.33	-238.5	-875.3	633.4	618.3	15.08	41.994		
3,800.0	3,776.3	3,719.1	3,598.6	9.3	17.3	40.41	-246.3	-901.9	650.9	635.3	15.54	41.875		
3,900.0	3,875.4	3,817.6	3,693.1	9.6	17.8	40.50	-254.1	-928.5	668.3	652.3	16.00	41.761		
4,000.0	3,974.5	3,916.1	3,787.5	9.9	18.4	40.57	-261.9	-955.1	685.8	669.3	16.46	41.653		
4,100.0	4,073.7	4,014.5	3,882.0	10.2	18.9	40.65	-269.7	-981.8	703.3	686.3	16.93	41.549		
4,200.0	4,172.8	4,113.0	3,976.5	10.4	19.4	40.72	-277.5	-1,008.4	720.7	703.4	17.39	41.450		
4,300.0	4,271.9	4,211.4	4,070.9	10.7	20.0	40.79	-285.3	-1,035.0	738.2	720.4	17.85	41.356		
4,400.0	4,371.1	4,309.9	4,165.4	11.0	20.5	40.85	-293.2	-1,061.7	755.7	737.4	18.31	41.266		
4,500.0	4,470.2	4,408.4	4,259.9	11.3	21.0	40.91	-301.0	-1,088.3	773.1	754.4	18.78	41.179		
4,600.0	4,569.4	4,506.8	4,354.4	11.6	21.5	40.97	-308.8	-1,114.9	790.6	771.4	19.24	41.096		
4,700.0	4,668.5	4,605.3	4,448.8	11.9	22.1	41.03	-316.6	-1,141.5	808.1	788.4	19.70	41.016		
4,800.0	4,767.6	4,703.7	4,543.3	12.2	22.6	41.08	-324.4	-1,168.2	825.6	805.4	20.17	40.940		
4,900.0	4,866.8	4,802.2	4,637.8	12.5	23.1	41.13	-332.2	-1,194.8	843.0	822.4	20.63	40.866		
5,000.0	4,965.9	4,900.6	4,732.2	12.7	23.7	41.18	-340.0	-1,221.4	860.5	839.4	21.09	40.796		
5,100.0	5,065.0	4,999.1	4,826.7	13.0	24.2	41.23	-347.8	-1,248.0	878.0	856.4	21.56	40.728		

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 4G-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 4G-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							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)							
5,200.0	5,164.2	5,097.6	4,921.2	13.3	24.7	41.28	-355.6	-1,274.7	895.5	873.4	22.02	40.662					
5,300.0	5,263.3	5,196.0	5,015.6	13.6	25.3	41.32	-363.4	-1,301.3	912.9	890.4	22.49	40.599					
5,400.0	5,362.5	5,294.5	5,110.1	13.9	25.8	41.36	-371.2	-1,327.9	930.4	907.5	22.95	40.538					
5,500.0	5,461.6	5,392.9	5,204.6	14.2	26.3	41.40	-379.0	-1,354.5	947.9	924.5	23.42	40.479					
5,600.0	5,560.7	5,491.4	5,299.0	14.5	26.8	41.44	-386.8	-1,381.2	965.4	941.5	23.88	40.423					
5,700.0	5,659.9	5,589.9	5,393.5	14.8	27.4	41.48	-394.6	-1,407.8	982.8	958.5	24.35	40.368 SF					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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		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	-89.58	0.4	-50.1	50.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.58	0.4	-50.1	50.1	49.8	0.24	210.952		
200.0	200.0	200.0	200.0	0.3	0.3	-89.58	0.4	-50.1	50.1	49.5	0.59	85.385		
300.0	300.0	300.0	300.0	0.5	0.5	-89.58	0.4	-50.1	50.1	49.1	0.94	53.525 CC, ES		
400.0	400.0	398.3	398.3	0.6	0.6	-90.18	-0.2	-51.7	51.7	50.4	1.28	40.316		
500.0	500.0	496.4	496.3	0.8	0.8	-91.78	-1.8	-56.5	56.6	55.0	1.63	34.667		
600.0	600.0	594.1	593.6	1.0	1.0	-93.89	-4.4	-64.4	64.9	62.9	1.99	32.551		
700.0	700.0	691.0	689.8	1.2	1.3	-96.08	-8.0	-75.4	76.5	74.1	2.37	32.297		
800.0	800.0	787.1	784.8	1.3	1.6	-98.06	-12.6	-89.3	91.5	88.7	2.77	33.066		
900.0	900.0	882.4	878.4	1.5	1.9	32.22	-18.2	-106.1	108.3	105.3	3.01	35.961		
1,000.0	999.8	977.1	970.8	1.7	2.3	31.77	-24.7	-125.7	125.5	122.2	3.36	37.363		
1,100.0	1,099.5	1,073.5	1,064.2	1.9	2.7	31.94	-32.2	-148.2	142.6	138.9	3.72	38.366		
1,200.0	1,198.7	1,172.3	1,159.9	2.1	3.2	32.75	-40.0	-171.7	157.3	153.2	4.10	38.411		
1,300.0	1,297.9	1,271.3	1,255.8	2.4	3.6	33.71	-47.8	-195.2	171.2	166.7	4.49	38.135		
1,400.0	1,397.0	1,370.3	1,351.6	2.6	4.1	34.53	-55.6	-218.7	185.1	180.2	4.89	37.838		
1,500.0	1,496.1	1,469.3	1,447.5	2.9	4.6	35.23	-63.3	-242.2	199.0	193.7	5.30	37.535		
1,600.0	1,595.3	1,568.3	1,543.3	3.1	5.0	35.84	-71.1	-265.7	213.0	207.3	5.72	37.234		
1,700.0	1,694.4	1,667.3	1,639.2	3.4	5.5	36.38	-78.9	-289.3	227.0	220.8	6.14	36.941		
1,800.0	1,793.5	1,766.3	1,735.0	3.7	6.0	36.85	-86.7	-312.8	241.0	234.4	6.57	36.660		
1,900.0	1,892.7	1,865.3	1,830.9	3.9	6.5	37.27	-94.5	-336.3	255.0	248.0	7.01	36.391		
2,000.0	1,991.8	1,964.3	1,926.7	4.2	6.9	37.65	-102.3	-359.8	269.0	261.6	7.45	36.137		
2,100.0	2,090.9	2,063.3	2,022.6	4.5	7.4	37.99	-110.1	-383.3	283.1	275.2	7.89	35.897		
2,200.0	2,190.1	2,162.3	2,118.4	4.8	7.9	38.30	-117.9	-406.8	297.1	288.8	8.33	35.671		
2,300.0	2,289.2	2,261.3	2,214.2	5.0	8.3	38.58	-125.7	-430.3	311.2	302.4	8.78	35.458		
2,400.0	2,388.4	2,360.3	2,310.1	5.3	8.8	38.83	-133.5	-453.9	325.3	316.0	9.23	35.257		
2,500.0	2,487.5	2,459.3	2,405.9	5.6	9.3	39.07	-141.3	-477.4	339.3	329.7	9.68	35.069		
2,600.0	2,586.6	2,558.3	2,501.8	5.9	9.8	39.29	-149.1	-500.9	353.4	343.3	10.13	34.891		
2,700.0	2,685.8	2,657.3	2,597.6	6.2	10.2	39.49	-156.9	-524.4	367.5	356.9	10.58	34.724		
2,800.0	2,784.9	2,756.3	2,693.5	6.5	10.7	39.67	-164.7	-547.9	381.6	370.6	11.04	34.567		
2,900.0	2,884.0	2,855.3	2,789.3	6.7	11.2	39.84	-172.5	-571.4	395.7	384.2	11.50	34.418		
3,000.0	2,983.2	2,954.3	2,885.2	7.0	11.7	40.00	-180.3	-594.9	409.8	397.8	11.95	34.278		
3,100.0	3,082.3	3,053.3	2,981.0	7.3	12.1	40.15	-188.1	-618.5	423.9	411.5	12.41	34.145		
3,200.0	3,181.4	3,152.3	3,076.9	7.6	12.6	40.29	-195.9	-642.0	438.0	425.1	12.87	34.020		
3,300.0	3,280.6	3,251.2	3,172.7	7.9	13.1	40.42	-203.7	-665.5	452.1	438.7	13.34	33.901		
3,400.0	3,379.7	3,350.2	3,268.5	8.2	13.6	40.54	-211.5	-689.0	466.2	452.4	13.80	33.789		
3,500.0	3,478.9	3,449.2	3,364.4	8.4	14.0	40.66	-219.3	-712.5	480.3	466.0	14.26	33.682		
3,600.0	3,578.0	3,548.2	3,460.2	8.7	14.5	40.77	-227.1	-736.0	494.4	479.7	14.72	33.580		
3,700.0	3,677.1	3,647.2	3,556.1	9.0	15.0	40.87	-234.9	-759.5	508.5	493.3	15.19	33.484		
3,800.0	3,776.3	3,746.2	3,651.9	9.3	15.5	40.97	-242.7	-783.1	522.6	507.0	15.65	33.392		
3,900.0	3,875.4	3,845.2	3,747.8	9.6	15.9	41.06	-250.5	-806.6	536.7	520.6	16.12	33.304		
4,000.0	3,974.5	3,944.2	3,843.6	9.9	16.4	41.15	-258.3	-830.1	550.8	534.3	16.58	33.221		
4,100.0	4,073.7	4,043.2	3,939.5	10.2	16.9	41.23	-266.1	-853.6	565.0	547.9	17.05	33.141		
4,200.0	4,172.8	4,142.2	4,035.3	10.4	17.4	41.31	-273.9	-877.1	579.1	561.6	17.51	33.065		
4,300.0	4,271.9	4,241.2	4,131.2	10.7	17.8	41.39	-281.6	-900.6	593.2	575.2	17.98	32.992		
4,400.0	4,371.1	4,340.2	4,227.0	11.0	18.3	41.46	-289.4	-924.1	607.3	588.9	18.45	32.922		
4,500.0	4,470.2	4,439.2	4,322.9	11.3	18.8	41.53	-297.2	-947.7	621.4	602.5	18.91	32.855		
4,600.0	4,569.4	4,538.2	4,418.7	11.6	19.3	41.59	-305.0	-971.2	635.5	616.2	19.38	32.791		
4,700.0	4,668.5	4,637.2	4,514.5	11.9	19.8	41.66	-312.8	-994.7	649.7	629.8	19.85	32.729		
4,800.0	4,767.6	4,736.2	4,610.4	12.2	20.2	41.72	-320.6	-1,018.2	663.8	643.5	20.32	32.670		
4,900.0	4,866.8	4,835.2	4,706.2	12.5	20.7	41.77	-328.4	-1,041.7	677.9	657.1	20.79	32.613		
5,000.0	4,965.9	4,934.2	4,802.1	12.7	21.2	41.83	-336.2	-1,065.2	692.0	670.8	21.25	32.559		
5,100.0	5,065.0	5,033.2	4,897.9	13.0	21.7	41.88	-344.0	-1,088.7	706.1	684.4	21.72	32.506		

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 4G-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 4G-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	5,164.2	5,132.2	4,993.8	13.3	22.1	41.93	-351.8	-1,112.3	720.3	698.1	22.19	32.456	
5,300.0	5,263.3	5,231.2	5,089.6	13.6	22.6	41.98	-359.6	-1,135.8	734.4	711.7	22.66	32.407	
5,400.0	5,362.5	5,330.2	5,185.5	13.9	23.1	42.03	-367.4	-1,159.3	748.5	725.4	23.13	32.360	
5,500.0	5,461.6	5,429.2	5,281.3	14.2	23.6	42.07	-375.2	-1,182.8	762.6	739.0	23.60	32.314	
5,600.0	5,560.7	5,528.1	5,377.2	14.5	24.0	42.12	-383.0	-1,206.3	776.8	752.7	24.07	32.270	
5,700.0	5,659.9	5,627.1	5,473.0	14.8	24.5	42.16	-390.8	-1,229.8	790.9	766.4	24.54	32.228	
5,800.0	5,759.0	5,726.1	5,568.8	15.0	25.0	42.20	-398.6	-1,253.3	805.0	780.0	25.01	32.187	
5,900.0	5,858.1	5,825.1	5,664.7	15.3	25.5	42.24	-406.4	-1,276.9	819.1	793.7	25.48	32.148	
6,000.0	5,957.3	5,924.1	5,760.5	15.6	25.9	42.28	-414.2	-1,300.4	833.3	807.3	25.95	32.109	
6,100.0	6,056.4	6,023.1	5,856.4	15.9	26.4	42.32	-422.0	-1,323.9	847.4	821.0	26.42	32.072	
6,200.0	6,155.5	6,122.1	5,952.2	16.2	26.9	42.35	-429.8	-1,347.4	861.5	834.6	26.89	32.036	
6,300.0	6,254.7	6,221.1	6,048.1	16.5	27.4	42.39	-437.6	-1,370.9	875.7	848.3	27.36	32.001	
6,400.0	6,353.8	6,320.1	6,143.9	16.8	27.9	42.42	-445.4	-1,394.4	889.8	862.0	27.83	31.968	
6,500.0	6,453.0	6,419.1	6,239.8	17.1	28.3	42.45	-453.2	-1,417.9	903.9	875.6	28.30	31.935	
6,600.0	6,552.1	6,518.1	6,335.6	17.3	28.8	42.48	-461.0	-1,441.5	918.0	889.3	28.78	31.903	
6,700.0	6,651.2	6,617.1	6,431.5	17.6	29.3	42.51	-468.8	-1,465.0	932.2	902.9	29.25	31.872	
6,800.0	6,750.4	6,716.1	6,527.3	17.9	29.8	42.54	-476.6	-1,488.5	946.3	916.6	29.72	31.842	
6,900.0	6,849.5	6,815.1	6,623.2	18.2	30.2	42.57	-484.4	-1,512.0	960.4	930.2	30.19	31.813	
7,000.0	6,948.8	6,913.9	6,718.8	18.4	30.7	-21.15	-492.1	-1,535.5	974.4	943.6	30.88	31.552 SF	
7,100.0	7,047.4	7,010.6	6,812.5	18.5	31.2	-63.19	-499.8	-1,558.4	988.1	957.0	31.12	31.750	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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 4C-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.49	0.4	-40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.49	0.4	-40.0	40.0	39.8	0.24	168.528		
200.0	200.0	200.0	200.0	0.3	0.3	-89.49	0.4	-40.0	40.0	39.4	0.59	68.214		
300.0	300.0	300.0	300.0	0.5	0.5	-89.49	0.4	-40.0	40.0	39.1	0.94	42.761		
400.0	400.0	400.0	400.0	0.6	0.6	-89.49	0.4	-40.0	40.0	38.7	1.28	31.141 CC, ES		
500.0	500.0	498.7	498.7	0.8	0.8	-90.34	-0.2	-41.6	41.6	40.0	1.63	25.500		
600.0	600.0	597.1	597.0	1.0	1.0	-92.54	-2.1	-46.3	46.5	44.5	1.98	23.454		
700.0	700.0	695.1	694.6	1.2	1.2	-95.32	-5.0	-54.2	54.7	52.4	2.34	23.380		
800.0	800.0	792.4	791.2	1.3	1.5	-98.04	-9.2	-65.1	66.3	63.6	2.71	24.453		
900.0	900.0	889.0	886.7	1.5	1.7	31.78	-14.5	-78.9	79.9	76.8	3.02	26.437		
1,000.0	999.8	985.2	981.1	1.7	2.1	31.15	-20.8	-95.7	93.8	90.4	3.37	27.825		
1,100.0	1,099.5	1,081.1	1,074.7	1.9	2.4	31.28	-28.3	-115.3	108.0	104.3	3.73	28.981		
1,200.0	1,198.7	1,180.2	1,171.1	2.1	2.9	32.10	-36.5	-137.0	120.8	116.7	4.10	29.436		
1,300.0	1,297.9	1,279.5	1,267.6	2.4	3.3	33.10	-44.8	-158.6	132.8	128.3	4.50	29.526		
1,400.0	1,397.0	1,378.7	1,364.1	2.6	3.7	33.93	-53.0	-180.3	144.8	139.9	4.90	29.551		
1,500.0	1,496.1	1,478.0	1,460.6	2.9	4.1	34.63	-61.3	-202.0	156.8	151.5	5.31	29.533		
1,600.0	1,595.3	1,577.2	1,557.1	3.1	4.6	35.23	-69.5	-223.6	168.9	163.1	5.73	29.486		
1,700.0	1,694.4	1,676.5	1,653.6	3.4	5.0	35.76	-77.8	-245.3	180.9	174.8	6.15	29.420		
1,800.0	1,793.5	1,775.8	1,750.1	3.7	5.5	36.21	-86.0	-267.0	193.0	186.4	6.58	29.342		
1,900.0	1,892.7	1,875.0	1,846.6	3.9	5.9	36.62	-94.3	-288.7	205.1	198.1	7.01	29.257		
2,000.0	1,991.8	1,974.3	1,943.1	4.2	6.3	36.98	-102.5	-310.3	217.2	209.8	7.45	29.169		
2,100.0	2,090.9	2,073.5	2,039.7	4.5	6.8	37.30	-110.8	-332.0	229.3	221.4	7.89	29.080		
2,200.0	2,190.1	2,172.8	2,136.2	4.8	7.2	37.58	-119.0	-353.7	241.5	233.1	8.33	28.992		
2,300.0	2,289.2	2,272.0	2,232.7	5.0	7.7	37.85	-127.3	-375.4	253.6	244.8	8.77	28.905		
2,400.0	2,388.4	2,371.3	2,329.2	5.3	8.1	38.08	-135.5	-397.0	265.7	256.5	9.22	28.821		
2,500.0	2,487.5	2,470.5	2,425.7	5.6	8.6	38.30	-143.8	-418.7	277.8	268.2	9.67	28.739		
2,600.0	2,586.6	2,569.8	2,522.2	5.9	9.0	38.50	-152.0	-440.4	290.0	279.9	10.12	28.660		
2,700.0	2,685.8	2,669.1	2,618.7	6.2	9.4	38.68	-160.3	-462.1	302.1	291.5	10.57	28.584		
2,800.0	2,784.9	2,768.3	2,715.2	6.5	9.9	38.85	-168.5	-483.7	314.2	303.2	11.02	28.511		
2,900.0	2,884.0	2,867.6	2,811.7	6.7	10.3	39.00	-176.8	-505.4	326.4	314.9	11.48	28.442		
3,000.0	2,983.2	2,966.8	2,908.2	7.0	10.8	39.15	-185.0	-527.1	338.5	326.6	11.93	28.375		
3,100.0	3,082.3	3,066.1	3,004.7	7.3	11.2	39.28	-193.3	-548.8	350.7	338.3	12.39	28.311		
3,200.0	3,181.4	3,165.3	3,101.3	7.6	11.7	39.41	-201.5	-570.4	362.8	350.0	12.84	28.250		
3,300.0	3,280.6	3,264.6	3,197.8	7.9	12.1	39.52	-209.8	-592.1	375.0	361.7	13.30	28.192		
3,400.0	3,379.7	3,363.9	3,294.3	8.2	12.6	39.63	-218.0	-613.8	387.1	373.4	13.76	28.136		
3,500.0	3,478.9	3,463.1	3,390.8	8.4	13.0	39.74	-226.3	-635.5	399.3	385.1	14.22	28.083		
3,600.0	3,578.0	3,562.4	3,487.3	8.7	13.5	39.84	-234.5	-657.1	411.4	396.8	14.68	28.032		
3,700.0	3,677.1	3,661.6	3,583.8	9.0	13.9	39.93	-242.8	-678.8	423.6	408.5	15.14	27.983		
3,800.0	3,776.3	3,760.9	3,680.3	9.3	14.4	40.01	-251.0	-700.5	435.8	420.2	15.60	27.936		
3,900.0	3,875.4	3,860.1	3,776.8	9.6	14.8	40.10	-259.3	-722.2	447.9	431.9	16.06	27.891		
4,000.0	3,974.5	3,959.4	3,873.3	9.9	15.3	40.17	-267.5	-743.8	460.1	443.6	16.52	27.848		
4,100.0	4,073.7	4,058.6	3,969.8	10.2	15.7	40.25	-275.8	-765.5	472.2	455.3	16.98	27.807		
4,200.0	4,172.8	4,157.9	4,066.3	10.4	16.2	40.32	-284.0	-787.2	484.4	467.0	17.44	27.767		
4,300.0	4,271.9	4,257.2	4,162.9	10.7	16.6	40.38	-292.2	-808.8	496.6	478.7	17.91	27.729		
4,400.0	4,371.1	4,356.4	4,259.4	11.0	17.1	40.45	-300.5	-830.5	508.7	490.3	18.37	27.693		
4,500.0	4,470.2	4,455.7	4,355.9	11.3	17.5	40.51	-308.7	-852.2	520.9	502.0	18.83	27.658		
4,600.0	4,569.4	4,554.9	4,452.4	11.6	18.0	40.56	-317.0	-873.9	533.0	513.7	19.30	27.624		
4,700.0	4,668.5	4,654.2	4,548.9	11.9	18.4	40.62	-325.2	-895.5	545.2	525.4	19.76	27.591		
4,800.0	4,767.6	4,753.4	4,645.4	12.2	18.8	40.67	-333.5	-917.2	557.4	537.1	20.22	27.560		
4,900.0	4,866.8	4,852.7	4,741.9	12.5	19.3	40.72	-341.7	-938.9	569.5	548.8	20.69	27.530		
5,000.0	4,965.9	4,952.0	4,838.4	12.7	19.7	40.77	-350.0	-960.6	581.7	560.5	21.15	27.500		
5,100.0	5,065.0	5,051.2	4,934.9	13.0	20.2	40.82	-358.2	-982.2	593.9	572.2	21.62	27.472		

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 4G-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 4G-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 4C-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,164.2	5,150.5	5,031.4	13.3	20.6	40.86	-366.5	-1,003.9	606.0	583.9	22.08	27.445		
5,300.0	5,263.3	5,249.7	5,127.9	13.6	21.1	40.90	-374.7	-1,025.6	618.2	595.6	22.55	27.419		
5,400.0	5,362.5	5,349.0	5,224.5	13.9	21.5	40.94	-383.0	-1,047.3	630.4	607.4	23.01	27.394		
5,500.0	5,461.6	5,448.2	5,321.0	14.2	22.0	40.98	-391.2	-1,068.9	642.5	619.1	23.48	27.369		
5,600.0	5,560.7	5,547.5	5,417.5	14.5	22.4	41.02	-399.5	-1,090.6	654.7	630.8	23.94	27.345		
5,700.0	5,659.9	5,646.7	5,514.0	14.8	22.9	41.06	-407.7	-1,112.3	666.9	642.5	24.41	27.322		
5,800.0	5,759.0	5,746.0	5,610.5	15.0	23.3	41.09	-416.0	-1,134.0	679.0	654.2	24.87	27.300		
5,900.0	5,858.1	5,845.3	5,707.0	15.3	23.8	41.13	-424.2	-1,155.6	691.2	665.9	25.34	27.279		
6,000.0	5,957.3	5,944.5	5,803.5	15.6	24.2	41.16	-432.5	-1,177.3	703.4	677.6	25.80	27.258		
6,100.0	6,056.4	6,043.8	5,900.0	15.9	24.7	41.19	-440.7	-1,199.0	715.5	689.3	26.27	27.238		
6,200.0	6,155.5	6,143.0	5,996.5	16.2	25.1	41.22	-449.0	-1,220.7	727.7	701.0	26.74	27.218		
6,300.0	6,254.7	6,242.3	6,093.0	16.5	25.6	41.25	-457.2	-1,242.3	739.9	712.7	27.20	27.199		
6,400.0	6,353.8	6,341.5	6,189.5	16.8	26.0	41.28	-465.5	-1,264.0	752.0	724.4	27.67	27.180		
6,500.0	6,453.0	6,440.8	6,286.1	17.1	26.5	41.31	-473.7	-1,285.7	764.2	736.1	28.13	27.163		
6,600.0	6,552.1	6,540.0	6,382.6	17.3	26.9	41.34	-482.0	-1,307.3	776.4	747.8	28.60	27.145		
6,700.0	6,651.2	6,639.3	6,479.1	17.6	27.4	41.36	-490.2	-1,329.0	788.5	759.5	29.07	27.128		
6,800.0	6,750.4	6,738.6	6,575.6	17.9	27.8	41.39	-498.5	-1,350.7	800.7	771.2	29.53	27.112		
6,900.0	6,849.5	6,837.8	6,672.1	18.2	28.3	41.41	-506.7	-1,372.4	812.9	782.9	30.00	27.096		
7,000.0	6,948.8	6,936.9	6,768.4	18.4	28.7	-22.50	-514.9	-1,394.0	825.0	794.4	30.60	26.963		
7,100.0	7,047.4	7,035.4	6,864.4	18.5	29.1	-64.68	-519.3	-1,415.6	837.2	806.5	30.73	27.247		
7,200.0	7,142.2	7,137.0	6,962.6	18.4	29.4	-74.87	-507.0	-1,437.6	849.3	818.9	30.47	27.871		
7,300.0	7,230.5	7,242.2	7,060.5	18.3	29.7	-79.02	-475.7	-1,459.6	861.0	831.1	29.92	28.779		
7,400.0	7,309.4	7,351.3	7,154.3	18.0	29.8	-81.21	-424.6	-1,480.7	871.7	842.6	29.15	29.905		
7,500.0	7,376.7	7,464.3	7,239.7	17.8	29.9	-82.54	-353.4	-1,499.8	881.2	852.9	28.31	31.125		
7,600.0	7,430.2	7,581.0	7,311.8	17.7	29.9	-83.38	-263.3	-1,516.0	888.9	861.4	27.59	32.222		
7,700.0	7,468.4	7,700.9	7,365.9	17.6	30.0	-83.91	-157.2	-1,528.2	894.6	867.4	27.17	32.927		
7,800.0	7,490.0	7,823.0	7,397.6	17.7	30.0	-84.19	-39.8	-1,535.3	897.8	870.6	27.23	32.967		
7,900.0	7,495.0	7,940.6	7,405.0	17.9	30.2	-84.25	77.4	-1,537.0	898.6	870.7	27.83	32.287		
8,000.0	7,495.0	8,040.6	7,405.0	18.3	30.4	-84.25	177.4	-1,537.0	898.6	869.8	28.82	31.181		
8,100.0	7,495.0	8,140.6	7,405.0	18.8	30.7	-84.25	277.4	-1,537.0	898.6	868.4	30.17	29.784		
8,200.0	7,495.0	8,240.6	7,405.0	19.5	31.1	-84.25	377.4	-1,537.0	898.6	866.7	31.85	28.215		
8,300.0	7,495.0	8,340.6	7,405.0	20.3	31.6	-84.25	477.4	-1,537.0	898.6	864.8	33.80	26.582		
8,400.0	7,495.0	8,440.6	7,405.0	21.2	32.2	-84.25	577.4	-1,537.0	898.6	862.6	35.99	24.965		
8,500.0	7,495.0	8,540.6	7,405.0	22.2	32.8	-84.25	677.4	-1,537.0	898.6	860.2	38.38	23.415		
8,600.0	7,495.0	8,640.6	7,405.0	23.4	33.6	-84.25	777.4	-1,537.0	898.6	857.7	40.92	21.960		
8,700.0	7,495.0	8,740.6	7,405.0	24.5	34.4	-84.25	877.4	-1,537.0	898.6	855.0	43.59	20.613		
8,800.0	7,495.0	8,840.6	7,405.0	25.8	35.3	-84.25	977.4	-1,537.0	898.6	852.2	46.37	19.377		
8,900.0	7,495.0	8,940.6	7,405.0	27.1	36.2	-84.25	1,077.4	-1,537.0	898.6	849.3	49.25	18.246		
9,000.0	7,495.0	9,040.6	7,405.0	28.5	37.3	-84.25	1,177.4	-1,537.0	898.6	846.4	52.20	17.216		
9,100.0	7,495.0	9,140.6	7,405.0	29.9	38.3	-84.25	1,277.4	-1,537.0	898.6	843.4	55.21	16.276		
9,200.0	7,495.0	9,240.6	7,405.0	31.3	39.4	-84.25	1,377.4	-1,537.0	898.6	840.3	58.27	15.420		
9,300.0	7,495.0	9,340.6	7,405.0	32.8	40.6	-84.25	1,477.4	-1,537.0	898.6	837.2	61.38	14.639		
9,400.0	7,495.0	9,440.6	7,405.0	34.3	41.8	-84.25	1,577.4	-1,537.0	898.6	834.0	64.53	13.924		
9,500.0	7,495.0	9,540.6	7,405.0	35.8	43.0	-84.25	1,677.4	-1,537.0	898.6	830.9	67.72	13.270		
9,600.0	7,495.0	9,640.6	7,405.0	37.3	44.3	-84.25	1,777.4	-1,537.0	898.6	827.6	70.93	12.669		
9,700.0	7,495.0	9,740.6	7,405.0	38.9	45.6	-84.25	1,877.4	-1,537.0	898.6	824.4	74.16	12.116		
9,800.0	7,495.0	9,840.6	7,405.0	40.4	47.0	-84.25	1,977.4	-1,537.0	898.6	821.1	77.42	11.606		
9,900.0	7,495.0	9,940.6	7,405.0	42.0	48.3	-84.25	2,077.4	-1,537.0	898.6	817.9	80.70	11.134		
10,000.0	7,495.0	10,040.6	7,405.0	43.6	49.7	-84.25	2,177.4	-1,537.0	898.6	814.6	84.00	10.697		
10,100.0	7,495.0	10,140.6	7,405.0	45.2	51.1	-84.25	2,277.4	-1,537.0	898.6	811.3	87.31	10.292		
10,200.0	7,495.0	10,240.6	7,405.0	46.9	52.6	-84.25	2,377.4	-1,537.0	898.6	807.9	90.63	9.914		
10,300.0	7,495.0	10,340.6	7,405.0	48.5	54.0	-84.25	2,477.4	-1,537.0	898.6	804.6	93.97	9.562		

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 4G-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 4G-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 4C-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		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	7,495.0	10,440.6	7,405.0	50.1	55.5	-84.25	2,577.4	-1,537.0	898.6	801.2	97.32	9.233		
10,500.0	7,495.0	10,540.6	7,405.0	51.8	57.0	-84.25	2,677.4	-1,537.0	898.6	797.9	100.67	8.925		
10,600.0	7,495.0	10,640.6	7,405.0	53.4	58.5	-84.25	2,777.4	-1,537.0	898.6	794.5	104.04	8.637		
10,700.0	7,495.0	10,740.6	7,405.0	55.1	60.0	-84.25	2,877.4	-1,537.0	898.6	791.2	107.41	8.365		
10,800.0	7,495.0	10,840.6	7,405.0	56.8	61.5	-84.25	2,977.4	-1,537.0	898.6	787.8	110.80	8.110		
10,900.0	7,495.0	10,940.6	7,405.0	58.4	63.1	-84.25	3,077.4	-1,537.0	898.6	784.4	114.18	7.869		
11,000.0	7,495.0	11,040.6	7,405.0	60.1	64.6	-84.25	3,177.4	-1,537.0	898.6	781.0	117.58	7.642		
11,100.0	7,495.0	11,140.6	7,405.0	61.8	66.2	-84.25	3,277.4	-1,537.0	898.6	777.6	120.98	7.428		
11,200.0	7,495.0	11,240.6	7,405.0	63.5	67.8	-84.25	3,377.4	-1,537.0	898.6	774.2	124.38	7.224		
11,300.0	7,495.0	11,340.6	7,405.0	65.1	69.4	-84.25	3,477.4	-1,537.0	898.6	770.8	127.79	7.032		
11,400.0	7,495.0	11,440.6	7,405.0	66.8	70.9	-84.25	3,577.4	-1,537.0	898.6	767.4	131.20	6.849		
11,500.0	7,495.0	11,540.6	7,405.0	68.5	72.5	-84.25	3,677.4	-1,537.0	898.6	763.9	134.62	6.675		
11,600.0	7,495.0	11,640.6	7,405.0	70.2	74.1	-84.25	3,777.4	-1,537.0	898.6	760.5	138.04	6.509		
11,700.0	7,495.0	11,740.6	7,405.0	71.9	75.8	-84.25	3,877.4	-1,537.0	898.6	757.1	141.46	6.352		
11,800.0	7,495.0	11,840.6	7,405.0	73.6	77.4	-84.25	3,977.4	-1,537.0	898.6	753.7	144.89	6.202		
11,900.0	7,495.0	11,940.6	7,405.0	75.3	79.0	-84.25	4,077.4	-1,537.0	898.6	750.2	148.32	6.058		
12,000.0	7,495.0	12,040.6	7,405.0	77.0	80.6	-84.25	4,177.4	-1,537.0	898.6	746.8	151.76	5.921		
12,100.0	7,495.0	12,140.6	7,405.0	78.8	82.3	-84.25	4,277.4	-1,537.0	898.6	743.4	155.19	5.790		
12,200.0	7,495.0	12,240.6	7,405.0	80.5	83.9	-84.25	4,377.4	-1,537.0	898.6	739.9	158.63	5.665		
12,300.0	7,495.0	12,340.6	7,405.0	82.2	85.5	-84.25	4,477.4	-1,537.0	898.6	736.5	162.07	5.544		
12,400.0	7,495.0	12,440.6	7,405.0	83.9	87.2	-84.25	4,577.4	-1,537.0	898.6	733.0	165.51	5.429		
12,500.0	7,495.0	12,540.6	7,405.0	85.6	88.8	-84.25	4,677.4	-1,537.0	898.6	729.6	168.96	5.318		
12,600.0	7,495.0	12,640.6	7,405.0	87.3	90.5	-84.25	4,777.4	-1,537.0	898.6	726.2	172.40	5.212		
12,700.0	7,495.0	12,740.6	7,405.0	89.0	92.2	-84.25	4,877.4	-1,537.0	898.6	722.7	175.85	5.110		
12,800.0	7,495.0	12,840.6	7,405.0	90.8	93.8	-84.25	4,977.4	-1,537.0	898.6	719.3	179.30	5.011		
12,900.0	7,495.0	12,940.6	7,405.0	92.5	95.5	-84.25	5,077.4	-1,537.0	898.6	715.8	182.75	4.917		
13,000.0	7,495.0	13,040.6	7,405.0	94.2	97.2	-84.25	5,177.4	-1,537.0	898.6	712.4	186.20	4.826		
13,100.0	7,495.0	13,140.6	7,405.0	95.9	98.8	-84.25	5,277.4	-1,537.0	898.6	708.9	189.66	4.738		
13,200.0	7,495.0	13,240.6	7,405.0	97.7	100.5	-84.25	5,377.4	-1,537.0	898.6	705.4	193.11	4.653		
13,300.0	7,495.0	13,340.6	7,405.0	99.4	102.2	-84.25	5,477.4	-1,537.0	898.6	702.0	196.57	4.571		
13,400.0	7,495.0	13,440.6	7,405.0	101.1	103.9	-84.25	5,577.4	-1,537.0	898.6	698.5	200.03	4.492		
13,500.0	7,495.0	13,540.6	7,405.0	102.8	105.5	-84.25	5,677.4	-1,537.0	898.6	695.1	203.49	4.416		
13,600.0	7,495.0	13,640.6	7,405.0	104.6	107.2	-84.25	5,777.4	-1,537.0	898.6	691.6	206.95	4.342		
13,700.0	7,495.0	13,740.6	7,405.0	106.3	108.9	-84.25	5,877.4	-1,537.0	898.6	688.2	210.41	4.271		
13,800.0	7,495.0	13,840.6	7,405.0	108.0	110.6	-84.25	5,977.4	-1,537.0	898.6	684.7	213.87	4.201		
13,900.0	7,495.0	13,940.6	7,405.0	109.8	112.3	-84.25	6,077.4	-1,537.0	898.6	681.2	217.33	4.134		
14,000.0	7,495.0	14,040.6	7,405.0	111.5	114.0	-84.25	6,177.4	-1,537.0	898.6	677.8	220.80	4.070		
14,100.0	7,495.0	14,140.6	7,405.0	113.2	115.7	-84.25	6,277.4	-1,537.0	898.6	674.3	224.26	4.007		
14,200.0	7,495.0	14,240.6	7,405.0	115.0	117.4	-84.25	6,377.4	-1,537.0	898.6	670.8	227.73	3.946		
14,300.0	7,495.0	14,340.6	7,405.0	116.7	119.1	-84.25	6,477.4	-1,537.0	898.6	667.4	231.19	3.887 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.34	0.3	-30.2	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.34	0.3	-30.2	30.2	30.0	0.24	127.283		
200.0	200.0	200.0	200.0	0.3	0.3	-89.34	0.3	-30.2	30.2	29.6	0.59	51.519		
300.0	300.0	300.0	300.0	0.5	0.5	-89.34	0.3	-30.2	30.2	29.3	0.94	32.296		
400.0	400.0	400.0	400.0	0.6	0.6	-89.34	0.3	-30.2	30.2	28.9	1.28	23.520		
500.0	500.0	500.0	500.0	0.8	0.8	-89.34	0.3	-30.2	30.2	28.6	1.63	18.494	CC, ES	
600.0	600.0	599.0	599.0	1.0	1.0	-90.62	-0.3	-31.8	31.8	29.8	1.98	16.046		
700.0	700.0	697.8	697.6	1.2	1.2	-93.79	-2.4	-36.5	36.6	34.3	2.33	15.704		
800.0	800.0	796.1	795.6	1.3	1.4	-97.53	-5.8	-44.2	44.8	42.1	2.69	16.666		
900.0	900.0	893.9	892.7	1.5	1.6	31.55	-10.6	-54.9	54.9	51.9	3.03	18.155		
1,000.0	999.8	991.4	988.9	1.7	1.9	30.64	-16.7	-68.6	65.5	62.1	3.38	19.388		
1,100.0	1,099.5	1,088.4	1,084.3	1.9	2.2	30.70	-24.0	-85.3	76.3	72.6	3.73	20.435		
1,200.0	1,198.7	1,187.8	1,181.6	2.1	2.6	31.63	-32.3	-104.0	86.1	82.0	4.11	20.936		
1,300.0	1,297.9	1,287.4	1,279.0	2.4	2.9	32.78	-40.6	-122.7	95.0	90.5	4.50	21.087		
1,400.0	1,397.0	1,387.0	1,376.5	2.6	3.3	33.72	-48.9	-141.4	103.9	99.0	4.91	21.177		
1,500.0	1,496.1	1,486.6	1,473.9	2.9	3.7	34.52	-57.2	-160.1	112.9	107.6	5.32	21.225		
1,600.0	1,595.3	1,586.1	1,571.4	3.1	4.1	35.20	-65.5	-178.8	121.9	116.1	5.74	21.242		
1,700.0	1,694.4	1,685.7	1,668.8	3.4	4.5	35.78	-73.8	-197.6	130.9	124.7	6.16	21.239		
1,800.0	1,793.5	1,785.3	1,766.3	3.7	4.9	36.29	-82.1	-216.3	139.9	133.3	6.59	21.220		
1,900.0	1,892.7	1,884.9	1,863.8	3.9	5.3	36.74	-90.4	-235.0	148.9	141.9	7.03	21.192		
2,000.0	1,991.8	1,984.5	1,961.2	4.2	5.7	37.14	-98.6	-253.7	158.0	150.5	7.47	21.158		
2,100.0	2,090.9	2,084.1	2,058.7	4.5	6.0	37.49	-106.9	-272.5	167.0	159.1	7.91	21.119		
2,200.0	2,190.1	2,183.7	2,156.1	4.8	6.4	37.81	-115.2	-291.2	176.0	167.7	8.35	21.078		
2,300.0	2,289.2	2,283.2	2,253.6	5.0	6.8	38.09	-123.5	-309.9	185.1	176.3	8.80	21.036		
2,400.0	2,388.4	2,382.8	2,351.0	5.3	7.2	38.35	-131.8	-328.6	194.1	184.9	9.25	20.993		
2,500.0	2,487.5	2,482.4	2,448.5	5.6	7.6	38.59	-140.1	-347.4	203.2	193.5	9.70	20.950		
2,600.0	2,586.6	2,582.0	2,546.0	5.9	8.0	38.81	-148.4	-366.1	212.3	202.1	10.15	20.908		
2,700.0	2,685.8	2,681.6	2,643.4	6.2	8.4	39.01	-156.7	-384.8	221.3	210.7	10.61	20.867		
2,800.0	2,784.9	2,781.2	2,740.9	6.5	8.8	39.19	-165.0	-403.5	230.4	219.3	11.06	20.827		
2,900.0	2,884.0	2,880.8	2,838.3	6.7	9.2	39.36	-173.3	-422.2	239.5	227.9	11.52	20.788		
3,000.0	2,983.2	2,980.3	2,935.8	7.0	9.6	39.52	-181.6	-441.0	248.5	236.5	11.98	20.751		
3,100.0	3,082.3	3,079.9	3,033.2	7.3	10.0	39.66	-189.9	-459.7	257.6	245.2	12.44	20.715		
3,200.0	3,181.4	3,179.5	3,130.7	7.6	10.4	39.80	-198.1	-478.4	266.7	253.8	12.90	20.680		
3,300.0	3,280.6	3,279.1	3,228.2	7.9	10.8	39.92	-206.4	-497.1	275.7	262.4	13.36	20.646		
3,400.0	3,379.7	3,378.7	3,325.6	8.2	11.2	40.04	-214.7	-515.9	284.8	271.0	13.82	20.614		
3,500.0	3,478.9	3,478.3	3,423.1	8.4	11.6	40.16	-223.0	-534.6	293.9	279.6	14.28	20.582		
3,600.0	3,578.0	3,577.9	3,520.5	8.7	12.0	40.26	-231.3	-553.3	303.0	288.2	14.74	20.552		
3,700.0	3,677.1	3,677.4	3,618.0	9.0	12.4	40.36	-239.6	-572.0	312.0	296.8	15.20	20.524		
3,800.0	3,776.3	3,777.0	3,715.5	9.3	12.8	40.45	-247.9	-590.8	321.1	305.5	15.67	20.496		
3,900.0	3,875.4	3,876.6	3,812.9	9.6	13.2	40.54	-256.2	-609.5	330.2	314.1	16.13	20.469		
4,000.0	3,974.5	3,976.2	3,910.4	9.9	13.6	40.62	-264.5	-628.2	339.3	322.7	16.60	20.443		
4,100.0	4,073.7	4,075.8	4,007.8	10.2	14.0	40.70	-272.8	-646.9	348.4	331.3	17.06	20.419		
4,200.0	4,172.8	4,175.4	4,105.3	10.4	14.5	40.78	-281.1	-665.7	357.5	339.9	17.53	20.395		
4,300.0	4,271.9	4,275.0	4,202.7	10.7	14.9	40.85	-289.4	-684.4	366.5	348.5	17.99	20.372		
4,400.0	4,371.1	4,374.5	4,300.2	11.0	15.3	40.92	-297.6	-703.1	375.6	357.2	18.46	20.350		
4,500.0	4,470.2	4,474.1	4,397.7	11.3	15.7	40.98	-305.9	-721.8	384.7	365.8	18.92	20.329		
4,600.0	4,569.4	4,573.7	4,495.1	11.6	16.1	41.04	-314.2	-740.5	393.8	374.4	19.39	20.308		
4,700.0	4,668.5	4,673.3	4,592.6	11.9	16.5	41.10	-322.5	-759.3	402.9	383.0	19.86	20.289		
4,800.0	4,767.6	4,772.9	4,690.0	12.2	16.9	41.16	-330.8	-778.0	412.0	391.6	20.32	20.269		
4,900.0	4,866.8	4,872.5	4,787.5	12.5	17.3	41.21	-339.1	-796.7	421.0	400.3	20.79	20.251		
5,000.0	4,965.9	4,972.1	4,884.9	12.7	17.7	41.26	-347.4	-815.4	430.1	408.9	21.26	20.233		
5,100.0	5,065.0	5,071.6	4,982.4	13.0	18.1	41.31	-355.7	-834.2	439.2	417.5	21.73	20.216		

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 4G-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 4G-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,164.2	5,171.2	5,079.9	13.3	18.5	41.36	-364.0	-852.9	448.3	426.1	22.19	20.199	
5,300.0	5,263.3	5,270.8	5,177.3	13.6	18.9	41.41	-372.3	-871.6	457.4	434.7	22.66	20.183	
5,400.0	5,362.5	5,370.4	5,274.8	13.9	19.3	41.45	-380.6	-890.3	466.5	443.3	23.13	20.168	
5,500.0	5,461.6	5,470.0	5,372.2	14.2	19.7	41.49	-388.9	-909.1	475.6	452.0	23.60	20.153	
5,600.0	5,560.7	5,569.6	5,469.7	14.5	20.1	41.53	-397.2	-927.8	484.6	460.6	24.07	20.138	
5,700.0	5,659.9	5,669.2	5,567.1	14.8	20.5	41.57	-405.4	-946.5	493.7	469.2	24.53	20.124	
5,800.0	5,759.0	5,768.7	5,664.6	15.0	20.9	41.61	-413.7	-965.2	502.8	477.8	25.00	20.110	
5,900.0	5,858.1	5,868.3	5,762.1	15.3	21.3	41.65	-422.0	-984.0	511.9	486.4	25.47	20.097	
6,000.0	5,957.3	5,967.9	5,859.5	15.6	21.7	41.68	-430.3	-1,002.7	521.0	495.1	25.94	20.084	
6,100.0	6,056.4	6,067.5	5,957.0	15.9	22.1	41.71	-438.6	-1,021.4	530.1	503.7	26.41	20.072	
6,200.0	6,155.5	6,167.1	6,054.4	16.2	22.5	41.75	-446.9	-1,040.1	539.2	512.3	26.88	20.060	
6,300.0	6,254.7	6,266.7	6,151.9	16.5	22.9	41.78	-455.2	-1,058.8	548.3	520.9	27.35	20.048	
6,400.0	6,353.8	6,366.3	6,249.3	16.8	23.3	41.81	-463.5	-1,077.6	557.4	529.5	27.82	20.036	
6,500.0	6,453.0	6,465.8	6,346.8	17.1	23.7	41.84	-471.8	-1,096.3	566.4	538.2	28.29	20.025	
6,600.0	6,552.1	6,565.4	6,444.3	17.3	24.1	41.87	-480.1	-1,115.0	575.5	546.8	28.76	20.014	
6,700.0	6,651.2	6,665.0	6,541.7	17.6	24.5	41.89	-488.4	-1,133.7	584.6	555.4	29.23	20.004	
6,800.0	6,750.4	6,764.6	6,639.2	17.9	24.9	41.92	-496.7	-1,152.5	593.7	564.0	29.70	19.994	
6,900.0	6,849.5	6,864.2	6,736.6	18.2	25.3	41.95	-504.9	-1,171.2	602.8	572.6	30.16	19.984	
7,000.0	6,948.8	6,963.6	6,833.9	18.4	25.7	-22.32	-513.2	-1,189.9	611.8	581.2	30.63	19.977	
7,100.0	7,047.4	7,061.9	6,930.2	18.5	26.1	-65.39	-519.6	-1,208.4	621.0	590.5	30.50	20.361	
7,200.0	7,142.2	7,163.4	7,029.4	18.4	26.4	-76.60	-511.0	-1,227.4	630.5	600.5	30.01	21.011	
7,300.0	7,230.5	7,269.3	7,129.6	18.3	26.5	-81.71	-483.2	-1,246.7	640.1	610.8	29.32	21.833	
7,400.0	7,309.4	7,379.8	7,227.0	18.0	26.6	-84.78	-434.8	-1,265.4	649.4	620.8	28.54	22.753	
7,500.0	7,376.7	7,495.3	7,316.9	17.8	26.6	-86.87	-364.8	-1,282.7	657.8	630.0	27.80	23.660	
7,600.0	7,430.2	7,615.4	7,394.0	17.7	26.6	-88.34	-274.2	-1,297.5	664.9	637.6	27.25	24.403	
7,700.0	7,468.4	7,739.5	7,452.3	17.6	26.6	-89.33	-165.5	-1,308.7	670.1	643.1	27.00	24.820	
7,800.0	7,490.0	7,866.5	7,486.9	17.7	26.7	-89.87	-43.7	-1,315.3	673.2	646.1	27.17	24.776	
7,900.0	7,495.0	7,988.1	7,495.0	17.9	26.8	-90.00	77.4	-1,316.9	674.0	646.2	27.77	24.274	
8,000.0	7,495.0	8,088.1	7,495.0	18.3	27.1	-90.00	177.4	-1,316.9	674.0	645.2	28.76	23.434	
8,100.0	7,495.0	8,188.1	7,495.0	18.8	27.4	-90.00	277.4	-1,316.9	674.0	643.8	30.12	22.373	
8,200.0	7,495.0	8,288.1	7,495.0	19.5	27.9	-90.00	377.4	-1,316.9	674.0	642.1	31.82	21.181	
8,300.0	7,495.0	8,388.1	7,495.0	20.3	28.5	-90.00	477.4	-1,316.9	674.0	640.2	33.79	19.943	
8,400.0	7,495.0	8,488.1	7,495.0	21.2	29.1	-90.00	577.4	-1,316.9	674.0	638.0	36.00	18.719	
8,500.0	7,495.0	8,588.1	7,495.0	22.2	29.8	-90.00	677.4	-1,316.9	674.0	635.6	38.41	17.548	
8,600.0	7,495.0	8,688.1	7,495.0	23.4	30.7	-90.00	777.4	-1,316.9	674.0	633.0	40.97	16.450	
8,700.0	7,495.0	8,788.1	7,495.0	24.5	31.6	-90.00	877.4	-1,316.9	674.0	630.3	43.66	15.435	
8,800.0	7,495.0	8,888.1	7,495.0	25.8	32.5	-90.00	977.4	-1,316.9	674.0	627.5	46.47	14.504	
8,900.0	7,495.0	8,988.1	7,495.0	27.1	33.6	-90.00	1,077.4	-1,316.9	674.0	624.6	49.36	13.654	
9,000.0	7,495.0	9,088.1	7,495.0	28.5	34.7	-90.00	1,177.4	-1,316.9	674.0	621.6	52.33	12.879	
9,100.0	7,495.0	9,188.1	7,495.0	29.9	35.8	-90.00	1,277.4	-1,316.9	674.0	618.6	55.36	12.174	
9,200.0	7,495.0	9,288.1	7,495.0	31.3	37.0	-90.00	1,377.4	-1,316.9	674.0	615.5	58.45	11.531	
9,300.0	7,495.0	9,388.1	7,495.0	32.8	38.3	-90.00	1,477.4	-1,316.9	674.0	612.4	61.58	10.945	
9,400.0	7,495.0	9,488.1	7,495.0	34.3	39.6	-90.00	1,577.4	-1,316.9	674.0	609.2	64.75	10.409	
9,500.0	7,495.0	9,588.1	7,495.0	35.8	40.9	-90.00	1,677.4	-1,316.9	674.0	606.0	67.95	9.919	
9,600.0	7,495.0	9,688.1	7,495.0	37.3	42.2	-90.00	1,777.4	-1,316.9	674.0	602.8	71.18	9.468	
9,700.0	7,495.0	9,788.1	7,495.0	38.9	43.6	-90.00	1,877.4	-1,316.9	674.0	599.5	74.44	9.054	
9,800.0	7,495.0	9,888.1	7,495.0	40.4	45.0	-90.00	1,977.4	-1,316.9	674.0	596.2	77.72	8.672	
9,900.0	7,495.0	9,988.1	7,495.0	42.0	46.4	-90.00	2,077.4	-1,316.9	674.0	592.9	81.01	8.319	
10,000.0	7,495.0	10,088.1	7,495.0	43.6	47.9	-90.00	2,177.4	-1,316.9	674.0	589.6	84.33	7.992	
10,100.0	7,495.0	10,188.1	7,495.0	45.2	49.3	-90.00	2,277.4	-1,316.9	674.0	586.3	87.66	7.689	
10,200.0	7,495.0	10,288.1	7,495.0	46.9	50.8	-90.00	2,377.4	-1,316.9	674.0	583.0	91.00	7.406	
10,300.0	7,495.0	10,388.1	7,495.0	48.5	52.3	-90.00	2,477.4	-1,316.9	674.0	579.6	94.36	7.143	

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 4G-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 4G-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		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	7,495.0	10,488.1	7,495.0	50.1	53.9	-90.00	2,577.4	-1,316.9	674.0	576.2	97.72	6.897		
10,500.0	7,495.0	10,588.1	7,495.0	51.8	55.4	-90.00	2,677.4	-1,316.9	674.0	572.9	101.10	6.666		
10,600.0	7,495.0	10,688.1	7,495.0	53.4	56.9	-90.00	2,777.4	-1,316.9	674.0	569.5	104.48	6.450		
10,700.0	7,495.0	10,788.1	7,495.0	55.1	58.5	-90.00	2,877.4	-1,316.9	674.0	566.1	107.87	6.248		
10,800.0	7,495.0	10,888.1	7,495.0	56.8	60.1	-90.00	2,977.4	-1,316.9	674.0	562.7	111.27	6.057		
10,900.0	7,495.0	10,988.1	7,495.0	58.4	61.7	-90.00	3,077.4	-1,316.9	674.0	559.3	114.68	5.877		
11,000.0	7,495.0	11,088.1	7,495.0	60.1	63.2	-90.00	3,177.4	-1,316.9	674.0	555.9	118.09	5.707		
11,100.0	7,495.0	11,188.1	7,495.0	61.8	64.8	-90.00	3,277.4	-1,316.9	674.0	552.5	121.51	5.547		
11,200.0	7,495.0	11,288.1	7,495.0	63.5	66.4	-90.00	3,377.4	-1,316.9	674.0	549.0	124.93	5.395		
11,300.0	7,495.0	11,388.1	7,495.0	65.1	68.1	-90.00	3,477.4	-1,316.9	674.0	545.6	128.36	5.251		
11,400.0	7,495.0	11,488.1	7,495.0	66.8	69.7	-90.00	3,577.4	-1,316.9	674.0	542.2	131.79	5.114		
11,500.0	7,495.0	11,588.1	7,495.0	68.5	71.3	-90.00	3,677.4	-1,316.9	674.0	538.7	135.22	4.984		
11,600.0	7,495.0	11,688.1	7,495.0	70.2	72.9	-90.00	3,777.4	-1,316.9	674.0	535.3	138.66	4.860		
11,700.0	7,495.0	11,788.1	7,495.0	71.9	74.6	-90.00	3,877.4	-1,316.9	674.0	531.9	142.11	4.743		
11,800.0	7,495.0	11,888.1	7,495.0	73.6	76.2	-90.00	3,977.4	-1,316.9	674.0	528.4	145.55	4.630		
11,900.0	7,495.0	11,988.1	7,495.0	75.3	77.9	-90.00	4,077.4	-1,316.9	674.0	525.0	149.00	4.523		
12,000.0	7,495.0	12,088.1	7,495.0	77.0	79.5	-90.00	4,177.4	-1,316.9	674.0	521.5	152.45	4.421		
12,100.0	7,495.0	12,188.1	7,495.0	78.8	81.2	-90.00	4,277.4	-1,316.9	674.0	518.1	155.90	4.323		
12,200.0	7,495.0	12,288.1	7,495.0	80.5	82.8	-90.00	4,377.4	-1,316.9	674.0	514.6	159.36	4.229		
12,300.0	7,495.0	12,388.1	7,495.0	82.2	84.5	-90.00	4,477.4	-1,316.9	674.0	511.1	162.82	4.139		
12,400.0	7,495.0	12,488.1	7,495.0	83.9	86.2	-90.00	4,577.4	-1,316.9	674.0	507.7	166.28	4.053		
12,500.0	7,495.0	12,588.1	7,495.0	85.6	87.8	-90.00	4,677.4	-1,316.9	674.0	504.2	169.74	3.971		
12,600.0	7,495.0	12,688.1	7,495.0	87.3	89.5	-90.00	4,777.4	-1,316.9	674.0	500.8	173.20	3.891		
12,700.0	7,495.0	12,788.1	7,495.0	89.0	91.2	-90.00	4,877.4	-1,316.9	674.0	497.3	176.67	3.815		
12,800.0	7,495.0	12,888.1	7,495.0	90.8	92.9	-90.00	4,977.4	-1,316.9	674.0	493.8	180.14	3.741		
12,900.0	7,495.0	12,988.1	7,495.0	92.5	94.6	-90.00	5,077.4	-1,316.9	674.0	490.4	183.61	3.671		
13,000.0	7,495.0	13,088.1	7,495.0	94.2	96.2	-90.00	5,177.4	-1,316.9	674.0	486.9	187.08	3.603		
13,100.0	7,495.0	13,188.1	7,495.0	95.9	97.9	-90.00	5,277.4	-1,316.9	674.0	483.4	190.55	3.537		
13,200.0	7,495.0	13,288.1	7,495.0	97.7	99.6	-90.00	5,377.4	-1,316.9	674.0	479.9	194.02	3.474		
13,300.0	7,495.0	13,388.1	7,495.0	99.4	101.3	-90.00	5,477.4	-1,316.9	674.0	476.5	197.50	3.412		
13,400.0	7,495.0	13,488.1	7,495.0	101.1	103.0	-90.00	5,577.4	-1,316.9	674.0	473.0	200.97	3.353		
13,500.0	7,495.0	13,588.1	7,495.0	102.8	104.7	-90.00	5,677.4	-1,316.9	674.0	469.5	204.45	3.296		
13,600.0	7,495.0	13,688.1	7,495.0	104.6	106.4	-90.00	5,777.4	-1,316.9	674.0	466.0	207.93	3.241		
13,700.0	7,495.0	13,788.1	7,495.0	106.3	108.1	-90.00	5,877.4	-1,316.9	674.0	462.6	211.41	3.188		
13,800.0	7,495.0	13,888.1	7,495.0	108.0	109.8	-90.00	5,977.4	-1,316.9	674.0	459.1	214.89	3.136		
13,900.0	7,495.0	13,988.1	7,495.0	109.8	111.5	-90.00	6,077.4	-1,316.9	674.0	455.6	218.37	3.086		
14,000.0	7,495.0	14,088.1	7,495.0	111.5	113.2	-90.00	6,177.4	-1,316.9	674.0	452.1	221.85	3.038		
14,100.0	7,495.0	14,188.1	7,495.0	113.2	114.9	-90.00	6,277.4	-1,316.9	674.0	448.6	225.33	2.991		
14,200.0	7,495.0	14,288.1	7,495.0	115.0	116.6	-90.00	6,377.4	-1,316.9	674.0	445.1	228.81	2.945		
14,300.0	7,495.0	14,388.1	7,495.0	116.7	118.3	-90.00	6,477.4	-1,316.9	674.0	441.7	232.30	2.901 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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	-89.04	0.3	-20.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.04	0.3	-20.1	20.1	19.9	0.24	84.862		
200.0	200.0	200.0	200.0	0.3	0.3	-89.04	0.3	-20.1	20.1	19.6	0.59	34.349		
300.0	300.0	300.0	300.0	0.5	0.5	-89.04	0.3	-20.1	20.1	19.2	0.94	21.532		
400.0	400.0	400.0	400.0	0.6	0.6	-89.04	0.3	-20.1	20.1	18.9	1.28	15.681		
500.0	500.0	500.0	500.0	0.8	0.8	-89.04	0.3	-20.1	20.1	18.5	1.63	12.330		
600.0	600.0	600.0	600.0	1.0	1.0	-89.04	0.3	-20.1	20.1	18.2	1.98	10.160	CC, ES	
700.0	700.0	699.3	699.3	1.2	1.2	-91.25	-0.5	-21.7	21.7	19.3	2.33	9.300		
800.0	800.0	798.5	798.3	1.3	1.3	-96.30	-2.9	-26.2	26.4	23.7	2.68	9.855		
900.0	900.0	897.3	896.7	1.5	1.6	31.53	-6.9	-33.7	33.1	30.1	3.03	10.928		
1,000.0	999.8	995.8	994.5	1.7	1.8	30.07	-12.5	-44.2	40.2	36.8	3.38	11.878		
1,100.0	1,099.5	1,094.1	1,091.6	1.9	2.1	29.95	-19.6	-57.7	47.5	43.7	3.74	12.700		
1,200.0	1,198.7	1,193.7	1,189.7	2.1	2.4	31.03	-27.9	-73.1	53.9	49.8	4.11	13.113		
1,300.0	1,297.9	1,293.5	1,287.9	2.4	2.7	32.44	-36.1	-88.6	59.6	55.1	4.51	13.217		
1,400.0	1,397.0	1,393.3	1,386.2	2.6	3.0	33.60	-44.4	-104.1	65.2	60.3	4.91	13.282		
1,500.0	1,496.1	1,493.2	1,484.5	2.9	3.3	34.57	-52.7	-119.6	70.9	65.6	5.32	13.319		
1,600.0	1,595.3	1,593.0	1,582.7	3.1	3.7	35.40	-60.9	-135.2	76.6	70.9	5.75	13.335		
1,700.0	1,694.4	1,692.8	1,681.0	3.4	4.0	36.12	-69.2	-150.7	82.3	76.2	6.17	13.336		
1,800.0	1,793.5	1,792.6	1,779.3	3.7	4.3	36.74	-77.5	-166.2	88.1	81.5	6.61	13.327		
1,900.0	1,892.7	1,892.5	1,877.6	3.9	4.7	37.28	-85.7	-181.7	93.8	86.8	7.05	13.311		
2,000.0	1,991.8	1,992.3	1,975.8	4.2	5.0	37.77	-94.0	-197.2	99.5	92.1	7.49	13.290		
2,100.0	2,090.9	2,092.1	2,074.1	4.5	5.4	38.20	-102.3	-212.7	105.3	97.4	7.94	13.267		
2,200.0	2,190.1	2,192.0	2,172.4	4.8	5.7	38.58	-110.5	-228.2	111.0	102.7	8.39	13.241		
2,300.0	2,289.2	2,291.8	2,270.7	5.0	6.1	38.93	-118.8	-243.7	116.8	108.0	8.84	13.215		
2,400.0	2,388.4	2,391.6	2,368.9	5.3	6.4	39.25	-127.1	-259.3	122.6	113.3	9.29	13.188		
2,500.0	2,487.5	2,491.5	2,467.2	5.6	6.8	39.53	-135.3	-274.8	128.3	118.6	9.75	13.161		
2,600.0	2,586.6	2,591.3	2,565.5	5.9	7.1	39.80	-143.6	-290.3	134.1	123.9	10.21	13.135		
2,700.0	2,685.8	2,691.1	2,663.7	6.2	7.5	40.04	-151.9	-305.8	139.9	129.2	10.67	13.108		
2,800.0	2,784.9	2,791.0	2,762.0	6.5	7.8	40.26	-160.1	-321.3	145.6	134.5	11.13	13.083		
2,900.0	2,884.0	2,890.8	2,860.3	6.7	8.2	40.46	-168.4	-336.8	151.4	139.8	11.60	13.058		
3,000.0	2,983.2	2,990.6	2,958.6	7.0	8.5	40.65	-176.7	-352.3	157.2	145.1	12.06	13.034		
3,100.0	3,082.3	3,090.5	3,056.8	7.3	8.9	40.83	-184.9	-367.9	163.0	150.5	12.53	13.011		
3,200.0	3,181.4	3,190.3	3,155.1	7.6	9.2	40.99	-193.2	-383.4	168.8	155.8	12.99	12.989		
3,300.0	3,280.6	3,290.1	3,253.4	7.9	9.6	41.14	-201.4	-398.9	174.5	161.1	13.46	12.967		
3,400.0	3,379.7	3,390.0	3,351.6	8.2	10.0	41.29	-209.7	-414.4	180.3	166.4	13.93	12.946		
3,500.0	3,478.9	3,489.8	3,449.9	8.4	10.3	41.42	-218.0	-429.9	186.1	171.7	14.40	12.926		
3,600.0	3,578.0	3,589.6	3,548.2	8.7	10.7	41.55	-226.2	-445.4	191.9	177.0	14.87	12.907		
3,700.0	3,677.1	3,689.4	3,646.5	9.0	11.0	41.67	-234.5	-460.9	197.7	182.3	15.34	12.889		
3,800.0	3,776.3	3,789.3	3,744.7	9.3	11.4	41.78	-242.8	-476.5	203.5	187.7	15.81	12.871		
3,900.0	3,875.4	3,889.1	3,843.0	9.6	11.7	41.89	-251.0	-492.0	209.3	193.0	16.28	12.854		
4,000.0	3,974.5	3,988.9	3,941.3	9.9	12.1	41.99	-259.3	-507.5	215.0	198.3	16.75	12.837		
4,100.0	4,073.7	4,088.8	4,039.5	10.2	12.4	42.08	-267.6	-523.0	220.8	203.6	17.22	12.822		
4,200.0	4,172.8	4,188.6	4,137.8	10.4	12.8	42.17	-275.8	-538.5	226.6	208.9	17.70	12.806		
4,300.0	4,271.9	4,288.4	4,236.1	10.7	13.1	42.26	-284.1	-554.0	232.4	214.2	18.17	12.792		
4,400.0	4,371.1	4,388.3	4,334.4	11.0	13.5	42.34	-292.4	-569.5	238.2	219.6	18.64	12.778		
4,500.0	4,470.2	4,488.1	4,432.6	11.3	13.8	42.42	-300.6	-585.0	244.0	224.9	19.12	12.764		
4,600.0	4,569.4	4,587.9	4,530.9	11.6	14.2	42.49	-308.9	-600.6	249.8	230.2	19.59	12.751		
4,700.0	4,668.5	4,687.8	4,629.2	11.9	14.6	42.56	-317.2	-616.1	255.6	235.5	20.06	12.738		
4,800.0	4,767.6	4,787.6	4,727.4	12.2	14.9	42.63	-325.4	-631.6	261.4	240.8	20.54	12.726		
4,900.0	4,866.8	4,887.4	4,825.7	12.5	15.3	42.69	-333.7	-647.1	267.2	246.2	21.01	12.714		
5,000.0	4,965.9	4,987.3	4,924.0	12.7	15.6	42.75	-342.0	-662.6	273.0	251.5	21.49	12.703		
5,100.0	5,065.0	5,087.1	5,022.3	13.0	16.0	42.81	-350.2	-678.1	278.8	256.8	21.96	12.692		

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 4G-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 4G-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,164.2	5,186.9	5,120.5	13.3	16.3	42.87	-358.5	-693.6	284.5	262.1	22.44	12.681	
5,300.0	5,263.3	5,286.8	5,218.8	13.6	16.7	42.93	-366.8	-709.2	290.3	267.4	22.91	12.671	
5,400.0	5,362.5	5,386.6	5,317.1	13.9	17.0	42.98	-375.0	-724.7	296.1	272.7	23.39	12.661	
5,500.0	5,461.6	5,486.4	5,415.4	14.2	17.4	43.03	-383.3	-740.2	301.9	278.1	23.87	12.651	
5,600.0	5,560.7	5,586.2	5,513.6	14.5	17.8	43.08	-391.5	-755.7	307.7	283.4	24.34	12.642	
5,700.0	5,659.9	5,686.1	5,611.9	14.8	18.1	43.12	-399.8	-771.2	313.5	288.7	24.82	12.633	
5,800.0	5,759.0	5,785.9	5,710.2	15.0	18.5	43.17	-408.1	-786.7	319.3	294.0	25.29	12.624	
5,900.0	5,858.1	5,885.7	5,808.4	15.3	18.8	43.21	-416.3	-802.2	325.1	299.3	25.77	12.616	
6,000.0	5,957.3	5,985.6	5,906.7	15.6	19.2	43.25	-424.6	-817.8	330.9	304.7	26.25	12.607	
6,100.0	6,056.4	6,085.4	6,005.0	15.9	19.5	43.29	-432.9	-833.3	336.7	310.0	26.72	12.599	
6,200.0	6,155.5	6,185.2	6,103.3	16.2	19.9	43.33	-441.1	-848.8	342.5	315.3	27.20	12.592	
6,300.0	6,254.7	6,285.1	6,201.5	16.5	20.2	43.37	-449.4	-864.3	348.3	320.6	27.68	12.584	
6,400.0	6,353.8	6,384.9	6,299.8	16.8	20.6	43.41	-457.7	-879.8	354.1	325.9	28.15	12.577	
6,500.0	6,453.0	6,484.7	6,398.1	17.1	21.0	43.44	-465.9	-895.3	359.9	331.2	28.63	12.570	
6,600.0	6,552.1	6,584.6	6,496.3	17.3	21.3	43.48	-474.2	-910.8	365.7	336.6	29.11	12.563	
6,700.0	6,651.2	6,684.4	6,594.6	17.6	21.7	43.51	-482.5	-926.3	371.5	341.9	29.59	12.556	
6,800.0	6,750.4	6,784.2	6,692.9	17.9	22.0	43.54	-490.7	-941.9	377.3	347.2	30.06	12.549	
6,900.0	6,849.5	6,884.1	6,791.2	18.2	22.4	43.57	-499.0	-957.4	383.1	352.5	30.54	12.543	
7,000.0	6,948.8	6,983.7	6,889.2	18.4	22.7	-21.20	-507.2	-972.9	388.7	357.8	30.85	12.599	
7,100.0	7,047.4	7,081.2	6,985.2	18.5	23.1	-65.86	-515.3	-988.0	394.4	364.0	30.35	12.995	
7,200.0	7,142.2	7,178.5	7,081.2	18.4	23.4	-80.01	-519.7	-1,003.2	402.1	372.8	29.31	13.721	
7,300.0	7,230.5	7,283.2	7,183.7	18.3	23.6	-88.10	-507.0	-1,019.3	412.4	384.2	28.24	14.607	
7,400.0	7,309.4	7,396.1	7,289.6	18.0	23.6	-93.99	-472.5	-1,036.1	424.6	397.3	27.30	15.552	
7,500.0	7,376.7	7,518.5	7,394.5	17.8	23.6	-98.62	-412.1	-1,052.6	437.4	410.9	26.57	16.463	
7,600.0	7,430.2	7,651.2	7,491.2	17.7	23.5	-102.27	-322.9	-1,067.9	449.5	423.5	26.09	17.230	
7,700.0	7,468.4	7,793.9	7,569.5	17.6	23.4	-104.92	-204.7	-1,080.3	459.4	433.4	25.92	17.725	
7,800.0	7,490.0	7,944.5	7,618.3	17.7	23.4	-106.45	-62.9	-1,088.0	465.4	439.3	26.10	17.833	
7,900.0	7,495.0	8,085.6	7,630.0	17.9	23.7	-106.81	77.4	-1,089.8	466.8	440.2	26.68	17.500	
8,000.0	7,495.0	8,185.6	7,630.0	18.3	23.9	-106.81	177.4	-1,089.8	466.8	439.2	27.66	16.880	
8,100.0	7,495.0	8,285.6	7,630.0	18.8	24.3	-106.81	277.4	-1,089.8	466.8	437.8	28.99	16.106	
8,200.0	7,495.0	8,385.6	7,630.0	19.5	24.9	-106.81	377.4	-1,089.8	466.8	436.2	30.63	15.242	
8,300.0	7,495.0	8,485.6	7,630.0	20.3	25.5	-106.81	477.4	-1,089.8	466.8	434.3	32.53	14.349	
8,400.0	7,495.0	8,585.6	7,630.0	21.2	26.2	-106.81	577.4	-1,089.8	466.8	432.2	34.66	13.468	
8,500.0	7,495.0	8,685.6	7,630.0	22.2	27.1	-106.81	677.4	-1,089.8	466.8	429.9	36.97	12.626	
8,600.0	7,495.0	8,785.6	7,630.0	23.4	28.0	-106.81	777.4	-1,089.8	466.8	427.4	39.44	11.837	
8,700.0	7,495.0	8,885.6	7,630.0	24.5	29.0	-106.81	877.4	-1,089.8	466.8	424.8	42.03	11.108	
8,800.0	7,495.0	8,985.6	7,630.0	25.8	30.0	-106.81	977.4	-1,089.8	466.8	422.1	44.72	10.440	
8,900.0	7,495.0	9,085.6	7,630.0	27.1	31.2	-106.81	1,077.4	-1,089.8	466.8	419.3	47.49	9.830	
9,000.0	7,495.0	9,185.6	7,630.0	28.5	32.4	-106.81	1,177.4	-1,089.8	466.8	416.5	50.34	9.274	
9,100.0	7,495.0	9,285.6	7,630.0	29.9	33.6	-106.81	1,277.4	-1,089.8	466.8	413.6	53.25	8.767	
9,200.0	7,495.0	9,385.6	7,630.0	31.3	34.9	-106.81	1,377.4	-1,089.8	466.8	410.6	56.20	8.306	
9,300.0	7,495.0	9,485.6	7,630.0	32.8	36.2	-106.81	1,477.4	-1,089.8	466.8	407.6	59.20	7.885	
9,400.0	7,495.0	9,585.6	7,630.0	34.3	37.6	-106.81	1,577.4	-1,089.8	466.8	404.6	62.24	7.500	
9,500.0	7,495.0	9,685.6	7,630.0	35.8	38.9	-106.81	1,677.4	-1,089.8	466.8	401.5	65.31	7.148	
9,600.0	7,495.0	9,785.6	7,630.0	37.3	40.4	-106.81	1,777.4	-1,089.8	466.8	398.4	68.41	6.824	
9,700.0	7,495.0	9,885.6	7,630.0	38.9	41.8	-106.81	1,877.4	-1,089.8	466.8	395.3	71.53	6.527	
9,800.0	7,495.0	9,985.6	7,630.0	40.4	43.3	-106.81	1,977.4	-1,089.8	466.8	392.2	74.67	6.252	
9,900.0	7,495.0	10,085.6	7,630.0	42.0	44.8	-106.81	2,077.4	-1,089.8	466.8	389.0	77.83	5.998	
10,000.0	7,495.0	10,185.6	7,630.0	43.6	46.3	-106.81	2,177.4	-1,089.8	466.8	385.8	81.00	5.763	
10,100.0	7,495.0	10,285.6	7,630.0	45.2	47.8	-106.81	2,277.4	-1,089.8	466.8	382.6	84.19	5.545	
10,200.0	7,495.0	10,385.6	7,630.0	46.9	49.3	-106.81	2,377.4	-1,089.8	466.8	379.4	87.40	5.342	
10,300.0	7,495.0	10,485.6	7,630.0	48.5	50.9	-106.81	2,477.4	-1,089.8	466.8	376.2	90.61	5.152	

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 4G-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 4G-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	7,495.0	10,585.6	7,630.0	50.1	52.4	-106.81	2,577.4	-1,089.8	466.8	373.0	93.83	4.975		
10,500.0	7,495.0	10,685.6	7,630.0	51.8	54.0	-106.81	2,677.4	-1,089.8	466.8	369.8	97.07	4.809		
10,600.0	7,495.0	10,785.6	7,630.0	53.4	55.6	-106.81	2,777.4	-1,089.8	466.8	366.5	100.31	4.654		
10,700.0	7,495.0	10,885.6	7,630.0	55.1	57.2	-106.81	2,877.4	-1,089.8	466.8	363.3	103.56	4.508		
10,800.0	7,495.0	10,985.6	7,630.0	56.8	58.8	-106.81	2,977.4	-1,089.8	466.8	360.0	106.81	4.370		
10,900.0	7,495.0	11,085.6	7,630.0	58.4	60.4	-106.81	3,077.4	-1,089.8	466.8	356.8	110.08	4.241		
11,000.0	7,495.0	11,185.6	7,630.0	60.1	62.0	-106.81	3,177.4	-1,089.8	466.8	353.5	113.34	4.119		
11,100.0	7,495.0	11,285.6	7,630.0	61.8	63.7	-106.81	3,277.4	-1,089.8	466.8	350.2	116.62	4.003		
11,200.0	7,495.0	11,385.6	7,630.0	63.5	65.3	-106.81	3,377.4	-1,089.8	466.8	346.9	119.90	3.894		
11,300.0	7,495.0	11,485.6	7,630.0	65.1	66.9	-106.81	3,477.4	-1,089.8	466.8	343.7	123.18	3.790		
11,400.0	7,495.0	11,585.6	7,630.0	66.8	68.6	-106.81	3,577.4	-1,089.8	466.8	340.4	126.47	3.691		
11,500.0	7,495.0	11,685.6	7,630.0	68.5	70.2	-106.81	3,677.4	-1,089.8	466.8	337.1	129.76	3.598		
11,600.0	7,495.0	11,785.6	7,630.0	70.2	71.9	-106.81	3,777.4	-1,089.8	466.8	333.8	133.05	3.509		
11,700.0	7,495.0	11,885.6	7,630.0	71.9	73.6	-106.81	3,877.4	-1,089.8	466.8	330.5	136.35	3.424		
11,800.0	7,495.0	11,985.6	7,630.0	73.6	75.2	-106.81	3,977.4	-1,089.8	466.8	327.2	139.65	3.343		
11,900.0	7,495.0	12,085.6	7,630.0	75.3	76.9	-106.81	4,077.4	-1,089.8	466.8	323.9	142.95	3.266		
12,000.0	7,495.0	12,185.6	7,630.0	77.0	78.6	-106.81	4,177.4	-1,089.8	466.8	320.6	146.26	3.192		
12,100.0	7,495.0	12,285.6	7,630.0	78.8	80.2	-106.81	4,277.4	-1,089.8	466.8	317.3	149.56	3.121		
12,200.0	7,495.0	12,385.6	7,630.0	80.5	81.9	-106.81	4,377.4	-1,089.8	466.8	314.0	152.87	3.054		
12,300.0	7,495.0	12,485.6	7,630.0	82.2	83.6	-106.81	4,477.4	-1,089.8	466.8	310.6	156.19	2.989		
12,400.0	7,495.0	12,585.6	7,630.0	83.9	85.3	-106.81	4,577.4	-1,089.8	466.8	307.3	159.50	2.927		
12,500.0	7,495.0	12,685.6	7,630.0	85.6	87.0	-106.81	4,677.4	-1,089.8	466.8	304.0	162.82	2.867		
12,600.0	7,495.0	12,785.6	7,630.0	87.3	88.7	-106.81	4,777.4	-1,089.8	466.8	300.7	166.13	2.810		
12,700.0	7,495.0	12,885.6	7,630.0	89.0	90.4	-106.81	4,877.4	-1,089.8	466.8	297.4	169.45	2.755		
12,800.0	7,495.0	12,985.6	7,630.0	90.8	92.1	-106.81	4,977.4	-1,089.8	466.8	294.1	172.78	2.702		
12,900.0	7,495.0	13,085.6	7,630.0	92.5	93.8	-106.81	5,077.4	-1,089.8	466.8	290.7	176.10	2.651		
13,000.0	7,495.0	13,185.6	7,630.0	94.2	95.5	-106.81	5,177.4	-1,089.8	466.8	287.4	179.42	2.602		
13,100.0	7,495.0	13,285.6	7,630.0	95.9	97.2	-106.81	5,277.4	-1,089.8	466.8	284.1	182.75	2.554		
13,200.0	7,495.0	13,385.6	7,630.0	97.7	98.9	-106.81	5,377.4	-1,089.8	466.8	280.8	186.07	2.509		
13,300.0	7,495.0	13,485.6	7,630.0	99.4	100.6	-106.81	5,477.4	-1,089.8	466.8	277.4	189.40	2.465		
13,400.0	7,495.0	13,585.6	7,630.0	101.1	102.3	-106.81	5,577.4	-1,089.8	466.8	274.1	192.73	2.422		
13,500.0	7,495.0	13,685.6	7,630.0	102.8	104.0	-106.81	5,677.4	-1,089.8	466.8	270.8	196.06	2.381		
13,600.0	7,495.0	13,785.6	7,630.0	104.6	105.7	-106.81	5,777.4	-1,089.8	466.8	267.4	199.39	2.341		
13,700.0	7,495.0	13,885.6	7,630.0	106.3	107.4	-106.81	5,877.4	-1,089.8	466.8	264.1	202.72	2.303		
13,800.0	7,495.0	13,985.6	7,630.0	108.0	109.1	-106.81	5,977.4	-1,089.8	466.8	260.8	206.06	2.266		
13,900.0	7,495.0	14,085.6	7,630.0	109.8	110.8	-106.81	6,077.4	-1,089.8	466.8	257.4	209.39	2.229		
14,000.0	7,495.0	14,185.6	7,630.0	111.5	112.6	-106.81	6,177.4	-1,089.8	466.8	254.1	212.72	2.195		
14,100.0	7,495.0	14,285.6	7,630.0	113.2	114.3	-106.81	6,277.4	-1,089.8	466.8	250.8	216.06	2.161		
14,200.0	7,495.0	14,385.6	7,630.0	115.0	116.0	-106.81	6,377.4	-1,089.8	466.8	247.4	219.40	2.128		
14,300.0	7,495.0	14,485.6	7,630.0	116.7	117.7	-106.81	6,477.4	-1,089.8	466.8	244.1	222.73	2.096 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	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		
400.0	400.0	400.0	400.0	0.6	0.6	-89.95	0.0	-10.1	10.1	8.8	1.28	7.839		
500.0	500.0	500.0	500.0	0.8	0.8	-89.95	0.0	-10.1	10.1	8.4	1.63	6.164		
600.0	600.0	600.0	600.0	1.0	1.0	-89.95	0.0	-10.1	10.1	8.1	1.98	5.079		
700.0	700.0	700.0	700.0	1.2	1.2	-89.95	0.0	-10.1	10.1	7.7	2.33	4.319 CC, ES		
800.0	800.0	799.7	799.6	1.3	1.3	-94.76	-1.0	-11.5	11.6	8.9	2.68	4.311		
900.0	900.0	899.2	899.0	1.5	1.5	31.11	-3.8	-15.8	14.8	11.8	3.03	4.882		
1,000.0	999.8	998.6	998.1	1.7	1.7	28.79	-8.7	-23.0	18.3	14.9	3.38	5.413		
1,100.0	1,099.5	1,097.9	1,096.6	1.9	2.0	28.36	-15.4	-33.0	22.0	18.3	3.74	5.886		
1,200.0	1,198.7	1,197.4	1,195.0	2.1	2.2	29.23	-23.8	-45.5	25.6	21.5	4.11	6.229		
1,300.0	1,297.9	1,297.4	1,293.7	2.4	2.5	30.58	-32.5	-58.5	28.7	24.2	4.50	6.389		
1,400.0	1,397.0	1,397.3	1,392.4	2.6	2.8	31.66	-41.2	-71.5	31.9	27.0	4.90	6.514		
1,500.0	1,496.1	1,497.3	1,491.1	2.9	3.1	32.54	-49.9	-84.4	35.1	29.8	5.30	6.611		
1,600.0	1,595.3	1,597.2	1,589.9	3.1	3.4	33.28	-58.6	-97.4	38.2	32.5	5.72	6.687		
1,700.0	1,694.4	1,697.2	1,688.6	3.4	3.7	33.90	-67.3	-110.4	41.4	35.3	6.14	6.747		
1,800.0	1,793.5	1,797.1	1,787.3	3.7	4.0	34.44	-76.0	-123.4	44.6	38.0	6.56	6.795		
1,900.0	1,892.7	1,897.1	1,886.0	3.9	4.3	34.90	-84.7	-136.4	47.8	40.8	6.99	6.834		
2,000.0	1,991.8	1,997.0	1,984.7	4.2	4.6	35.31	-93.5	-149.3	51.0	43.5	7.43	6.865		
2,100.0	2,090.9	2,097.0	2,083.5	4.5	4.9	35.67	-102.2	-162.3	54.2	46.3	7.86	6.890		
2,200.0	2,190.1	2,196.9	2,182.2	4.8	5.2	35.99	-110.9	-175.3	57.4	49.1	8.30	6.910		
2,300.0	2,289.2	2,296.9	2,280.9	5.0	5.6	36.27	-119.6	-188.3	60.6	51.8	8.74	6.927		
2,400.0	2,388.4	2,396.8	2,379.6	5.3	5.9	36.53	-128.3	-201.2	63.8	54.6	9.18	6.941		
2,500.0	2,487.5	2,496.8	2,478.3	5.6	6.2	36.76	-137.0	-214.2	67.0	57.3	9.63	6.953		
2,600.0	2,586.6	2,596.7	2,577.1	5.9	6.5	36.97	-145.7	-227.2	70.1	60.1	10.08	6.962		
2,700.0	2,685.8	2,696.7	2,675.8	6.2	6.8	37.16	-154.4	-240.2	73.3	62.8	10.52	6.970		
2,800.0	2,784.9	2,796.6	2,774.5	6.5	7.2	37.34	-163.1	-253.2	76.6	65.6	10.97	6.976		
2,900.0	2,884.0	2,896.5	2,873.2	6.7	7.5	37.50	-171.8	-266.1	79.8	68.3	11.42	6.982		
3,000.0	2,983.2	2,996.5	2,971.9	7.0	7.8	37.65	-180.5	-279.1	83.0	71.1	11.87	6.986		
3,100.0	3,082.3	3,096.4	3,070.7	7.3	8.1	37.79	-189.3	-292.1	86.2	73.8	12.33	6.990		
3,200.0	3,181.4	3,196.4	3,169.4	7.6	8.4	37.92	-198.0	-305.1	89.4	76.6	12.78	6.993		
3,300.0	3,280.6	3,296.3	3,268.1	7.9	8.8	38.04	-206.7	-318.0	92.6	79.3	13.23	6.995		
3,400.0	3,379.7	3,396.3	3,366.8	8.2	9.1	38.15	-215.4	-331.0	95.8	82.1	13.69	6.997		
3,500.0	3,478.9	3,496.2	3,465.5	8.4	9.4	38.25	-224.1	-344.0	99.0	84.8	14.14	6.999		
3,600.0	3,578.0	3,596.2	3,564.2	8.7	9.7	38.35	-232.8	-357.0	102.2	87.6	14.60	7.000		
3,700.0	3,677.1	3,696.1	3,663.0	9.0	10.1	38.44	-241.5	-370.0	105.4	90.3	15.05	7.001		
3,800.0	3,776.3	3,796.1	3,761.7	9.3	10.4	38.53	-250.2	-382.9	108.6	93.1	15.51	7.002		
3,900.0	3,875.4	3,896.0	3,860.4	9.6	10.7	38.61	-258.9	-395.9	111.8	95.8	15.96	7.003		
4,000.0	3,974.5	3,996.0	3,959.1	9.9	11.0	38.69	-267.6	-408.9	115.0	98.6	16.42	7.003		
4,100.0	4,073.7	4,095.9	4,057.8	10.2	11.3	38.76	-276.4	-421.9	118.2	101.3	16.88	7.003		
4,200.0	4,172.8	4,195.9	4,156.6	10.4	11.7	38.83	-285.1	-434.8	121.4	104.1	17.34	7.003		
4,300.0	4,271.9	4,295.8	4,255.3	10.7	12.0	38.90	-293.8	-447.8	124.6	106.8	17.79	7.003		
4,400.0	4,371.1	4,395.8	4,354.0	11.0	12.3	38.96	-302.5	-460.8	127.8	109.6	18.25	7.003		
4,500.0	4,470.2	4,495.7	4,452.7	11.3	12.6	39.02	-311.2	-473.8	131.0	112.3	18.71	7.003		
4,600.0	4,569.4	4,595.7	4,551.4	11.6	13.0	39.07	-319.9	-486.8	134.2	115.1	19.17	7.003		
4,700.0	4,668.5	4,695.6	4,650.2	11.9	13.3	39.13	-328.6	-499.7	137.4	117.8	19.63	7.002		
4,800.0	4,767.6	4,795.6	4,748.9	12.2	13.6	39.18	-337.3	-512.7	140.6	120.6	20.09	7.002		
4,900.0	4,866.8	4,895.5	4,847.6	12.5	13.9	39.23	-346.0	-525.7	143.8	123.3	20.55	7.001		
5,000.0	4,965.9	4,995.5	4,946.3	12.7	14.3	39.27	-354.7	-538.7	147.1	126.1	21.00	7.001		
5,100.0	5,065.0	5,095.4	5,045.0	13.0	14.6	39.32	-363.4	-551.6	150.3	128.8	21.46	7.001		

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 4G-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 4G-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,164.2	5,195.4	5,143.7	13.3	14.9	39.36	-372.2	-564.6	153.5	131.5	21.92	7.000	
5,300.0	5,263.3	5,295.3	5,242.5	13.6	15.2	39.40	-380.9	-577.6	156.7	134.3	22.38	6.999	
5,400.0	5,362.5	5,395.3	5,341.2	13.9	15.6	39.44	-389.6	-590.6	159.9	137.0	22.84	6.999	
5,500.0	5,461.6	5,495.2	5,439.9	14.2	15.9	39.48	-398.3	-603.6	163.1	139.8	23.30	6.998	
5,600.0	5,560.7	5,595.2	5,538.6	14.5	16.2	39.52	-407.0	-616.5	166.3	142.5	23.76	6.998	
5,700.0	5,659.9	5,695.1	5,637.3	14.8	16.5	39.55	-415.7	-629.5	169.5	145.3	24.22	6.997	
5,800.0	5,759.0	5,795.1	5,736.1	15.0	16.9	39.59	-424.4	-642.5	172.7	148.0	24.69	6.997	
5,900.0	5,858.1	5,895.0	5,834.8	15.3	17.2	39.62	-433.1	-655.5	175.9	150.8	25.15	6.996	
6,000.0	5,957.3	5,995.0	5,933.5	15.6	17.5	39.65	-441.8	-668.4	179.1	153.5	25.61	6.995	
6,100.0	6,056.4	6,094.9	6,032.2	15.9	17.8	39.68	-450.5	-681.4	182.3	156.3	26.07	6.995	
6,200.0	6,155.5	6,194.8	6,130.9	16.2	18.2	39.71	-459.2	-694.4	185.5	159.0	26.53	6.994	
6,300.0	6,254.7	6,294.8	6,229.7	16.5	18.5	39.74	-468.0	-707.4	188.7	161.8	26.99	6.994	
6,400.0	6,353.8	6,394.7	6,328.4	16.8	18.8	39.77	-476.7	-720.3	192.0	164.5	27.45	6.993	
6,500.0	6,453.0	6,494.7	6,427.1	17.1	19.1	39.79	-485.4	-733.3	195.2	167.3	27.91	6.992	
6,600.0	6,552.1	6,594.6	6,525.8	17.3	19.5	39.82	-494.1	-746.3	198.4	170.0	28.37	6.992	
6,700.0	6,651.2	6,694.6	6,624.5	17.6	19.8	39.84	-502.8	-759.3	201.6	172.7	28.83	6.991	
6,800.0	6,750.4	6,794.5	6,723.3	17.9	20.1	39.87	-511.5	-772.3	204.8	175.5	29.30	6.991	
6,900.0	6,849.5	6,894.7	6,822.3	18.2	20.4	40.19	-519.2	-785.3	208.0	178.2	29.81	6.977	
7,000.0	6,948.8	6,994.0	6,920.4	18.4	20.6	-21.36	-513.1	-798.2	211.2	180.5	30.74	6.872	
7,100.0	7,047.4	7,091.5	7,014.4	18.5	20.6	-60.55	-490.7	-810.5	215.0	183.7	31.27	6.875	
7,200.0	7,142.2	7,187.4	7,101.8	18.4	20.6	-67.92	-453.3	-822.0	219.0	187.7	31.28	7.002	
7,300.0	7,230.5	7,281.9	7,180.7	18.3	20.5	-69.54	-402.5	-832.4	223.0	192.3	30.77	7.249	
7,400.0	7,309.4	7,375.2	7,249.5	18.0	20.3	-69.54	-340.3	-841.4	226.9	197.1	29.83	7.606	
7,500.0	7,376.7	7,467.5	7,306.8	17.8	20.2	-69.05	-268.4	-849.0	230.4	201.7	28.65	8.040	
7,600.0	7,430.2	7,559.0	7,351.6	17.7	20.1	-68.47	-189.0	-854.9	233.2	205.7	27.49	8.485	
7,700.0	7,468.4	7,650.0	7,383.1	17.6	20.1	-68.00	-103.8	-859.0	235.3	208.6	26.64	8.832	
7,800.0	7,490.0	7,740.6	7,400.9	17.7	20.2	-67.72	-15.2	-861.3	236.5	210.1	26.41	8.953	
7,900.0	7,495.0	7,833.3	7,405.0	17.9	20.3	-67.66	77.4	-861.9	236.7	209.8	26.92	8.793	
8,000.0	7,495.0	7,933.3	7,405.0	18.3	20.7	-67.66	177.4	-861.9	236.7	208.9	27.85	8.500	
8,100.0	7,495.0	8,033.3	7,405.0	18.8	21.2	-67.66	277.4	-861.9	236.7	207.6	29.11	8.132	
8,200.0	7,495.0	8,133.3	7,405.0	19.5	21.8	-67.66	377.4	-861.9	236.7	206.1	30.66	7.721	
8,300.0	7,495.0	8,233.3	7,405.0	20.3	22.5	-67.66	477.4	-861.9	236.7	204.3	32.47	7.292	
8,400.0	7,495.0	8,333.3	7,405.0	21.2	23.3	-67.66	577.4	-861.9	236.7	202.3	34.48	6.866	
8,500.0	7,495.0	8,433.3	7,405.0	22.2	24.3	-67.66	677.4	-861.9	236.7	200.1	36.67	6.455	
8,600.0	7,495.0	8,533.3	7,405.0	23.4	25.3	-67.66	777.4	-861.9	236.7	197.7	39.01	6.068	
8,700.0	7,495.0	8,633.3	7,405.0	24.5	26.4	-67.66	877.4	-861.9	236.7	195.3	41.48	5.708	
8,800.0	7,495.0	8,733.3	7,405.0	25.8	27.5	-67.66	977.4	-861.9	236.7	192.7	44.04	5.375	
8,900.0	7,495.0	8,833.3	7,405.0	27.1	28.8	-67.66	1,077.4	-861.9	236.7	190.0	46.69	5.070	
9,000.0	7,495.0	8,933.3	7,405.0	28.5	30.1	-67.66	1,177.4	-861.9	236.7	187.3	49.41	4.791	
9,100.0	7,495.0	9,033.3	7,405.0	29.9	31.4	-67.66	1,277.4	-861.9	236.7	184.5	52.20	4.536	
9,200.0	7,495.0	9,133.3	7,405.0	31.3	32.7	-67.66	1,377.4	-861.9	236.7	181.7	55.03	4.302	
9,300.0	7,495.0	9,233.3	7,405.0	32.8	34.2	-67.66	1,477.4	-861.9	236.7	178.8	57.91	4.088	
9,400.0	7,495.0	9,333.3	7,405.0	34.3	35.6	-67.66	1,577.4	-861.9	236.7	175.9	60.82	3.892	
9,500.0	7,495.0	9,433.3	7,405.0	35.8	37.0	-67.66	1,677.4	-861.9	236.7	173.0	63.77	3.713	
9,600.0	7,495.0	9,533.3	7,405.0	37.3	38.5	-67.66	1,777.4	-861.9	236.7	170.0	66.74	3.547	
9,700.0	7,495.0	9,633.3	7,405.0	38.9	40.0	-67.66	1,877.4	-861.9	236.7	167.0	69.74	3.395	
9,800.0	7,495.0	9,733.3	7,405.0	40.4	41.6	-67.66	1,977.4	-861.9	236.7	164.0	72.76	3.254	
9,900.0	7,495.0	9,833.3	7,405.0	42.0	43.1	-67.66	2,077.4	-861.9	236.7	160.9	75.80	3.123	
10,000.0	7,495.0	9,933.3	7,405.0	43.6	44.7	-67.66	2,177.4	-861.9	236.7	157.9	78.86	3.002	
10,100.0	7,495.0	10,033.3	7,405.0	45.2	46.2	-67.66	2,277.4	-861.9	236.7	154.8	81.93	2.890	
10,200.0	7,495.0	10,133.3	7,405.0	46.9	47.8	-67.66	2,377.4	-861.9	236.7	151.7	85.01	2.785	
10,300.0	7,495.0	10,233.3	7,405.0	48.5	49.4	-67.66	2,477.4	-861.9	236.7	148.6	88.11	2.687	

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 4G-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 4G-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							
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
10,400.0	7,495.0	10,333.3	7,405.0	50.1	51.0	-67.66	2,577.4	-861.9	236.7	145.5	91.21	2.595	
10,500.0	7,495.0	10,433.3	7,405.0	51.8	52.7	-67.66	2,677.4	-861.9	236.7	142.4	94.33	2.510	
10,600.0	7,495.0	10,533.3	7,405.0	53.4	54.3	-67.66	2,777.4	-861.9	236.7	139.3	97.45	2.429	
10,700.0	7,495.0	10,633.3	7,405.0	55.1	55.9	-67.66	2,877.4	-861.9	236.7	136.2	100.59	2.354	
10,800.0	7,495.0	10,733.3	7,405.0	56.8	57.6	-67.66	2,977.4	-861.9	236.7	133.0	103.73	2.282	
10,900.0	7,495.0	10,833.3	7,405.0	58.4	59.2	-67.66	3,077.4	-861.9	236.7	129.9	106.87	2.215	
11,000.0	7,495.0	10,933.3	7,405.0	60.1	60.9	-67.66	3,177.4	-861.9	236.7	126.7	110.02	2.152	
11,100.0	7,495.0	11,033.3	7,405.0	61.8	62.5	-67.66	3,277.4	-861.9	236.7	123.6	113.18	2.092	
11,200.0	7,495.0	11,133.3	7,405.0	63.5	64.2	-67.66	3,377.4	-861.9	236.7	120.4	116.34	2.035	
11,300.0	7,495.0	11,233.3	7,405.0	65.1	65.9	-67.66	3,477.4	-861.9	236.7	117.2	119.51	1.981	
11,400.0	7,495.0	11,333.3	7,405.0	66.8	67.5	-67.66	3,577.4	-861.9	236.7	114.1	122.68	1.930	
11,500.0	7,495.0	11,433.3	7,405.0	68.5	69.2	-67.66	3,677.4	-861.9	236.7	110.9	125.86	1.881	
11,600.0	7,495.0	11,533.3	7,405.0	70.2	70.9	-67.66	3,777.4	-861.9	236.7	107.7	129.03	1.835	
11,700.0	7,495.0	11,633.3	7,405.0	71.9	72.6	-67.66	3,877.4	-861.9	236.7	104.5	132.22	1.791	
11,800.0	7,495.0	11,733.3	7,405.0	73.6	74.3	-67.66	3,977.4	-861.9	236.7	101.3	135.40	1.748	
11,900.0	7,495.0	11,833.3	7,405.0	75.3	75.9	-67.66	4,077.4	-861.9	236.7	98.2	138.59	1.708	
12,000.0	7,495.0	11,933.3	7,405.0	77.0	77.6	-67.66	4,177.4	-861.9	236.7	95.0	141.78	1.670	
12,100.0	7,495.0	12,033.3	7,405.0	78.8	79.3	-67.66	4,277.4	-861.9	236.7	91.8	144.97	1.633	
12,200.0	7,495.0	12,133.3	7,405.0	80.5	81.0	-67.66	4,377.4	-861.9	236.7	88.6	148.17	1.598	
12,300.0	7,495.0	12,233.3	7,405.0	82.2	82.7	-67.66	4,477.4	-861.9	236.7	85.4	151.37	1.564	
12,400.0	7,495.0	12,333.3	7,405.0	83.9	84.4	-67.66	4,577.4	-861.9	236.7	82.2	154.57	1.532	
12,500.0	7,495.0	12,433.3	7,405.0	85.6	86.1	-67.66	4,677.4	-861.9	236.7	79.0	157.77	1.501	
12,600.0	7,495.0	12,533.3	7,405.0	87.3	87.8	-67.66	4,777.4	-861.9	236.7	75.8	160.97	1.471 Level 3	
12,700.0	7,495.0	12,633.3	7,405.0	89.0	89.6	-67.66	4,877.4	-861.9	236.7	72.6	164.18	1.442 Level 3	
12,800.0	7,495.0	12,733.3	7,405.0	90.8	91.3	-67.66	4,977.4	-861.9	236.7	69.4	167.39	1.414 Level 3	
12,900.0	7,495.0	12,833.3	7,405.0	92.5	93.0	-67.66	5,077.4	-861.9	236.7	66.1	170.60	1.388 Level 3	
13,000.0	7,495.0	12,933.3	7,405.0	94.2	94.7	-67.66	5,177.4	-861.9	236.7	62.9	173.81	1.362 Level 3	
13,100.0	7,495.0	13,033.3	7,405.0	95.9	96.4	-67.66	5,277.4	-861.9	236.7	59.7	177.02	1.337 Level 3	
13,200.0	7,495.0	13,133.3	7,405.0	97.7	98.1	-67.66	5,377.4	-861.9	236.7	56.5	180.23	1.314 Level 3	
13,300.0	7,495.0	13,233.3	7,405.0	99.4	99.8	-67.66	5,477.4	-861.9	236.7	53.3	183.44	1.291 Level 3	
13,400.0	7,495.0	13,333.3	7,405.0	101.1	101.6	-67.66	5,577.4	-861.9	236.7	50.1	186.66	1.268 Level 3	
13,500.0	7,495.0	13,433.3	7,405.0	102.8	103.3	-67.66	5,677.4	-861.9	236.7	46.9	189.88	1.247 Level 2	
13,600.0	7,495.0	13,533.3	7,405.0	104.6	105.0	-67.66	5,777.4	-861.9	236.7	43.6	193.09	1.226 Level 2	
13,700.0	7,495.0	13,633.3	7,405.0	106.3	106.7	-67.66	5,877.4	-861.9	236.7	40.4	196.31	1.206 Level 2	
13,800.0	7,495.0	13,733.3	7,405.0	108.0	108.4	-67.66	5,977.4	-861.9	236.7	37.2	199.53	1.186 Level 2	
13,900.0	7,495.0	13,833.3	7,405.0	109.8	110.2	-67.66	6,077.4	-861.9	236.7	34.0	202.75	1.168 Level 2	
14,000.0	7,495.0	13,933.3	7,405.0	111.5	111.9	-67.66	6,177.4	-861.9	236.7	30.8	205.97	1.149 Level 2	
14,100.0	7,495.0	14,033.3	7,405.0	113.2	113.6	-67.66	6,277.4	-861.9	236.7	27.5	209.20	1.132 Level 2	
14,200.0	7,495.0	14,133.3	7,405.0	115.0	115.3	-67.66	6,377.4	-861.9	236.7	24.3	212.42	1.114 Level 2	
14,300.0	7,495.0	14,233.3	7,405.0	116.7	117.1	-67.66	6,477.4	-861.9	236.7	21.1	215.64	1.098 Level 2, SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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	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	1.0	1.0	0.0	0.0	90.05	0.0	9.8	9.8					
100.0	100.0	101.0	101.0	0.1	0.1	90.05	0.0	9.8	9.8	9.6	0.24	40.945		
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	9.8	9.8	9.2	0.59	16.645		
300.0	300.0	301.0	301.0	0.5	0.5	90.05	0.0	9.8	9.8	8.9	0.94	10.446		
400.0	400.0	401.0	401.0	0.6	0.6	90.05	0.0	9.8	9.8	8.5	1.29	7.611		
500.0	500.0	501.0	501.0	0.8	0.8	90.05	0.0	9.8	9.8	8.2	1.64	5.987		
600.0	600.0	601.0	601.0	1.0	1.0	90.05	0.0	9.8	9.8	7.8	1.98	4.934		
700.0	700.0	701.0	701.0	1.2	1.2	90.05	0.0	9.8	9.8	7.5	2.33	4.196		
800.0	800.0	801.0	801.0	1.3	1.3	90.05	0.0	9.8	9.8	7.1	2.68	3.650 CC, ES		
900.0	900.0	901.0	901.0	1.5	1.5	-144.25	0.0	9.8	11.2	8.1	3.03	3.680		
1,000.0	999.8	1,001.0	1,001.0	1.7	1.7	-149.38	-1.8	9.5	15.0	11.6	3.38	4.430		
1,100.0	1,099.5	1,101.3	1,101.2	1.9	1.9	-148.72	-6.8	8.3	20.3	16.6	3.74	5.438		
1,200.0	1,198.7	1,201.9	1,201.4	2.1	2.1	-148.89	-13.8	4.3	25.6	21.4	4.11	6.221		
1,300.0	1,297.9	1,302.2	1,301.1	2.4	2.3	-148.10	-22.3	-2.0	29.1	24.6	4.50	6.462		
1,400.0	1,397.0	1,402.1	1,400.5	2.6	2.5	-147.33	-30.9	-8.5	32.4	27.5	4.89	6.611		
1,500.0	1,496.1	1,502.1	1,499.9	2.9	2.7	-146.70	-39.5	-15.0	35.7	30.4	5.30	6.728		
1,600.0	1,595.3	1,602.0	1,599.2	3.1	2.9	-146.17	-48.1	-21.5	39.0	33.2	5.71	6.821		
1,700.0	1,694.4	1,702.0	1,698.6	3.4	3.2	-145.73	-56.7	-27.9	42.3	36.1	6.13	6.896		
1,800.0	1,793.5	1,801.9	1,798.0	3.7	3.4	-145.35	-65.3	-34.4	45.6	39.0	6.55	6.956		
1,900.0	1,892.7	1,901.9	1,897.3	3.9	3.7	-145.03	-73.9	-40.9	48.9	41.9	6.98	7.006		
2,000.0	1,991.8	2,001.8	1,996.7	4.2	3.9	-144.74	-82.5	-47.4	52.2	44.8	7.41	7.048		
2,100.0	2,090.9	2,101.7	2,096.0	4.5	4.1	-144.49	-91.1	-53.9	55.5	47.7	7.84	7.082		
2,200.0	2,190.1	2,201.7	2,195.4	4.8	4.4	-144.27	-99.7	-60.4	58.8	50.6	8.27	7.111		
2,300.0	2,289.2	2,301.6	2,294.8	5.0	4.6	-144.07	-108.3	-66.8	62.1	53.4	8.71	7.136		
2,400.0	2,388.4	2,401.6	2,394.1	5.3	4.9	-143.89	-116.8	-73.3	65.5	56.3	9.15	7.157		
2,500.0	2,487.5	2,501.5	2,493.5	5.6	5.1	-143.73	-125.4	-79.8	68.8	59.2	9.59	7.175		
2,600.0	2,586.6	2,601.5	2,592.9	5.9	5.4	-143.58	-134.0	-86.3	72.1	62.1	10.03	7.190		
2,700.0	2,685.8	2,701.4	2,692.2	6.2	5.6	-143.45	-142.6	-92.8	75.4	64.9	10.47	7.203		
2,800.0	2,784.9	2,801.4	2,791.6	6.5	5.9	-143.33	-151.2	-99.3	78.7	67.8	10.91	7.215		
2,900.0	2,884.0	2,901.3	2,890.9	6.7	6.1	-143.21	-159.8	-105.7	82.0	70.7	11.35	7.225		
3,000.0	2,983.2	3,001.2	2,990.3	7.0	6.4	-143.11	-168.4	-112.2	85.4	73.6	11.80	7.234		
3,100.0	3,082.3	3,101.2	3,089.7	7.3	6.6	-143.01	-177.0	-118.7	88.7	76.4	12.24	7.242		
3,200.0	3,181.4	3,201.1	3,189.0	7.6	6.9	-142.93	-185.6	-125.2	92.0	79.3	12.69	7.249		
3,300.0	3,280.6	3,301.1	3,288.4	7.9	7.1	-142.84	-194.2	-131.7	95.3	82.2	13.14	7.255		
3,400.0	3,379.7	3,401.0	3,387.8	8.2	7.4	-142.77	-202.8	-138.2	98.6	85.1	13.58	7.261		
3,500.0	3,478.9	3,501.0	3,487.1	8.4	7.6	-142.69	-211.4	-144.7	102.0	87.9	14.03	7.266		
3,600.0	3,578.0	3,600.9	3,586.5	8.7	7.9	-142.63	-220.0	-151.1	105.3	90.8	14.48	7.270		
3,700.0	3,677.1	3,700.9	3,685.9	9.0	8.1	-142.56	-228.6	-157.6	108.6	93.7	14.93	7.274		
3,800.0	3,776.3	3,800.8	3,785.2	9.3	8.4	-142.50	-237.2	-164.1	111.9	96.5	15.38	7.278		
3,900.0	3,875.4	3,900.7	3,884.6	9.6	8.6	-142.45	-245.7	-170.6	115.2	99.4	15.83	7.281		
4,000.0	3,974.5	4,000.7	3,983.9	9.9	8.9	-142.39	-254.3	-177.1	118.6	102.3	16.28	7.284		
4,100.0	4,073.7	4,100.6	4,083.3	10.2	9.2	-142.34	-262.9	-183.6	121.9	105.2	16.73	7.287		
4,200.0	4,172.8	4,200.6	4,182.7	10.4	9.4	-142.29	-271.5	-190.0	125.2	108.0	17.18	7.289		
4,300.0	4,271.9	4,300.5	4,282.0	10.7	9.7	-142.25	-280.1	-196.5	128.5	110.9	17.63	7.291		
4,400.0	4,371.1	4,400.5	4,381.4	11.0	9.9	-142.21	-288.7	-203.0	131.8	113.8	18.08	7.293		
4,500.0	4,470.2	4,500.4	4,480.8	11.3	10.2	-142.17	-297.3	-209.5	135.2	116.6	18.53	7.295		
4,600.0	4,569.4	4,600.4	4,580.1	11.6	10.4	-142.13	-305.9	-216.0	138.5	119.5	18.98	7.296		
4,700.0	4,668.5	4,700.3	4,679.5	11.9	10.7	-142.09	-314.5	-222.5	141.8	122.4	19.43	7.298		
4,800.0	4,767.6	4,800.3	4,778.9	12.2	10.9	-142.05	-323.1	-228.9	145.1	125.2	19.88	7.299		
4,900.0	4,866.8	4,900.2	4,878.2	12.5	11.2	-142.02	-331.7	-235.4	148.4	128.1	20.33	7.301		
5,000.0	4,965.9	5,000.1	4,977.6	12.7	11.4	-141.99	-340.3	-241.9	151.8	131.0	20.78	7.302		
5,100.0	5,065.0	5,100.1	5,076.9	13.0	11.7	-141.96	-348.9	-248.4	155.1	133.8	21.24	7.303		

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 4G-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 4G-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	5,164.2	5,200.0	5,176.3	13.3	12.0	-141.93	-357.5	-254.9	158.4	136.7	21.69	7.304		
5,300.0	5,263.3	5,300.0	5,275.7	13.6	12.2	-141.90	-366.1	-261.4	161.7	139.6	22.14	7.305		
5,400.0	5,362.5	5,399.9	5,375.0	13.9	12.5	-141.87	-374.6	-267.8	165.0	142.5	22.59	7.305		
5,500.0	5,461.6	5,499.9	5,474.4	14.2	12.7	-141.85	-383.2	-274.3	168.4	145.3	23.04	7.306		
5,600.0	5,560.7	5,599.8	5,573.8	14.5	13.0	-141.82	-391.8	-280.8	171.7	148.2	23.50	7.307		
5,700.0	5,659.9	5,699.8	5,673.1	14.8	13.2	-141.80	-400.4	-287.3	175.0	151.1	23.95	7.307		
5,800.0	5,759.0	5,799.7	5,772.5	15.0	13.5	-141.77	-409.0	-293.8	178.3	153.9	24.40	7.308		
5,900.0	5,858.1	5,899.6	5,871.8	15.3	13.7	-141.75	-417.6	-300.3	181.7	156.8	24.86	7.309		
6,000.0	5,957.3	5,999.6	5,971.2	15.6	14.0	-141.73	-426.2	-306.8	185.0	159.7	25.31	7.309		
6,100.0	6,056.4	6,099.5	6,070.6	15.9	14.3	-141.71	-434.8	-313.2	188.3	162.5	25.76	7.309		
6,200.0	6,155.5	6,199.5	6,169.9	16.2	14.5	-141.69	-443.4	-319.7	191.6	165.4	26.21	7.310		
6,300.0	6,254.7	6,299.4	6,269.3	16.5	14.8	-141.67	-452.0	-326.2	194.9	168.3	26.67	7.310		
6,400.0	6,353.8	6,399.4	6,368.7	16.8	15.0	-141.65	-460.6	-332.7	198.3	171.1	27.12	7.311		
6,500.0	6,453.0	6,499.3	6,468.0	17.1	15.3	-141.63	-469.2	-339.2	201.6	174.0	27.57	7.311		
6,600.0	6,552.1	6,599.3	6,567.4	17.3	15.5	-141.61	-477.8	-345.7	204.9	176.9	28.03	7.311		
6,700.0	6,651.2	6,699.2	6,666.8	17.6	15.8	-141.60	-486.4	-352.1	208.2	179.7	28.48	7.312		
6,800.0	6,750.4	6,799.1	6,766.1	17.9	16.0	-141.58	-495.0	-358.6	211.5	182.6	28.93	7.312		
6,900.0	6,849.5	6,899.1	6,865.5	18.2	16.3	-141.56	-503.5	-365.1	214.9	185.5	29.39	7.312		
7,000.0	6,948.8	6,998.8	6,964.6	18.4	16.6	154.97	-512.1	-371.6	218.0	188.0	29.95	7.277		
7,100.0	7,047.4	7,097.5	7,062.9	18.5	16.8	117.25	-518.1	-378.0	221.5	190.6	30.86	7.176		
7,200.0	7,142.2	7,199.3	7,163.8	18.4	16.8	111.85	-508.2	-384.6	226.7	195.4	31.28	7.245		
7,300.0	7,230.5	7,305.0	7,265.2	18.3	16.7	112.17	-479.2	-391.2	233.3	202.2	31.04	7.514		
7,400.0	7,309.4	7,415.2	7,363.2	18.0	16.5	113.97	-429.8	-397.6	240.7	210.5	30.16	7.979		
7,500.0	7,376.7	7,529.6	7,453.1	17.8	16.1	116.05	-359.5	-403.5	248.1	219.3	28.82	8.610		
7,600.0	7,430.2	7,648.3	7,529.7	17.7	15.8	117.92	-269.3	-408.5	254.9	227.6	27.33	9.327		
7,700.0	7,468.4	7,770.5	7,587.5	17.6	15.6	119.35	-162.0	-412.2	260.3	234.1	26.13	9.959		
7,800.0	7,490.0	7,895.3	7,621.7	17.7	15.6	120.21	-42.3	-414.5	263.5	237.9	25.67	10.268		
7,900.0	7,495.0	8,015.4	7,630.0	17.9	15.9	120.45	77.4	-415.0	264.4	238.2	26.16	10.106		
8,000.0	7,495.0	8,115.4	7,630.0	18.3	16.3	120.45	177.4	-415.0	264.4	237.3	27.04	9.778		
8,100.0	7,495.0	8,215.4	7,630.0	18.8	16.9	120.45	277.4	-415.0	264.4	236.2	28.22	9.369		
8,200.0	7,495.0	8,315.4	7,630.0	19.5	17.7	120.45	377.4	-415.0	264.4	234.7	29.66	8.913		
8,300.0	7,495.0	8,415.4	7,630.0	20.3	18.6	120.45	477.4	-415.0	264.4	233.1	31.33	8.438		
8,400.0	7,495.0	8,515.4	7,630.0	21.2	19.6	120.45	577.4	-415.0	264.4	231.2	33.20	7.964		
8,500.0	7,495.0	8,615.4	7,630.0	22.2	20.7	120.45	677.4	-415.0	264.4	229.2	35.22	7.506		
8,600.0	7,495.0	8,715.4	7,630.0	23.4	21.9	120.45	777.4	-415.0	264.4	227.0	37.39	7.072		
8,700.0	7,495.0	8,815.4	7,630.0	24.5	23.2	120.45	877.4	-415.0	264.4	224.7	39.66	6.666		
8,800.0	7,495.0	8,915.4	7,630.0	25.8	24.5	120.45	977.4	-415.0	264.4	222.4	42.03	6.290		
8,900.0	7,495.0	9,015.4	7,630.0	27.1	25.9	120.45	1,077.4	-415.0	264.4	219.9	44.49	5.943		
9,000.0	7,495.0	9,115.4	7,630.0	28.5	27.3	120.45	1,177.4	-415.0	264.4	217.4	47.01	5.625		
9,100.0	7,495.0	9,215.4	7,630.0	29.9	28.8	120.45	1,277.4	-415.0	264.4	214.8	49.58	5.332		
9,200.0	7,495.0	9,315.4	7,630.0	31.3	30.3	120.45	1,377.4	-415.0	264.4	212.2	52.21	5.064		
9,300.0	7,495.0	9,415.4	7,630.0	32.8	31.8	120.45	1,477.4	-415.0	264.4	209.5	54.88	4.818		
9,400.0	7,495.0	9,515.4	7,630.0	34.3	33.3	120.45	1,577.4	-415.0	264.4	206.8	57.58	4.592		
9,500.0	7,495.0	9,615.4	7,630.0	35.8	34.9	120.45	1,677.4	-415.0	264.4	204.1	60.31	4.384		
9,600.0	7,495.0	9,715.4	7,630.0	37.3	36.4	120.45	1,777.4	-415.0	264.4	201.3	63.07	4.192		
9,700.0	7,495.0	9,815.4	7,630.0	38.9	38.0	120.45	1,877.4	-415.0	264.4	198.5	65.86	4.014		
9,800.0	7,495.0	9,915.4	7,630.0	40.4	39.6	120.45	1,977.4	-415.0	264.4	195.7	68.67	3.850		
9,900.0	7,495.0	10,015.4	7,630.0	42.0	41.3	120.45	2,077.4	-415.0	264.4	192.9	71.49	3.698		
10,000.0	7,495.0	10,115.4	7,630.0	43.6	42.9	120.45	2,177.4	-415.0	264.4	190.1	74.33	3.557		
10,100.0	7,495.0	10,215.4	7,630.0	45.2	44.5	120.45	2,277.4	-415.0	264.4	187.2	77.19	3.425		
10,200.0	7,495.0	10,315.4	7,630.0	46.9	46.2	120.45	2,377.4	-415.0	264.4	184.3	80.05	3.303		
10,300.0	7,495.0	10,415.4	7,630.0	48.5	47.8	120.45	2,477.4	-415.0	264.4	181.5	82.93	3.188		

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 4G-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 4G-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			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	7,495.0	10,515.4	7,630.0	50.1	49.5	120.45	2,577.4	-415.0	264.4	178.6	85.82	3.081		
10,500.0	7,495.0	10,615.4	7,630.0	51.8	51.2	120.45	2,677.4	-415.0	264.4	175.7	88.72	2.980		
10,600.0	7,495.0	10,715.4	7,630.0	53.4	52.8	120.45	2,777.4	-415.0	264.4	172.8	91.63	2.885		
10,700.0	7,495.0	10,815.4	7,630.0	55.1	54.5	120.45	2,877.4	-415.0	264.4	169.8	94.55	2.796		
10,800.0	7,495.0	10,915.4	7,630.0	56.8	56.2	120.45	2,977.4	-415.0	264.4	166.9	97.47	2.713		
10,900.0	7,495.0	11,015.4	7,630.0	58.4	57.9	120.45	3,077.4	-415.0	264.4	164.0	100.40	2.633		
11,000.0	7,495.0	11,115.4	7,630.0	60.1	59.6	120.45	3,177.4	-415.0	264.4	161.1	103.33	2.559		
11,100.0	7,495.0	11,215.4	7,630.0	61.8	61.3	120.45	3,277.4	-415.0	264.4	158.1	106.27	2.488		
11,200.0	7,495.0	11,315.4	7,630.0	63.5	63.0	120.45	3,377.4	-415.0	264.4	155.2	109.22	2.421		
11,300.0	7,495.0	11,415.4	7,630.0	65.1	64.7	120.45	3,477.4	-415.0	264.4	152.2	112.17	2.357		
11,400.0	7,495.0	11,515.4	7,630.0	66.8	66.4	120.45	3,577.4	-415.0	264.4	149.3	115.12	2.297		
11,500.0	7,495.0	11,615.4	7,630.0	68.5	68.1	120.45	3,677.4	-415.0	264.4	146.3	118.08	2.239		
11,600.0	7,495.0	11,715.4	7,630.0	70.2	69.8	120.45	3,777.4	-415.0	264.4	143.3	121.04	2.184		
11,700.0	7,495.0	11,815.4	7,630.0	71.9	71.5	120.45	3,877.4	-415.0	264.4	140.4	124.00	2.132		
11,800.0	7,495.0	11,915.4	7,630.0	73.6	73.2	120.45	3,977.4	-415.0	264.4	137.4	126.97	2.082		
11,900.0	7,495.0	12,015.4	7,630.0	75.3	74.9	120.45	4,077.4	-415.0	264.4	134.4	129.94	2.035		
12,000.0	7,495.0	12,115.4	7,630.0	77.0	76.6	120.45	4,177.4	-415.0	264.4	131.5	132.92	1.989		
12,100.0	7,495.0	12,215.4	7,630.0	78.8	78.4	120.45	4,277.4	-415.0	264.4	128.5	135.89	1.946		
12,200.0	7,495.0	12,315.4	7,630.0	80.5	80.1	120.45	4,377.4	-415.0	264.4	125.5	138.87	1.904		
12,300.0	7,495.0	12,415.4	7,630.0	82.2	81.8	120.45	4,477.4	-415.0	264.4	122.5	141.85	1.864		
12,400.0	7,495.0	12,515.4	7,630.0	83.9	83.5	120.45	4,577.4	-415.0	264.4	119.6	144.83	1.825		
12,500.0	7,495.0	12,615.4	7,630.0	85.6	85.3	120.45	4,677.4	-415.0	264.4	116.6	147.82	1.789		
12,600.0	7,495.0	12,715.4	7,630.0	87.3	87.0	120.45	4,777.4	-415.0	264.4	113.6	150.80	1.753		
12,700.0	7,495.0	12,815.4	7,630.0	89.0	88.7	120.45	4,877.4	-415.0	264.4	110.6	153.79	1.719		
12,800.0	7,495.0	12,915.4	7,630.0	90.8	90.4	120.45	4,977.4	-415.0	264.4	107.6	156.78	1.686		
12,900.0	7,495.0	13,015.4	7,630.0	92.5	92.2	120.45	5,077.4	-415.0	264.4	104.6	159.77	1.655		
13,000.0	7,495.0	13,115.4	7,630.0	94.2	93.9	120.45	5,177.4	-415.0	264.4	101.6	162.77	1.624		
13,100.0	7,495.0	13,215.4	7,630.0	95.9	95.6	120.45	5,277.4	-415.0	264.4	98.6	165.76	1.595		
13,200.0	7,495.0	13,315.4	7,630.0	97.7	97.4	120.45	5,377.4	-415.0	264.4	95.6	168.76	1.567		
13,300.0	7,495.0	13,415.4	7,630.0	99.4	99.1	120.45	5,477.4	-415.0	264.4	92.6	171.75	1.539		
13,400.0	7,495.0	13,515.4	7,630.0	101.1	100.8	120.45	5,577.4	-415.0	264.4	89.6	174.75	1.513		
13,500.0	7,495.0	13,615.4	7,630.0	102.8	102.5	120.45	5,677.4	-415.0	264.4	86.6	177.75	1.487 Level 3		
13,600.0	7,495.0	13,715.4	7,630.0	104.6	104.3	120.45	5,777.4	-415.0	264.4	83.6	180.75	1.463 Level 3		
13,700.0	7,495.0	13,815.4	7,630.0	106.3	106.0	120.45	5,877.4	-415.0	264.4	80.6	183.75	1.439 Level 3		
13,800.0	7,495.0	13,915.4	7,630.0	108.0	107.8	120.45	5,977.4	-415.0	264.4	77.6	186.75	1.416 Level 3		
13,900.0	7,495.0	14,015.4	7,630.0	109.8	109.5	120.45	6,077.4	-415.0	264.4	74.6	189.76	1.393 Level 3		
14,000.0	7,495.0	14,115.4	7,630.0	111.5	111.2	120.45	6,177.4	-415.0	264.4	71.6	192.76	1.372 Level 3		
14,100.0	7,495.0	14,215.4	7,630.0	113.2	113.0	120.45	6,277.4	-415.0	264.4	68.6	195.76	1.351 Level 3		
14,200.0	7,495.0	14,315.4	7,630.0	115.0	114.7	120.45	6,377.4	-415.0	264.4	65.6	198.77	1.330 Level 3		
14,300.0	7,495.0	14,415.4	7,630.0	116.7	116.4	120.45	6,477.4	-415.0	264.4	62.6	201.78	1.310 Level 3, SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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							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	1.0	1.0	0.0	0.0	90.05	0.0	19.9	19.9					
100.0	100.0	101.0	101.0	0.1	0.1	90.05	0.0	19.9	19.9	19.6	0.24	83.061		
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	19.9	19.9	19.3	0.59	33.767		
300.0	300.0	301.0	301.0	0.5	0.5	90.05	0.0	19.9	19.9	18.9	0.94	21.191		
400.0	400.0	401.0	401.0	0.6	0.6	90.05	0.0	19.9	19.9	18.6	1.29	15.440		
500.0	500.0	501.0	501.0	0.8	0.8	90.05	0.0	19.9	19.9	18.2	1.64	12.144		
600.0	600.0	601.0	601.0	1.0	1.0	90.05	0.0	19.9	19.9	17.9	1.98	10.008		
700.0	700.0	701.0	701.0	1.2	1.2	90.05	0.0	19.9	19.9	17.5	2.33	8.511		
800.0	800.0	801.0	801.0	1.3	1.3	90.05	0.0	19.9	19.9	17.2	2.68	7.404 CC, ES		
900.0	900.0	901.0	901.0	1.5	1.5	-141.41	0.0	19.9	21.2	18.2	3.03	6.992		
1,000.0	999.8	1,000.8	1,000.8	1.7	1.7	-148.72	0.0	19.9	25.5	22.1	3.38	7.545		
1,100.0	1,099.5	1,101.3	1,101.2	1.9	1.9	-154.30	-1.6	19.0	32.0	28.3	3.73	8.586		
1,200.0	1,198.7	1,201.9	1,201.7	2.1	2.1	-156.35	-6.3	16.6	39.3	35.2	4.08	9.627		
1,300.0	1,297.9	1,302.7	1,302.1	2.4	2.2	-155.23	-14.2	12.5	45.1	40.6	4.46	10.108		
1,400.0	1,397.0	1,402.5	1,401.4	2.6	2.5	-153.15	-23.2	7.7	49.8	45.0	4.85	10.279		
1,500.0	1,496.1	1,502.4	1,500.8	2.9	2.7	-151.43	-32.3	3.0	54.6	49.4	5.25	10.414		
1,600.0	1,595.3	1,602.3	1,600.1	3.1	2.9	-149.99	-41.4	-1.8	59.5	53.8	5.66	10.518		
1,700.0	1,694.4	1,702.1	1,699.5	3.4	3.1	-148.77	-50.4	-6.6	64.4	58.3	6.07	10.599		
1,800.0	1,793.5	1,802.0	1,798.8	3.7	3.3	-147.72	-59.5	-11.3	69.3	62.8	6.50	10.661		
1,900.0	1,892.7	1,901.9	1,898.2	3.9	3.6	-146.81	-68.6	-16.1	74.2	67.3	6.93	10.709		
2,000.0	1,991.8	2,001.8	1,997.5	4.2	3.8	-146.02	-77.7	-20.8	79.2	71.8	7.37	10.746		
2,100.0	2,090.9	2,101.6	2,096.9	4.5	4.0	-145.32	-86.7	-25.6	84.1	76.3	7.81	10.774		
2,200.0	2,190.1	2,201.5	2,196.2	4.8	4.3	-144.69	-95.8	-30.3	89.1	80.8	8.25	10.796		
2,300.0	2,289.2	2,301.4	2,295.6	5.0	4.5	-144.13	-104.9	-35.1	94.1	85.4	8.70	10.812		
2,400.0	2,388.4	2,401.2	2,394.9	5.3	4.7	-143.63	-114.0	-39.8	99.1	89.9	9.15	10.824		
2,500.0	2,487.5	2,501.1	2,494.2	5.6	5.0	-143.18	-123.0	-44.6	104.1	94.5	9.61	10.833		
2,600.0	2,586.6	2,601.0	2,593.6	5.9	5.2	-142.77	-132.1	-49.3	109.1	99.0	10.06	10.839		
2,700.0	2,685.8	2,700.9	2,692.9	6.2	5.5	-142.39	-141.2	-54.1	114.1	103.6	10.52	10.844		
2,800.0	2,784.9	2,800.7	2,792.3	6.5	5.7	-142.05	-150.2	-58.8	119.1	108.1	10.98	10.846		
2,900.0	2,884.0	2,900.6	2,891.6	6.7	6.0	-141.73	-159.3	-63.6	124.1	112.7	11.44	10.847		
3,000.0	2,983.2	3,000.5	2,991.0	7.0	6.2	-141.44	-168.4	-68.3	129.1	117.2	11.90	10.848		
3,100.0	3,082.3	3,100.4	3,090.3	7.3	6.4	-141.17	-177.5	-73.1	134.2	121.8	12.37	10.847		
3,200.0	3,181.4	3,200.2	3,189.7	7.6	6.7	-140.92	-186.5	-77.8	139.2	126.3	12.83	10.846		
3,300.0	3,280.6	3,300.1	3,289.0	7.9	6.9	-140.69	-195.6	-82.6	144.2	130.9	13.30	10.844		
3,400.0	3,379.7	3,400.0	3,388.3	8.2	7.2	-140.47	-204.7	-87.3	149.2	135.5	13.77	10.842		
3,500.0	3,478.9	3,499.8	3,487.7	8.4	7.4	-140.27	-213.8	-92.1	154.3	140.0	14.23	10.839		
3,600.0	3,578.0	3,599.7	3,587.0	8.7	7.7	-140.08	-222.8	-96.8	159.3	144.6	14.70	10.837		
3,700.0	3,677.1	3,699.6	3,686.4	9.0	7.9	-139.90	-231.9	-101.6	164.3	149.2	15.17	10.834		
3,800.0	3,776.3	3,799.5	3,785.7	9.3	8.2	-139.73	-241.0	-106.3	169.4	153.7	15.64	10.831		
3,900.0	3,875.4	3,899.3	3,885.1	9.6	8.4	-139.57	-250.1	-111.1	174.4	158.3	16.11	10.827		
4,000.0	3,974.5	3,999.2	3,984.4	9.9	8.7	-139.42	-259.1	-115.8	179.5	162.9	16.58	10.824		
4,100.0	4,073.7	4,099.1	4,083.8	10.2	8.9	-139.28	-268.2	-120.6	184.5	167.5	17.05	10.821		
4,200.0	4,172.8	4,198.9	4,183.1	10.4	9.2	-139.15	-277.3	-125.3	189.5	172.0	17.52	10.817		
4,300.0	4,271.9	4,298.8	4,282.5	10.7	9.4	-139.02	-286.3	-130.1	194.6	176.6	17.99	10.814		
4,400.0	4,371.1	4,398.7	4,381.8	11.0	9.6	-138.90	-295.4	-134.8	199.6	181.2	18.47	10.811		
4,500.0	4,470.2	4,498.6	4,481.1	11.3	9.9	-138.79	-304.5	-139.6	204.7	185.7	18.94	10.807		
4,600.0	4,569.4	4,598.4	4,580.5	11.6	10.1	-138.68	-313.6	-144.3	209.7	190.3	19.41	10.804		
4,700.0	4,668.5	4,698.3	4,679.8	11.9	10.4	-138.57	-322.6	-149.1	214.8	194.9	19.88	10.801		
4,800.0	4,767.6	4,798.2	4,779.2	12.2	10.6	-138.47	-331.7	-153.9	219.8	199.5	20.36	10.797		
4,900.0	4,866.8	4,898.0	4,878.5	12.5	10.9	-138.38	-340.8	-158.6	224.9	204.0	20.83	10.794		
5,000.0	4,965.9	4,997.9	4,977.9	12.7	11.1	-138.29	-349.9	-163.4	229.9	208.6	21.31	10.791		
5,100.0	5,065.0	5,097.8	5,077.2	13.0	11.4	-138.20	-358.9	-168.1	235.0	213.2	21.78	10.788		

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 4G-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 4G-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				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	5,164.2	5,197.7	5,176.6	13.3	11.6	-138.12	-368.0	-172.9	240.0	217.8	22.25	10.785		
5,300.0	5,263.3	5,297.5	5,275.9	13.6	11.9	-138.04	-377.1	-177.6	245.1	222.3	22.73	10.782		
5,400.0	5,362.5	5,397.4	5,375.3	13.9	12.1	-137.96	-386.1	-182.4	250.1	226.9	23.20	10.779		
5,500.0	5,461.6	5,497.3	5,474.6	14.2	12.4	-137.89	-395.2	-187.1	255.2	231.5	23.68	10.776		
5,600.0	5,560.7	5,597.1	5,573.9	14.5	12.6	-137.82	-404.3	-191.9	260.2	236.1	24.15	10.773		
5,700.0	5,659.9	5,697.0	5,673.3	14.8	12.9	-137.75	-413.4	-196.6	265.3	240.6	24.63	10.771		
5,800.0	5,759.0	5,796.9	5,772.6	15.0	13.1	-137.69	-422.4	-201.4	270.3	245.2	25.10	10.768		
5,900.0	5,858.1	5,896.8	5,872.0	15.3	13.4	-137.62	-431.5	-206.1	275.4	249.8	25.58	10.765		
6,000.0	5,957.3	5,996.6	5,971.3	15.6	13.6	-137.56	-440.6	-210.9	280.4	254.4	26.06	10.763		
6,100.0	6,056.4	6,096.5	6,070.7	15.9	13.9	-137.50	-449.7	-215.6	285.5	258.9	26.53	10.760		
6,200.0	6,155.5	6,196.4	6,170.0	16.2	14.1	-137.45	-458.7	-220.4	290.5	263.5	27.01	10.758		
6,300.0	6,254.7	6,296.3	6,269.4	16.5	14.4	-137.39	-467.8	-225.1	295.6	268.1	27.48	10.755		
6,400.0	6,353.8	6,396.1	6,368.7	16.8	14.6	-137.34	-476.9	-229.9	300.6	272.7	27.96	10.753		
6,500.0	6,453.0	6,496.0	6,468.1	17.1	14.9	-137.29	-485.9	-234.6	305.7	277.3	28.44	10.751		
6,600.0	6,552.1	6,595.9	6,567.4	17.3	15.1	-137.24	-495.0	-239.4	310.7	281.8	28.91	10.748		
6,700.0	6,651.2	6,695.7	6,666.7	17.6	15.4	-137.19	-504.1	-244.1	315.8	286.4	29.39	10.746		
6,800.0	6,750.4	6,795.6	6,766.1	17.9	15.6	-137.15	-513.2	-248.9	320.9	291.0	29.86	10.744		
6,900.0	6,849.5	6,895.3	6,865.5	18.2	15.8	-138.22	-515.9	-253.6	325.9	295.9	30.06	10.842		
7,000.0	6,948.8	6,991.5	6,960.5	18.4	15.7	153.81	-502.3	-257.8	331.7	302.1	29.62	11.200		
7,100.0	7,047.4	7,084.8	7,049.3	18.5	15.6	108.15	-474.1	-261.6	338.6	309.7	28.92	11.708		
7,200.0	7,142.2	7,175.7	7,130.3	18.4	15.3	94.88	-433.1	-264.9	346.1	318.0	28.15	12.295		
7,300.0	7,230.5	7,264.7	7,202.3	18.3	15.0	88.07	-381.1	-267.6	353.8	326.4	27.42	12.905		
7,400.0	7,309.4	7,350.0	7,263.0	18.0	14.7	83.69	-321.3	-269.8	361.2	334.4	26.79	13.481		
7,500.0	7,376.7	7,438.2	7,315.8	17.8	14.5	80.57	-250.8	-271.4	368.0	341.6	26.32	13.981		
7,600.0	7,430.2	7,523.4	7,355.9	17.7	14.3	78.42	-175.7	-272.3	373.7	347.6	26.05	14.345		
7,700.0	7,468.4	7,608.0	7,384.3	17.6	14.2	77.03	-96.2	-272.7	378.1	352.1	26.00	14.538		
7,800.0	7,490.0	7,692.1	7,400.7	17.7	14.3	76.33	-13.7	-272.4	381.0	354.7	26.21	14.533		
7,900.0	7,495.0	7,778.8	7,405.0	17.9	14.5	76.23	72.9	-271.6	382.4	355.6	26.72	14.310		
8,000.0	7,495.0	7,878.8	7,405.0	18.3	15.0	76.27	172.8	-270.3	383.5	355.8	27.71	13.842		
8,100.0	7,495.0	7,978.8	7,405.0	18.8	15.6	76.32	272.8	-269.1	384.7	355.7	29.05	13.242		
8,200.0	7,495.0	8,078.8	7,405.0	19.5	16.4	76.36	372.8	-267.9	385.9	355.2	30.72	12.562		
8,300.0	7,495.0	8,178.8	7,405.0	20.3	17.4	76.40	472.8	-266.7	387.1	354.4	32.66	11.852		
8,400.0	7,495.0	8,278.8	7,405.0	21.2	18.4	76.45	572.8	-265.5	388.3	353.5	34.83	11.148		
8,500.0	7,495.0	8,378.8	7,405.0	22.2	19.6	76.49	672.8	-264.2	389.5	352.3	37.19	10.474		
8,600.0	7,495.0	8,478.8	7,405.0	23.4	20.8	76.53	772.8	-263.0	390.7	351.0	39.70	9.841		
8,700.0	7,495.0	8,578.8	7,405.0	24.5	22.2	76.57	872.7	-261.8	391.9	349.5	42.34	9.255		
8,800.0	7,495.0	8,678.8	7,405.0	25.8	23.5	76.61	972.7	-260.6	393.0	348.0	45.08	8.718		
8,900.0	7,495.0	8,778.8	7,405.0	27.1	24.9	76.65	1,072.7	-259.4	394.2	346.3	47.92	8.228		
9,000.0	7,495.0	8,878.8	7,405.0	28.5	26.4	76.69	1,172.7	-258.1	395.4	344.6	50.82	7.781		
9,100.0	7,495.0	8,978.8	7,405.0	29.9	27.9	76.73	1,272.7	-256.9	396.6	342.8	53.79	7.373		
9,200.0	7,495.0	9,078.8	7,405.0	31.3	29.4	76.78	1,372.7	-255.7	397.8	341.0	56.81	7.002		
9,300.0	7,495.0	9,178.7	7,405.0	32.8	31.0	76.82	1,472.6	-254.5	399.0	339.1	59.87	6.664		
9,400.0	7,495.0	9,278.7	7,405.0	34.3	32.5	76.86	1,572.6	-253.2	400.2	337.2	62.98	6.355		
9,500.0	7,495.0	9,378.7	7,405.0	35.8	34.1	76.89	1,672.6	-252.0	401.4	335.3	66.11	6.071		
9,600.0	7,495.0	9,478.7	7,405.0	37.3	35.7	76.93	1,772.6	-250.8	402.6	333.3	69.27	5.811		
9,700.0	7,495.0	9,578.7	7,405.0	38.9	37.3	76.97	1,872.6	-249.6	403.7	331.3	72.46	5.572		
9,800.0	7,495.0	9,678.7	7,405.0	40.4	39.0	77.01	1,972.6	-248.4	404.9	329.3	75.67	5.351		
9,900.0	7,495.0	9,778.7	7,405.0	42.0	40.6	77.05	2,072.6	-247.1	406.1	327.2	78.90	5.147		
10,000.0	7,495.0	9,878.7	7,405.0	43.6	42.2	77.09	2,172.5	-245.9	407.3	325.2	82.15	4.958		
10,100.0	7,495.0	9,978.7	7,405.0	45.2	43.9	77.13	2,272.5	-244.7	408.5	323.1	85.41	4.783		
10,200.0	7,495.0	10,078.7	7,405.0	46.9	45.6	77.17	2,372.5	-243.5	409.7	321.0	88.69	4.620		
10,300.0	7,495.0	10,178.7	7,405.0	48.5	47.2	77.20	2,472.5	-242.3	410.9	318.9	91.97	4.467		

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 4G-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 4G-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				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	7,495.0	10,278.7	7,405.0	50.1	48.9	77.24	2,572.5	-241.0	412.1	316.8	95.27	4.325		
10,500.0	7,495.0	10,378.7	7,405.0	51.8	50.6	77.28	2,672.5	-239.8	413.3	314.7	98.58	4.192		
10,600.0	7,495.0	10,478.6	7,405.0	53.4	52.3	77.32	2,772.5	-238.6	414.5	312.6	101.90	4.067		
10,700.0	7,495.0	10,578.6	7,405.0	55.1	54.0	77.35	2,872.4	-237.4	415.7	310.4	105.23	3.950		
10,800.0	7,495.0	10,678.6	7,405.0	56.8	55.7	77.39	2,972.4	-236.1	416.9	308.3	108.56	3.840		
10,900.0	7,495.0	10,778.6	7,405.0	58.4	57.4	77.43	3,072.4	-234.9	418.0	306.1	111.90	3.736		
11,000.0	7,495.0	10,878.6	7,405.0	60.1	59.1	77.46	3,172.4	-233.7	419.2	304.0	115.25	3.638		
11,100.0	7,495.0	10,978.6	7,405.0	61.8	60.8	77.50	3,272.4	-232.5	420.4	301.8	118.61	3.545		
11,200.0	7,495.0	11,078.6	7,405.0	63.5	62.5	77.53	3,372.4	-231.3	421.6	299.7	121.97	3.457		
11,300.0	7,495.0	11,178.6	7,405.0	65.1	64.2	77.57	3,472.3	-230.0	422.8	297.5	125.33	3.374		
11,400.0	7,495.0	11,278.6	7,405.0	66.8	65.9	77.61	3,572.3	-228.8	424.0	295.3	128.70	3.295		
11,500.0	7,495.0	11,378.6	7,405.0	68.5	67.6	77.64	3,672.3	-227.6	425.2	293.1	132.08	3.219		
11,600.0	7,495.0	11,478.6	7,405.0	70.2	69.3	77.68	3,772.3	-226.4	426.4	290.9	135.45	3.148		
11,700.0	7,495.0	11,578.6	7,405.0	71.9	71.0	77.71	3,872.3	-225.2	427.6	288.8	138.84	3.080		
11,800.0	7,495.0	11,678.6	7,405.0	73.6	72.7	77.75	3,972.3	-223.9	428.8	286.6	142.22	3.015		
11,900.0	7,495.0	11,778.5	7,405.0	75.3	74.5	77.78	4,072.3	-222.7	430.0	284.4	145.61	2.953		
12,000.0	7,495.0	11,878.5	7,405.0	77.0	76.2	77.82	4,172.2	-221.5	431.2	282.2	149.01	2.894		
12,100.0	7,495.0	11,978.5	7,405.0	78.8	77.9	77.85	4,272.2	-220.3	432.4	280.0	152.40	2.837		
12,200.0	7,495.0	12,078.5	7,405.0	80.5	79.6	77.88	4,372.2	-219.0	433.6	277.8	155.80	2.783		
12,300.0	7,495.0	12,178.5	7,405.0	82.2	81.4	77.92	4,472.2	-217.8	434.8	275.5	159.20	2.731		
12,400.0	7,495.0	12,278.5	7,405.0	83.9	83.1	77.95	4,572.2	-216.6	435.9	273.3	162.61	2.681		
12,500.0	7,495.0	12,378.5	7,405.0	85.6	84.8	77.98	4,672.2	-215.4	437.1	271.1	166.02	2.633		
12,600.0	7,495.0	12,478.5	7,405.0	87.3	86.6	78.02	4,772.2	-214.2	438.3	268.9	169.43	2.587		
12,700.0	7,495.0	12,578.5	7,405.0	89.0	88.3	78.05	4,872.1	-212.9	439.5	266.7	172.84	2.543		
12,800.0	7,495.0	12,678.5	7,405.0	90.8	90.0	78.08	4,972.1	-211.7	440.7	264.5	176.25	2.501		
12,900.0	7,495.0	12,778.5	7,405.0	92.5	91.7	78.12	5,072.1	-210.5	441.9	262.3	179.67	2.460		
13,000.0	7,495.0	12,878.5	7,405.0	94.2	93.5	78.15	5,172.1	-209.3	443.1	260.0	183.09	2.420		
13,100.0	7,495.0	12,978.5	7,405.0	95.9	95.2	78.18	5,272.1	-208.1	444.3	257.8	186.51	2.382		
13,200.0	7,495.0	13,078.5	7,405.0	97.7	96.9	78.21	5,372.1	-206.8	445.5	255.6	189.93	2.346		
13,300.0	7,495.0	13,178.4	7,405.0	99.4	98.7	78.24	5,472.1	-205.6	446.7	253.4	193.36	2.310		
13,400.0	7,495.0	13,278.4	7,405.0	101.1	100.4	78.28	5,572.0	-204.4	447.9	251.1	196.78	2.276		
13,500.0	7,495.0	13,378.4	7,405.0	102.8	102.2	78.31	5,672.0	-203.2	449.1	248.9	200.21	2.243		
13,600.0	7,495.0	13,478.4	7,405.0	104.6	103.9	78.34	5,772.0	-201.9	450.3	246.7	203.64	2.211		
13,700.0	7,495.0	13,578.4	7,405.0	106.3	105.6	78.37	5,872.0	-200.7	451.5	244.4	207.07	2.180		
13,800.0	7,495.0	13,678.4	7,405.0	108.0	107.4	78.40	5,972.0	-199.5	452.7	242.2	210.50	2.151		
13,900.0	7,495.0	13,778.4	7,405.0	109.8	109.1	78.43	6,072.0	-198.3	453.9	239.9	213.94	2.122		
14,000.0	7,495.0	13,878.4	7,405.0	111.5	110.8	78.46	6,171.9	-197.1	455.1	237.7	217.37	2.094		
14,100.0	7,495.0	13,978.4	7,405.0	113.2	112.6	78.49	6,271.9	-195.8	456.3	235.5	220.81	2.066		
14,200.0	7,495.0	14,078.4	7,405.0	115.0	114.3	78.53	6,371.9	-194.6	457.5	233.2	224.24	2.040		
14,300.0	7,495.0	14,178.4	7,405.0	116.7	116.1	78.56	6,471.9	-193.4	458.7	231.0	227.68	2.015 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	29.9	29.9	29.7	0.24	126.096		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	29.9	29.9	29.3	0.59	51.039		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	29.9	29.9	29.0	0.94	31.995		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	29.9	29.9	28.6	1.28	23.300		
500.0	500.0	500.0	500.0	0.8	0.8	90.05	0.0	29.9	29.9	28.3	1.63	18.322		
600.0	600.0	600.0	600.0	1.0	1.0	90.05	0.0	29.9	29.9	27.9	1.98	15.096		
700.0	700.0	700.0	700.0	1.2	1.2	90.05	0.0	29.9	29.9	27.6	2.33	12.836		
800.0	800.0	800.0	800.0	1.3	1.3	90.05	0.0	29.9	29.9	27.3	2.68	11.165 CC, ES		
900.0	900.0	900.0	900.0	1.5	1.5	-140.40	0.0	29.9	31.3	28.2	3.03	10.316		
1,000.0	999.8	999.8	999.8	1.7	1.7	-145.75	0.0	29.9	35.4	32.1	3.38	10.492		
1,100.0	1,099.5	1,099.5	1,099.5	1.9	1.9	-152.24	0.0	29.9	42.9	39.2	3.73	11.525		
1,200.0	1,198.7	1,199.0	1,199.0	2.1	2.0	-156.37	-1.7	30.2	53.7	49.6	4.07	13.175		
1,300.0	1,297.9	1,298.7	1,298.5	2.4	2.2	-156.47	-6.8	31.1	65.0	60.5	4.44	14.635		
1,400.0	1,397.0	1,398.2	1,397.7	2.6	2.4	-154.08	-15.1	32.6	75.8	71.0	4.82	15.722		
1,500.0	1,496.1	1,497.6	1,496.6	2.9	2.6	-151.79	-24.2	34.2	86.8	81.5	5.22	16.610		
1,600.0	1,595.3	1,596.9	1,595.6	3.1	2.8	-150.01	-33.2	35.8	97.8	92.2	5.63	17.359		
1,700.0	1,694.4	1,696.3	1,694.5	3.4	3.0	-148.59	-42.3	37.4	108.9	102.9	6.05	17.993		
1,800.0	1,793.5	1,795.6	1,793.4	3.7	3.2	-147.44	-51.3	38.9	120.1	113.6	6.48	18.533		
1,900.0	1,892.7	1,895.0	1,892.3	3.9	3.4	-146.48	-60.4	40.5	131.3	124.4	6.91	18.997		
2,000.0	1,991.8	1,994.3	1,991.3	4.2	3.7	-145.67	-69.4	42.1	142.5	135.1	7.35	19.398		
2,100.0	2,090.9	2,093.7	2,090.2	4.5	3.9	-144.98	-78.4	43.7	153.7	146.0	7.79	19.748		
2,200.0	2,190.1	2,193.0	2,189.1	4.8	4.1	-144.39	-87.5	45.3	165.0	156.8	8.23	20.055		
2,300.0	2,289.2	2,292.4	2,288.0	5.0	4.3	-143.87	-96.5	46.9	176.3	167.6	8.67	20.325		
2,400.0	2,388.4	2,391.7	2,386.9	5.3	4.6	-143.41	-105.6	48.5	187.6	178.5	9.12	20.565		
2,500.0	2,487.5	2,491.1	2,485.9	5.6	4.8	-143.01	-114.6	50.1	198.9	189.4	9.57	20.780		
2,600.0	2,586.6	2,590.4	2,584.8	5.9	5.0	-142.65	-123.7	51.7	210.2	200.2	10.02	20.972		
2,700.0	2,685.8	2,689.8	2,683.7	6.2	5.2	-142.32	-132.7	53.2	221.6	211.1	10.48	21.146		
2,800.0	2,784.9	2,789.1	2,782.6	6.5	5.5	-142.03	-141.8	54.8	232.9	222.0	10.93	21.303		
2,900.0	2,884.0	2,888.5	2,881.6	6.7	5.7	-141.76	-150.8	56.4	244.2	232.9	11.39	21.446		
3,000.0	2,983.2	2,987.8	2,980.5	7.0	5.9	-141.52	-159.9	58.0	255.6	243.7	11.85	21.577		
3,100.0	3,082.3	3,087.2	3,079.4	7.3	6.2	-141.30	-168.9	59.6	266.9	254.6	12.30	21.696		
3,200.0	3,181.4	3,186.5	3,178.3	7.6	6.4	-141.10	-178.0	61.2	278.3	265.5	12.76	21.806		
3,300.0	3,280.6	3,285.9	3,277.3	7.9	6.6	-140.91	-187.0	62.8	289.6	276.4	13.22	21.907		
3,400.0	3,379.7	3,385.2	3,376.2	8.2	6.8	-140.74	-196.1	64.4	301.0	287.3	13.68	22.001		
3,500.0	3,478.9	3,484.6	3,475.1	8.4	7.1	-140.58	-205.1	66.0	312.4	298.2	14.14	22.088		
3,600.0	3,578.0	3,583.9	3,574.0	8.7	7.3	-140.43	-214.2	67.6	323.7	309.1	14.60	22.168		
3,700.0	3,677.1	3,683.3	3,673.0	9.0	7.5	-140.29	-223.2	69.1	335.1	320.0	15.06	22.243		
3,800.0	3,776.3	3,782.6	3,771.9	9.3	7.8	-140.16	-232.3	70.7	346.5	330.9	15.53	22.314		
3,900.0	3,875.4	3,882.0	3,870.8	9.6	8.0	-140.03	-241.3	72.3	357.8	341.8	15.99	22.379		
4,000.0	3,974.5	3,981.3	3,969.7	9.9	8.2	-139.92	-250.3	73.9	369.2	352.7	16.45	22.441		
4,100.0	4,073.7	4,080.7	4,068.6	10.2	8.5	-139.81	-259.4	75.5	380.6	363.7	16.92	22.499		
4,200.0	4,172.8	4,180.0	4,167.6	10.4	8.7	-139.71	-268.4	77.1	391.9	374.6	17.38	22.553		
4,300.0	4,271.9	4,279.4	4,266.5	10.7	8.9	-139.62	-277.5	78.7	403.3	385.5	17.84	22.604		
4,400.0	4,371.1	4,378.7	4,365.4	11.0	9.2	-139.53	-286.5	80.3	414.7	396.4	18.31	22.653		
4,500.0	4,470.2	4,478.1	4,464.3	11.3	9.4	-139.44	-295.6	81.9	426.1	407.3	18.77	22.699		
4,600.0	4,569.4	4,577.4	4,563.3	11.6	9.6	-139.36	-304.6	83.5	437.4	418.2	19.23	22.742		
4,700.0	4,668.5	4,676.8	4,662.2	11.9	9.9	-139.28	-313.7	85.0	448.8	429.1	19.70	22.783		
4,800.0	4,767.6	4,776.1	4,761.1	12.2	10.1	-139.21	-322.7	86.6	460.2	440.0	20.16	22.822		
4,900.0	4,866.8	4,875.4	4,860.0	12.5	10.3	-139.14	-331.8	88.2	471.6	450.9	20.63	22.859		
5,000.0	4,965.9	4,974.8	4,959.0	12.7	10.6	-139.07	-340.8	89.8	483.0	461.9	21.09	22.895		
5,100.0	5,065.0	5,074.1	5,057.9	13.0	10.8	-139.01	-349.9	91.4	494.3	472.8	21.56	22.928		

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 4G-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 4G-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						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	5,164.2	5,173.5	5,156.8	13.3	11.0	-138.95	-358.9	93.0	505.7	483.7	22.03	22.961		
5,300.0	5,263.3	5,272.8	5,255.7	13.6	11.3	-138.89	-368.0	94.6	517.1	494.6	22.49	22.991		
5,400.0	5,362.5	5,372.2	5,354.6	13.9	11.5	-138.84	-377.0	96.2	528.5	505.5	22.96	23.021		
5,500.0	5,461.6	5,471.5	5,453.6	14.2	11.7	-138.78	-386.1	97.8	539.9	516.4	23.42	23.049		
5,600.0	5,560.7	5,570.9	5,552.5	14.5	12.0	-138.73	-395.1	99.4	551.2	527.4	23.89	23.076		
5,700.0	5,659.9	5,670.2	5,651.4	14.8	12.2	-138.68	-404.2	100.9	562.6	538.3	24.35	23.101		
5,800.0	5,759.0	5,769.6	5,750.3	15.0	12.4	-138.64	-413.2	102.5	574.0	549.2	24.82	23.126		
5,900.0	5,858.1	5,868.9	5,849.3	15.3	12.7	-138.59	-422.3	104.1	585.4	560.1	25.29	23.150		
6,000.0	5,957.3	5,968.3	5,948.2	15.6	12.9	-138.55	-431.3	105.7	596.8	571.0	25.75	23.173		
6,100.0	6,056.4	6,067.6	6,047.1	15.9	13.2	-138.51	-440.3	107.3	608.2	581.9	26.22	23.194		
6,200.0	6,155.5	6,167.0	6,146.0	16.2	13.4	-138.47	-449.4	108.9	619.5	592.9	26.69	23.216		
6,300.0	6,254.7	6,266.3	6,245.0	16.5	13.6	-138.43	-458.4	110.5	630.9	603.8	27.15	23.236		
6,400.0	6,353.8	6,365.7	6,343.9	16.8	13.9	-138.39	-467.5	112.1	642.3	614.7	27.62	23.255		
6,500.0	6,453.0	6,465.0	6,442.8	17.1	14.1	-138.35	-476.5	113.7	653.7	625.6	28.09	23.274		
6,600.0	6,552.1	6,564.4	6,541.7	17.3	14.3	-138.32	-485.6	115.3	665.1	636.5	28.55	23.293		
6,700.0	6,651.2	6,663.7	6,640.7	17.6	14.6	-138.29	-494.6	116.8	676.5	647.4	29.02	23.310		
6,800.0	6,750.4	6,763.1	6,739.6	17.9	14.8	-138.25	-503.7	118.4	687.9	658.4	29.49	23.327		
6,900.0	6,849.5	6,862.4	6,838.5	18.2	15.0	-138.22	-512.7	120.0	699.2	669.3	29.95	23.344		
7,000.0	6,948.8	6,961.8	6,937.7	18.4	15.2	156.51	-517.8	121.6	710.6	680.4	30.20	23.534		
7,100.0	7,047.4	7,061.5	7,036.6	18.5	15.2	113.29	-506.4	123.1	721.9	691.8	30.06	24.013		
7,200.0	7,142.2	7,161.5	7,132.3	18.4	15.0	102.19	-478.0	124.5	732.7	703.0	29.65	24.714		
7,300.0	7,230.5	7,262.0	7,222.0	18.3	14.7	97.24	-433.2	125.8	742.6	713.6	29.03	25.582		
7,400.0	7,309.4	7,362.8	7,302.9	18.0	14.3	94.37	-373.1	126.8	751.5	723.1	28.32	26.538		
7,500.0	7,376.7	7,464.1	7,372.2	17.8	14.0	92.51	-299.5	127.7	758.9	731.3	27.64	27.461		
7,600.0	7,430.2	7,565.7	7,427.7	17.7	13.7	91.27	-214.5	128.3	764.8	737.7	27.12	28.198		
7,700.0	7,468.4	7,667.6	7,467.4	17.6	13.6	90.49	-120.8	128.6	768.8	741.9	26.90	28.584		
7,800.0	7,490.0	7,769.7	7,489.9	17.7	13.6	90.08	-21.3	128.6	771.0	743.9	27.06	28.496		
7,900.0	7,495.0	7,871.3	7,495.0	17.9	13.9	90.00	80.1	128.3	771.2	743.6	27.63	27.908		
8,000.0	7,495.0	7,971.3	7,495.0	18.3	14.4	90.00	180.1	127.9	770.9	742.2	28.64	26.913		
8,100.0	7,495.0	8,071.3	7,495.0	18.8	15.1	90.00	280.1	127.6	770.5	740.5	30.02	25.669		
8,200.0	7,495.0	8,171.3	7,495.0	19.5	16.0	90.00	380.1	127.2	770.2	738.4	31.72	24.279		
8,300.0	7,495.0	8,271.3	7,495.0	20.3	16.9	90.00	480.1	126.9	769.8	736.1	33.70	22.840		
8,400.0	7,495.0	8,371.3	7,495.0	21.2	18.0	90.00	580.1	126.5	769.5	733.5	35.92	21.420		
8,500.0	7,495.0	8,471.3	7,495.0	22.2	19.2	90.00	680.1	126.2	769.1	730.8	38.33	20.064		
8,600.0	7,495.0	8,571.3	7,495.0	23.4	20.5	90.00	780.1	125.8	768.8	727.9	40.90	18.794		
8,700.0	7,495.0	8,671.3	7,495.0	24.5	21.9	90.00	880.1	125.5	768.4	724.8	43.61	17.622		
8,800.0	7,495.0	8,771.3	7,495.0	25.8	23.3	90.00	980.1	125.1	768.1	721.7	46.42	16.548		
8,900.0	7,495.0	8,871.3	7,495.0	27.1	24.7	90.00	1,080.1	124.8	767.7	718.4	49.31	15.568		
9,000.0	7,495.0	8,971.3	7,495.0	28.5	26.2	90.00	1,180.1	124.5	767.4	715.1	52.29	14.676		
9,100.0	7,495.0	9,071.3	7,495.0	29.9	27.7	90.00	1,280.1	124.1	767.0	711.7	55.33	13.864		
9,200.0	7,495.0	9,171.3	7,495.0	31.3	29.3	90.00	1,380.1	123.8	766.7	708.3	58.41	13.125		
9,300.0	7,495.0	9,271.3	7,495.0	32.8	30.8	90.00	1,480.1	123.4	766.3	704.8	61.55	12.451		
9,400.0	7,495.0	9,371.3	7,495.0	34.3	32.4	90.00	1,580.1	123.1	766.0	701.3	64.72	11.835		
9,500.0	7,495.0	9,471.3	7,495.0	35.8	34.0	90.00	1,680.1	122.7	765.6	697.7	67.93	11.271		
9,600.0	7,495.0	9,571.3	7,495.0	37.3	35.6	90.00	1,780.1	122.4	765.3	694.1	71.16	10.754		
9,700.0	7,495.0	9,671.3	7,495.0	38.9	37.3	90.00	1,880.1	122.0	764.9	690.5	74.42	10.278		
9,800.0	7,495.0	9,771.3	7,495.0	40.4	38.9	90.00	1,980.1	121.7	764.6	686.9	77.70	9.840		
9,900.0	7,495.0	9,871.3	7,495.0	42.0	40.5	90.00	2,080.1	121.3	764.2	683.2	81.00	9.435		
10,000.0	7,495.0	9,971.3	7,495.0	43.6	42.2	90.00	2,180.1	121.0	763.9	679.6	84.32	9.059		
10,100.0	7,495.0	10,071.3	7,495.0	45.2	43.9	90.00	2,280.1	120.6	763.5	675.9	87.65	8.711		
10,200.0	7,495.0	10,171.3	7,495.0	46.9	45.5	90.00	2,380.1	120.3	763.2	672.2	91.00	8.387		
10,300.0	7,495.0	10,271.3	7,495.0	48.5	47.2	90.00	2,480.1	119.9	762.8	668.5	94.35	8.085		

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 4G-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 4G-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				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)			Total Uncertainty Axis	
10,400.0	7,495.0	10,371.3	7,495.0	50.1	48.9	90.00	2,580.1	119.6	762.5	664.8	97.72	7.803		
10,500.0	7,495.0	10,471.3	7,495.0	51.8	50.6	90.00	2,680.1	119.2	762.1	661.0	101.10	7.539		
10,600.0	7,495.0	10,571.3	7,495.0	53.4	52.3	90.00	2,780.1	118.9	761.8	657.3	104.48	7.291		
10,700.0	7,495.0	10,671.3	7,495.0	55.1	54.0	90.00	2,880.1	118.5	761.4	653.6	107.88	7.058		
10,800.0	7,495.0	10,771.3	7,495.0	56.8	55.7	90.00	2,980.1	118.2	761.1	649.8	111.28	6.840		
10,900.0	7,495.0	10,871.3	7,495.0	58.4	57.4	90.00	3,080.0	117.8	760.7	646.1	114.68	6.633		
11,000.0	7,495.0	10,971.3	7,495.0	60.1	59.1	90.00	3,180.0	117.5	760.4	642.3	118.10	6.439		
11,100.0	7,495.0	11,071.3	7,495.0	61.8	60.8	90.00	3,280.0	117.1	760.0	638.5	121.51	6.255		
11,200.0	7,495.0	11,171.3	7,495.0	63.5	62.5	90.00	3,380.0	116.8	759.7	634.7	124.94	6.081		
11,300.0	7,495.0	11,271.3	7,495.0	65.1	64.2	90.00	3,480.0	116.4	759.3	631.0	128.37	5.915		
11,400.0	7,495.0	11,371.3	7,495.0	66.8	65.9	90.00	3,580.0	116.1	759.0	627.2	131.80	5.759		
11,500.0	7,495.0	11,471.3	7,495.0	68.5	67.7	90.00	3,680.0	115.7	758.6	623.4	135.23	5.610		
11,600.0	7,495.0	11,571.3	7,495.0	70.2	69.4	90.00	3,780.0	115.4	758.3	619.6	138.67	5.468		
11,700.0	7,495.0	11,671.3	7,495.0	71.9	71.1	90.00	3,880.0	115.0	757.9	615.8	142.12	5.333		
11,800.0	7,495.0	11,771.3	7,495.0	73.6	72.8	90.00	3,980.0	114.7	757.6	612.0	145.56	5.205		
11,900.0	7,495.0	11,871.3	7,495.0	75.3	74.5	90.00	4,080.0	114.3	757.2	608.2	149.01	5.082		
12,000.0	7,495.0	11,971.3	7,495.0	77.0	76.3	90.00	4,180.0	114.0	756.9	604.4	152.46	4.964		
12,100.0	7,495.0	12,071.3	7,495.0	78.8	78.0	90.00	4,280.0	113.6	756.5	600.6	155.92	4.852		
12,200.0	7,495.0	12,171.3	7,495.0	80.5	79.7	90.00	4,380.0	113.3	756.2	596.8	159.37	4.745		
12,300.0	7,495.0	12,271.3	7,495.0	82.2	81.4	90.00	4,480.0	112.9	755.8	593.0	162.83	4.642		
12,400.0	7,495.0	12,371.3	7,495.0	83.9	83.2	90.00	4,580.0	112.6	755.5	589.2	166.29	4.543		
12,500.0	7,495.0	12,471.3	7,495.0	85.6	84.9	90.00	4,680.0	112.2	755.1	585.4	169.76	4.448		
12,600.0	7,495.0	12,571.3	7,495.0	87.3	86.6	90.00	4,780.0	111.9	754.8	581.6	173.22	4.357		
12,700.0	7,495.0	12,671.3	7,495.0	89.0	88.4	90.00	4,880.0	111.5	754.4	577.8	176.69	4.270		
12,800.0	7,495.0	12,771.3	7,495.0	90.8	90.1	90.00	4,980.0	111.2	754.1	573.9	180.15	4.186		
12,900.0	7,495.0	12,871.3	7,495.0	92.5	91.8	90.00	5,080.0	110.8	753.8	570.1	183.62	4.105		
13,000.0	7,495.0	12,971.3	7,495.0	94.2	93.6	90.00	5,180.0	110.5	753.4	566.3	187.09	4.027		
13,100.0	7,495.0	13,071.3	7,495.0	95.9	95.3	90.00	5,280.0	110.1	753.1	562.5	190.57	3.952		
13,200.0	7,495.0	13,177.4	7,495.0	97.7	97.2	90.00	5,386.1	109.6	752.5	558.4	194.15	3.876		
13,300.0	7,495.0	13,292.4	7,495.0	99.4	99.2	90.00	5,501.1	107.1	750.4	552.5	197.88	3.792		
13,400.0	7,495.0	13,407.4	7,495.0	101.1	101.1	90.00	5,615.9	102.3	746.2	544.6	201.62	3.701		
13,500.0	7,495.0	13,514.6	7,495.0	102.8	103.0	90.00	5,723.0	96.0	740.3	535.1	205.22	3.607		
13,600.0	7,495.0	13,614.4	7,495.0	104.6	104.7	90.00	5,822.7	89.8	734.1	525.5	208.69	3.518		
13,700.0	7,495.0	13,714.3	7,495.0	106.3	106.5	90.00	5,922.3	83.7	728.0	515.8	212.16	3.431		
13,800.0	7,495.0	13,814.1	7,495.0	108.0	108.2	90.00	6,021.9	77.5	721.8	506.2	215.64	3.347		
13,900.0	7,495.0	13,913.9	7,495.0	109.8	109.9	90.00	6,121.5	71.4	715.6	496.5	219.11	3.266		
14,000.0	7,495.0	14,013.7	7,495.0	111.5	111.7	90.00	6,221.1	65.2	709.5	486.9	222.59	3.187		
14,100.0	7,495.0	14,113.5	7,495.0	113.2	113.4	90.00	6,320.8	59.1	703.3	477.2	226.06	3.111		
14,200.0	7,495.0	14,213.3	7,495.0	115.0	115.1	90.00	6,420.4	52.9	697.1	467.6	229.54	3.037		
14,300.0	7,495.0	14,313.1	7,495.0	116.7	116.9	90.00	6,520.0	46.7	691.0	458.0	233.02	2.965 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	40.0	40.0	39.8	0.24	168.521		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	40.0	40.0	39.4	0.59	68.211		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	40.0	40.0	39.1	0.94	42.759		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	40.0	40.0	38.7	1.28	31.140		
500.0	500.0	500.0	500.0	0.8	0.8	90.05	0.0	40.0	40.0	38.4	1.63	24.486		
600.0	600.0	600.0	600.0	1.0	1.0	90.05	0.0	40.0	40.0	38.0	1.98	20.175		
700.0	700.0	700.0	700.0	1.2	1.2	90.05	0.0	40.0	40.0	37.7	2.33	17.155		
800.0	800.0	800.0	800.0	1.3	1.3	90.05	0.0	40.0	40.0	37.3	2.68	14.921 CC, ES		
900.0	900.0	900.0	900.0	1.5	1.5	-139.88	0.0	40.0	41.3	38.3	3.03	13.639		
1,000.0	999.8	999.8	999.8	1.7	1.7	-144.09	0.0	40.0	45.4	42.1	3.38	13.451		
1,100.0	1,099.5	1,099.1	1,099.1	1.9	1.9	-147.72	-1.6	40.6	53.1	49.3	3.73	14.233		
1,200.0	1,198.7	1,198.1	1,197.9	2.1	2.0	-148.86	-6.4	42.5	64.4	60.3	4.09	15.735		
1,300.0	1,297.9	1,296.9	1,296.4	2.4	2.2	-147.69	-14.3	45.5	77.1	72.7	4.47	17.236		
1,400.0	1,397.0	1,396.1	1,395.1	2.6	2.4	-146.30	-22.9	48.8	90.1	85.2	4.87	18.486		
1,500.0	1,496.1	1,495.2	1,493.8	2.9	2.6	-145.26	-31.6	52.1	103.1	97.8	5.28	19.518		
1,600.0	1,595.3	1,594.3	1,592.5	3.1	2.8	-144.46	-40.3	55.5	116.2	110.5	5.70	20.378		
1,700.0	1,694.4	1,693.5	1,691.2	3.4	3.1	-143.82	-48.9	58.8	129.2	123.1	6.12	21.103		
1,800.0	1,793.5	1,792.6	1,789.9	3.7	3.3	-143.29	-57.6	62.1	142.3	135.8	6.55	21.718		
1,900.0	1,892.7	1,891.7	1,888.6	3.9	3.5	-142.85	-66.3	65.5	155.4	148.4	6.99	22.247		
2,000.0	1,991.8	1,990.9	1,987.3	4.2	3.7	-142.49	-75.0	68.8	168.5	161.1	7.42	22.704		
2,100.0	2,090.9	2,090.0	2,086.0	4.5	3.9	-142.17	-83.6	72.1	181.6	173.7	7.86	23.103		
2,200.0	2,190.1	2,189.1	2,184.7	4.8	4.2	-141.90	-92.3	75.4	194.7	186.4	8.30	23.453		
2,300.0	2,289.2	2,288.3	2,283.4	5.0	4.4	-141.66	-101.0	78.8	207.8	199.1	8.74	23.763		
2,400.0	2,388.4	2,387.4	2,382.1	5.3	4.6	-141.45	-109.6	82.1	220.9	211.7	9.19	24.039		
2,500.0	2,487.5	2,486.5	2,480.8	5.6	4.9	-141.26	-118.3	85.4	234.0	224.4	9.64	24.286		
2,600.0	2,586.6	2,585.7	2,579.5	5.9	5.1	-141.09	-127.0	88.8	247.1	237.1	10.08	24.508		
2,700.0	2,685.8	2,684.8	2,678.2	6.2	5.3	-140.94	-135.7	92.1	260.3	249.7	10.53	24.709		
2,800.0	2,784.9	2,783.9	2,776.9	6.5	5.5	-140.81	-144.3	95.4	273.4	262.4	10.98	24.891		
2,900.0	2,884.0	2,883.1	2,875.6	6.7	5.8	-140.69	-153.0	98.8	286.5	275.1	11.43	25.057		
3,000.0	2,983.2	2,982.2	2,974.3	7.0	6.0	-140.57	-161.7	102.1	299.6	287.7	11.89	25.209		
3,100.0	3,082.3	3,081.3	3,073.0	7.3	6.2	-140.47	-170.3	105.4	312.8	300.4	12.34	25.348		
3,200.0	3,181.4	3,180.5	3,171.7	7.6	6.5	-140.38	-179.0	108.8	325.9	313.1	12.79	25.477		
3,300.0	3,280.6	3,279.6	3,270.4	7.9	6.7	-140.29	-187.7	112.1	339.0	325.8	13.24	25.595		
3,400.0	3,379.7	3,378.7	3,369.1	8.2	6.9	-140.21	-196.4	115.4	352.1	338.4	13.70	25.705		
3,500.0	3,478.9	3,477.9	3,467.8	8.4	7.2	-140.13	-205.0	118.8	365.3	351.1	14.15	25.807		
3,600.0	3,578.0	3,577.0	3,566.5	8.7	7.4	-140.06	-213.7	122.1	378.4	363.8	14.61	25.902		
3,700.0	3,677.1	3,676.1	3,665.2	9.0	7.6	-140.00	-222.4	125.4	391.5	376.4	15.06	25.991		
3,800.0	3,776.3	3,775.3	3,763.9	9.3	7.9	-139.94	-231.0	128.8	404.6	389.1	15.52	26.074		
3,900.0	3,875.4	3,874.4	3,862.6	9.6	8.1	-139.88	-239.7	132.1	417.8	401.8	15.97	26.152		
4,000.0	3,974.5	3,973.5	3,961.3	9.9	8.3	-139.83	-248.4	135.4	430.9	414.5	16.43	26.225		
4,100.0	4,073.7	4,072.7	4,059.9	10.2	8.6	-139.78	-257.0	138.7	444.0	427.1	16.89	26.293		
4,200.0	4,172.8	4,171.8	4,158.6	10.4	8.8	-139.73	-265.7	142.1	457.2	439.8	17.34	26.358		
4,300.0	4,271.9	4,270.9	4,257.3	10.7	9.0	-139.68	-274.4	145.4	470.3	452.5	17.80	26.419		
4,400.0	4,371.1	4,370.1	4,356.0	11.0	9.3	-139.64	-283.1	148.7	483.4	465.2	18.26	26.477		
4,500.0	4,470.2	4,469.2	4,454.7	11.3	9.5	-139.60	-291.7	152.1	496.5	477.8	18.72	26.531		
4,600.0	4,569.4	4,568.3	4,553.4	11.6	9.8	-139.56	-300.4	155.4	509.7	490.5	19.17	26.583		
4,700.0	4,668.5	4,667.5	4,652.1	11.9	10.0	-139.53	-309.1	158.7	522.8	503.2	19.63	26.632		
4,800.0	4,767.6	4,766.6	4,750.8	12.2	10.2	-139.49	-317.7	162.1	535.9	515.9	20.09	26.679		
4,900.0	4,866.8	4,865.7	4,849.5	12.5	10.5	-139.46	-326.4	165.4	549.1	528.5	20.55	26.723		
5,000.0	4,965.9	4,964.9	4,948.2	12.7	10.7	-139.43	-335.1	168.7	562.2	541.2	21.00	26.766		
5,100.0	5,065.0	5,064.0	5,046.9	13.0	10.9	-139.40	-343.8	172.1	575.3	553.9	21.46	26.806		

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 4G-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 4G-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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,164.2	5,163.2	5,145.6	13.3	11.2	-139.37	-352.4	175.4	588.5	566.5	21.92	26.845		
5,300.0	5,263.3	5,262.3	5,244.3	13.6	11.4	-139.34	-361.1	178.7	601.6	579.2	22.38	26.882		
5,400.0	5,362.5	5,361.4	5,343.0	13.9	11.6	-139.32	-369.8	182.1	614.7	591.9	22.84	26.917		
5,500.0	5,461.6	5,460.6	5,441.7	14.2	11.9	-139.29	-378.4	185.4	627.9	604.6	23.30	26.951		
5,600.0	5,560.7	5,559.7	5,540.4	14.5	12.1	-139.27	-387.1	188.7	641.0	617.2	23.76	26.983		
5,700.0	5,659.9	5,658.8	5,639.1	14.8	12.3	-139.24	-395.8	192.0	654.1	629.9	24.21	27.014		
5,800.0	5,759.0	5,758.0	5,737.8	15.0	12.6	-139.22	-404.5	195.4	667.3	642.6	24.67	27.044		
5,900.0	5,858.1	5,857.1	5,836.5	15.3	12.8	-139.20	-413.1	198.7	680.4	655.3	25.13	27.073		
6,000.0	5,957.3	5,956.2	5,935.2	15.6	13.1	-139.18	-421.8	202.0	693.5	667.9	25.59	27.100		
6,100.0	6,056.4	6,055.4	6,033.9	15.9	13.3	-139.16	-430.5	205.4	706.7	680.6	26.05	27.127		
6,200.0	6,155.5	6,154.5	6,132.6	16.2	13.5	-139.14	-439.1	208.7	719.8	693.3	26.51	27.152		
6,300.0	6,254.7	6,253.6	6,231.3	16.5	13.8	-139.12	-447.8	212.0	732.9	706.0	26.97	27.177		
6,400.0	6,353.8	6,352.8	6,330.0	16.8	14.0	-139.10	-456.5	215.4	746.1	718.6	27.43	27.201		
6,500.0	6,453.0	6,451.9	6,428.7	17.1	14.2	-139.09	-465.2	218.7	759.2	731.3	27.89	27.224		
6,600.0	6,552.1	6,551.0	6,527.4	17.3	14.5	-139.07	-473.8	222.0	772.3	744.0	28.35	27.246		
6,700.0	6,651.2	6,650.2	6,626.1	17.6	14.7	-139.06	-482.5	225.4	785.5	756.6	28.81	27.267		
6,800.0	6,750.4	6,749.3	6,724.8	17.9	14.9	-139.04	-491.2	228.7	798.6	769.3	29.27	27.288		
6,900.0	6,849.5	6,848.4	6,823.5	18.2	15.2	-139.03	-499.8	232.0	811.7	782.0	29.72	27.308		
7,000.0	6,948.8	6,947.3	6,922.0	18.4	15.4	155.83	-508.5	235.3	824.8	794.7	30.06	27.437		
7,100.0	7,047.4	7,044.2	7,018.4	18.5	15.6	113.74	-516.9	238.6	837.9	807.6	30.26	27.685		
7,200.0	7,142.2	7,143.6	7,117.6	18.4	15.7	104.15	-515.0	242.0	851.2	821.1	30.19	28.197		
7,300.0	7,230.5	7,248.6	7,220.4	18.3	15.6	100.66	-494.5	245.4	864.6	834.8	29.81	29.006		
7,400.0	7,309.4	7,360.1	7,323.4	18.0	15.4	99.16	-452.6	248.9	877.5	848.3	29.17	30.079		
7,500.0	7,376.7	7,478.6	7,421.9	17.8	15.0	98.55	-387.1	252.2	889.3	860.9	28.39	31.319		
7,600.0	7,430.2	7,604.4	7,509.4	17.7	14.6	98.37	-297.0	255.2	899.2	871.6	27.64	32.538		
7,700.0	7,468.4	7,737.0	7,577.9	17.6	14.3	98.40	-183.9	257.5	906.7	879.6	27.14	33.414		
7,800.0	7,490.0	7,874.7	7,619.8	17.7	14.2	98.47	-53.1	258.9	911.1	884.0	27.14	33.577		
7,900.0	7,495.0	8,005.8	7,630.0	17.9	14.5	98.51	77.4	259.2	912.2	884.5	27.74	32.885		
8,000.0	7,495.0	8,105.8	7,630.0	18.3	15.0	98.51	177.4	259.2	912.2	883.5	28.72	31.767		
8,100.0	7,495.0	8,205.8	7,630.0	18.8	15.7	98.51	277.4	259.2	912.2	882.1	30.06	30.344		
8,200.0	7,495.0	8,305.8	7,630.0	19.5	16.5	98.51	377.4	259.2	912.2	880.5	31.73	28.746		
8,300.0	7,495.0	8,405.8	7,630.0	20.3	17.5	98.51	477.4	259.2	912.2	878.5	33.68	27.085		
8,400.0	7,495.0	8,505.8	7,630.0	21.2	18.5	98.51	577.4	259.2	912.2	876.3	35.86	25.440		
8,500.0	7,495.0	8,605.8	7,630.0	22.2	19.7	98.51	677.4	259.2	912.2	874.0	38.23	23.863		
8,600.0	7,495.0	8,705.8	7,630.0	23.4	20.9	98.51	777.4	259.2	912.2	871.5	40.75	22.384		
8,700.0	7,495.0	8,805.8	7,630.0	24.5	22.3	98.51	877.4	259.2	912.2	868.8	43.41	21.013		
8,800.0	7,495.0	8,905.8	7,630.0	25.8	23.6	98.51	977.4	259.2	912.2	866.0	46.18	19.755		
8,900.0	7,495.0	9,005.8	7,630.0	27.1	25.1	98.51	1,077.4	259.2	912.2	863.2	49.03	18.605		
9,000.0	7,495.0	9,105.8	7,630.0	28.5	26.5	98.51	1,177.4	259.2	912.2	860.2	51.96	17.555		
9,100.0	7,495.0	9,205.8	7,630.0	29.9	28.0	98.51	1,277.4	259.2	912.2	857.2	54.95	16.599		
9,200.0	7,495.0	9,305.8	7,630.0	31.3	29.6	98.51	1,377.4	259.2	912.2	854.2	58.00	15.728		
9,300.0	7,495.0	9,405.8	7,630.0	32.8	31.1	98.51	1,477.4	259.2	912.2	851.1	61.09	14.932		
9,400.0	7,495.0	9,505.8	7,630.0	34.3	32.7	98.51	1,577.4	259.2	912.2	848.0	64.22	14.204		
9,500.0	7,495.0	9,605.8	7,630.0	35.8	34.3	98.51	1,677.4	259.2	912.2	844.8	67.39	13.537		
9,600.0	7,495.0	9,705.8	7,630.0	37.3	35.9	98.51	1,777.4	259.2	912.2	841.6	70.58	12.925		
9,700.0	7,495.0	9,805.8	7,630.0	38.9	37.5	98.51	1,877.4	259.2	912.2	838.4	73.79	12.361		
9,800.0	7,495.0	9,905.8	7,630.0	40.4	39.1	98.51	1,977.4	259.2	912.2	835.2	77.03	11.842		
9,900.0	7,495.0	10,005.8	7,630.0	42.0	40.8	98.51	2,077.4	259.2	912.2	831.9	80.29	11.361		
10,000.0	7,495.0	10,105.8	7,630.0	43.6	42.4	98.51	2,177.4	259.2	912.2	828.6	83.57	10.916		
10,100.0	7,495.0	10,205.8	7,630.0	45.2	44.1	98.51	2,277.4	259.2	912.2	825.3	86.86	10.502		
10,200.0	7,495.0	10,305.8	7,630.0	46.9	45.7	98.51	2,377.4	259.2	912.2	822.0	90.16	10.117		
10,300.0	7,495.0	10,405.8	7,630.0	48.5	47.4	98.51	2,477.4	259.2	912.2	818.7	93.48	9.758		

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 4G-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 4G-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				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	7,495.0	10,505.8	7,630.0	50.1	49.1	98.51	2,577.4	259.2	912.2	815.4	96.81	9.423		
10,500.0	7,495.0	10,605.8	7,630.0	51.8	50.8	98.51	2,677.4	259.2	912.2	812.1	100.14	9.109		
10,600.0	7,495.0	10,705.8	7,630.0	53.4	52.4	98.51	2,777.4	259.2	912.2	808.7	103.49	8.815		
10,700.0	7,495.0	10,805.8	7,630.0	55.1	54.1	98.51	2,877.4	259.2	912.2	805.4	106.84	8.538		
10,800.0	7,495.0	10,905.8	7,630.0	56.8	55.8	98.51	2,977.4	259.2	912.2	802.0	110.20	8.278		
10,900.0	7,495.0	11,005.8	7,630.0	58.4	57.5	98.51	3,077.4	259.2	912.2	798.6	113.57	8.032		
11,000.0	7,495.0	11,105.8	7,630.0	60.1	59.2	98.51	3,177.4	259.2	912.2	795.3	116.94	7.800		
11,100.0	7,495.0	11,205.8	7,630.0	61.8	60.9	98.51	3,277.4	259.2	912.2	791.9	120.32	7.581		
11,200.0	7,495.0	11,305.8	7,630.0	63.5	62.6	98.51	3,377.4	259.2	912.2	788.5	123.70	7.374		
11,300.0	7,495.0	11,405.8	7,630.0	65.1	64.3	98.51	3,477.4	259.2	912.2	785.1	127.09	7.177		
11,400.0	7,495.0	11,505.8	7,630.0	66.8	66.1	98.51	3,577.4	259.2	912.2	781.7	130.48	6.991		
11,500.0	7,495.0	11,605.8	7,630.0	68.5	67.8	98.51	3,677.4	259.2	912.2	778.3	133.88	6.813		
11,600.0	7,495.0	11,705.8	7,630.0	70.2	69.5	98.51	3,777.4	259.2	912.2	774.9	137.28	6.645		
11,700.0	7,495.0	11,805.8	7,630.0	71.9	71.2	98.51	3,877.4	259.2	912.2	771.5	140.69	6.484		
11,800.0	7,495.0	11,905.8	7,630.0	73.6	72.9	98.51	3,977.4	259.2	912.2	768.1	144.09	6.331		
11,900.0	7,495.0	12,005.8	7,630.0	75.3	74.6	98.51	4,077.4	259.2	912.2	764.7	147.50	6.184		
12,000.0	7,495.0	12,105.8	7,630.0	77.0	76.4	98.51	4,177.4	259.2	912.2	761.3	150.91	6.044		
12,100.0	7,495.0	12,205.8	7,630.0	78.8	78.1	98.51	4,277.4	259.2	912.2	757.9	154.33	5.911		
12,200.0	7,495.0	12,305.8	7,630.0	80.5	79.8	98.51	4,377.4	259.2	912.2	754.5	157.75	5.783		
12,300.0	7,495.0	12,405.8	7,630.0	82.2	81.5	98.51	4,477.4	259.2	912.2	751.0	161.17	5.660		
12,400.0	7,495.0	12,505.8	7,630.0	83.9	83.3	98.51	4,577.4	259.2	912.2	747.6	164.59	5.542		
12,500.0	7,495.0	12,605.8	7,630.0	85.6	85.0	98.51	4,677.4	259.2	912.2	744.2	168.01	5.429		
12,600.0	7,495.0	12,705.8	7,630.0	87.3	86.7	98.51	4,777.4	259.2	912.2	740.8	171.44	5.321		
12,700.0	7,495.0	12,805.8	7,630.0	89.0	88.5	98.51	4,877.4	259.2	912.2	737.3	174.86	5.217		
12,800.0	7,495.0	12,905.8	7,630.0	90.8	90.2	98.51	4,977.4	259.2	912.2	733.9	178.29	5.116		
12,900.0	7,495.0	13,005.8	7,630.0	92.5	91.9	98.51	5,077.4	259.2	912.2	730.5	181.72	5.020		
13,000.0	7,495.0	13,105.8	7,630.0	94.2	93.7	98.51	5,177.4	259.2	912.2	727.0	185.16	4.927		
13,100.0	7,495.0	13,205.8	7,630.0	95.9	95.4	98.51	5,277.4	259.2	912.2	723.6	188.59	4.837		
13,200.0	7,495.0	13,305.8	7,630.0	97.7	97.1	98.51	5,377.4	259.2	912.2	720.2	192.02	4.750		
13,300.0	7,495.0	13,405.8	7,630.0	99.4	98.9	98.51	5,477.4	259.2	912.2	716.7	195.46	4.667		
13,400.0	7,495.0	13,505.8	7,630.0	101.1	100.6	98.51	5,577.4	259.2	912.2	713.3	198.90	4.586		
13,500.0	7,495.0	13,605.8	7,630.0	102.8	102.3	98.51	5,677.4	259.2	912.2	709.9	202.34	4.508		
13,600.0	7,495.0	13,705.8	7,630.0	104.6	104.1	98.51	5,777.4	259.2	912.2	706.4	205.78	4.433		
13,700.0	7,495.0	13,805.8	7,630.0	106.3	105.8	98.51	5,877.4	259.2	912.2	703.0	209.22	4.360		
13,800.0	7,495.0	13,905.8	7,630.0	108.0	107.5	98.51	5,977.4	259.2	912.2	699.5	212.66	4.290		
13,900.0	7,495.0	14,005.8	7,630.0	109.8	109.3	98.51	6,077.4	259.2	912.2	696.1	216.10	4.221		
14,000.0	7,495.0	14,105.8	7,630.0	111.5	111.0	98.51	6,177.4	259.2	912.2	692.7	219.54	4.155		
14,100.0	7,495.0	14,205.8	7,630.0	113.2	112.8	98.51	6,277.4	259.2	912.2	689.2	222.99	4.091		
14,200.0	7,495.0	14,305.8	7,630.0	115.0	114.5	98.51	6,377.4	259.2	912.2	685.8	226.43	4.029		
14,300.0	7,495.0	14,405.8	7,630.0	116.7	116.2	98.51	6,477.4	259.2	912.2	682.3	229.88	3.968 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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: O-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	90.41	-0.4	49.8	49.8					
100.0	100.0	100.0	100.0	0.1	0.1	90.41	-0.4	49.8	49.8	49.6	0.24	209.773		
200.0	200.0	200.0	200.0	0.3	0.3	90.41	-0.4	49.8	49.8	49.2	0.59	84.908		
300.0	300.0	300.0	300.0	0.5	0.5	90.41	-0.4	49.8	49.8	48.9	0.94	53.226		
400.0	400.0	400.0	400.0	0.6	0.6	90.41	-0.4	49.8	49.8	48.5	1.28	38.762		
500.0	500.0	500.0	500.0	0.8	0.8	90.41	-0.4	49.8	49.8	48.2	1.63	30.480		
600.0	600.0	600.0	600.0	1.0	1.0	90.41	-0.4	49.8	49.8	47.8	1.98	25.114		
700.0	700.0	700.0	700.0	1.2	1.2	90.41	-0.4	49.8	49.8	47.5	2.33	21.354		
800.0	800.0	800.0	800.0	1.3	1.3	90.41	-0.4	49.8	49.8	47.1	2.68	18.574 CC, ES		
900.0	900.0	900.0	900.0	1.5	1.5	-139.22	-0.4	49.8	51.1	48.1	3.03	16.867		
1,000.0	999.8	999.8	999.8	1.7	1.7	-142.72	-0.4	49.8	55.2	51.8	3.38	16.327 SF		
1,100.0	1,099.5	1,098.2	1,098.2	1.9	1.9	-146.17	-1.6	50.9	63.3	59.6	3.73	16.980		
1,200.0	1,198.7	1,196.0	1,195.8	2.1	2.0	-147.96	-5.2	54.4	76.4	72.3	4.09	18.692		
1,300.0	1,297.9	1,293.2	1,292.7	2.4	2.2	-147.86	-11.3	60.1	92.2	87.7	4.46	20.659		
1,400.0	1,397.0	1,390.3	1,389.1	2.6	2.4	-146.40	-19.5	67.9	109.8	104.9	4.86	22.602		
1,500.0	1,496.1	1,488.6	1,486.6	2.9	2.7	-145.04	-28.5	76.4	127.9	122.6	5.27	24.284		
1,600.0	1,595.3	1,586.9	1,584.1	3.1	2.9	-144.01	-37.5	84.9	146.1	140.4	5.69	25.695		
1,700.0	1,694.4	1,685.2	1,681.7	3.4	3.1	-143.21	-46.5	93.3	164.3	158.2	6.11	26.889		
1,800.0	1,793.5	1,783.5	1,779.2	3.7	3.4	-142.57	-55.4	101.8	182.6	176.0	6.54	27.908		
1,900.0	1,892.7	1,881.8	1,876.7	3.9	3.6	-142.04	-64.4	110.3	200.8	193.8	6.98	28.787		
2,000.0	1,991.8	1,980.1	1,974.2	4.2	3.9	-141.61	-73.4	118.8	219.1	211.7	7.41	29.550		
2,100.0	2,090.9	2,078.4	2,071.8	4.5	4.1	-141.24	-82.4	127.2	237.4	229.5	7.86	30.218		
2,200.0	2,190.1	2,176.7	2,169.3	4.8	4.4	-140.92	-91.3	135.7	255.7	247.4	8.30	30.808		
2,300.0	2,289.2	2,275.0	2,266.8	5.0	4.7	-140.65	-100.3	144.2	274.0	265.2	8.74	31.331		
2,400.0	2,388.4	2,373.3	2,364.3	5.3	4.9	-140.41	-109.3	152.7	292.3	283.1	9.19	31.797		
2,500.0	2,487.5	2,471.6	2,461.9	5.6	5.2	-140.20	-118.3	161.1	310.6	300.9	9.64	32.216		
2,600.0	2,586.6	2,569.9	2,559.4	5.9	5.4	-140.01	-127.2	169.6	328.9	318.8	10.09	32.594		
2,700.0	2,685.8	2,668.2	2,656.9	6.2	5.7	-139.84	-136.2	178.1	347.2	336.7	10.54	32.937		
2,800.0	2,784.9	2,766.5	2,754.4	6.5	6.0	-139.69	-145.2	186.6	365.5	354.5	10.99	33.248		
2,900.0	2,884.0	2,864.8	2,852.0	6.7	6.2	-139.55	-154.2	195.0	383.9	372.4	11.45	33.533		
3,000.0	2,983.2	2,963.1	2,949.5	7.0	6.5	-139.43	-163.1	203.5	402.2	390.3	11.90	33.793		
3,100.0	3,082.3	3,061.4	3,047.0	7.3	6.8	-139.32	-172.1	212.0	420.5	408.2	12.36	34.033		
3,200.0	3,181.4	3,159.7	3,144.5	7.6	7.0	-139.21	-181.1	220.4	438.8	426.0	12.81	34.255		
3,300.0	3,280.6	3,258.0	3,242.1	7.9	7.3	-139.12	-190.1	228.9	457.2	443.9	13.27	34.460		
3,400.0	3,379.7	3,356.3	3,339.6	8.2	7.6	-139.03	-199.0	237.4	475.5	461.8	13.72	34.650		
3,500.0	3,478.9	3,454.6	3,437.1	8.4	7.9	-138.95	-208.0	245.9	493.8	479.6	14.18	34.827		
3,600.0	3,578.0	3,552.9	3,534.6	8.7	8.1	-138.87	-217.0	254.3	512.2	497.5	14.64	34.992		
3,700.0	3,677.1	3,651.2	3,632.2	9.0	8.4	-138.80	-226.0	262.8	530.5	515.4	15.09	35.146		
3,800.0	3,776.3	3,749.5	3,729.7	9.3	8.7	-138.73	-234.9	271.3	548.8	533.3	15.55	35.291		
3,900.0	3,875.4	3,847.9	3,827.2	9.6	8.9	-138.67	-243.9	279.8	567.2	551.1	16.01	35.426		
4,000.0	3,974.5	3,946.2	3,924.7	9.9	9.2	-138.61	-252.9	288.2	585.5	569.0	16.47	35.554		
4,100.0	4,073.7	4,044.5	4,022.3	10.2	9.5	-138.56	-261.9	296.7	603.8	586.9	16.93	35.674		
4,200.0	4,172.8	4,142.8	4,119.8	10.4	9.8	-138.51	-270.8	305.2	622.2	604.8	17.39	35.787		
4,300.0	4,271.9	4,241.1	4,217.3	10.7	10.0	-138.46	-279.8	313.7	640.5	622.7	17.84	35.894		
4,400.0	4,371.1	4,339.4	4,314.8	11.0	10.3	-138.41	-288.8	322.1	658.8	640.5	18.30	35.995		
4,500.0	4,470.2	4,437.7	4,412.4	11.3	10.6	-138.37	-297.7	330.6	677.2	658.4	18.76	36.091		
4,600.0	4,569.4	4,536.0	4,509.9	11.6	10.9	-138.33	-306.7	339.1	695.5	676.3	19.22	36.182		
4,700.0	4,668.5	4,634.3	4,607.4	11.9	11.1	-138.29	-315.7	347.6	713.8	694.2	19.68	36.269		
4,800.0	4,767.6	4,732.6	4,704.9	12.2	11.4	-138.26	-324.7	356.0	732.2	712.0	20.14	36.351		
4,900.0	4,866.8	4,830.9	4,802.5	12.5	11.7	-138.22	-333.6	364.5	750.5	729.9	20.60	36.430		
5,000.0	4,965.9	4,929.2	4,900.0	12.7	11.9	-138.19	-342.6	373.0	768.9	747.8	21.06	36.505		
5,100.0	5,065.0	5,027.5	4,997.5	13.0	12.2	-138.16	-351.6	381.5	787.2	765.7	21.52	36.576		

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 4G-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 4G-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
5,200.0	5,164.2	5,125.8	5,095.0	13.3	12.5	-138.13	-360.6	389.9	805.5	783.6	21.98	36.644					
5,300.0	5,263.3	5,224.1	5,192.6	13.6	12.8	-138.10	-369.5	398.4	823.9	801.4	22.44	36.710					
5,400.0	5,362.5	5,322.4	5,290.1	13.9	13.0	-138.07	-378.5	406.9	842.2	819.3	22.90	36.772					
5,500.0	5,461.6	5,420.7	5,387.6	14.2	13.3	-138.04	-387.5	415.4	860.6	837.2	23.36	36.832					
5,600.0	5,560.7	5,519.0	5,485.1	14.5	13.6	-138.02	-396.5	423.8	878.9	855.1	23.83	36.889					
5,700.0	5,659.9	5,617.3	5,582.7	14.8	13.9	-137.99	-405.4	432.3	897.2	872.9	24.29	36.945					
5,800.0	5,759.0	5,715.6	5,680.2	15.0	14.1	-137.97	-414.4	440.8	915.6	890.8	24.75	36.998					
5,900.0	5,858.1	5,813.9	5,777.7	15.3	14.4	-137.95	-423.4	449.3	933.9	908.7	25.21	37.049					
6,000.0	5,957.3	5,912.2	5,875.2	15.6	14.7	-137.93	-432.4	457.7	952.2	926.6	25.67	37.098					
6,100.0	6,056.4	6,010.5	5,972.8	15.9	15.0	-137.90	-441.3	466.2	970.6	944.5	26.13	37.145					
6,200.0	6,155.5	6,108.8	6,070.3	16.2	15.2	-137.88	-450.3	474.7	988.9	962.3	26.59	37.190					



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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						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	
3,100.0	3,082.3	3,340.0	3,242.0	7.3	14.8	32.68	-352.7	-1,159.7	987.7	971.7	16.01	61.689	
3,200.0	3,181.4	3,455.6	3,353.7	7.6	15.4	32.11	-365.7	-1,133.0	956.1	939.4	16.63	57.477	
3,300.0	3,280.6	3,564.5	3,458.6	7.9	16.0	31.59	-376.4	-1,105.8	922.4	905.2	17.24	53.493	
3,400.0	3,379.7	3,664.5	3,554.6	8.2	16.5	31.02	-386.7	-1,079.7	887.8	869.9	17.84	49.763	
3,500.0	3,478.9	3,735.6	3,623.0	8.4	16.9	30.60	-394.0	-1,061.4	853.7	835.4	18.34	46.558	
3,600.0	3,578.0	3,804.4	3,689.5	8.7	17.2	30.11	-402.4	-1,046.1	823.1	804.3	18.85	43.662	
3,700.0	3,677.1	3,885.0	3,767.5	9.0	17.5	29.41	-413.7	-1,029.5	794.7	775.2	19.44	40.882	
3,800.0	3,776.3	3,965.8	3,846.4	9.3	17.9	28.81	-423.7	-1,014.7	768.2	748.3	19.97	38.463	
3,900.0	3,875.4	4,051.1	3,930.2	9.6	18.2	28.37	-431.6	-1,001.1	743.5	723.1	20.46	36.343	
4,000.0	3,974.5	4,136.8	4,014.8	9.9	18.4	28.06	-438.1	-989.2	720.3	699.4	20.91	34.449	
4,100.0	4,073.7	4,221.9	4,099.1	10.2	18.7	27.84	-443.7	-979.0	698.8	677.4	21.33	32.764	
4,200.0	4,172.8	4,301.0	4,177.7	10.4	18.8	27.71	-448.3	-971.1	679.0	657.3	21.71	31.278	
4,300.0	4,271.9	4,389.6	4,265.9	10.7	19.0	27.63	-453.0	-964.2	661.4	639.3	22.09	29.941	
4,400.0	4,371.1	4,487.8	4,363.8	11.0	19.2	27.62	-457.8	-958.0	644.8	622.4	22.47	28.698	
4,500.0	4,470.2	4,579.8	4,455.5	11.3	19.3	27.73	-461.0	-953.1	628.9	606.1	22.80	27.588	
4,600.0	4,569.4	4,672.5	4,548.2	11.6	19.5	28.00	-462.9	-949.5	614.0	591.0	23.08	26.600	
4,700.0	4,668.5	4,768.7	4,644.3	11.9	19.6	28.39	-464.2	-946.6	599.9	576.5	23.36	25.684	
4,800.0	4,767.6	4,867.1	4,742.7	12.2	19.7	28.86	-465.0	-944.1	586.0	562.4	23.61	24.819	
4,900.0	4,866.8	4,968.3	4,843.9	12.5	19.8	29.46	-464.9	-941.5	572.1	548.3	23.85	23.989	
5,000.0	4,965.9	5,070.6	4,946.1	12.7	19.9	30.14	-464.2	-938.5	557.7	533.6	24.07	23.166	
5,100.0	5,065.0	5,160.7	5,036.1	13.0	20.0	30.81	-463.4	-936.1	543.6	519.3	24.29	22.376	
5,200.0	5,164.2	5,249.0	5,124.5	13.3	20.1	31.48	-463.0	-935.4	531.6	507.1	24.52	21.680	
5,300.0	5,263.3	5,347.3	5,222.8	13.6	20.1	32.26	-462.7	-935.9	520.8	496.1	24.74	21.053	
5,400.0	5,362.5	5,447.0	5,322.5	13.9	20.2	33.15	-462.0	-936.4	510.1	485.1	24.95	20.440	
5,500.0	5,461.6	5,545.9	5,421.3	14.2	20.3	34.09	-460.9	-936.8	499.4	474.3	25.17	19.844	
5,600.0	5,560.7	5,646.9	5,522.3	14.5	20.3	35.12	-459.7	-937.2	488.9	463.5	25.39	19.253	
5,700.0	5,659.9	5,751.8	5,627.2	14.8	20.5	36.11	-459.3	-936.6	477.6	451.9	25.65	18.618	
5,800.0	5,759.0	5,848.2	5,723.7	15.0	20.5	37.00	-459.5	-935.4	465.7	439.8	25.90	17.983	
5,900.0	5,858.1	5,940.9	5,816.3	15.3	20.6	38.00	-458.8	-935.4	455.3	429.2	26.13	17.422	
6,000.0	5,957.3	6,036.7	5,912.1	15.6	20.6	39.19	-457.4	-936.6	446.2	419.8	26.36	16.925	
6,100.0	6,056.4	6,134.0	6,009.4	15.9	20.7	40.50	-455.6	-938.4	437.9	411.3	26.60	16.464	
6,200.0	6,155.5	6,231.6	6,106.9	16.2	20.7	41.90	-453.4	-940.6	430.2	403.3	26.83	16.033	
6,300.0	6,254.7	6,329.9	6,205.2	16.5	20.8	43.42	-450.9	-943.0	422.9	395.9	27.08	15.619	
6,400.0	6,353.8	6,428.4	6,303.6	16.8	20.8	45.00	-448.2	-945.5	416.2	388.8	27.34	15.220	
6,500.0	6,453.0	6,527.6	6,402.7	17.1	20.8	46.64	-445.5	-948.2	409.9	382.3	27.63	14.835	
6,600.0	6,552.1	6,627.7	6,502.7	17.3	20.9	48.36	-442.7	-950.7	403.7	375.8	27.94	14.452	
6,700.0	6,651.2	6,728.0	6,603.0	17.6	20.9	50.15	-439.9	-952.9	397.7	369.4	28.27	14.069	
6,800.0	6,750.4	6,828.3	6,703.3	17.9	21.0	52.01	-437.0	-954.7	391.7	363.1	28.62	13.685	
6,900.0	6,849.5	6,929.5	6,804.4	18.2	21.1	53.93	-434.2	-956.2	385.7	356.7	29.01	13.295	
7,000.0	6,948.8	7,030.5	6,905.4	18.4	21.2	-9.87	-431.6	-957.1	378.5	349.2	29.26	12.936	
7,100.0	7,047.4	7,129.7	7,004.5	18.5	21.2	-54.45	-429.2	-957.8	367.3	338.0	29.27	12.549	
7,200.0	7,142.2	7,225.5	7,100.3	18.4	21.3	-69.92	-426.9	-958.4	353.9	324.6	29.30	12.075	
7,300.0	7,230.5	7,314.9	7,189.6	18.3	21.4	-81.61	-425.0	-959.0	342.3	312.7	29.52	11.592	
7,376.4	7,291.8	7,377.6	7,252.4	18.1	21.4	-89.79	-423.7	-959.3	338.7	309.0	29.73	11.392 CC, ES	
7,400.0	7,309.4	7,395.9	7,270.7	18.0	21.5	-92.16	-423.4	-959.4	339.1	309.3	29.78	11.388 SF	
7,500.0	7,376.7	7,465.4	7,340.1	17.8	21.5	-100.60	-422.5	-959.4	351.7	321.9	29.72	11.834	
7,600.0	7,430.2	7,520.1	7,394.9	17.7	21.6	-105.43	-422.0	-959.2	385.0	355.7	29.28	13.147	
7,700.0	7,468.4	7,558.6	7,433.3	17.6	21.7	-105.54	-421.8	-958.9	439.0	410.2	28.85	15.216	
7,800.0	7,490.0	7,580.4	7,455.1	17.7	21.7	-99.81	-421.8	-958.7	509.5	480.7	28.83	17.675	
7,900.0	7,495.0	7,585.6	7,460.3	17.9	21.7	-90.71	-421.8	-958.7	590.7	561.6	29.10	20.298	
8,000.0	7,495.0	7,585.8	7,460.6	18.3	21.7	-90.75	-421.8	-958.7	677.3	647.7	29.60	22.885	
8,100.0	7,495.0	7,586.1	7,460.8	18.8	21.7	-90.80	-421.8	-958.7	767.2	736.9	30.28	25.335	

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 4G-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 4G-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		Vertical Depth		Measured Depth		Vertical Depth		Reference		Offset		Highside Toolface		Offset Wellbore Centre				Between Centres		Between Ellipses		Total Uncertainty		Separation Factor		Warning	
(ft)		(ft)		(ft)		(ft)		(ft)		(ft)		(°)		+N/-S (ft)		+E/-W (ft)				(ft)		Axis					
8,200.0		7,495.0		7,586.3		7,461.1		19.5		21.7		-90.85		-421.8		-958.7		859.3		828.2		31.13		27.601			
8,300.0		7,495.0		7,586.6		7,461.3		20.3		21.7		-90.89		-421.8		-958.7		953.0		920.9		32.12		29.667			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Sullivan 4G-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 4G-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

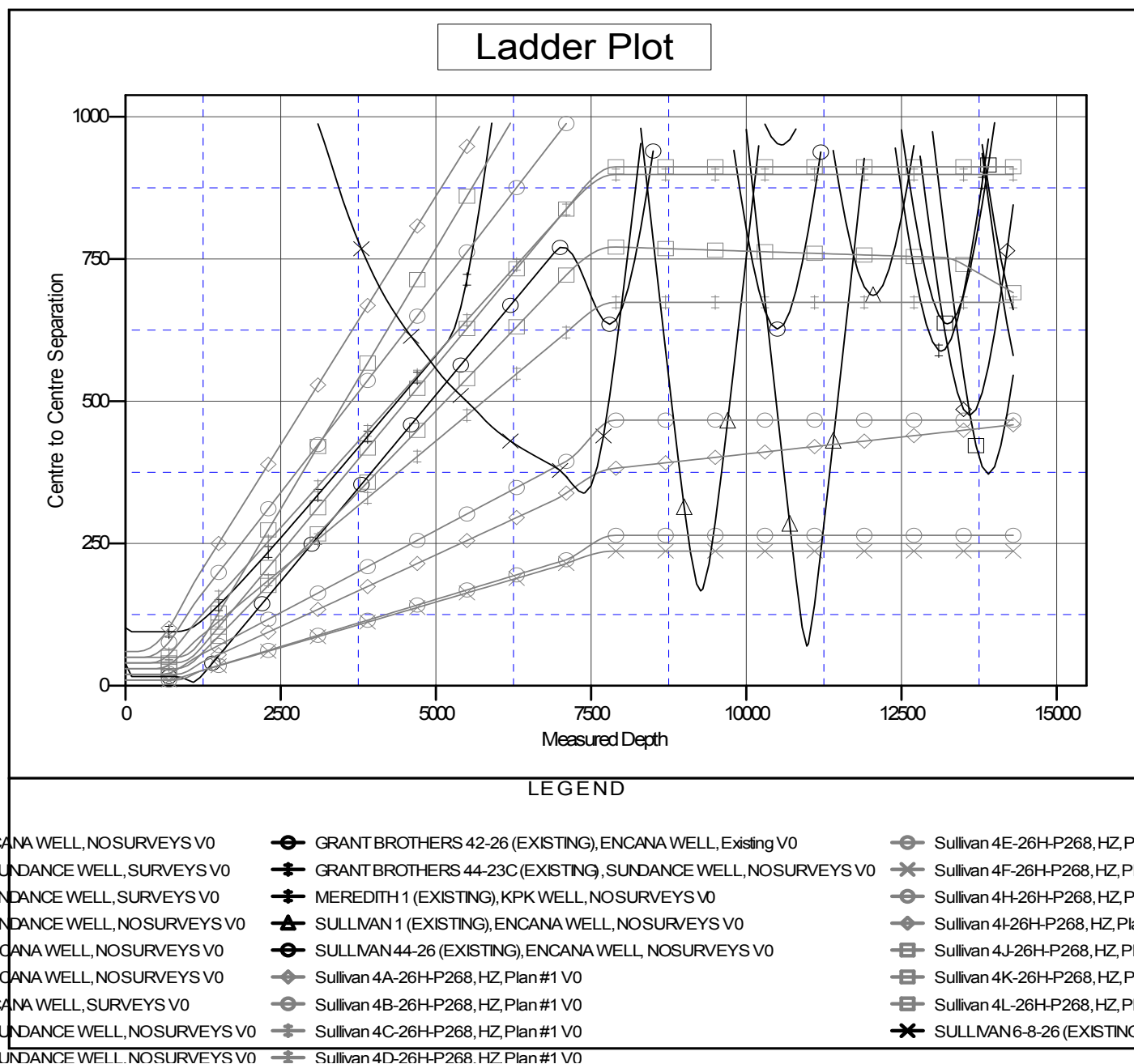
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Sullivan 4G-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