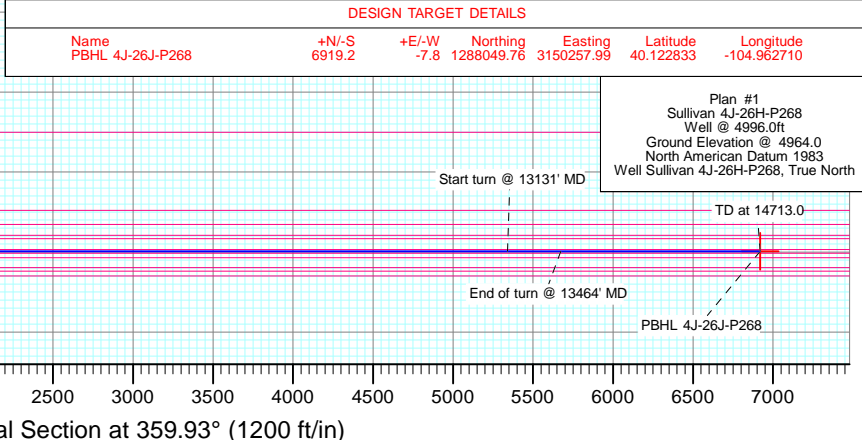
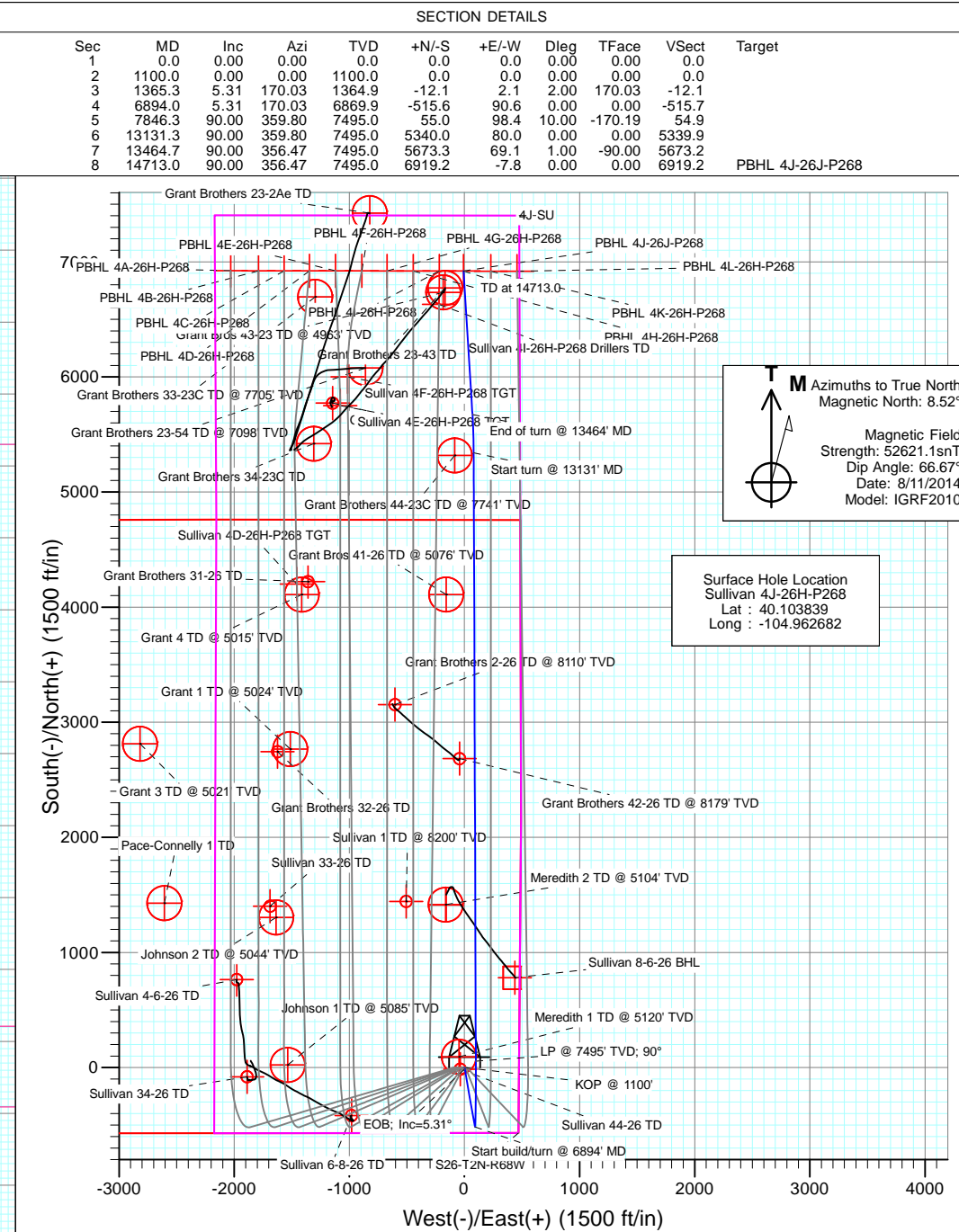
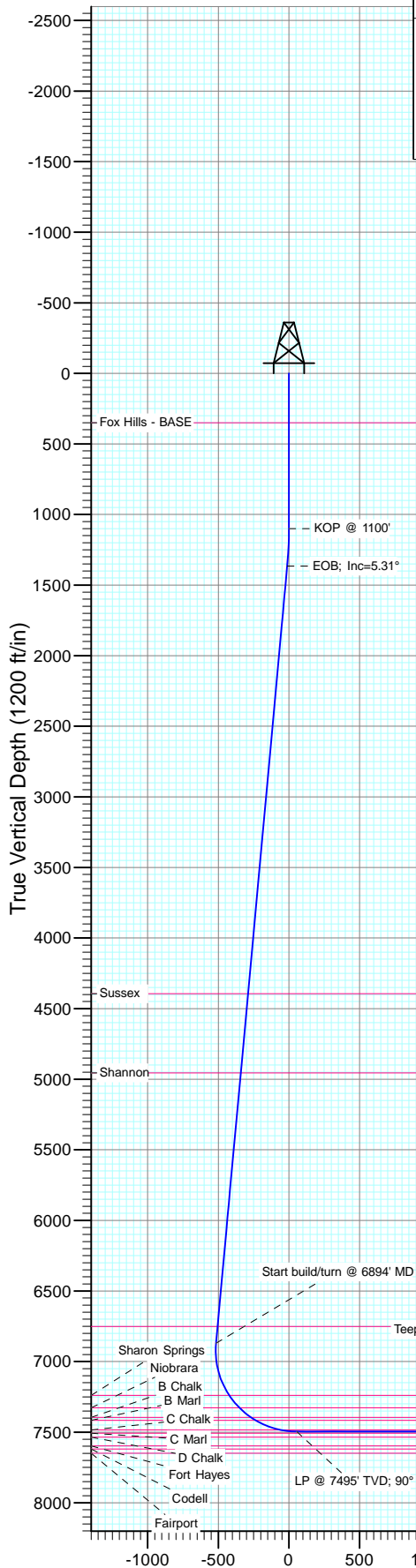




Project: DJ Wattenberg
Site: S26-T2N-R68W (Sullivan)
Well: Sullivan 4J-26H-P268
Wellbore: HZ
Design: Plan #1



Planning Report

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

Project	DJ Wattenberg		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		S26-T2N-R68W (Sullivan)			
Site Position:		Northing:	1,282,631.01 ft	Latitude:	40.107960
From:	Lat/Long	Easting:	3,150,139.78 ft	Longitude:	-104.963250
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.35 °

Well	Sullivan 4J-26H-P268					
Well Position	+N/-S	0.0 ft	Northing:	1,281,130.77 ft	Latitude:	40.103839
	+E/-W	0.0 ft	Easting:	3,150,307.74 ft	Longitude:	-104.962682
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,964.0 ft

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

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	359.93

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,365.3	5.31	170.03	1,364.9	-12.1	2.1	2.00	2.00	0.00	170.03	
6,894.0	5.31	170.03	6,869.9	-515.6	90.6	0.00	0.00	0.00	0.00	
7,846.3	90.00	359.80	7,495.0	55.0	98.4	10.00	8.89	-17.88	-170.19	
13,131.3	90.00	359.80	7,495.0	5,340.0	80.0	0.00	0.00	0.00	0.00	
13,464.7	90.00	356.47	7,495.0	5,673.3	69.1	1.00	0.00	-1.00	-90.00	
14,713.0	90.00	356.47	7,495.0	6,919.2	-7.8	0.00	0.00	0.00	0.00	PBHL 4J-26J-P268

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	KOP @ 1100'
1,200.0	2.00	170.03	1,200.0	-1.7	0.3	-1.7	2.00	2.00	
1,300.0	4.00	170.03	1,299.8	-6.9	1.2	-6.9	2.00	2.00	
1,365.3	5.31	170.03	1,364.9	-12.1	2.1	-12.1	2.00	2.00	EOB; Inc=5.31°
1,400.0	5.31	170.03	1,399.5	-15.3	2.7	-15.3	0.00	0.00	
1,500.0	5.31	170.03	1,499.0	-24.4	4.3	-24.4	0.00	0.00	
1,600.0	5.31	170.03	1,598.6	-33.5	5.9	-33.5	0.00	0.00	
1,700.0	5.31	170.03	1,698.2	-42.6	7.5	-42.6	0.00	0.00	
1,800.0	5.31	170.03	1,797.8	-51.7	9.1	-51.7	0.00	0.00	
1,900.0	5.31	170.03	1,897.3	-60.8	10.7	-60.8	0.00	0.00	
2,000.0	5.31	170.03	1,996.9	-69.9	12.3	-69.9	0.00	0.00	
2,100.0	5.31	170.03	2,096.5	-79.0	13.9	-79.0	0.00	0.00	
2,200.0	5.31	170.03	2,196.0	-88.1	15.5	-88.1	0.00	0.00	
2,300.0	5.31	170.03	2,295.6	-97.2	17.1	-97.2	0.00	0.00	
2,400.0	5.31	170.03	2,395.2	-106.3	18.7	-106.3	0.00	0.00	
2,500.0	5.31	170.03	2,494.8	-115.4	20.3	-115.4	0.00	0.00	
2,600.0	5.31	170.03	2,594.3	-124.5	21.9	-124.6	0.00	0.00	
2,700.0	5.31	170.03	2,693.9	-133.6	23.5	-133.7	0.00	0.00	
2,800.0	5.31	170.03	2,793.5	-142.7	25.1	-142.8	0.00	0.00	
2,900.0	5.31	170.03	2,893.1	-151.9	26.7	-151.9	0.00	0.00	
3,000.0	5.31	170.03	2,992.6	-161.0	28.3	-161.0	0.00	0.00	
3,100.0	5.31	170.03	3,092.2	-170.1	29.9	-170.1	0.00	0.00	
3,200.0	5.31	170.03	3,191.8	-179.2	31.5	-179.2	0.00	0.00	
3,300.0	5.31	170.03	3,291.3	-188.3	33.1	-188.3	0.00	0.00	
3,400.0	5.31	170.03	3,390.9	-197.4	34.7	-197.4	0.00	0.00	
3,500.0	5.31	170.03	3,490.5	-206.5	36.3	-206.5	0.00	0.00	
3,600.0	5.31	170.03	3,590.1	-215.6	37.9	-215.6	0.00	0.00	
3,700.0	5.31	170.03	3,689.6	-224.7	39.5	-224.8	0.00	0.00	
3,800.0	5.31	170.03	3,789.2	-233.8	41.1	-233.9	0.00	0.00	
3,900.0	5.31	170.03	3,888.8	-242.9	42.7	-243.0	0.00	0.00	
4,000.0	5.31	170.03	3,988.3	-252.0	44.3	-252.1	0.00	0.00	
4,100.0	5.31	170.03	4,087.9	-261.1	45.9	-261.2	0.00	0.00	
4,200.0	5.31	170.03	4,187.5	-270.2	47.5	-270.3	0.00	0.00	
4,300.0	5.31	170.03	4,287.1	-279.3	49.1	-279.4	0.00	0.00	
4,400.0	5.31	170.03	4,386.6	-288.5	50.7	-288.5	0.00	0.00	
4,407.4	5.31	170.03	4,394.0	-289.1	50.8	-289.2	0.00	0.00	Sussex
4,500.0	5.31	170.03	4,486.2	-297.6	52.3	-297.6	0.00	0.00	
4,600.0	5.31	170.03	4,585.8	-306.7	53.9	-306.7	0.00	0.00	
4,700.0	5.31	170.03	4,685.3	-315.8	55.5	-315.8	0.00	0.00	
4,800.0	5.31	170.03	4,784.9	-324.9	57.1	-324.9	0.00	0.00	

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,900.0	5.31	170.03	4,884.5	-334.0	58.7	-334.1	0.00	0.00	
4,970.8	5.31	170.03	4,955.0	-340.4	59.8	-340.5	0.00	0.00	Shannon
5,000.0	5.31	170.03	4,984.1	-343.1	60.3	-343.2	0.00	0.00	
5,100.0	5.31	170.03	5,083.6	-352.2	61.9	-352.3	0.00	0.00	
5,200.0	5.31	170.03	5,183.2	-361.3	63.5	-361.4	0.00	0.00	
5,300.0	5.31	170.03	5,282.8	-370.4	65.1	-370.5	0.00	0.00	
5,400.0	5.31	170.03	5,382.3	-379.5	66.7	-379.6	0.00	0.00	
5,500.0	5.31	170.03	5,481.9	-388.6	68.3	-388.7	0.00	0.00	
5,600.0	5.31	170.03	5,581.5	-397.7	69.9	-397.8	0.00	0.00	
5,700.0	5.31	170.03	5,681.1	-406.8	71.5	-406.9	0.00	0.00	
5,800.0	5.31	170.03	5,780.6	-415.9	73.1	-416.0	0.00	0.00	
5,900.0	5.31	170.03	5,880.2	-425.1	74.7	-425.1	0.00	0.00	
6,000.0	5.31	170.03	5,979.8	-434.2	76.3	-434.2	0.00	0.00	
6,100.0	5.31	170.03	6,079.4	-443.3	77.9	-443.4	0.00	0.00	
6,200.0	5.31	170.03	6,178.9	-452.4	79.5	-452.5	0.00	0.00	
6,300.0	5.31	170.03	6,278.5	-461.5	81.1	-461.6	0.00	0.00	
6,400.0	5.31	170.03	6,378.1	-470.6	82.7	-470.7	0.00	0.00	
6,500.0	5.31	170.03	6,477.6	-479.7	84.3	-479.8	0.00	0.00	
6,600.0	5.31	170.03	6,577.2	-488.8	85.9	-488.9	0.00	0.00	
6,700.0	5.31	170.03	6,676.8	-497.9	87.5	-498.0	0.00	0.00	
6,774.6	5.31	170.03	6,751.0	-504.7	88.7	-504.8	0.00	0.00	Teepee Buttes (*if present)
6,800.0	5.31	170.03	6,776.4	-507.0	89.1	-507.1	0.00	0.00	
6,894.0	5.31	170.03	6,869.9	-515.6	90.6	-515.7	0.00	0.00	Start build/turn @ 6894' MD
6,900.0	4.71	168.78	6,875.9	-516.1	90.7	-516.2	9.98	-9.81	
7,000.0	5.45	9.30	6,975.8	-515.4	92.3	-515.5	10.00	0.74	
7,100.0	15.40	3.08	7,074.0	-497.4	93.7	-497.5	10.00	9.95	
7,200.0	25.39	1.70	7,167.6	-462.7	95.1	-462.8	10.00	9.99	
7,282.1	33.59	1.16	7,239.0	-422.3	96.1	-422.4	10.00	10.00	Sharon Springs
7,300.0	35.38	1.07	7,253.8	-412.2	96.3	-412.3	9.99	9.99	
7,396.0	44.98	0.70	7,327.0	-350.3	97.2	-350.4	10.00	10.00	Niobrara
7,400.0	45.38	0.69	7,329.9	-347.4	97.3	-347.6	9.96	9.96	
7,500.0	55.38	0.42	7,393.5	-270.5	98.0	-270.6	10.00	10.00	
7,502.6	55.64	0.42	7,395.0	-268.4	98.0	-268.5	10.06	10.06	B Chalk
7,541.8	59.56	0.33	7,416.0	-235.3	98.2	-235.4	10.00	10.00	B Marl
7,600.0	65.38	0.21	7,442.9	-183.7	98.5	-183.8	10.00	10.00	
7,700.0	75.38	0.04	7,476.4	-89.6	98.7	-89.7	10.00	10.00	
7,733.8	78.76	359.98	7,484.0	-56.7	98.7	-56.8	10.00	10.00	C Chalk
7,800.0	85.38	359.87	7,493.1	8.8	98.6	8.7	10.00	10.00	
7,846.3	90.00	359.80	7,495.0	55.0	98.4	54.9	10.00	10.00	LP @ 7495' TVD; 90°
7,900.0	90.00	359.80	7,495.0	108.8	98.3	108.7	0.00	0.00	
8,000.0	90.00	359.80	7,495.0	208.8	97.9	208.7	0.00	0.00	
8,100.0	90.00	359.80	7,495.0	308.8	97.6	308.7	0.00	0.00	
8,200.0	90.00	359.80	7,495.0	408.8	97.2	408.7	0.00	0.00	
8,300.0	90.00	359.80	7,495.0	508.8	96.9	508.7	0.00	0.00	
8,400.0	90.00	359.80	7,495.0	608.8	96.5	608.7	0.00	0.00	
8,500.0	90.00	359.80	7,495.0	708.8	96.2	708.7	0.00	0.00	
8,600.0	90.00	359.80	7,495.0	808.8	95.8	808.7	0.00	0.00	
8,700.0	90.00	359.80	7,495.0	908.8	95.5	908.7	0.00	0.00	
8,800.0	90.00	359.80	7,495.0	1,008.8	95.1	1,008.7	0.00	0.00	
8,900.0	90.00	359.80	7,495.0	1,108.8	94.8	1,108.7	0.00	0.00	
9,000.0	90.00	359.80	7,495.0	1,208.8	94.4	1,208.7	0.00	0.00	
9,100.0	90.00	359.80	7,495.0	1,308.8	94.1	1,308.7	0.00	0.00	

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	359.80	7,495.0	1,408.8	93.7	1,408.7	0.00	0.00	
9,300.0	90.00	359.80	7,495.0	1,508.8	93.4	1,508.7	0.00	0.00	
9,400.0	90.00	359.80	7,495.0	1,608.8	93.0	1,608.7	0.00	0.00	
9,500.0	90.00	359.80	7,495.0	1,708.8	92.7	1,708.7	0.00	0.00	
9,600.0	90.00	359.80	7,495.0	1,808.8	92.3	1,808.7	0.00	0.00	
9,700.0	90.00	359.80	7,495.0	1,908.8	92.0	1,908.7	0.00	0.00	
9,800.0	90.00	359.80	7,495.0	2,008.8	91.6	2,008.7	0.00	0.00	
9,900.0	90.00	359.80	7,495.0	2,108.8	91.3	2,108.7	0.00	0.00	
10,000.0	90.00	359.80	7,495.0	2,208.8	90.9	2,208.7	0.00	0.00	
10,100.0	90.00	359.80	7,495.0	2,308.8	90.6	2,308.7	0.00	0.00	
10,200.0	90.00	359.80	7,495.0	2,408.8	90.2	2,408.7	0.00	0.00	
10,300.0	90.00	359.80	7,495.0	2,508.8	89.9	2,508.7	0.00	0.00	
10,400.0	90.00	359.80	7,495.0	2,608.8	89.5	2,608.7	0.00	0.00	
10,500.0	90.00	359.80	7,495.0	2,708.8	89.2	2,708.7	0.00	0.00	
10,600.0	90.00	359.80	7,495.0	2,808.8	88.8	2,808.7	0.00	0.00	
10,700.0	90.00	359.80	7,495.0	2,908.8	88.5	2,908.7	0.00	0.00	
10,800.0	90.00	359.80	7,495.0	3,008.8	88.1	3,008.7	0.00	0.00	
10,900.0	90.00	359.80	7,495.0	3,108.8	87.8	3,108.7	0.00	0.00	
11,000.0	90.00	359.80	7,495.0	3,208.8	87.4	3,208.7	0.00	0.00	
11,100.0	90.00	359.80	7,495.0	3,308.8	87.1	3,308.7	0.00	0.00	
11,200.0	90.00	359.80	7,495.0	3,408.8	86.7	3,408.7	0.00	0.00	
11,300.0	90.00	359.80	7,495.0	3,508.8	86.4	3,508.7	0.00	0.00	
11,400.0	90.00	359.80	7,495.0	3,608.8	86.0	3,608.7	0.00	0.00	
11,500.0	90.00	359.80	7,495.0	3,708.8	85.7	3,708.7	0.00	0.00	
11,600.0	90.00	359.80	7,495.0	3,808.8	85.3	3,808.7	0.00	0.00	
11,700.0	90.00	359.80	7,495.0	3,908.8	85.0	3,908.7	0.00	0.00	
11,800.0	90.00	359.80	7,495.0	4,008.8	84.6	4,008.7	0.00	0.00	
11,900.0	90.00	359.80	7,495.0	4,108.8	84.3	4,108.7	0.00	0.00	
12,000.0	90.00	359.80	7,495.0	4,208.8	83.9	4,208.7	0.00	0.00	
12,100.0	90.00	359.80	7,495.0	4,308.8	83.6	4,308.7	0.00	0.00	
12,200.0	90.00	359.80	7,495.0	4,408.8	83.3	4,408.7	0.00	0.00	
12,300.0	90.00	359.80	7,495.0	4,508.8	82.9	4,508.7	0.00	0.00	
12,400.0	90.00	359.80	7,495.0	4,608.8	82.6	4,608.7	0.00	0.00	
12,500.0	90.00	359.80	7,495.0	4,708.8	82.2	4,708.7	0.00	0.00	
12,600.0	90.00	359.80	7,495.0	4,808.8	81.9	4,808.7	0.00	0.00	
12,700.0	90.00	359.80	7,495.0	4,908.8	81.5	4,908.7	0.00	0.00	
12,800.0	90.00	359.80	7,495.0	5,008.8	81.2	5,008.7	0.00	0.00	
12,900.0	90.00	359.80	7,495.0	5,108.8	80.8	5,108.7	0.00	0.00	
13,000.0	90.00	359.80	7,495.0	5,208.8	80.5	5,208.7	0.00	0.00	
13,100.0	90.00	359.80	7,495.0	5,308.8	80.1	5,308.7	0.00	0.00	
13,131.3	90.00	359.80	7,495.0	5,340.0	80.0	5,339.9	0.00	0.00	Start turn @ 13131' MD
13,200.0	90.00	359.11	7,495.0	5,408.8	79.3	5,408.7	1.00	0.00	
13,300.0	90.00	358.11	7,495.0	5,508.7	76.9	5,508.6	1.00	0.00	
13,400.0	90.00	357.11	7,495.0	5,608.6	72.8	5,608.6	1.00	0.00	
13,464.7	90.00	356.47	7,495.0	5,673.3	69.1	5,673.2	1.00	0.00	End of turn @ 13464' MD
13,500.0	90.00	356.47	7,495.0	5,708.5	67.0	5,708.4	0.00	0.00	
13,600.0	90.00	356.47	7,495.0	5,808.3	60.8	5,808.2	0.00	0.00	
13,700.0	90.00	356.47	7,495.0	5,908.1	54.6	5,908.0	0.00	0.00	
13,800.0	90.00	356.47	7,495.0	6,007.9	48.5	6,007.9	0.00	0.00	
13,900.0	90.00	356.47	7,495.0	6,107.7	42.3	6,107.7	0.00	0.00	
14,000.0	90.00	356.47	7,495.0	6,207.5	36.1	6,207.5	0.00	0.00	
14,100.0	90.00	356.47	7,495.0	6,307.3	30.0	6,307.3	0.00	0.00	

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,200.0	90.00	356.47	7,495.0	6,407.1	23.8	6,407.1	0.00	0.00	
14,300.0	90.00	356.47	7,495.0	6,507.0	17.6	6,506.9	0.00	0.00	
14,400.0	90.00	356.47	7,495.0	6,606.8	11.5	6,606.8	0.00	0.00	
14,500.0	90.00	356.47	7,495.0	6,706.6	5.3	6,706.6	0.00	0.00	
14,600.0	90.00	356.47	7,495.0	6,806.4	-0.9	6,806.4	0.00	0.00	
14,700.0	90.00	356.47	7,495.0	6,906.2	-7.0	6,906.2	0.00	0.00	
14,713.0	90.00	356.47	7,495.0	6,919.2	-7.8	6,919.2	0.00	0.00	TD at 14713.0

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL 4J-26J-P268 - plan hits target center - Point	0.00	0.00	7,495.0	6,919.2	-7.8	1,288,049.76	3,150,257.99	40.122833	-104.962710

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
350.0	350.0	Fox Hills - BASE			
4,407.4	4,394.0	Sussex			
4,970.8	4,955.0	Shannon			
6,774.6	6,751.0	Teepee Buttes (*if present)			
7,282.1	7,239.0	Sharon Springs			
7,396.0	7,327.0	Niobrara			
7,502.6	7,395.0	B Chalk			
7,541.8	7,416.0	B Marl			
7,733.8	7,484.0	C Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,100.0	1,100.0	0.0	0.0	KOP @ 1100'
1,365.3	1,364.9	-12.1	2.1	EOB; Inc=5.31°
6,894.0	6,869.9	-515.6	90.6	Start build/turn @ 6894' MD
7,846.3	7,495.0	55.0	98.4	LP @ 7495' TVD; 90°
13,131.3	7,495.0	5,340.0	80.0	Start turn @ 13131' MD
13,464.7	7,495.0	5,673.3	69.1	End of turn @ 13464' MD
14,713.0	7,495.0	6,919.2	-7.8	TD at 14713.0

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S26-T2N-R68W (Sullivan)

Sullivan 4J-26H-P268

HZ

Plan #1

Anticollision Report

26 August, 2014

Anticollision Report

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

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

Survey Tool Program		Date	8/26/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,713.0	Plan #1 (HZ)	Geolink MWD	Geolink MWD	

Anticollision Report

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

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S26-T2N-R68W (Sullivan)						
BERGER 32-23 (EXISTING) - SUNDANCE WELL - NO S						Out of range
BERGER 42-23C (EXISTING) - SUNDANCE WELL - NO						Out of range
GRANT 1 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
GRANT 3 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
GRANT 4 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
GRANT BROS 41-26 (EXISTING) - SUNDANCE WELL -						Out of range
GRANT BROS 43-23 (EXISTING) - SUNDANCE WELL -						Out of range
GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL	10,946.5	7,444.0	690.9	619.3	9.646	CC, ES
GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL	11,100.0	7,444.0	707.8	633.5	9.532	SF
GRANT BROTHERS 23-24e (EXISTING) - SUNDANCE						Out of range
GRANT BROTHERS 23-43 (EXISTING) - SUNDANCE W	14,300.0	7,716.0	319.6	176.3	2.230	CC, ES, SF
GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE W	13,925.7	7,210.0	958.1	838.1	7.983	CC, ES
GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE W	14,100.0	7,210.0	973.8	851.0	7.925	SF
GRANT BROTHERS 31-26 (EXISTING) - ENCANA WEL						Out of range
GRANT BROTHERS 32-26 (EXISTING) - ENCANA WEL						Out of range
GRANT BROTHERS 3-23 (EXISTING) - ENCANA WELL						Out of range
GRANT BROTHERS 33-23C (EXISTING) - SUNDANCE						Out of range
GRANT BROTHERS 34-23C (EXISTING) - SUNDANCE						Out of range
GRANT BROTHERS 42-26 (EXISTING) - ENCANA WEL	10,471.1	7,512.4	135.3	69.0	2.042	CC, ES, SF
GRANT BROTHERS 44-23C (EXISTING) - SUNDANCE	13,109.4	7,456.0	164.8	55.8	1.512	CC, ES, SF
JOHNSON 1 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
JOHNSON 2 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS	1,100.0	1,063.0	104.8	101.1	28.185	CC, ES
MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS	1,400.0	1,362.5	119.7	115.0	25.171	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	9,236.3	7,457.0	599.9	556.6	13.871	CC, ES
SULLIVAN 1 (EXISTING) - ENCANA WELL - NO SURVE	9,400.0	7,457.0	621.8	576.0	13.564	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	1,313.4	1,278.2	38.9	34.4	8.685	CC, ES
SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SU	7,776.7	7,455.8	135.5	109.0	5.105	SF
SULLIVAN 4-6-26 (EXISTING) - ENCANA WELL - SURV						Out of range
Sullivan 4A-26H-P268 - HZ - Plan #1	200.0	199.0	90.1	89.5	154.054	CC, ES
Sullivan 4A-26H-P268 - HZ - Plan #1	800.0	773.7	148.7	146.0	55.138	SF
Sullivan 4B-26H-P268 - HZ - Plan #1	300.0	300.0	80.0	79.1	85.519	CC, ES
Sullivan 4B-26H-P268 - HZ - Plan #1	800.0	782.5	120.8	118.1	44.876	SF
Sullivan 4C-26H-P268 - HZ - Plan #1	400.0	400.0	69.9	68.6	54.441	CC, ES
Sullivan 4C-26H-P268 - HZ - Plan #1	800.0	788.7	95.8	93.1	35.679	SF
Sullivan 4D-26H-P268 - HZ - Plan #1	500.0	500.0	60.1	58.5	36.815	CC, ES
Sullivan 4D-26H-P268 - HZ - Plan #1	800.0	793.3	74.4	71.7	27.765	SF
Sullivan 4E-26H-P268 - HZ - Plan #1	600.0	600.0	50.1	48.1	25.255	CC, ES
Sullivan 4E-26H-P268 - HZ - Plan #1	800.0	796.7	56.2	53.5	20.980	SF
Sullivan 4F-26H-P268 - HZ - Plan #1	700.0	700.0	40.0	37.7	17.155	CC, ES
Sullivan 4F-26H-P268 - HZ - Plan #1	14,300.0	14,262.8	913.9	681.2	3.928	SF
Sullivan 4G-26H-P268 - HZ - Plan #1	800.0	800.0	29.9	27.3	11.165	CC, ES
Sullivan 4G-26H-P268 - HZ - Plan #1	14,300.0	14,329.5	690.5	456.9	2.956	SF
Sullivan 4H-26H-P268 - HZ - Plan #1	866.3	867.3	20.1	17.2	6.911	CC
Sullivan 4H-26H-P268 - HZ - Plan #1	900.0	901.0	20.1	17.1	6.643	ES
Sullivan 4H-26H-P268 - HZ - Plan #1	14,300.0	14,445.9	481.6	257.1	2.145	SF
Sullivan 4I-26H-P268 - HZ - Plan #1	966.3	967.3	10.1	6.8	3.086	CC
Sullivan 4I-26H-P268 - HZ - Plan #1	1,000.0	1,001.0	10.1	6.7	2.979	ES
Sullivan 4I-26H-P268 - HZ - Plan #1	14,300.0	14,216.3	257.1	38.6	1.177	Level 2, SF

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

Anticollision Report

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

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
S26-T2N-R68W (Sullivan)						
Sullivan 4K-26H-P268 - HZ - Plan #1	1,000.0	1,000.0	10.1	6.7	2.980	CC, ES
Sullivan 4K-26H-P268 - HZ - Plan #1	14,300.0	14,435.3	251.1	53.5	1.271	Level 3, SF
Sullivan 4L-26H-P268 - HZ - Plan #1	1,000.0	1,000.0	19.9	16.5	5.879	CC, ES
Sullivan 4L-26H-P268 - HZ - Plan #1	14,300.0	14,236.9	453.2	225.1	1.987	SF
SULLIVAN 6-8-26 (EXISTING) - ENCANA WELL - SURV						Out of range
SULLIVAN 8-6-26 (EXISTING) - ENCANA WELL - SURV	8,570.0	7,570.4	346.4	308.2	9.075	CC, ES
SULLIVAN 8-6-26 (EXISTING) - ENCANA WELL - SURV	8,600.0	7,570.2	347.7	309.1	9.017	SF

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8110-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (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		
10,300.0	7,495.0	7,444.0	7,444.0	47.7	13.0	-90.00	3,152.9	-603.3	946.2	885.6	60.66	15.598		
10,400.0	7,495.0	7,444.0	7,444.0	49.4	13.0	-90.00	3,152.9	-603.3	880.9	818.6	62.35	14.130		
10,500.0	7,495.0	7,444.0	7,444.0	51.1	13.0	-90.00	3,152.9	-603.3	822.7	758.6	64.04	12.846		
10,600.0	7,495.0	7,444.0	7,444.0	52.8	13.0	-90.00	3,152.9	-603.3	773.0	707.2	65.73	11.759		
10,700.0	7,495.0	7,444.0	7,444.0	54.5	13.0	-90.00	3,152.9	-603.3	733.6	666.2	67.43	10.879		
10,800.0	7,495.0	7,444.0	7,444.0	56.2	13.0	-90.00	3,152.9	-603.3	706.3	637.2	69.13	10.217		
10,900.0	7,495.0	7,444.0	7,444.0	57.9	13.0	-90.00	3,152.9	-603.3	692.5	621.7	70.84	9.776		
10,946.5	7,495.0	7,444.0	7,444.0	58.7	13.0	-90.00	3,152.9	-603.3	690.9	619.3	71.63	9.646 CC, ES		
11,000.0	7,495.0	7,444.0	7,444.0	59.6	13.0	-90.00	3,152.9	-603.3	693.0	620.4	72.54	9.553		
11,100.0	7,495.0	7,444.0	7,444.0	61.3	13.0	-90.00	3,152.9	-603.3	707.8	633.5	74.25	9.532 SF		
11,200.0	7,495.0	7,444.0	7,444.0	63.0	13.0	-90.00	3,152.9	-603.3	736.0	660.0	75.97	9.688		
11,300.0	7,495.0	7,444.0	7,444.0	64.7	13.0	-90.00	3,152.9	-603.3	776.1	698.4	77.68	9.991		
11,400.0	7,495.0	7,444.0	7,444.0	66.4	13.0	-90.00	3,152.9	-603.3	826.5	747.1	79.40	10.409		
11,500.0	7,495.0	7,444.0	7,444.0	68.1	13.0	-90.00	3,152.9	-603.3	885.3	804.2	81.12	10.914		
11,600.0	7,495.0	7,444.0	7,444.0	69.9	13.0	-90.00	3,152.9	-603.3	951.0	868.2	82.84	11.480		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 23-43 (EXISTING) - SUNDANCE WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 177-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,600.0	7,495.0	7,703.1	7,400.3	104.5	36.7	-84.09	6,765.9	-169.3	985.0	854.6	130.48	7.549	
13,700.0	7,495.0	7,704.9	7,402.2	106.2	36.7	-84.69	6,765.9	-169.3	886.7	754.4	132.35	6.700	
13,800.0	7,495.0	7,706.8	7,404.0	108.0	36.7	-85.31	6,766.0	-169.3	788.9	654.6	134.22	5.878	
13,900.0	7,495.0	7,708.6	7,405.8	109.7	36.7	-85.92	6,766.0	-169.3	691.6	555.5	136.07	5.083	
14,000.0	7,495.0	7,710.5	7,407.7	111.4	36.7	-86.53	6,766.0	-169.3	595.2	457.3	137.91	4.316	
14,100.0	7,495.0	7,712.3	7,409.5	113.2	36.7	-87.15	6,766.1	-169.3	500.2	360.5	139.74	3.580	
14,200.0	7,495.0	7,714.1	7,411.3	114.9	36.7	-87.77	6,766.1	-169.3	407.7	266.1	141.56	2.880	
14,300.0	7,495.0	7,716.0	7,413.2	116.7	36.7	-88.39	6,766.1	-169.3	319.6	176.3	143.36	2.230 CC, ES, SF	

Anticollision Report

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

Offset Design												S26-T2N-R68W (Sullivan) - GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE WELL - NO SURVE		Offset Site Error:		0.0 ft	
Survey Program:												118-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor					
13,700.0	7,495.0	7,210.0	7,098.0	106.2	21.2	-70.42	6,077.6	-860.3	984.3	868.0	116.31	8.463					
13,800.0	7,495.0	7,210.0	7,098.0	108.0	21.2	-70.42	6,077.6	-860.3	966.3	848.4	117.95	8.192					
13,900.0	7,495.0	7,210.0	7,098.0	109.7	21.2	-70.42	6,077.6	-860.3	958.4	838.9	119.59	8.014					
13,925.7	7,495.0	7,210.0	7,098.0	110.1	21.2	-70.42	6,077.6	-860.3	958.1	838.1	120.01	7.983	CC, ES				
14,000.0	7,495.0	7,210.0	7,098.0	111.4	21.2	-70.42	6,077.6	-860.3	961.0	839.7	121.23	7.927					
14,100.0	7,495.0	7,210.0	7,098.0	113.2	21.2	-70.42	6,077.6	-860.3	973.8	851.0	122.88	7.925	SF				
14,200.0	7,495.0	7,210.0	7,098.0	114.9	21.2	-70.42	6,077.6	-860.3	996.6	872.1	124.52	8.004					

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 42-26 (EXISTING) - ENCANA WELL - Existing													Offset Site Error:	0.0 ft
Survey Program: 951-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	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)						
9,500.0	7,495.0	7,508.2	7,443.1	34.5	18.8	-88.36	2,679.4	-46.0	980.5	930.4	50.08	19.579		
9,600.0	7,495.0	7,508.7	7,443.5	36.1	18.8	-88.54	2,679.4	-46.0	881.5	829.8	51.71	17.049		
9,700.0	7,495.0	7,509.1	7,444.0	37.7	18.8	-88.72	2,679.4	-46.0	782.9	729.5	53.34	14.676		
9,800.0	7,495.0	7,509.5	7,444.4	39.4	18.8	-88.90	2,679.4	-46.0	684.6	629.6	54.99	12.449		
9,900.0	7,495.0	7,509.9	7,444.8	41.0	18.8	-89.08	2,679.4	-46.0	586.9	530.2	56.65	10.360		
10,000.0	7,495.0	7,510.4	7,445.2	42.7	18.8	-89.26	2,679.4	-46.0	490.1	431.8	58.32	8.405		
10,100.0	7,495.0	7,510.8	7,445.7	44.3	18.8	-89.44	2,679.4	-46.0	395.0	335.0	59.99	6.584		
10,200.0	7,495.0	7,511.2	7,446.1	46.0	18.8	-89.61	2,679.4	-46.0	303.0	241.3	61.67	4.913		
10,300.0	7,495.0	7,511.6	7,446.5	47.7	18.8	-89.79	2,679.4	-46.0	218.1	154.8	63.35	3.443		
10,400.0	7,495.0	7,512.1	7,446.9	49.4	18.8	-89.97	2,679.4	-46.0	152.8	87.8	65.04	2.350		
10,471.1	7,495.0	7,512.4	7,447.2	50.6	18.8	-90.10	2,679.4	-46.0	135.3	69.0	66.24	2.042	CC, ES, SF	
10,500.0	7,495.0	7,512.5	7,447.4	51.1	18.8	-90.15	2,679.4	-46.0	138.3	71.6	66.73	2.073		
10,600.0	7,495.0	7,512.9	7,447.8	52.8	18.8	-90.33	2,679.4	-46.0	186.9	118.4	68.43	2.731		
10,700.0	7,495.0	7,513.3	7,448.2	54.5	18.8	-90.51	2,679.4	-46.0	265.9	195.8	70.13	3.792		
10,800.0	7,495.0	7,513.7	7,448.6	56.2	18.8	-90.68	2,679.4	-46.0	355.6	283.8	71.83	4.951		
10,900.0	7,495.0	7,514.2	7,449.0	57.9	18.8	-90.86	2,679.4	-46.0	449.7	376.2	73.53	6.116		
11,000.0	7,495.0	7,514.6	7,449.5	59.6	18.8	-91.04	2,679.4	-46.0	545.9	470.7	75.24	7.256		
11,100.0	7,495.0	7,515.0	7,449.9	61.3	18.8	-91.22	2,679.4	-46.0	643.3	566.3	76.95	8.360		
11,200.0	7,495.0	7,515.4	7,450.3	63.0	18.8	-91.39	2,679.4	-46.0	741.3	662.7	78.66	9.425		
11,300.0	7,495.0	7,515.8	7,450.7	64.7	18.8	-91.57	2,679.4	-46.0	839.9	759.5	80.37	10.450		
11,400.0	7,495.0	7,516.2	7,451.1	66.4	18.8	-91.74	2,679.4	-46.0	938.7	856.6	82.08	11.437		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 44-23C (EXISTING) - SUNDANCE WELL - NO SURV												Offset Site Error:	0.0 ft
Survey Program: 8150-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
12,200.0	7,495.0	7,456.0	7,456.0	80.2	13.0	-90.00	5,317.4	-84.7	924.1	830.8	93.21	9.914	
12,300.0	7,495.0	7,456.0	7,456.0	81.9	13.0	-90.00	5,317.4	-84.7	825.9	730.9	94.94	8.699	
12,400.0	7,495.0	7,456.0	7,456.0	83.7	13.0	-90.00	5,317.4	-84.7	728.1	631.5	96.67	7.532	
12,500.0	7,495.0	7,456.0	7,456.0	85.4	13.0	-90.00	5,317.4	-84.7	631.1	532.7	98.40	6.414	
12,600.0	7,495.0	7,456.0	7,456.0	87.1	13.0	-90.00	5,317.4	-84.7	535.2	435.1	100.14	5.345	
12,700.0	7,495.0	7,456.0	7,456.0	88.9	13.0	-90.00	5,317.4	-84.7	441.2	339.3	101.87	4.331	
12,800.0	7,495.0	7,456.0	7,456.0	90.6	13.0	-90.00	5,317.4	-84.7	350.4	246.8	103.60	3.382	
12,900.0	7,495.0	7,456.0	7,456.0	92.3	13.0	-90.00	5,317.4	-84.7	266.4	161.0	105.34	2.529	
13,000.0	7,495.0	7,456.0	7,456.0	94.1	13.0	-90.00	5,317.4	-84.7	197.7	90.7	107.07	1.847	
13,100.0	7,495.0	7,456.0	7,456.0	95.8	13.0	-90.00	5,317.4	-84.7	165.1	56.3	108.81	1.517	
13,109.4	7,495.0	7,456.0	7,456.0	96.0	13.0	-90.00	5,317.4	-84.7	164.8	55.8	108.97	1.512 CC, ES, SF	
13,200.0	7,495.0	7,456.0	7,456.0	97.5	13.0	-90.00	5,317.4	-84.7	187.8	77.3	110.52	1.699	
13,300.0	7,495.0	7,456.0	7,456.0	99.3	13.0	-90.00	5,317.4	-84.7	250.5	138.3	112.20	2.232	
13,400.0	7,495.0	7,456.0	7,456.0	101.0	13.0	-90.00	5,317.4	-84.7	331.1	217.2	113.84	2.908	
13,500.0	7,495.0	7,456.0	7,456.0	102.8	13.0	-90.00	5,317.4	-84.7	419.4	303.9	115.51	3.631	
13,600.0	7,495.0	7,456.0	7,456.0	104.5	13.0	-90.00	5,317.4	-84.7	512.0	394.7	117.25	4.367	
13,700.0	7,495.0	7,456.0	7,456.0	106.2	13.0	-90.00	5,317.4	-84.7	606.9	487.9	118.99	5.100	
13,800.0	7,495.0	7,456.0	7,456.0	108.0	13.0	-90.00	5,317.4	-84.7	703.2	582.5	120.73	5.825	
13,900.0	7,495.0	7,456.0	7,456.0	109.7	13.0	-90.00	5,317.4	-84.7	800.4	678.0	122.47	6.536	
14,000.0	7,495.0	7,456.0	7,456.0	111.4	13.0	-90.00	5,317.4	-84.7	898.3	774.1	124.21	7.232	
14,100.0	7,495.0	7,456.0	7,456.0	113.2	13.0	-90.00	5,317.4	-84.7	996.5	870.6	125.95	7.912	

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5120-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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	-27.15	93.3	-47.8	111.2					
100.0	100.0	63.0	63.0	0.1	0.1	-27.15	93.3	-47.8	104.8	104.6	0.23	458.117		
200.0	200.0	163.0	163.0	0.3	0.3	-27.15	93.3	-47.8	104.8	104.3	0.58	181.405		
300.0	300.0	263.0	263.0	0.5	0.5	-27.15	93.3	-47.8	104.8	103.9	0.93	113.094		
400.0	400.0	363.0	363.0	0.6	0.6	-27.15	93.3	-47.8	104.8	103.6	1.28	82.157		
500.0	500.0	463.0	463.0	0.8	0.8	-27.15	93.3	-47.8	104.8	103.2	1.63	64.510		
600.0	600.0	563.0	563.0	1.0	1.0	-27.15	93.3	-47.8	104.8	102.9	1.97	53.103		
700.0	700.0	663.0	663.0	1.2	1.2	-27.15	93.3	-47.8	104.8	102.5	2.32	45.124		
800.0	800.0	763.0	763.0	1.3	1.3	-27.15	93.3	-47.8	104.8	102.2	2.67	39.230		
900.0	900.0	863.0	863.0	1.5	1.5	-27.15	93.3	-47.8	104.8	101.8	3.02	34.698		
1,000.0	1,000.0	963.0	963.0	1.7	1.7	-27.15	93.3	-47.8	104.8	101.5	3.37	31.104		
1,100.0	1,100.0	1,063.0	1,063.0	1.9	1.9	-27.15	93.3	-47.8	104.8	101.1	3.72	28.185 CC, ES		
1,200.0	1,200.0	1,163.0	1,163.0	2.0	2.0	163.09	93.3	-47.8	106.5	102.4	4.07	26.186		
1,300.0	1,299.8	1,262.8	1,262.8	2.2	2.2	163.84	93.3	-47.8	111.5	107.1	4.41	25.279		
1,400.0	1,399.5	1,362.5	1,362.5	2.4	2.4	164.95	93.3	-47.8	119.7	115.0	4.76	25.171 SF		
1,500.0	1,499.0	1,462.0	1,462.0	2.6	2.6	166.02	93.3	-47.8	128.7	123.6	5.11	25.203		
1,600.0	1,598.6	1,561.6	1,561.6	2.8	2.7	166.95	93.3	-47.8	137.7	132.2	5.45	25.237		
1,700.0	1,698.2	1,661.2	1,661.2	3.0	2.9	167.76	93.3	-47.8	146.7	140.9	5.80	25.273		
1,800.0	1,797.8	1,760.8	1,760.8	3.2	3.1	168.48	93.3	-47.8	155.7	149.6	6.15	25.310		
1,900.0	1,897.3	1,860.3	1,860.3	3.5	3.2	169.12	93.3	-47.8	164.8	158.3	6.50	25.346		
2,000.0	1,996.9	1,959.9	1,959.9	3.7	3.4	169.70	93.3	-47.8	173.9	167.0	6.85	25.383		
2,100.0	2,096.5	2,059.5	2,059.5	3.9	3.6	170.22	93.3	-47.8	183.0	175.8	7.20	25.418		
2,200.0	2,196.0	2,159.0	2,159.0	4.1	3.8	170.69	93.3	-47.8	192.1	184.6	7.55	25.452		
2,300.0	2,295.6	2,258.6	2,258.6	4.3	3.9	171.11	93.3	-47.8	201.3	193.4	7.90	25.485		
2,400.0	2,395.2	2,358.2	2,358.2	4.6	4.1	171.50	93.3	-47.8	210.4	202.1	8.25	25.516		
2,500.0	2,494.8	2,457.8	2,457.8	4.8	4.3	171.86	93.3	-47.8	219.5	210.9	8.59	25.547		
2,600.0	2,594.3	2,557.3	2,557.3	5.0	4.5	172.18	93.3	-47.8	228.7	219.8	8.94	25.576		
2,700.0	2,693.9	2,656.9	2,656.9	5.3	4.6	172.49	93.3	-47.8	237.9	228.6	9.29	25.603		
2,800.0	2,793.5	2,756.5	2,756.5	5.5	4.8	172.77	93.3	-47.8	247.0	237.4	9.64	25.630		
2,900.0	2,893.0	2,856.0	2,856.0	5.7	5.0	173.03	93.3	-47.8	256.2	246.2	9.99	25.655		
3,000.0	2,992.6	2,955.6	2,955.6	5.9	5.2	173.27	93.3	-47.8	265.4	255.1	10.34	25.679		
3,100.0	3,092.2	3,055.2	3,055.2	6.2	5.3	173.50	93.3	-47.8	274.6	263.9	10.68	25.702		
3,200.0	3,191.8	3,154.8	3,154.8	6.4	5.5	173.71	93.3	-47.8	283.8	272.7	11.03	25.724		
3,300.0	3,291.3	3,254.3	3,254.3	6.6	5.7	173.91	93.3	-47.8	293.0	281.6	11.38	25.745		
3,400.0	3,390.9	3,353.9	3,353.9	6.9	5.9	174.09	93.3	-47.8	302.2	290.4	11.73	25.765		
3,500.0	3,490.5	3,453.5	3,453.5	7.1	6.0	174.27	93.3	-47.8	311.4	299.3	12.08	25.784		
3,600.0	3,590.0	3,553.0	3,553.0	7.3	6.2	174.43	93.3	-47.8	320.6	308.1	12.42	25.803		
3,700.0	3,689.6	3,652.6	3,652.6	7.6	6.4	174.59	93.3	-47.8	329.8	317.0	12.77	25.820		
3,800.0	3,789.2	3,752.2	3,752.2	7.8	6.5	174.74	93.3	-47.8	339.0	325.8	13.12	25.837		
3,900.0	3,888.8	3,851.8	3,851.8	8.0	6.7	174.88	93.3	-47.8	348.2	334.7	13.47	25.853		
4,000.0	3,988.3	3,951.3	3,951.3	8.3	6.9	175.01	93.3	-47.8	357.4	343.6	13.82	25.869		
4,100.0	4,087.9	4,050.9	4,050.9	8.5	7.1	175.13	93.3	-47.8	366.6	352.4	14.16	25.884		
4,200.0	4,187.5	4,150.5	4,150.5	8.8	7.2	175.25	93.3	-47.8	375.8	361.3	14.51	25.898		
4,300.0	4,287.0	4,250.0	4,250.0	9.0	7.4	175.37	93.3	-47.8	385.0	370.2	14.86	25.912		
4,400.0	4,386.6	4,349.6	4,349.6	9.2	7.6	175.48	93.3	-47.8	394.2	379.0	15.21	25.925		
4,500.0	4,486.2	4,449.2	4,449.2	9.5	7.8	175.58	93.3	-47.8	403.5	387.9	15.56	25.938		
4,600.0	4,585.8	4,548.8	4,548.8	9.7	7.9	175.68	93.3	-47.8	412.7	396.8	15.90	25.950		
4,700.0	4,685.3	4,648.3	4,648.3	9.9	8.1	175.77	93.3	-47.8	421.9	405.7	16.25	25.962		
4,800.0	4,784.9	4,747.9	4,747.9	10.2	8.3	175.86	93.3	-47.8	431.1	414.5	16.60	25.973		
4,900.0	4,884.5	4,847.5	4,847.5	10.4	8.5	175.95	93.3	-47.8	440.3	423.4	16.95	25.984		
5,000.0	4,984.1	4,947.1	4,947.1	10.6	8.6	176.03	93.3	-47.8	449.6	432.3	17.29	25.995		
5,100.0	5,083.6	5,046.6	5,046.6	10.9	8.8	176.11	93.3	-47.8	458.8	441.2	17.64	26.005		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 5120-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						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	5,183.2	5,120.0	5,120.0	11.1	8.9	176.17	93.3	-47.8	468.8	450.8	17.95	26.122	
5,300.0	5,282.8	5,120.0	5,120.0	11.3	8.9	176.17	93.3	-47.8	493.5	475.4	18.12	27.237	
5,400.0	5,382.3	5,120.0	5,120.0	11.6	8.9	176.17	93.3	-47.8	536.1	517.8	18.30	29.304	
5,500.0	5,481.9	5,120.0	5,120.0	11.8	8.9	176.17	93.3	-47.8	592.7	574.2	18.47	32.089	
5,600.0	5,581.5	5,120.0	5,120.0	12.0	8.9	176.17	93.3	-47.8	659.7	641.0	18.65	35.379	
5,700.0	5,681.1	5,120.0	5,120.0	12.3	8.9	176.17	93.3	-47.8	734.2	715.3	18.82	39.009	
5,800.0	5,780.6	5,120.0	5,120.0	12.5	8.9	176.17	93.3	-47.8	814.2	795.2	19.00	42.861	
5,900.0	5,880.2	5,120.0	5,120.0	12.8	8.9	176.17	93.3	-47.8	898.2	879.0	19.17	46.851	
6,000.0	5,979.8	5,120.0	5,120.0	13.0	8.9	176.17	93.3	-47.8	985.2	965.8	19.35	50.925	

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 1 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8200-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,500.0	7,495.0	7,457.0	7,457.0	19.6	13.0	-90.00	1,442.9	-506.3	949.7	917.2	32.54	29.187		
8,600.0	7,495.0	7,457.0	7,457.0	20.9	13.0	-90.00	1,442.9	-506.3	874.5	840.6	33.85	25.836		
8,700.0	7,495.0	7,457.0	7,457.0	22.3	13.0	-90.00	1,442.9	-506.3	804.6	769.4	35.22	22.849		
8,800.0	7,495.0	7,457.0	7,457.0	23.7	13.0	-90.00	1,442.9	-506.3	741.7	705.1	36.64	20.247		
8,900.0	7,495.0	7,457.0	7,457.0	25.1	13.0	-90.00	1,442.9	-506.3	687.7	649.6	38.10	18.051		
9,000.0	7,495.0	7,457.0	7,457.0	26.6	13.0	-90.00	1,442.9	-506.3	644.7	605.1	39.60	16.283		
9,100.0	7,495.0	7,457.0	7,457.0	28.2	13.0	-90.00	1,442.9	-506.3	615.2	574.0	41.12	14.959		
9,200.0	7,495.0	7,457.0	7,457.0	29.7	13.0	-90.00	1,442.9	-506.3	601.0	558.3	42.68	14.082		
9,236.3	7,495.0	7,457.0	7,457.0	30.3	13.0	-90.00	1,442.9	-506.3	599.9	556.6	43.25	13.871	CC, ES	
9,300.0	7,495.0	7,457.0	7,457.0	31.3	13.0	-90.00	1,442.9	-506.3	603.3	559.0	44.25	13.633		
9,400.0	7,495.0	7,457.0	7,457.0	32.9	13.0	-90.00	1,442.9	-506.3	621.8	576.0	45.84	13.564	SF	
9,500.0	7,495.0	7,457.0	7,457.0	34.5	13.0	-90.00	1,442.9	-506.3	655.3	607.8	47.45	13.810		
9,600.0	7,495.0	7,457.0	7,457.0	36.1	13.0	-90.00	1,442.9	-506.3	701.5	652.5	49.07	14.296		
9,700.0	7,495.0	7,457.0	7,457.0	37.7	13.0	-90.00	1,442.9	-506.3	758.2	707.5	50.70	14.954		
9,800.0	7,495.0	7,457.0	7,457.0	39.4	13.0	-90.00	1,442.9	-506.3	823.2	770.8	52.35	15.725		
9,900.0	7,495.0	7,457.0	7,457.0	41.0	13.0	-90.00	1,442.9	-506.3	894.6	840.6	54.00	16.567		
10,000.0	7,495.0	7,457.0	7,457.0	42.7	13.0	-90.00	1,442.9	-506.3	971.2	915.5	55.66	17.447		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8192-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-111.50	-14.5	-36.9	52.9					
100.0	100.0	65.0	65.0	0.1	0.1	-111.50	-14.5	-36.9	39.7	39.5	0.23	170.812		
200.0	200.0	165.0	165.0	0.3	0.3	-111.50	-14.5	-36.9	39.7	39.1	0.58	68.258		
300.0	300.0	265.0	265.0	0.5	0.5	-111.50	-14.5	-36.9	39.7	38.8	0.93	42.651		
400.0	400.0	365.0	365.0	0.6	0.6	-111.50	-14.5	-36.9	39.7	38.4	1.28	31.015		
500.0	500.0	465.0	465.0	0.8	0.8	-111.50	-14.5	-36.9	39.7	38.1	1.63	24.367		
600.0	600.0	565.0	565.0	1.0	1.0	-111.50	-14.5	-36.9	39.7	37.7	1.98	20.066		
700.0	700.0	665.0	665.0	1.2	1.2	-111.50	-14.5	-36.9	39.7	37.4	2.33	17.056		
800.0	800.0	765.0	765.0	1.3	1.3	-111.50	-14.5	-36.9	39.7	37.0	2.68	14.831		
900.0	900.0	865.0	865.0	1.5	1.5	-111.50	-14.5	-36.9	39.7	36.7	3.02	13.120		
1,000.0	1,000.0	965.0	965.0	1.7	1.7	-111.50	-14.5	-36.9	39.7	36.3	3.37	11.762		
1,100.0	1,100.0	1,065.0	1,065.0	1.9	1.9	-111.50	-14.5	-36.9	39.7	36.0	3.72	10.659		
1,200.0	1,200.0	1,165.0	1,165.0	2.0	2.0	80.96	-14.5	-36.9	39.4	35.3	4.07	9.667		
1,300.0	1,299.8	1,264.8	1,264.8	2.2	2.2	88.60	-14.5	-36.9	38.9	34.5	4.43	8.783		
1,313.4	1,313.2	1,278.2	1,278.2	2.2	2.2	90.00	-14.5	-36.9	38.9	34.4	4.48	8.685 CC, ES		
1,400.0	1,399.5	1,364.5	1,364.5	2.4	2.4	100.95	-14.5	-36.9	39.6	34.8	4.79	8.265		
1,500.0	1,499.0	1,464.0	1,464.0	2.6	2.6	113.28	-14.5	-36.9	42.4	37.2	5.16	8.213		
1,600.0	1,598.6	1,563.6	1,563.6	2.8	2.7	123.70	-14.5	-36.9	46.8	41.3	5.52	8.482		
1,700.0	1,698.2	1,663.2	1,663.2	3.0	2.9	132.10	-14.5	-36.9	52.5	46.6	5.87	8.941		
1,800.0	1,797.8	1,762.8	1,762.8	3.2	3.1	138.76	-14.5	-36.9	59.1	52.9	6.22	9.500		
1,900.0	1,897.3	1,862.3	1,862.3	3.5	3.3	144.02	-14.5	-36.9	66.4	59.8	6.57	10.099		
2,000.0	1,996.9	1,961.9	1,961.9	3.7	3.4	148.22	-14.5	-36.9	74.1	67.1	6.92	10.704		
2,100.0	2,096.5	2,061.5	2,061.5	3.9	3.6	151.62	-14.5	-36.9	82.1	74.8	7.26	11.297		
2,200.0	2,196.0	2,161.0	2,161.0	4.1	3.8	154.40	-14.5	-36.9	90.3	82.7	7.61	11.868		
2,300.0	2,295.6	2,260.6	2,260.6	4.3	3.9	156.72	-14.5	-36.9	98.7	90.8	7.96	12.412		
2,400.0	2,395.2	2,360.2	2,360.2	4.6	4.1	158.67	-14.5	-36.9	107.3	99.0	8.30	12.927		
2,500.0	2,494.8	2,459.8	2,459.8	4.8	4.3	160.33	-14.5	-36.9	116.0	107.3	8.65	13.412		
2,600.0	2,594.3	2,559.3	2,559.3	5.0	4.5	161.76	-14.5	-36.9	124.7	115.7	8.99	13.870		
2,700.0	2,693.9	2,658.9	2,658.9	5.3	4.6	163.00	-14.5	-36.9	133.5	124.2	9.34	14.300		
2,800.0	2,793.5	2,758.5	2,758.5	5.5	4.8	164.09	-14.5	-36.9	142.4	132.7	9.68	14.705		
2,900.0	2,893.0	2,858.0	2,858.0	5.7	5.0	165.05	-14.5	-36.9	151.3	141.3	10.03	15.087		
3,000.0	2,992.6	2,957.6	2,957.6	5.9	5.2	165.90	-14.5	-36.9	160.3	149.9	10.38	15.446		
3,100.0	3,092.2	3,057.2	3,057.2	6.2	5.3	166.66	-14.5	-36.9	169.3	158.5	10.72	15.785		
3,200.0	3,191.8	3,156.8	3,156.8	6.4	5.5	167.35	-14.5	-36.9	178.3	167.2	11.07	16.105		
3,300.0	3,291.3	3,256.3	3,256.3	6.6	5.7	167.97	-14.5	-36.9	187.3	175.9	11.42	16.408		
3,400.0	3,390.9	3,355.9	3,355.9	6.9	5.9	168.53	-14.5	-36.9	196.4	184.6	11.76	16.694		
3,500.0	3,490.5	3,455.5	3,455.5	7.1	6.0	169.04	-14.5	-36.9	205.4	193.3	12.11	16.965		
3,600.0	3,590.0	3,555.0	3,555.0	7.3	6.2	169.51	-14.5	-36.9	214.5	202.1	12.46	17.222		
3,700.0	3,689.6	3,654.6	3,654.6	7.6	6.4	169.94	-14.5	-36.9	223.6	210.8	12.80	17.467		
3,800.0	3,789.2	3,754.2	3,754.2	7.8	6.6	170.34	-14.5	-36.9	232.7	219.6	13.15	17.699		
3,900.0	3,888.8	3,853.8	3,853.8	8.0	6.7	170.71	-14.5	-36.9	241.9	228.4	13.50	17.919		
4,000.0	3,988.3	3,953.3	3,953.3	8.3	6.9	171.05	-14.5	-36.9	251.0	237.1	13.84	18.130		
4,100.0	4,087.9	4,052.9	4,052.9	8.5	7.1	171.37	-14.5	-36.9	260.1	245.9	14.19	18.330		
4,200.0	4,187.5	4,152.5	4,152.5	8.8	7.2	171.66	-14.5	-36.9	269.3	254.7	14.54	18.522		
4,300.0	4,287.0	4,252.0	4,252.0	9.0	7.4	171.94	-14.5	-36.9	278.4	263.5	14.89	18.705		
4,400.0	4,386.6	4,351.6	4,351.6	9.2	7.6	172.20	-14.5	-36.9	287.6	272.3	15.23	18.880		
4,500.0	4,486.2	4,451.2	4,451.2	9.5	7.8	172.44	-14.5	-36.9	296.7	281.2	15.58	19.047		
4,600.0	4,585.8	4,550.8	4,550.8	9.7	7.9	172.67	-14.5	-36.9	305.9	290.0	15.93	19.207		
4,700.0	4,685.3	4,650.3	4,650.3	9.9	8.1	172.88	-14.5	-36.9	315.1	298.8	16.27	19.361		
4,800.0	4,784.9	4,749.9	4,749.9	10.2	8.3	173.08	-14.5	-36.9	324.3	307.6	16.62	19.509		
4,900.0	4,884.5	4,849.5	4,849.5	10.4	8.5	173.27	-14.5	-36.9	333.4	316.5	16.97	19.650		
5,000.0	4,984.1	4,949.1	4,949.1	10.6	8.6	173.46	-14.5	-36.9	342.6	325.3	17.32	19.787		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8192-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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)						
5,100.0	5,083.6	5,048.6	5,048.6	10.9	8.8	173.63	-14.5	-36.9	351.8	334.2	17.66	19.918		
5,200.0	5,183.2	5,148.2	5,148.2	11.1	9.0	173.79	-14.5	-36.9	361.0	343.0	18.01	20.044		
5,300.0	5,282.8	5,247.8	5,247.8	11.3	9.2	173.95	-14.5	-36.9	370.2	351.8	18.36	20.165		
5,400.0	5,382.3	5,347.3	5,347.3	11.6	9.3	174.09	-14.5	-36.9	379.4	360.7	18.71	20.282		
5,500.0	5,481.9	5,446.9	5,446.9	11.8	9.5	174.23	-14.5	-36.9	388.6	369.5	19.05	20.395		
5,600.0	5,581.5	5,546.5	5,546.5	12.0	9.7	174.37	-14.5	-36.9	397.8	378.4	19.40	20.504		
5,700.0	5,681.1	5,646.1	5,646.1	12.3	9.9	174.49	-14.5	-36.9	407.0	387.3	19.75	20.609		
5,800.0	5,780.6	5,745.6	5,745.6	12.5	10.0	174.62	-14.5	-36.9	416.2	396.1	20.10	20.711		
5,900.0	5,880.2	5,845.2	5,845.2	12.8	10.2	174.73	-14.5	-36.9	425.4	405.0	20.44	20.809		
6,000.0	5,979.8	5,944.8	5,944.8	13.0	10.4	174.85	-14.5	-36.9	434.6	413.8	20.79	20.904		
6,100.0	6,079.3	6,044.3	6,044.3	13.2	10.5	174.95	-14.5	-36.9	443.8	422.7	21.14	20.996		
6,200.0	6,178.9	6,143.9	6,143.9	13.5	10.7	175.06	-14.5	-36.9	453.0	431.6	21.49	21.085		
6,300.0	6,278.5	6,243.5	6,243.5	13.7	10.9	175.15	-14.5	-36.9	462.3	440.4	21.83	21.171		
6,400.0	6,378.1	6,343.1	6,343.1	13.9	11.1	175.25	-14.5	-36.9	471.5	449.3	22.18	21.255		
6,500.0	6,477.6	6,442.6	6,442.6	14.2	11.2	175.34	-14.5	-36.9	480.7	458.2	22.53	21.336		
6,600.0	6,577.2	6,542.2	6,542.2	14.4	11.4	175.43	-14.5	-36.9	489.9	467.0	22.88	21.414		
6,700.0	6,676.8	6,641.8	6,641.8	14.6	11.6	175.51	-14.5	-36.9	499.1	475.9	23.22	21.491		
6,800.0	6,776.3	6,741.3	6,741.3	14.9	11.8	175.59	-14.5	-36.9	508.3	484.8	23.57	21.565		
6,900.0	6,875.9	6,840.9	6,840.9	15.1	11.9	176.93	-14.5	-36.9	517.5	493.6	23.93	21.628		
7,000.0	6,975.8	6,940.8	6,940.8	15.2	12.1	-23.86	-14.5	-36.9	517.3	493.1	24.17	21.405		
7,100.0	7,074.0	7,039.0	7,039.0	15.1	12.3	-18.85	-14.5	-36.9	500.3	476.3	23.96	20.877		
7,200.0	7,167.6	7,132.6	7,132.6	14.9	12.4	-19.91	-14.5	-36.9	467.2	443.8	23.38	19.978		
7,300.0	7,253.8	7,218.8	7,218.8	14.6	12.6	-23.58	-14.5	-36.9	419.3	396.7	22.62	18.538		
7,400.0	7,329.8	7,294.8	7,294.8	14.2	12.7	-30.70	-14.5	-36.9	358.9	336.8	22.11	16.236		
7,500.0	7,393.5	7,358.5	7,358.5	13.9	12.8	-43.36	-14.5	-36.9	289.4	266.7	22.68	12.757		
7,600.0	7,442.9	7,407.9	7,407.9	13.6	12.9	-62.68	-14.5	-36.9	216.7	192.0	24.72	8.764		
7,700.0	7,476.4	7,441.4	7,441.4	13.5	13.0	-82.05	-14.5	-36.9	155.0	128.7	26.25	5.905		
7,776.7	7,490.8	7,455.8	7,455.8	13.6	13.0	-90.00	-14.5	-36.9	135.5	109.0	26.55	5.105 SF		
7,800.0	7,493.1	7,458.1	7,458.1	13.7	13.0	-90.79	-14.5	-36.9	137.5	110.9	26.59	5.172		
7,900.0	7,495.0	7,460.0	7,460.0	14.0	13.0	-90.00	-14.5	-36.9	183.0	156.0	26.94	6.792		
8,000.0	7,495.0	7,460.0	7,460.0	14.6	13.0	-90.00	-14.5	-36.9	260.9	233.4	27.50	9.486		
8,100.0	7,495.0	7,460.0	7,460.0	15.3	13.0	-90.00	-14.5	-36.9	350.2	321.9	28.24	12.400		
8,200.0	7,495.0	7,460.0	7,460.0	16.2	13.0	-90.00	-14.5	-36.9	444.1	414.9	29.14	15.240		
8,300.0	7,495.0	7,460.0	7,460.0	17.2	13.0	-90.00	-14.5	-36.9	540.1	510.0	30.17	17.904		
8,400.0	7,495.0	7,460.0	7,460.0	18.4	13.0	-90.00	-14.5	-36.9	637.4	606.1	31.31	20.358		
8,500.0	7,495.0	7,460.0	7,460.0	19.6	13.0	-90.00	-14.5	-36.9	735.5	702.9	32.54	22.599		
8,600.0	7,495.0	7,460.0	7,460.0	20.9	13.0	-90.00	-14.5	-36.9	833.9	800.1	33.85	24.635		
8,700.0	7,495.0	7,460.0	7,460.0	22.3	13.0	-90.00	-14.5	-36.9	932.8	897.5	35.22	26.483		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4A-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 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	-89.75	0.4	-90.1	90.1					
100.0	100.0	99.0	99.0	0.1	0.1	-89.75	0.4	-90.1	90.1	89.8	0.24	381.378		
200.0	200.0	199.0	199.0	0.3	0.3	-89.75	0.4	-90.1	90.1	89.5	0.58	154.054	CC, ES	
300.0	300.0	296.1	296.1	0.5	0.5	-90.03	-0.1	-91.6	91.7	90.7	0.93	98.630		
400.0	400.0	392.9	392.7	0.6	0.7	-90.85	-1.4	-96.3	96.5	95.2	1.28	75.600		
500.0	500.0	489.3	488.8	0.8	0.9	-92.04	-3.7	-104.1	104.6	103.0	1.63	64.293		
600.0	600.0	585.0	583.8	1.0	1.1	-93.42	-6.9	-114.9	116.1	114.1	1.98	58.556		
700.0	700.0	679.9	677.6	1.2	1.4	-94.84	-10.9	-128.5	130.8	128.4	2.34	55.906		
800.0	800.0	773.7	769.9	1.3	1.8	-96.18	-15.7	-145.0	148.7	146.0	2.70	55.138	SF	
900.0	900.0	866.3	860.3	1.5	2.1	-97.39	-21.3	-164.1	169.9	166.9	3.06	55.593		
1,000.0	1,000.0	957.5	948.7	1.7	2.6	-98.46	-27.6	-185.6	194.3	190.9	3.42	56.879		
1,100.0	1,100.0	1,049.3	1,037.0	1.9	3.0	-99.39	-34.7	-209.9	221.6	217.8	3.78	58.680		
1,200.0	1,200.0	1,145.3	1,129.1	2.0	3.5	89.63	-42.3	-235.8	249.6	245.6	4.00	62.369		
1,300.0	1,299.8	1,241.3	1,221.2	2.2	4.0	89.50	-49.9	-261.8	277.6	273.2	4.35	63.765		
1,400.0	1,399.5	1,337.1	1,313.1	2.4	4.5	90.14	-57.5	-287.7	305.6	300.9	4.72	64.694		
1,500.0	1,499.0	1,433.0	1,405.1	2.6	5.0	91.11	-65.1	-313.6	333.7	328.6	5.11	65.289		
1,600.0	1,598.6	1,528.8	1,497.0	2.8	5.6	91.94	-72.7	-339.5	361.9	356.4	5.51	65.695		
1,700.0	1,698.2	1,624.6	1,589.0	3.0	6.1	92.64	-80.3	-365.4	390.1	384.2	5.91	65.966		
1,800.0	1,797.8	1,720.4	1,680.9	3.2	6.6	93.25	-87.9	-391.3	418.4	412.1	6.33	66.140		
1,900.0	1,897.3	1,816.3	1,772.9	3.5	7.1	93.79	-95.5	-417.3	446.7	440.0	6.74	66.244		
2,000.0	1,996.9	1,912.1	1,864.8	3.7	7.6	94.26	-103.1	-443.2	475.1	467.9	7.17	66.297		
2,100.0	2,096.5	2,007.9	1,956.7	3.9	8.1	94.67	-110.7	-469.1	503.5	495.9	7.59	66.313		
2,200.0	2,196.0	2,103.8	2,048.7	4.1	8.6	95.04	-118.3	-495.0	531.9	523.9	8.02	66.303		
2,300.0	2,295.6	2,199.6	2,140.6	4.3	9.1	95.38	-125.9	-520.9	560.3	551.9	8.45	66.273		
2,400.0	2,395.2	2,295.4	2,232.6	4.6	9.7	95.68	-133.5	-546.8	588.8	579.9	8.89	66.230		
2,500.0	2,494.8	2,391.2	2,324.5	4.8	10.2	95.96	-141.1	-572.7	617.2	607.9	9.33	66.177		
2,600.0	2,594.3	2,487.1	2,416.4	5.0	10.7	96.21	-148.7	-598.6	645.7	635.9	9.77	66.118		
2,700.0	2,693.9	2,582.9	2,508.4	5.3	11.2	96.44	-156.3	-624.6	674.2	664.0	10.21	66.055		
2,800.0	2,793.5	2,678.7	2,600.3	5.5	11.7	96.65	-163.8	-650.5	702.7	692.0	10.65	65.988		
2,900.0	2,893.0	2,774.5	2,692.3	5.7	12.2	96.84	-171.4	-676.4	731.2	720.1	11.09	65.920		
3,000.0	2,992.6	2,870.4	2,784.2	5.9	12.7	97.02	-179.0	-702.3	759.7	748.1	11.54	65.852		
3,100.0	3,092.2	2,966.2	2,876.2	6.2	13.3	97.19	-186.6	-728.2	788.2	776.2	11.98	65.784		
3,200.0	3,191.8	3,062.0	2,968.1	6.4	13.8	97.34	-194.2	-754.1	816.7	804.3	12.43	65.716		
3,300.0	3,291.3	3,157.8	3,060.0	6.6	14.3	97.49	-201.8	-780.0	845.2	832.3	12.87	65.649		
3,400.0	3,390.9	3,253.7	3,152.0	6.9	14.8	97.62	-209.4	-806.0	873.7	860.4	13.32	65.584		
3,500.0	3,490.5	3,349.5	3,243.9	7.1	15.3	97.75	-217.0	-831.9	902.3	888.5	13.77	65.520		
3,600.0	3,590.0	3,445.3	3,335.9	7.3	15.8	97.87	-224.6	-857.8	930.8	916.6	14.22	65.458		
3,700.0	3,689.6	3,541.1	3,427.8	7.6	16.3	97.98	-232.2	-883.7	959.3	944.7	14.67	65.397		
3,800.0	3,789.2	3,637.0	3,519.8	7.8	16.9	98.08	-239.8	-909.6	987.9	972.8	15.12	65.338		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4B-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.72	0.4	-80.0	80.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.72	0.4	-80.0	80.0	79.8	0.24	337.046		
200.0	200.0	200.0	200.0	0.3	0.3	-89.72	0.4	-80.0	80.0	79.4	0.59	136.424		
300.0	300.0	300.0	300.0	0.5	0.5	-89.72	0.4	-80.0	80.0	79.1	0.94	85.519	CC, ES	
400.0	400.0	397.4	397.4	0.6	0.6	-90.09	-0.1	-81.6	81.6	80.3	1.28	63.731		
500.0	500.0	494.5	494.4	0.8	0.8	-91.12	-1.7	-86.3	86.5	84.8	1.63	53.108		
600.0	600.0	591.3	590.8	1.0	1.0	-92.60	-4.3	-94.0	94.6	92.6	1.98	47.792		
700.0	700.0	687.3	686.1	1.2	1.3	-94.28	-7.8	-104.8	106.0	103.7	2.33	45.428		
800.0	800.0	782.5	780.2	1.3	1.6	-95.96	-12.4	-118.5	120.8	118.1	2.69	44.876	SF	
900.0	900.0	876.6	872.7	1.5	1.9	-97.52	-17.8	-134.9	138.8	135.7	3.05	45.513		
1,000.0	1,000.0	969.5	963.4	1.7	2.3	-98.91	-24.1	-153.9	160.0	156.6	3.41	46.962		
1,100.0	1,100.0	1,063.3	1,054.3	1.9	2.7	-100.11	-31.3	-175.7	184.2	180.5	3.77	48.899		
1,200.0	1,200.0	1,160.1	1,148.1	2.0	3.1	88.85	-39.0	-198.7	209.0	205.0	4.03	51.878		
1,300.0	1,299.8	1,257.0	1,241.9	2.2	3.6	88.84	-46.6	-221.7	233.7	229.4	4.38	53.314		
1,400.0	1,399.5	1,353.8	1,335.6	2.4	4.0	89.66	-54.2	-244.7	258.5	253.7	4.76	54.313		
1,500.0	1,499.0	1,450.5	1,429.3	2.6	4.5	90.76	-61.8	-267.7	283.3	278.1	5.15	55.013		
1,600.0	1,598.6	1,547.3	1,522.9	2.8	4.9	91.69	-69.5	-290.7	308.2	302.6	5.55	55.529		
1,700.0	1,698.2	1,644.0	1,616.6	3.0	5.4	92.48	-77.1	-313.6	333.1	327.2	5.96	55.911		
1,800.0	1,797.8	1,740.7	1,710.3	3.2	5.9	93.16	-84.7	-336.6	358.1	351.8	6.37	56.192		
1,900.0	1,897.3	1,837.5	1,803.9	3.5	6.3	93.75	-92.3	-359.6	383.2	376.4	6.79	56.399		
2,000.0	1,996.9	1,934.2	1,897.6	3.7	6.8	94.27	-99.9	-382.6	408.3	401.1	7.22	56.550		
2,100.0	2,096.5	2,031.0	1,991.2	3.9	7.2	94.72	-107.6	-405.6	433.4	425.7	7.65	56.659		
2,200.0	2,196.0	2,127.7	2,084.9	4.1	7.7	95.13	-115.2	-428.5	458.5	450.4	8.08	56.736		
2,300.0	2,295.6	2,224.4	2,178.6	4.3	8.2	95.50	-122.8	-451.5	483.7	475.2	8.52	56.789		
2,400.0	2,395.2	2,321.2	2,272.2	4.6	8.6	95.83	-130.4	-474.5	508.8	499.9	8.95	56.823		
2,500.0	2,494.8	2,417.9	2,365.9	4.8	9.1	96.12	-138.0	-497.5	534.0	524.6	9.39	56.842		
2,600.0	2,594.3	2,514.7	2,459.6	5.0	9.6	96.40	-145.6	-520.5	559.2	549.4	9.84	56.851		
2,700.0	2,693.9	2,611.4	2,553.2	5.3	10.0	96.64	-153.3	-543.4	584.4	574.2	10.28	56.851		
2,800.0	2,793.5	2,708.2	2,646.9	5.5	10.5	96.87	-160.9	-566.4	609.7	598.9	10.72	56.845		
2,900.0	2,893.0	2,804.9	2,740.5	5.7	10.9	97.08	-168.5	-589.4	634.9	623.7	11.17	56.833		
3,000.0	2,992.6	2,901.6	2,834.2	5.9	11.4	97.27	-176.1	-612.4	660.1	648.5	11.62	56.818		
3,100.0	3,092.2	2,998.4	2,927.9	6.2	11.9	97.45	-183.7	-635.3	685.4	673.3	12.07	56.799		
3,200.0	3,191.8	3,095.1	3,021.5	6.4	12.3	97.62	-191.4	-658.3	710.6	698.1	12.52	56.779		
3,300.0	3,291.3	3,191.9	3,115.2	6.6	12.8	97.78	-199.0	-681.3	735.9	722.9	12.97	56.757		
3,400.0	3,390.9	3,288.6	3,208.9	6.9	13.3	97.92	-206.6	-704.3	761.1	747.7	13.42	56.733		
3,500.0	3,490.5	3,385.3	3,302.5	7.1	13.7	98.06	-214.2	-727.3	786.4	772.5	13.87	56.709		
3,600.0	3,590.0	3,482.1	3,396.2	7.3	14.2	98.18	-221.8	-750.2	811.6	797.3	14.32	56.685		
3,700.0	3,689.6	3,578.8	3,489.8	7.6	14.7	98.30	-229.5	-773.2	836.9	822.1	14.77	56.660		
3,800.0	3,789.2	3,675.6	3,583.5	7.8	15.1	98.41	-237.1	-796.2	862.2	847.0	15.22	56.635		
3,900.0	3,888.8	3,772.3	3,677.2	8.0	15.6	98.52	-244.7	-819.2	887.5	871.8	15.68	56.610		
4,000.0	3,988.3	3,869.0	3,770.8	8.3	16.1	98.62	-252.3	-842.2	912.7	896.6	16.13	56.585		
4,100.0	4,087.9	3,965.8	3,864.5	8.5	16.5	98.72	-259.9	-865.1	938.0	921.4	16.58	56.560		
4,200.0	4,187.5	4,062.5	3,958.2	8.8	17.0	98.80	-267.5	-888.1	963.3	946.3	17.04	56.536		
4,300.0	4,287.0	4,159.3	4,051.8	9.0	17.5	98.89	-275.2	-911.1	988.6	971.1	17.49	56.512		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4C-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.69	0.4	-69.9	69.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.69	0.4	-69.9	69.9	69.7	0.24	294.622		
200.0	200.0	200.0	200.0	0.3	0.3	-89.69	0.4	-69.9	69.9	69.3	0.59	119.252		
300.0	300.0	300.0	300.0	0.5	0.5	-89.69	0.4	-69.9	69.9	69.0	0.94	74.755		
400.0	400.0	400.0	400.0	0.6	0.6	-89.69	0.4	-69.9	69.9	68.6	1.28	54.441 CC, ES		
500.0	500.0	497.7	497.7	0.8	0.8	-90.17	-0.2	-71.5	71.5	69.9	1.63	43.875		
600.0	600.0	595.2	595.1	1.0	1.0	-91.49	-2.0	-76.1	76.3	74.4	1.98	38.585		
700.0	700.0	692.3	691.8	1.2	1.2	-93.36	-4.9	-83.9	84.4	82.1	2.33	36.227		
800.0	800.0	788.7	787.5	1.3	1.4	-95.43	-9.0	-94.5	95.8	93.1	2.68	35.679 SF		
900.0	900.0	884.2	881.9	1.5	1.7	-97.45	-14.1	-108.1	110.5	107.5	3.04	36.328		
1,000.0	1,000.0	978.6	974.7	1.7	2.0	-99.29	-20.3	-124.4	128.5	125.1	3.40	37.804		
1,100.0	1,100.0	1,071.8	1,065.7	1.9	2.4	-100.87	-27.5	-143.2	149.8	146.1	3.76	39.882		
1,200.0	1,200.0	1,168.9	1,160.1	2.0	2.8	87.88	-35.6	-164.4	172.8	168.8	4.05	42.727		
1,300.0	1,299.8	1,266.2	1,254.7	2.2	3.2	87.88	-43.7	-185.7	195.7	191.3	4.40	44.458		
1,400.0	1,399.5	1,363.5	1,349.3	2.4	3.6	88.84	-51.7	-206.9	218.6	213.8	4.78	45.731		
1,500.0	1,499.0	1,460.7	1,443.8	2.6	4.1	90.04	-59.8	-228.1	241.5	236.3	5.17	46.693		
1,600.0	1,598.6	1,557.9	1,538.3	2.8	4.5	91.03	-67.9	-249.4	264.5	258.9	5.57	47.448		
1,700.0	1,698.2	1,655.2	1,632.9	3.0	4.9	91.87	-76.0	-270.6	287.6	281.6	5.99	48.046		
1,800.0	1,797.8	1,752.4	1,727.4	3.2	5.3	92.58	-84.1	-291.8	310.7	304.3	6.40	48.524		
1,900.0	1,897.3	1,849.6	1,821.9	3.5	5.8	93.19	-92.1	-313.1	333.9	327.0	6.83	48.909		
2,000.0	1,996.9	1,946.8	1,916.5	3.7	6.2	93.72	-100.2	-334.3	357.1	349.8	7.25	49.222		
2,100.0	2,096.5	2,044.1	2,011.0	3.9	6.6	94.19	-108.3	-355.5	380.3	372.6	7.69	49.478		
2,200.0	2,196.0	2,141.3	2,105.5	4.1	7.1	94.60	-116.4	-376.7	403.5	395.4	8.12	49.689		
2,300.0	2,295.6	2,238.5	2,200.1	4.3	7.5	94.97	-124.5	-398.0	426.8	418.2	8.56	49.865		
2,400.0	2,395.2	2,335.7	2,294.6	4.6	8.0	95.30	-132.5	-419.2	450.1	441.1	9.00	50.011		
2,500.0	2,494.8	2,433.0	2,389.1	4.8	8.4	95.60	-140.6	-440.4	473.3	463.9	9.44	50.134		
2,600.0	2,594.3	2,530.2	2,483.7	5.0	8.8	95.87	-148.7	-461.7	496.6	486.8	9.89	50.238		
2,700.0	2,693.9	2,627.4	2,578.2	5.3	9.3	96.12	-156.8	-482.9	519.9	509.6	10.33	50.327		
2,800.0	2,793.5	2,724.6	2,672.7	5.5	9.7	96.34	-164.9	-504.1	543.3	532.5	10.78	50.402		
2,900.0	2,893.0	2,821.8	2,767.3	5.7	10.1	96.55	-172.9	-525.4	566.6	555.4	11.23	50.466		
3,000.0	2,992.6	2,919.1	2,861.8	5.9	10.6	96.74	-181.0	-546.6	589.9	578.2	11.68	50.522		
3,100.0	3,092.2	3,016.3	2,956.3	6.2	11.0	96.91	-189.1	-567.8	613.2	601.1	12.13	50.569		
3,200.0	3,191.8	3,113.5	3,050.9	6.4	11.4	97.07	-197.2	-589.0	636.6	624.0	12.58	50.610		
3,300.0	3,291.3	3,210.7	3,145.4	6.6	11.9	97.23	-205.3	-610.3	659.9	646.9	13.03	50.646		
3,400.0	3,390.9	3,308.0	3,239.9	6.9	12.3	97.37	-213.3	-631.5	683.3	669.8	13.48	50.677		
3,500.0	3,490.5	3,405.2	3,334.5	7.1	12.8	97.50	-221.4	-652.7	706.6	692.7	13.94	50.704		
3,600.0	3,590.0	3,502.4	3,429.0	7.3	13.2	97.62	-229.5	-674.0	730.0	715.6	14.39	50.727		
3,700.0	3,689.6	3,599.6	3,523.5	7.6	13.6	97.74	-237.6	-695.2	753.3	738.5	14.84	50.747		
3,800.0	3,789.2	3,696.9	3,618.1	7.8	14.1	97.85	-245.7	-716.4	776.7	761.4	15.30	50.765		
3,900.0	3,888.8	3,794.1	3,712.6	8.0	14.5	97.95	-253.7	-737.7	800.1	784.3	15.76	50.780		
4,000.0	3,988.3	3,891.3	3,807.1	8.3	15.0	98.04	-261.8	-758.9	823.4	807.2	16.21	50.794		
4,100.0	4,087.9	3,988.5	3,901.7	8.5	15.4	98.14	-269.9	-780.1	846.8	830.1	16.67	50.806		
4,200.0	4,187.5	4,085.7	3,996.2	8.8	15.8	98.22	-278.0	-801.3	870.2	853.0	17.12	50.816		
4,300.0	4,287.0	4,183.0	4,090.7	9.0	16.3	98.30	-286.1	-822.6	893.5	875.9	17.58	50.825		
4,400.0	4,386.6	4,280.2	4,185.3	9.2	16.7	98.38	-294.1	-843.8	916.9	898.9	18.04	50.832		
4,500.0	4,486.2	4,377.4	4,279.8	9.5	17.1	98.46	-302.2	-865.0	940.3	921.8	18.50	50.839		
4,600.0	4,585.8	4,474.6	4,374.3	9.7	17.6	98.53	-310.3	-886.3	963.6	944.7	18.95	50.845		
4,700.0	4,685.3	4,571.9	4,468.8	9.9	18.0	98.59	-318.4	-907.5	987.0	967.6	19.41	50.850		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4D-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total 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	60.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.64	0.4	-60.1	60.1	59.9	0.24	253.376		
200.0	200.0	200.0	200.0	0.3	0.3	-89.64	0.4	-60.1	60.1	59.6	0.59	102.557		
300.0	300.0	300.0	300.0	0.5	0.5	-89.64	0.4	-60.1	60.1	59.2	0.94	64.289		
400.0	400.0	400.0	400.0	0.6	0.6	-89.64	0.4	-60.1	60.1	58.9	1.28	46.820		
500.0	500.0	500.0	500.0	0.8	0.8	-89.64	0.4	-60.1	60.1	58.5	1.63	36.815 CC, ES		
600.0	600.0	598.1	598.1	1.0	1.0	-90.29	-0.3	-61.7	61.7	59.7	1.98	31.167		
700.0	700.0	695.9	695.8	1.2	1.2	-92.02	-2.3	-66.3	66.4	64.1	2.33	28.534		
800.0	800.0	793.3	792.8	1.3	1.4	-94.42	-5.7	-73.9	74.4	71.7	2.68	27.765 SF		
900.0	900.0	890.1	888.9	1.5	1.6	-97.00	-10.4	-84.4	85.7	82.7	3.04	28.244		
1,000.0	1,000.0	985.9	983.6	1.7	1.9	-99.45	-16.3	-97.7	100.4	97.0	3.39	29.597		
1,100.0	1,100.0	1,080.6	1,076.7	1.9	2.2	-101.61	-23.4	-113.8	118.5	114.7	3.75	31.584		
1,200.0	1,200.0	1,178.1	1,172.0	2.0	2.5	86.89	-31.5	-132.1	138.5	134.4	4.06	34.111		
1,300.0	1,299.8	1,276.0	1,267.9	2.2	2.9	86.96	-39.6	-150.5	158.4	154.0	4.42	35.837		
1,400.0	1,399.5	1,374.0	1,363.7	2.4	3.3	88.15	-47.8	-168.9	178.2	173.4	4.80	37.131		
1,500.0	1,499.0	1,471.9	1,459.6	2.6	3.6	89.52	-55.9	-187.3	198.1	192.9	5.20	38.139		
1,600.0	1,598.6	1,569.8	1,555.4	2.8	4.0	90.65	-64.1	-205.7	218.1	212.5	5.60	38.950		
1,700.0	1,698.2	1,667.7	1,651.2	3.0	4.4	91.59	-72.2	-224.1	238.2	232.2	6.01	39.609		
1,800.0	1,797.8	1,765.6	1,747.0	3.2	4.8	92.38	-80.4	-242.5	258.3	251.8	6.43	40.148		
1,900.0	1,897.3	1,863.5	1,842.8	3.5	5.2	93.06	-88.5	-260.9	278.4	271.6	6.86	40.594		
2,000.0	1,996.9	1,961.4	1,938.6	3.7	5.6	93.64	-96.7	-279.3	298.6	291.3	7.29	40.967		
2,100.0	2,096.5	2,059.3	2,034.4	3.9	6.0	94.15	-104.8	-297.7	318.8	311.1	7.72	41.280		
2,200.0	2,196.0	2,157.2	2,130.2	4.1	6.3	94.60	-113.0	-316.1	339.0	330.8	8.16	41.546		
2,300.0	2,295.6	2,255.1	2,226.0	4.3	6.7	95.00	-121.1	-334.5	359.2	350.6	8.60	41.773		
2,400.0	2,395.2	2,353.0	2,321.8	4.6	7.1	95.36	-129.3	-353.0	379.5	370.5	9.04	41.969		
2,500.0	2,494.8	2,450.9	2,417.6	4.8	7.5	95.68	-137.5	-371.4	399.8	390.3	9.49	42.139		
2,600.0	2,594.3	2,548.8	2,513.5	5.0	7.9	95.97	-145.6	-389.8	420.0	410.1	9.93	42.287		
2,700.0	2,693.9	2,646.7	2,609.3	5.3	8.3	96.23	-153.8	-408.2	440.3	430.0	10.38	42.416		
2,800.0	2,793.5	2,744.6	2,705.1	5.5	8.7	96.48	-161.9	-426.6	460.6	449.8	10.83	42.530		
2,900.0	2,893.0	2,842.5	2,800.9	5.7	9.1	96.69	-170.1	-445.0	480.9	469.7	11.28	42.632		
3,000.0	2,992.6	2,940.4	2,896.7	5.9	9.5	96.90	-178.2	-463.4	501.2	489.5	11.73	42.722		
3,100.0	3,092.2	3,038.3	2,992.5	6.2	9.9	97.08	-186.4	-481.8	521.6	509.4	12.19	42.802		
3,200.0	3,191.8	3,136.2	3,088.3	6.4	10.3	97.26	-194.5	-500.2	541.9	529.2	12.64	42.875		
3,300.0	3,291.3	3,234.1	3,184.1	6.6	10.7	97.42	-202.7	-518.6	562.2	549.1	13.09	42.940		
3,400.0	3,390.9	3,332.0	3,279.9	6.9	11.1	97.56	-210.8	-537.0	582.5	569.0	13.55	42.998		
3,500.0	3,490.5	3,429.9	3,375.7	7.1	11.4	97.70	-219.0	-555.4	602.9	588.9	14.00	43.052		
3,600.0	3,590.0	3,527.8	3,471.5	7.3	11.8	97.83	-227.1	-573.8	623.2	608.7	14.46	43.100		
3,700.0	3,689.6	3,625.7	3,567.4	7.6	12.2	97.95	-235.3	-592.2	643.5	628.6	14.92	43.144		
3,800.0	3,789.2	3,723.6	3,663.2	7.8	12.6	98.07	-243.4	-610.6	663.9	648.5	15.37	43.185		
3,900.0	3,888.8	3,821.5	3,759.0	8.0	13.0	98.18	-251.6	-629.1	684.2	668.4	15.83	43.222		
4,000.0	3,988.3	3,919.4	3,854.8	8.3	13.4	98.28	-259.7	-647.5	704.6	688.3	16.29	43.256		
4,100.0	4,087.9	4,017.3	3,950.6	8.5	13.8	98.37	-267.9	-665.9	724.9	708.2	16.75	43.288		
4,200.0	4,187.5	4,115.2	4,046.4	8.8	14.2	98.46	-276.0	-684.3	745.3	728.1	17.20	43.317		
4,300.0	4,287.0	4,213.1	4,142.2	9.0	14.6	98.55	-284.2	-702.7	765.6	747.9	17.66	43.344		
4,400.0	4,386.6	4,311.0	4,238.0	9.2	15.0	98.63	-292.3	-721.1	786.0	767.8	18.12	43.369		
4,500.0	4,486.2	4,408.9	4,333.8	9.5	15.4	98.71	-300.5	-739.5	806.3	787.7	18.58	43.392		
4,600.0	4,585.8	4,506.8	4,429.6	9.7	15.8	98.78	-308.6	-757.9	826.7	807.6	19.04	43.413		
4,700.0	4,685.3	4,604.7	4,525.4	9.9	16.2	98.85	-316.8	-776.3	847.0	827.5	19.50	43.434		
4,800.0	4,784.9	4,702.6	4,621.3	10.2	16.6	98.91	-324.9	-794.7	867.4	847.4	19.96	43.452		
4,900.0	4,884.5	4,800.5	4,717.1	10.4	17.0	98.98	-333.1	-813.1	887.7	867.3	20.42	43.470		
5,000.0	4,984.1	4,898.4	4,812.9	10.6	17.4	99.04	-341.2	-831.5	908.1	887.2	20.88	43.487		
5,100.0	5,083.6	4,996.3	4,908.7	10.9	17.8	99.10	-349.4	-849.9	928.5	907.1	21.34	43.502		

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

Anticollision Report

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

Offset Design													S26-T2N-R68W (Sullivan) - Sullivan 4D-26H-P268 - HZ - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference				Offset		Semi Major Axis		Distance							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)										
5,200.0	5,183.2	5,094.2	5,004.5	11.1	18.2	99.15	-357.5	-868.3	948.8	927.0	21.80	43.517						
5,300.0	5,282.8	5,192.1	5,100.3	11.3	18.6	99.20	-365.7	-886.7	969.2	946.9	22.26	43.530						
5,400.0	5,382.3	5,290.0	5,196.1	11.6	19.0	99.26	-373.8	-905.2	989.5	966.8	22.73	43.543						

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 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	-89.58	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		
400.0	400.0	400.0	400.0	0.6	0.6	-89.58	0.4	-50.1	50.1	48.8	1.28	38.980		
500.0	500.0	500.0	500.0	0.8	0.8	-89.58	0.4	-50.1	50.1	48.4	1.63	30.651		
600.0	600.0	600.0	600.0	1.0	1.0	-89.58	0.4	-50.1	50.1	48.1	1.98	25.255 CC, ES		
700.0	700.0	698.4	698.4	1.2	1.2	-90.48	-0.4	-51.6	51.6	49.3	2.33	22.145		
800.0	800.0	796.7	796.5	1.3	1.3	-92.87	-2.8	-56.0	56.2	53.5	2.68	20.980 SF		
900.0	900.0	894.4	893.9	1.5	1.5	-96.07	-6.7	-63.4	64.1	61.0	3.03	21.128		
1,000.0	1,000.0	991.5	990.3	1.7	1.8	-99.40	-12.2	-73.6	75.3	71.9	3.39	22.219		
1,100.0	1,100.0	1,087.7	1,085.3	1.9	2.0	-102.44	-19.1	-86.6	89.9	86.2	3.75	24.001		
1,200.0	1,200.0	1,185.6	1,181.7	2.0	2.3	85.62	-27.2	-101.8	106.8	102.7	4.07	26.221		
1,300.0	1,299.8	1,284.2	1,278.8	2.2	2.6	85.75	-35.3	-117.1	123.5	119.1	4.43	27.847		
1,400.0	1,399.5	1,382.7	1,375.8	2.4	3.0	87.25	-43.5	-132.4	140.0	135.2	4.82	29.074		
1,500.0	1,499.0	1,481.2	1,472.8	2.6	3.3	88.88	-51.7	-147.7	156.7	151.4	5.21	30.052		
1,600.0	1,598.6	1,579.8	1,569.7	2.8	3.6	90.20	-59.8	-163.0	173.4	167.8	5.62	30.853		
1,700.0	1,698.2	1,678.3	1,666.7	3.0	4.0	91.28	-68.0	-178.3	190.2	184.1	6.03	31.514		
1,800.0	1,797.8	1,776.8	1,763.7	3.2	4.3	92.19	-76.1	-193.6	207.0	200.6	6.46	32.065		
1,900.0	1,897.3	1,875.3	1,860.7	3.5	4.6	92.96	-84.3	-209.0	223.9	217.0	6.88	32.528		
2,000.0	1,996.9	1,973.8	1,957.7	3.7	5.0	93.63	-92.4	-224.3	240.8	233.5	7.32	32.920		
2,100.0	2,096.5	2,072.4	2,054.6	3.9	5.3	94.20	-100.6	-239.6	257.8	250.0	7.75	33.256		
2,200.0	2,196.0	2,170.9	2,151.6	4.1	5.7	94.71	-108.8	-254.9	274.8	266.6	8.19	33.545		
2,300.0	2,295.6	2,269.4	2,248.6	4.3	6.0	95.16	-116.9	-270.2	291.8	283.1	8.63	33.796		
2,400.0	2,395.2	2,367.9	2,345.6	4.6	6.3	95.55	-125.1	-285.5	308.8	299.7	9.08	34.015		
2,500.0	2,494.8	2,466.5	2,442.6	4.8	6.7	95.91	-133.2	-300.8	325.8	316.3	9.52	34.208		
2,600.0	2,594.3	2,565.0	2,539.6	5.0	7.0	96.23	-141.4	-316.1	342.8	332.9	9.97	34.379		
2,700.0	2,693.9	2,663.5	2,636.5	5.3	7.4	96.52	-149.5	-331.4	359.9	349.5	10.42	34.531		
2,800.0	2,793.5	2,762.0	2,733.5	5.5	7.7	96.78	-157.7	-346.7	376.9	366.1	10.87	34.666		
2,900.0	2,893.0	2,860.5	2,830.5	5.7	8.1	97.02	-165.9	-362.1	394.0	382.7	11.33	34.788		
3,000.0	2,992.6	2,959.1	2,927.5	5.9	8.4	97.25	-174.0	-377.4	411.1	399.3	11.78	34.898		
3,100.0	3,092.2	3,057.6	3,024.5	6.2	8.8	97.45	-182.2	-392.7	428.1	415.9	12.23	34.997		
3,200.0	3,191.8	3,156.1	3,121.4	6.4	9.1	97.64	-190.3	-408.0	445.2	432.5	12.69	35.088		
3,300.0	3,291.3	3,254.6	3,218.4	6.6	9.5	97.81	-198.5	-423.3	462.3	449.1	13.14	35.170		
3,400.0	3,390.9	3,353.1	3,315.4	6.9	9.8	97.97	-206.6	-438.6	479.4	465.8	13.60	35.246		
3,500.0	3,490.5	3,451.7	3,412.4	7.1	10.2	98.12	-214.8	-453.9	496.5	482.4	14.06	35.315		
3,600.0	3,590.0	3,550.2	3,509.4	7.3	10.5	98.26	-223.0	-469.2	513.5	499.0	14.52	35.379		
3,700.0	3,689.6	3,648.7	3,606.4	7.6	10.9	98.39	-231.1	-484.5	530.6	515.7	14.97	35.438		
3,800.0	3,789.2	3,747.2	3,703.3	7.8	11.2	98.52	-239.3	-499.9	547.7	532.3	15.43	35.493		
3,900.0	3,888.8	3,845.8	3,800.3	8.0	11.6	98.63	-247.4	-515.2	564.8	548.9	15.89	35.543		
4,000.0	3,988.3	3,944.3	3,897.3	8.3	11.9	98.74	-255.6	-530.5	581.9	565.6	16.35	35.590		
4,100.0	4,087.9	4,042.8	3,994.3	8.5	12.3	98.84	-263.7	-545.8	599.0	582.2	16.81	35.634		
4,200.0	4,187.5	4,141.3	4,091.3	8.8	12.6	98.94	-271.9	-561.1	616.1	598.9	17.27	35.675		
4,300.0	4,287.0	4,239.8	4,188.2	9.0	13.0	99.03	-280.0	-576.4	633.2	615.5	17.73	35.714		
4,400.0	4,386.6	4,338.4	4,285.2	9.2	13.3	99.12	-288.2	-591.7	650.3	632.2	18.19	35.750		
4,500.0	4,486.2	4,436.9	4,382.2	9.5	13.7	99.20	-296.4	-607.0	667.5	648.8	18.65	35.784		
4,600.0	4,585.8	4,535.4	4,479.2	9.7	14.0	99.28	-304.5	-622.3	684.6	665.5	19.11	35.815		
4,700.0	4,685.3	4,633.9	4,576.2	9.9	14.4	99.36	-312.7	-637.6	701.7	682.1	19.58	35.845		
4,800.0	4,784.9	4,732.4	4,673.2	10.2	14.7	99.43	-320.8	-653.0	718.8	698.8	20.04	35.874		
4,900.0	4,884.5	4,831.0	4,770.1	10.4	15.1	99.49	-329.0	-668.3	735.9	715.4	20.50	35.900		
5,000.0	4,984.1	4,929.5	4,867.1	10.6	15.4	99.56	-337.1	-683.6	753.0	732.1	20.96	35.926		
5,100.0	5,083.6	5,028.0	4,964.1	10.9	15.8	99.62	-345.3	-698.9	770.1	748.7	21.42	35.950		

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

Anticollision Report

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

Offset Design													S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							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	5,183.2	5,126.5	5,061.1	11.1	16.1	99.68	-353.5	-714.2	787.2	765.4	21.88	35.972						
5,300.0	5,282.8	5,225.0	5,158.1	11.3	16.5	99.74	-361.6	-729.5	804.4	782.0	22.35	35.994						
5,400.0	5,382.3	5,323.6	5,255.0	11.6	16.8	99.79	-369.8	-744.8	821.5	798.7	22.81	36.015						
5,500.0	5,481.9	5,422.1	5,352.0	11.8	17.2	99.84	-377.9	-760.1	838.6	815.3	23.27	36.034						
5,600.0	5,581.5	5,520.6	5,449.0	12.0	17.5	99.89	-386.1	-775.4	855.7	832.0	23.74	36.053						
5,700.0	5,681.1	5,619.1	5,546.0	12.3	17.9	99.94	-394.2	-790.7	872.8	848.6	24.20	36.071						
5,800.0	5,780.6	5,717.7	5,643.0	12.5	18.2	99.99	-402.4	-806.1	890.0	865.3	24.66	36.087						
5,900.0	5,880.2	5,816.2	5,740.0	12.8	18.6	100.03	-410.6	-821.4	907.1	881.9	25.12	36.104						
6,000.0	5,979.8	5,914.7	5,836.9	13.0	18.9	100.07	-418.7	-836.7	924.2	898.6	25.59	36.119						
6,100.0	6,079.3	6,013.2	5,933.9	13.2	19.3	100.11	-426.9	-852.0	941.3	915.3	26.05	36.134						
6,200.0	6,178.9	6,111.7	6,030.9	13.5	19.6	100.15	-435.0	-867.3	958.4	931.9	26.51	36.148						
6,300.0	6,278.5	6,210.3	6,127.9	13.7	20.0	100.19	-443.2	-882.6	975.6	948.6	26.98	36.162						
6,400.0	6,378.1	6,308.8	6,224.9	13.9	20.3	100.23	-451.3	-897.9	992.7	965.2	27.44	36.175						

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4F-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	-40.0	40.0	39.8	0.24	168.521		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-40.0	40.0	39.4	0.59	68.211		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-40.0	40.0	39.1	0.94	42.759		
400.0	400.0	400.0	400.0	0.6	0.6	-89.95	0.0	-40.0	40.0	38.7	1.28	31.140		
500.0	500.0	500.0	500.0	0.8	0.8	-89.95	0.0	-40.0	40.0	38.4	1.63	24.486		
600.0	600.0	600.0	600.0	1.0	1.0	-89.95	0.0	-40.0	40.0	38.0	1.98	20.175		
700.0	700.0	700.0	700.0	1.2	1.2	-89.95	0.0	-40.0	40.0	37.7	2.33	17.155	CC, ES	
800.0	800.0	798.8	798.8	1.3	1.3	-91.27	-0.9	-41.4	41.4	38.8	2.68	15.468		
900.0	900.0	897.4	897.2	1.5	1.5	-94.70	-3.8	-45.6	45.9	42.9	3.03	15.145		
1,000.0	1,000.0	995.5	995.0	1.7	1.7	-99.12	-8.5	-52.6	53.6	50.2	3.38	15.828		
1,100.0	1,100.0	1,092.9	1,091.7	1.9	1.9	-103.49	-15.0	-62.3	64.6	60.9	3.74	17.285		
1,200.0	1,200.0	1,190.6	1,188.2	2.0	2.2	83.69	-23.2	-74.6	78.7	74.7	4.08	19.310		
1,300.0	1,299.8	1,289.6	1,286.0	2.2	2.5	83.68	-31.8	-87.4	93.1	88.6	4.44	20.956		
1,400.0	1,399.5	1,388.5	1,383.7	2.4	2.8	85.47	-40.4	-100.3	107.1	102.3	4.82	22.203		
1,500.0	1,499.0	1,487.4	1,481.4	2.6	3.0	87.33	-49.0	-113.1	121.2	116.0	5.22	23.213		
1,600.0	1,598.6	1,586.4	1,579.2	2.8	3.3	88.80	-57.6	-125.9	135.4	129.8	5.63	24.053		
1,700.0	1,698.2	1,685.3	1,676.9	3.0	3.6	90.00	-66.3	-138.8	149.7	143.7	6.05	24.756		
1,800.0	1,797.8	1,784.2	1,774.6	3.2	3.9	90.99	-74.9	-151.6	164.0	157.6	6.47	25.349		
1,900.0	1,897.3	1,883.2	1,872.3	3.5	4.3	91.81	-83.5	-164.5	178.4	171.5	6.90	25.854		
2,000.0	1,996.9	1,982.1	1,970.0	3.7	4.6	92.52	-92.1	-177.3	192.8	185.5	7.33	26.286		
2,100.0	2,096.5	2,081.0	2,067.7	3.9	4.9	93.12	-100.7	-190.2	207.2	199.4	7.77	26.660		
2,200.0	2,196.0	2,180.0	2,165.4	4.1	5.2	93.65	-109.4	-203.0	221.7	213.4	8.21	26.986		
2,300.0	2,295.6	2,278.9	2,263.2	4.3	5.5	94.11	-118.0	-215.9	236.1	227.5	8.66	27.272		
2,400.0	2,395.2	2,377.8	2,360.9	4.6	5.8	94.52	-126.6	-228.7	250.6	241.5	9.10	27.524		
2,500.0	2,494.8	2,476.8	2,458.6	4.8	6.1	94.89	-135.2	-241.6	265.1	255.5	9.55	27.747		
2,600.0	2,594.3	2,575.7	2,556.3	5.0	6.4	95.22	-143.9	-254.4	279.6	269.6	10.00	27.947		
2,700.0	2,693.9	2,674.6	2,654.0	5.3	6.8	95.51	-152.5	-267.2	294.1	283.6	10.46	28.125		
2,800.0	2,793.5	2,773.6	2,751.7	5.5	7.1	95.78	-161.1	-280.1	308.6	297.7	10.91	28.287		
2,900.0	2,893.0	2,872.5	2,849.5	5.7	7.4	96.02	-169.7	-292.9	323.1	311.7	11.36	28.432		
3,000.0	2,992.6	2,971.4	2,947.2	5.9	7.7	96.24	-178.3	-305.8	337.6	325.8	11.82	28.565		
3,100.0	3,092.2	3,070.4	3,044.9	6.2	8.0	96.45	-187.0	-318.6	352.1	339.8	12.27	28.686		
3,200.0	3,191.8	3,169.3	3,142.6	6.4	8.4	96.63	-195.6	-331.5	366.6	353.9	12.73	28.796		
3,300.0	3,291.3	3,268.2	3,240.3	6.6	8.7	96.81	-204.2	-344.3	381.2	368.0	13.19	28.898		
3,400.0	3,390.9	3,367.2	3,338.0	6.9	9.0	96.97	-212.8	-357.2	395.7	382.1	13.65	28.992		
3,500.0	3,490.5	3,466.1	3,435.7	7.1	9.3	97.12	-221.4	-370.0	410.2	396.1	14.11	29.078		
3,600.0	3,590.0	3,565.0	3,533.5	7.3	9.6	97.26	-230.1	-382.9	424.8	410.2	14.57	29.158		
3,700.0	3,689.6	3,664.0	3,631.2	7.6	9.9	97.39	-238.7	-395.7	439.3	424.3	15.03	29.232		
3,800.0	3,789.2	3,762.9	3,728.9	7.8	10.3	97.51	-247.3	-408.6	453.9	438.4	15.49	29.302		
3,900.0	3,888.8	3,861.8	3,826.6	8.0	10.6	97.62	-255.9	-421.4	468.4	452.5	15.95	29.366		
4,000.0	3,988.3	3,960.7	3,924.3	8.3	10.9	97.73	-264.5	-434.2	483.0	466.5	16.41	29.427		
4,100.0	4,087.9	4,059.7	4,022.0	8.5	11.2	97.83	-273.2	-447.1	497.5	480.6	16.87	29.483		
4,200.0	4,187.5	4,158.6	4,119.8	8.8	11.5	97.93	-281.8	-459.9	512.0	494.7	17.34	29.536		
4,300.0	4,287.0	4,257.5	4,217.5	9.0	11.9	98.02	-290.4	-472.8	526.6	508.8	17.80	29.586		
4,400.0	4,386.6	4,356.5	4,315.2	9.2	12.2	98.10	-299.0	-485.6	541.2	522.9	18.26	29.633		
4,500.0	4,486.2	4,455.4	4,412.9	9.5	12.5	98.18	-307.7	-498.5	555.7	537.0	18.72	29.677		
4,600.0	4,585.8	4,554.3	4,510.6	9.7	12.8	98.26	-316.3	-511.3	570.3	551.1	19.19	29.719		
4,700.0	4,685.3	4,653.3	4,608.3	9.9	13.2	98.33	-324.9	-524.2	584.8	565.2	19.65	29.759		
4,800.0	4,784.9	4,752.2	4,706.0	10.2	13.5	98.40	-333.5	-537.0	599.4	579.3	20.12	29.796		
4,900.0	4,884.5	4,851.1	4,803.8	10.4	13.8	98.47	-342.1	-549.9	613.9	593.3	20.58	29.832		
5,000.0	4,984.1	4,950.1	4,901.5	10.6	14.1	98.53	-350.8	-562.7	628.5	607.4	21.04	29.866		
5,100.0	5,083.6	5,049.0	4,999.2	10.9	14.4	98.59	-359.4	-575.5	643.0	621.5	21.51	29.898		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4F-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,183.2	5,147.9	5,096.9	11.1	14.8	98.65	-368.0	-588.4	657.6	635.6	21.97	29.929		
5,300.0	5,282.8	5,246.9	5,194.6	11.3	15.1	98.70	-376.6	-601.2	672.2	649.7	22.44	29.958		
5,400.0	5,382.3	5,345.8	5,292.3	11.6	15.4	98.75	-385.2	-614.1	686.7	663.8	22.90	29.986		
5,500.0	5,481.9	5,444.7	5,390.1	11.8	15.7	98.80	-393.9	-626.9	701.3	677.9	23.37	30.012		
5,600.0	5,581.5	5,543.7	5,487.8	12.0	16.0	98.85	-402.5	-639.8	715.8	692.0	23.83	30.038		
5,700.0	5,681.1	5,642.6	5,585.5	12.3	16.4	98.90	-411.1	-652.6	730.4	706.1	24.30	30.062		
5,800.0	5,780.6	5,741.5	5,683.2	12.5	16.7	98.94	-419.7	-665.5	745.0	720.2	24.76	30.085		
5,900.0	5,880.2	5,840.5	5,780.9	12.8	17.0	98.98	-428.3	-678.3	759.5	734.3	25.23	30.108		
6,000.0	5,979.8	5,939.4	5,878.6	13.0	17.3	99.03	-437.0	-691.2	774.1	748.4	25.69	30.129		
6,100.0	6,079.3	6,038.3	5,976.3	13.2	17.7	99.07	-445.6	-704.0	788.6	762.5	26.16	30.150		
6,200.0	6,178.9	6,137.3	6,074.1	13.5	18.0	99.10	-454.2	-716.8	803.2	776.6	26.62	30.170		
6,300.0	6,278.5	6,236.2	6,171.8	13.7	18.3	99.14	-462.8	-729.7	817.8	790.7	27.09	30.189		
6,400.0	6,378.1	6,335.1	6,269.5	13.9	18.6	99.18	-471.4	-742.5	832.3	804.8	27.55	30.207		
6,500.0	6,477.6	6,434.1	6,367.2	14.2	18.9	99.21	-480.1	-755.4	846.9	818.9	28.02	30.225		
6,600.0	6,577.2	6,533.0	6,464.9	14.4	19.3	99.24	-488.7	-768.2	861.5	833.0	28.49	30.242		
6,700.0	6,676.8	6,631.9	6,562.6	14.6	19.6	99.28	-497.3	-781.1	876.0	847.1	28.95	30.258		
6,800.0	6,776.3	6,730.9	6,660.4	14.9	19.9	99.31	-505.9	-793.9	890.6	861.2	29.42	30.274		
6,900.0	6,875.9	6,829.8	6,758.1	15.1	20.2	100.67	-514.6	-806.8	905.2	875.3	29.89	30.279		
7,000.0	6,975.8	6,928.8	6,856.0	15.2	20.5	-98.78	-519.0	-819.6	919.7	889.5	30.28	30.374		
7,100.0	7,074.0	7,028.7	6,954.3	15.1	20.6	-91.57	-507.0	-832.6	934.1	903.8	30.30	30.830		
7,200.0	7,167.6	7,129.9	7,050.1	14.9	20.6	-89.28	-477.5	-845.2	947.7	917.7	29.97	31.620		
7,300.0	7,253.8	7,232.3	7,140.3	14.6	20.5	-87.84	-430.8	-857.0	960.2	930.8	29.36	32.702		
7,400.0	7,329.8	7,336.0	7,221.8	14.2	20.4	-86.77	-367.7	-867.7	971.2	942.6	28.58	33.987		
7,500.0	7,393.5	7,441.0	7,291.5	13.9	20.2	-85.96	-290.0	-876.9	980.4	952.6	27.77	35.309		
7,600.0	7,442.9	7,547.1	7,346.5	13.6	20.1	-85.37	-199.7	-884.1	987.4	960.3	27.12	36.409		
7,700.0	7,476.4	7,653.9	7,384.2	13.5	20.1	-85.00	-100.0	-889.1	992.1	965.3	26.83	36.971		
7,800.0	7,493.1	7,761.3	7,403.0	13.7	20.2	-84.82	5.5	-891.5	994.2	967.2	27.06	36.748		
7,900.0	7,495.0	7,864.6	7,405.0	14.0	20.4	-84.81	108.8	-891.8	994.2	966.4	27.79	35.771		
8,000.0	7,495.0	7,964.6	7,405.0	14.6	20.8	-84.80	208.8	-891.8	993.8	964.9	28.91	34.374		
8,100.0	7,495.0	8,064.6	7,405.0	15.3	21.3	-84.80	308.8	-891.8	993.5	963.1	30.39	32.690		
8,200.0	7,495.0	8,164.6	7,405.0	16.2	22.0	-84.80	408.8	-891.8	993.1	960.9	32.18	30.859		
8,300.0	7,495.0	8,264.6	7,405.0	17.2	22.7	-84.80	508.8	-891.8	992.8	958.5	34.24	28.997		
8,400.0	7,495.0	8,364.6	7,405.0	18.4	23.6	-84.80	608.8	-891.8	992.4	955.9	36.51	27.181		
8,500.0	7,495.0	8,464.6	7,405.0	19.6	24.6	-84.79	708.8	-891.8	992.1	953.1	38.97	25.459		
8,600.0	7,495.0	8,564.6	7,405.0	20.9	25.6	-84.79	808.8	-891.8	991.7	950.1	41.57	23.855		
8,700.0	7,495.0	8,664.6	7,405.0	22.3	26.7	-84.79	908.8	-891.8	991.4	947.1	44.30	22.379		
8,800.0	7,495.0	8,764.6	7,405.0	23.7	27.9	-84.79	1,008.8	-891.8	991.0	943.9	47.13	21.028		
8,900.0	7,495.0	8,864.6	7,405.0	25.1	29.2	-84.79	1,108.8	-891.8	990.7	940.6	50.04	19.797		
9,000.0	7,495.0	8,964.6	7,405.0	26.6	30.5	-84.79	1,208.8	-891.8	990.3	937.3	53.02	18.677		
9,100.0	7,495.0	9,064.6	7,405.0	28.2	31.8	-84.78	1,308.8	-891.8	990.0	933.9	56.07	17.657		
9,200.0	7,495.0	9,164.6	7,405.0	29.7	33.2	-84.78	1,408.8	-891.8	989.6	930.5	59.16	16.729		
9,300.0	7,495.0	9,264.6	7,405.0	31.3	34.6	-84.78	1,508.8	-891.8	989.3	927.0	62.29	15.881		
9,400.0	7,495.0	9,364.6	7,405.0	32.9	36.0	-84.78	1,608.8	-891.8	988.9	923.5	65.46	15.107		
9,500.0	7,495.0	9,464.6	7,405.0	34.5	37.5	-84.78	1,708.8	-891.8	988.6	919.9	68.67	14.397		
9,600.0	7,495.0	9,564.6	7,405.0	36.1	39.0	-84.77	1,808.8	-891.8	988.2	916.3	71.90	13.746		
9,700.0	7,495.0	9,664.6	7,405.0	37.7	40.5	-84.77	1,908.8	-891.8	987.9	912.7	75.15	13.146		
9,800.0	7,495.0	9,764.6	7,405.0	39.4	42.1	-84.77	2,008.8	-891.8	987.5	909.1	78.42	12.593		
9,900.0	7,495.0	9,864.6	7,405.0	41.0	43.6	-84.77	2,108.8	-891.8	987.2	905.5	81.71	12.081		
10,000.0	7,495.0	9,964.6	7,405.0	42.7	45.2	-84.77	2,208.8	-891.8	986.9	901.8	85.02	11.607		
10,100.0	7,495.0	10,064.6	7,405.0	44.3	46.7	-84.77	2,308.8	-891.8	986.5	898.2	88.34	11.167		
10,200.0	7,495.0	10,164.6	7,405.0	46.0	48.3	-84.76	2,408.8	-891.8	986.2	894.5	91.68	10.757		
10,300.0	7,495.0	10,264.6	7,405.0	47.7	49.9	-84.76	2,508.8	-891.8	985.8	890.8	95.03	10.374		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4F-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		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	10,364.6	7,405.0	49.4	51.5	-84.76	2,608.8	-891.8	985.5	887.1	98.38	10.017		
10,500.0	7,495.0	10,464.6	7,405.0	51.1	53.2	-84.76	2,708.8	-891.8	985.1	883.4	101.75	9.682		
10,600.0	7,495.0	10,564.6	7,405.0	52.8	54.8	-84.76	2,808.8	-891.8	984.8	879.6	105.12	9.368		
10,700.0	7,495.0	10,664.6	7,405.0	54.5	56.4	-84.75	2,908.8	-891.8	984.4	875.9	108.50	9.073		
10,800.0	7,495.0	10,764.6	7,405.0	56.2	58.1	-84.75	3,008.8	-891.8	984.1	872.2	111.89	8.795		
10,900.0	7,495.0	10,864.6	7,405.0	57.9	59.7	-84.75	3,108.8	-891.8	983.7	868.4	115.29	8.533		
11,000.0	7,495.0	10,964.6	7,405.0	59.6	61.4	-84.75	3,208.8	-891.8	983.4	864.7	118.69	8.285		
11,100.0	7,495.0	11,064.6	7,405.0	61.3	63.0	-84.75	3,308.8	-891.8	983.0	860.9	122.09	8.052		
11,200.0	7,495.0	11,164.6	7,405.0	63.0	64.7	-84.75	3,408.8	-891.8	982.7	857.2	125.50	7.830		
11,300.0	7,495.0	11,264.6	7,405.0	64.7	66.4	-84.74	3,508.8	-891.8	982.3	853.4	128.92	7.620		
11,400.0	7,495.0	11,364.6	7,405.0	66.4	68.0	-84.74	3,608.8	-891.8	982.0	849.6	132.34	7.420		
11,500.0	7,495.0	11,464.6	7,405.0	68.1	69.7	-84.74	3,708.8	-891.8	981.6	845.9	135.76	7.231		
11,600.0	7,495.0	11,564.6	7,405.0	69.9	71.4	-84.74	3,808.8	-891.8	981.3	842.1	139.18	7.050		
11,700.0	7,495.0	11,664.6	7,405.0	71.6	73.1	-84.74	3,908.8	-891.8	980.9	838.3	142.61	6.878		
11,800.0	7,495.0	11,764.6	7,405.0	73.3	74.8	-84.73	4,008.8	-891.8	980.6	834.5	146.05	6.714		
11,900.0	7,495.0	11,864.6	7,405.0	75.0	76.5	-84.73	4,108.8	-891.8	980.2	830.8	149.48	6.558		
12,000.0	7,495.0	11,964.6	7,405.0	76.8	78.2	-84.73	4,208.8	-891.8	979.9	827.0	152.92	6.408		
12,100.0	7,495.0	12,064.6	7,405.0	78.5	79.9	-84.73	4,308.8	-891.8	979.5	823.2	156.36	6.265		
12,200.0	7,495.0	12,164.6	7,405.0	80.2	81.6	-84.73	4,408.8	-891.8	979.2	819.4	159.80	6.128		
12,300.0	7,495.0	12,264.6	7,405.0	81.9	83.3	-84.72	4,508.8	-891.8	978.9	815.6	163.25	5.996		
12,400.0	7,495.0	12,364.6	7,405.0	83.7	85.0	-84.72	4,608.8	-891.8	978.5	811.8	166.69	5.870		
12,500.0	7,495.0	12,464.6	7,405.0	85.4	86.7	-84.72	4,708.8	-891.8	978.2	808.0	170.14	5.749		
12,600.0	7,495.0	12,564.6	7,405.0	87.1	88.4	-84.72	4,808.7	-891.8	977.8	804.2	173.59	5.633		
12,700.0	7,495.0	12,664.6	7,405.0	88.9	90.1	-84.72	4,908.7	-891.8	977.5	800.4	177.04	5.521		
12,800.0	7,495.0	12,764.6	7,405.0	90.6	91.8	-84.72	5,008.7	-891.8	977.1	796.6	180.50	5.413		
12,900.0	7,495.0	12,864.6	7,405.0	92.3	93.5	-84.71	5,108.7	-891.8	976.8	792.8	183.95	5.310		
13,000.0	7,495.0	12,964.6	7,405.0	94.1	95.2	-84.71	5,208.7	-891.8	976.4	789.0	187.41	5.210		
13,100.0	7,495.0	13,064.6	7,405.0	95.8	96.9	-84.71	5,308.7	-891.8	976.1	785.2	190.87	5.114		
13,200.0	7,495.0	13,164.6	7,405.0	97.5	98.7	-84.70	5,408.7	-891.8	975.3	780.9	194.46	5.016		
13,300.0	7,495.0	13,264.6	7,405.0	99.3	100.4	-84.69	5,508.7	-891.8	972.9	774.8	198.06	4.912		
13,400.0	7,495.0	13,364.5	7,405.0	101.0	102.1	-84.66	5,608.6	-891.8	968.8	767.2	201.60	4.805		
13,500.0	7,495.0	13,464.3	7,405.0	102.8	103.8	-84.63	5,708.5	-891.8	963.0	757.9	205.08	4.696		
13,600.0	7,495.0	13,564.1	7,405.0	104.5	105.5	-84.59	5,808.3	-891.8	956.8	748.3	208.52	4.589		
13,700.0	7,495.0	13,663.9	7,405.0	106.2	107.2	-84.56	5,908.1	-891.8	950.7	738.7	211.97	4.485		
13,800.0	7,495.0	13,763.8	7,405.0	108.0	109.0	-84.52	6,007.9	-891.8	944.6	729.1	215.42	4.385		
13,900.0	7,495.0	13,863.6	7,405.0	109.7	110.7	-84.49	6,107.7	-891.8	938.4	719.6	218.86	4.288		
14,000.0	7,495.0	13,963.4	7,405.0	111.4	112.4	-84.45	6,207.5	-891.8	932.3	710.0	222.31	4.194		
14,100.0	7,495.0	14,063.2	7,405.0	113.2	114.1	-84.41	6,307.3	-891.8	926.2	700.4	225.76	4.102		
14,200.0	7,495.0	14,163.0	7,405.0	114.9	115.9	-84.38	6,407.1	-891.8	920.0	690.8	229.21	4.014		
14,300.0	7,495.0	14,262.8	7,405.0	116.7	117.6	-84.34	6,506.9	-891.8	913.9	681.2	232.66	3.928 SF		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4G-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	-89.95	0.0	-29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	-29.9	29.9	29.7	0.24	126.096		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-29.9	29.9	29.3	0.59	51.039		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-29.9	29.9	29.0	0.94	31.995		
400.0	400.0	400.0	400.0	0.6	0.6	-89.95	0.0	-29.9	29.9	28.6	1.28	23.300		
500.0	500.0	500.0	500.0	0.8	0.8	-89.95	0.0	-29.9	29.9	28.3	1.63	18.322		
600.0	600.0	600.0	600.0	1.0	1.0	-89.95	0.0	-29.9	29.9	27.9	1.98	15.096		
700.0	700.0	700.0	700.0	1.2	1.2	-89.95	0.0	-29.9	29.9	27.6	2.33	12.836		
800.0	800.0	800.0	800.0	1.3	1.3	-89.95	0.0	-29.9	29.9	27.3	2.68	11.165 CC, ES		
900.0	900.0	899.2	899.2	1.5	1.5	-92.05	-1.1	-31.2	31.2	28.2	3.03	10.315		
1,000.0	1,000.0	998.1	998.0	1.7	1.7	-97.36	-4.5	-35.0	35.4	32.0	3.38	10.471		
1,100.0	1,100.0	1,096.6	1,096.1	1.9	1.9	-103.81	-10.2	-41.4	42.8	39.1	3.74	11.459		
1,200.0	1,200.0	1,194.8	1,193.6	2.0	2.1	81.86	-18.0	-50.2	53.4	49.3	4.08	13.087		
1,300.0	1,299.8	1,294.2	1,292.1	2.2	2.3	81.57	-26.7	-59.9	64.7	60.3	4.45	14.552		
1,400.0	1,399.5	1,393.5	1,390.6	2.4	2.6	83.86	-35.3	-69.6	75.6	70.8	4.83	15.647		
1,500.0	1,499.0	1,492.9	1,489.1	2.6	2.8	86.17	-44.0	-79.4	86.5	81.3	5.23	16.544		
1,600.0	1,598.6	1,592.2	1,587.5	2.8	3.1	87.96	-52.6	-89.1	97.5	91.9	5.64	17.299		
1,700.0	1,698.2	1,691.6	1,686.0	3.0	3.4	89.38	-61.3	-98.8	108.6	102.6	6.06	17.939		
1,800.0	1,797.8	1,790.9	1,784.5	3.2	3.6	90.54	-69.9	-108.6	119.8	113.3	6.48	18.484		
1,900.0	1,897.3	1,890.3	1,883.0	3.5	3.9	91.51	-78.6	-118.3	131.0	124.1	6.91	18.952		
2,000.0	1,996.9	1,989.6	1,981.5	3.7	4.2	92.32	-87.3	-128.0	142.2	134.9	7.35	19.357		
2,100.0	2,096.5	2,089.0	2,080.0	3.9	4.5	93.01	-95.9	-137.8	153.5	145.7	7.79	19.710		
2,200.0	2,196.0	2,188.3	2,178.5	4.1	4.7	93.61	-104.6	-147.5	164.8	156.5	8.23	20.019		
2,300.0	2,295.6	2,287.7	2,277.0	4.3	5.0	94.13	-113.2	-157.2	176.0	167.4	8.68	20.293		
2,400.0	2,395.2	2,387.0	2,375.5	4.6	5.3	94.59	-121.9	-167.0	187.3	178.2	9.12	20.535		
2,500.0	2,494.8	2,486.4	2,474.0	4.8	5.6	94.99	-130.6	-176.7	198.7	189.1	9.57	20.752		
2,600.0	2,594.3	2,585.7	2,572.5	5.0	5.8	95.35	-139.2	-186.4	210.0	200.0	10.02	20.946		
2,700.0	2,693.9	2,685.1	2,670.9	5.3	6.1	95.68	-147.9	-196.2	221.3	210.8	10.48	21.121		
2,800.0	2,793.5	2,784.4	2,769.4	5.5	6.4	95.97	-156.5	-205.9	232.6	221.7	10.93	21.279		
2,900.0	2,893.0	2,883.8	2,867.9	5.7	6.7	96.24	-165.2	-215.6	244.0	232.6	11.39	21.424		
3,000.0	2,992.6	2,983.1	2,966.4	5.9	7.0	96.48	-173.9	-225.4	255.3	243.5	11.84	21.555		
3,100.0	3,092.2	3,082.4	3,064.9	6.2	7.3	96.70	-182.5	-235.1	266.7	254.4	12.30	21.676		
3,200.0	3,191.8	3,181.8	3,163.4	6.4	7.5	96.91	-191.2	-244.8	278.0	265.3	12.76	21.787		
3,300.0	3,291.3	3,281.1	3,261.9	6.6	7.8	97.09	-199.8	-254.6	289.4	276.2	13.22	21.889		
3,400.0	3,390.9	3,380.5	3,360.4	6.9	8.1	97.27	-208.5	-264.3	300.7	287.1	13.68	21.983		
3,500.0	3,490.5	3,479.8	3,458.9	7.1	8.4	97.43	-217.2	-274.0	312.1	298.0	14.14	22.071		
3,600.0	3,590.0	3,579.2	3,557.4	7.3	8.7	97.58	-225.8	-283.8	323.5	308.9	14.60	22.152		
3,700.0	3,689.6	3,678.5	3,655.9	7.6	9.0	97.72	-234.5	-293.5	334.8	319.8	15.06	22.228		
3,800.0	3,789.2	3,777.9	3,754.3	7.8	9.2	97.85	-243.1	-303.2	346.2	330.7	15.52	22.299		
3,900.0	3,888.8	3,877.2	3,852.8	8.0	9.5	97.97	-251.8	-313.0	357.6	341.6	15.99	22.365		
4,000.0	3,988.3	3,976.6	3,951.3	8.3	9.8	98.09	-260.5	-322.7	368.9	352.5	16.45	22.427		
4,100.0	4,087.9	4,075.9	4,049.8	8.5	10.1	98.19	-269.1	-332.4	380.3	363.4	16.91	22.485		
4,200.0	4,187.5	4,175.3	4,148.3	8.8	10.4	98.29	-277.8	-342.1	391.7	374.3	17.38	22.540		
4,300.0	4,287.0	4,274.6	4,246.8	9.0	10.7	98.39	-286.4	-351.9	403.0	385.2	17.84	22.592		
4,400.0	4,386.6	4,374.0	4,345.3	9.2	10.9	98.48	-295.1	-361.6	414.4	396.1	18.30	22.641		
4,500.0	4,486.2	4,473.3	4,443.8	9.5	11.2	98.57	-303.8	-371.3	425.8	407.0	18.77	22.687		
4,600.0	4,585.8	4,572.7	4,542.3	9.7	11.5	98.65	-312.4	-381.1	437.2	417.9	19.23	22.731		
4,700.0	4,685.3	4,672.0	4,640.8	9.9	11.8	98.72	-321.1	-390.8	448.5	428.9	19.70	22.772		
4,800.0	4,784.9	4,771.4	4,739.3	10.2	12.1	98.80	-329.7	-400.5	459.9	439.8	20.16	22.812		
4,900.0	4,884.5	4,870.7	4,837.8	10.4	12.4	98.87	-338.4	-410.3	471.3	450.7	20.63	22.849		
5,000.0	4,984.1	4,970.1	4,936.2	10.6	12.7	98.93	-347.0	-420.0	482.7	461.6	21.09	22.885		
5,100.0	5,083.6	5,069.4	5,034.7	10.9	12.9	99.00	-355.7	-429.7	494.1	472.5	21.56	22.919		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4G-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,200.0	5,183.2	5,168.8	5,133.2	11.1	13.2	99.06	-364.4	-439.5	505.4	483.4	22.02	22.951		
5,300.0	5,282.8	5,268.1	5,231.7	11.3	13.5	99.12	-373.0	-449.2	516.8	494.3	22.49	22.982		
5,400.0	5,382.3	5,367.5	5,330.2	11.6	13.8	99.17	-381.7	-458.9	528.2	505.3	22.95	23.012		
5,500.0	5,481.9	5,466.8	5,428.7	11.8	14.1	99.22	-390.3	-468.7	539.6	516.2	23.42	23.040		
5,600.0	5,581.5	5,566.2	5,527.2	12.0	14.4	99.27	-399.0	-478.4	551.0	527.1	23.89	23.067		
5,700.0	5,681.1	5,665.5	5,625.7	12.3	14.7	99.32	-407.7	-488.1	562.4	538.0	24.35	23.093		
5,800.0	5,780.6	5,764.9	5,724.2	12.5	14.9	99.37	-416.3	-497.9	573.7	548.9	24.82	23.118		
5,900.0	5,880.2	5,864.2	5,822.7	12.8	15.2	99.41	-425.0	-507.6	585.1	559.8	25.28	23.142		
6,000.0	5,979.8	5,963.6	5,921.2	13.0	15.5	99.46	-433.6	-517.3	596.5	570.8	25.75	23.165		
6,100.0	6,079.3	6,062.9	6,019.6	13.2	15.8	99.50	-442.3	-527.1	607.9	581.7	26.22	23.187		
6,200.0	6,178.9	6,162.3	6,118.1	13.5	16.1	99.54	-451.0	-536.8	619.3	592.6	26.68	23.208		
6,300.0	6,278.5	6,261.6	6,216.6	13.7	16.4	99.58	-459.6	-546.5	630.7	603.5	27.15	23.229		
6,400.0	6,378.1	6,361.0	6,315.1	13.9	16.7	99.62	-468.3	-556.3	642.0	614.4	27.62	23.248		
6,500.0	6,477.6	6,460.3	6,413.6	14.2	16.9	99.65	-476.9	-566.0	653.4	625.3	28.08	23.267		
6,600.0	6,577.2	6,559.7	6,512.1	14.4	17.2	99.69	-485.6	-575.7	664.8	636.3	28.55	23.286		
6,700.0	6,676.8	6,659.0	6,610.6	14.6	17.5	99.72	-494.3	-585.5	676.2	647.2	29.02	23.303		
6,800.0	6,776.3	6,758.4	6,709.1	14.9	17.8	99.75	-502.9	-595.2	687.6	658.1	29.48	23.321		
6,900.0	6,875.9	6,857.7	6,807.6	15.1	18.1	101.10	-511.6	-604.9	699.0	669.0	29.96	23.333		
7,000.0	6,975.8	6,956.7	6,905.8	15.2	18.4	-99.05	-519.4	-614.6	710.4	680.1	30.29	23.448		
7,100.0	7,074.0	7,057.1	7,005.4	15.1	18.5	-92.79	-513.9	-624.5	721.7	691.4	30.26	23.851		
7,200.0	7,167.6	7,159.9	7,104.8	14.9	18.5	-91.39	-490.4	-634.3	732.6	702.7	29.90	24.505		
7,300.0	7,253.8	7,265.2	7,200.7	14.6	18.3	-90.77	-448.2	-643.8	742.8	713.5	29.28	25.372		
7,400.0	7,329.8	7,373.0	7,289.2	14.2	18.1	-90.42	-387.5	-652.5	751.9	723.4	28.51	26.375		
7,500.0	7,393.5	7,483.3	7,366.3	13.9	17.9	-90.21	-309.3	-660.1	759.6	731.9	27.74	27.381		
7,600.0	7,442.9	7,595.6	7,428.2	13.6	17.7	-90.09	-215.9	-666.2	765.5	738.4	27.15	28.196		
7,700.0	7,476.4	7,709.6	7,471.2	13.5	17.6	-90.02	-110.7	-670.5	769.5	742.5	26.92	28.586		
7,800.0	7,493.1	7,824.6	7,492.7	13.7	17.7	-90.00	2.1	-672.6	771.2	744.1	27.17	28.387		
7,900.0	7,495.0	7,931.4	7,495.0	14.0	18.0	-90.00	108.8	-672.8	771.1	743.2	27.91	27.628		
8,000.0	7,495.0	8,031.4	7,495.0	14.6	18.4	-90.00	208.8	-672.8	770.8	741.7	29.03	26.553		
8,100.0	7,495.0	8,131.4	7,495.0	15.3	19.0	-90.00	308.8	-672.8	770.4	739.9	30.51	25.252		
8,200.0	7,495.0	8,231.4	7,495.0	16.2	19.7	-90.00	408.8	-672.8	770.1	737.8	32.30	23.837		
8,300.0	7,495.0	8,331.4	7,495.0	17.2	20.6	-90.00	508.8	-672.8	769.7	735.3	34.37	22.398		
8,400.0	7,495.0	8,431.4	7,495.0	18.4	21.5	-90.00	608.8	-672.8	769.4	732.7	36.65	20.993		
8,500.0	7,495.0	8,531.4	7,495.0	19.6	22.6	-90.00	708.8	-672.8	769.0	729.9	39.11	19.662		
8,600.0	7,495.0	8,631.4	7,495.0	20.9	23.7	-90.00	808.8	-672.8	768.7	726.9	41.73	18.422		
8,700.0	7,495.0	8,731.4	7,495.0	22.3	24.9	-90.00	908.8	-672.8	768.3	723.8	44.46	17.280		
8,800.0	7,495.0	8,831.4	7,495.0	23.7	26.2	-90.00	1,008.8	-672.8	768.0	720.7	47.30	16.235		
8,900.0	7,495.0	8,931.4	7,495.0	25.1	27.5	-90.00	1,108.8	-672.8	767.6	717.4	50.23	15.283		
9,000.0	7,495.0	9,031.4	7,495.0	26.6	28.9	-90.00	1,208.8	-672.8	767.3	714.0	53.22	14.417		
9,100.0	7,495.0	9,131.4	7,495.0	28.2	30.3	-90.00	1,308.8	-672.8	766.9	710.6	56.27	13.628		
9,200.0	7,495.0	9,231.4	7,495.0	29.7	31.8	-90.00	1,408.8	-672.8	766.6	707.2	59.38	12.910		
9,300.0	7,495.0	9,331.3	7,495.0	31.3	33.2	-90.00	1,508.8	-672.8	766.2	703.7	62.53	12.254		
9,400.0	7,495.0	9,431.3	7,495.0	32.9	34.7	-90.00	1,608.8	-672.8	765.9	700.2	65.71	11.655		
9,500.0	7,495.0	9,531.3	7,495.0	34.5	36.3	-90.00	1,708.8	-672.8	765.5	696.6	68.92	11.107		
9,600.0	7,495.0	9,631.3	7,495.0	36.1	37.8	-90.00	1,808.8	-672.8	765.2	693.0	72.17	10.603		
9,700.0	7,495.0	9,731.3	7,495.0	37.7	39.4	-90.00	1,908.8	-672.8	764.8	689.4	75.43	10.139		
9,800.0	7,495.0	9,831.3	7,495.0	39.4	40.9	-90.00	2,008.8	-672.8	764.5	685.8	78.72	9.711		
9,900.0	7,495.0	9,931.3	7,495.0	41.0	42.5	-90.00	2,108.8	-672.8	764.1	682.1	82.03	9.316		
10,000.0	7,495.0	10,031.3	7,495.0	42.7	44.1	-90.00	2,208.8	-672.8	763.8	678.4	85.35	8.949		
10,100.0	7,495.0	10,131.3	7,495.0	44.3	45.7	-90.00	2,308.8	-672.8	763.4	674.7	88.68	8.608		
10,200.0	7,495.0	10,231.3	7,495.0	46.0	47.4	-90.00	2,408.8	-672.8	763.1	671.0	92.03	8.291		
10,300.0	7,495.0	10,331.3	7,495.0	47.7	49.0	-90.00	2,508.8	-672.8	762.7	667.3	95.39	7.996		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4G-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,400.0	7,495.0	10,431.3	7,495.0	49.4	50.6	-90.00	2,608.8	-672.8	762.4	663.6	98.76	7.719		
10,500.0	7,495.0	10,531.3	7,495.0	51.1	52.3	-90.00	2,708.8	-672.8	762.0	659.9	102.14	7.460		
10,600.0	7,495.0	10,631.3	7,495.0	52.8	53.9	-90.00	2,808.8	-672.8	761.7	656.1	105.53	7.218		
10,700.0	7,495.0	10,731.3	7,495.0	54.5	55.6	-90.00	2,908.8	-672.8	761.3	652.4	108.93	6.989		
10,800.0	7,495.0	10,831.3	7,495.0	56.2	57.3	-90.00	3,008.8	-672.8	761.0	648.6	112.33	6.775		
10,900.0	7,495.0	10,931.3	7,495.0	57.9	58.9	-90.00	3,108.8	-672.8	760.6	644.9	115.74	6.572		
11,000.0	7,495.0	11,031.3	7,495.0	59.6	60.6	-90.00	3,208.8	-672.8	760.3	641.1	119.15	6.381		
11,100.0	7,495.0	11,131.3	7,495.0	61.3	62.3	-90.00	3,308.8	-672.8	759.9	637.4	122.57	6.200		
11,200.0	7,495.0	11,231.3	7,495.0	63.0	64.0	-90.00	3,408.8	-672.8	759.6	633.6	126.00	6.029		
11,300.0	7,495.0	11,331.3	7,495.0	64.7	65.7	-90.00	3,508.8	-672.8	759.2	629.8	129.43	5.866		
11,400.0	7,495.0	11,431.3	7,495.0	66.4	67.4	-90.00	3,608.8	-672.8	758.9	626.0	132.86	5.712		
11,500.0	7,495.0	11,531.3	7,495.0	68.1	69.1	-90.00	3,708.8	-672.8	758.5	622.2	136.30	5.565		
11,600.0	7,495.0	11,631.3	7,495.0	69.9	70.8	-90.00	3,808.8	-672.8	758.2	618.4	139.74	5.426		
11,700.0	7,495.0	11,731.3	7,495.0	71.6	72.5	-90.00	3,908.8	-672.8	757.8	614.7	143.18	5.293		
11,800.0	7,495.0	11,831.3	7,495.0	73.3	74.2	-90.00	4,008.8	-672.8	757.5	610.9	146.63	5.166		
11,900.0	7,495.0	11,931.3	7,495.0	75.0	75.9	-90.00	4,108.8	-672.8	757.1	607.1	150.08	5.045		
12,000.0	7,495.0	12,031.3	7,495.0	76.8	77.6	-90.00	4,208.8	-672.8	756.8	603.3	153.53	4.929		
12,100.0	7,495.0	12,131.3	7,495.0	78.5	79.3	-90.00	4,308.8	-672.8	756.4	599.5	156.99	4.819		
12,200.0	7,495.0	12,231.3	7,495.0	80.2	81.0	-90.00	4,408.8	-672.8	756.1	595.6	160.44	4.713		
12,300.0	7,495.0	12,331.3	7,495.0	81.9	82.7	-90.00	4,508.8	-672.8	755.7	591.8	163.90	4.611		
12,400.0	7,495.0	12,431.3	7,495.0	83.7	84.4	-90.00	4,608.8	-672.8	755.4	588.0	167.36	4.513		
12,500.0	7,495.0	12,531.3	7,495.0	85.4	86.1	-90.00	4,708.7	-672.8	755.0	584.2	170.83	4.420		
12,600.0	7,495.0	12,631.3	7,495.0	87.1	87.9	-90.00	4,808.7	-672.8	754.7	580.4	174.29	4.330		
12,700.0	7,495.0	12,731.3	7,495.0	88.9	89.6	-90.00	4,908.7	-672.8	754.3	576.6	177.76	4.244		
12,800.0	7,495.0	12,831.3	7,495.0	90.6	91.3	-90.00	5,008.7	-672.8	754.0	572.8	181.23	4.160		
12,900.0	7,495.0	12,931.3	7,495.0	92.3	93.0	-90.00	5,108.7	-672.8	753.6	568.9	184.70	4.080		
13,000.0	7,495.0	13,031.3	7,495.0	94.1	94.7	-90.00	5,208.7	-672.8	753.3	565.1	188.17	4.003		
13,100.0	7,495.0	13,131.3	7,495.0	95.8	96.5	-90.00	5,308.7	-672.8	752.9	561.3	191.64	3.929		
13,200.0	7,495.0	13,231.3	7,495.0	97.5	98.2	-90.00	5,408.7	-672.8	752.2	557.0	195.21	3.853		
13,300.0	7,495.0	13,331.3	7,495.0	99.3	99.9	-90.00	5,508.7	-672.8	749.8	551.0	198.77	3.772		
13,400.0	7,495.0	13,431.2	7,495.0	101.0	101.6	-90.00	5,608.6	-672.8	745.6	543.3	202.28	3.686		
13,500.0	7,495.0	13,531.0	7,495.0	102.8	103.4	-90.00	5,708.5	-672.8	739.8	534.1	205.74	3.596		
13,600.0	7,495.0	13,630.8	7,495.0	104.5	105.1	-90.00	5,808.3	-672.8	733.6	524.4	209.21	3.507		
13,700.0	7,495.0	13,730.7	7,495.0	106.2	106.8	-90.00	5,908.1	-672.8	727.5	514.8	212.69	3.420		
13,800.0	7,495.0	13,830.5	7,495.0	108.0	108.6	-90.00	6,007.9	-672.8	721.3	505.1	216.16	3.337		
13,900.0	7,495.0	13,930.3	7,495.0	109.7	110.3	-90.00	6,107.7	-672.8	715.1	495.5	219.64	3.256		
14,000.0	7,495.0	14,030.1	7,495.0	111.4	112.0	-90.00	6,207.5	-672.8	709.0	485.9	223.11	3.178		
14,100.0	7,495.0	14,129.9	7,495.0	113.2	113.7	-90.00	6,307.3	-672.8	702.8	476.2	226.59	3.102		
14,200.0	7,495.0	14,229.7	7,495.0	114.9	115.5	-90.00	6,407.1	-672.8	696.6	466.6	230.07	3.028		
14,300.0	7,495.0	14,329.5	7,495.0	116.7	117.2	-90.00	6,506.9	-672.8	690.5	456.9	233.55	2.956 SF		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 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)				
0.0	0.0	1.0	1.0	0.0	0.0	-89.95	0.0	-20.1	20.1					
100.0	100.0	101.0	101.0	0.1	0.1	-89.95	0.0	-20.1	20.1	19.9	0.24	84.230		
200.0	200.0	201.0	201.0	0.3	0.3	-89.95	0.0	-20.1	20.1	19.6	0.59	34.242		
300.0	300.0	301.0	301.0	0.5	0.5	-89.95	0.0	-20.1	20.1	19.2	0.94	21.489		
400.0	400.0	401.0	401.0	0.6	0.6	-89.95	0.0	-20.1	20.1	18.9	1.29	15.658		
500.0	500.0	501.0	501.0	0.8	0.8	-89.95	0.0	-20.1	20.1	18.5	1.64	12.315		
600.0	600.0	601.0	601.0	1.0	1.0	-89.95	0.0	-20.1	20.1	18.2	1.98	10.149		
700.0	700.0	701.0	701.0	1.2	1.2	-89.95	0.0	-20.1	20.1	17.8	2.33	8.631		
800.0	800.0	801.0	801.0	1.3	1.3	-89.95	0.0	-20.1	20.1	17.5	2.68	7.508		
866.3	866.3	867.3	867.3	1.5	1.5	-89.95	0.0	-20.1	20.1	17.2	2.91	6.911 CC		
900.0	900.0	901.0	901.0	1.5	1.5	-89.95	0.0	-20.1	20.1	17.1	3.03	6.643 ES		
1,000.0	1,000.0	1,000.5	1,000.5	1.7	1.7	-93.78	-1.4	-21.2	21.2	17.9	3.38	6.284		
1,100.0	1,100.0	1,100.0	1,099.8	1.9	1.9	-102.93	-5.6	-24.3	25.0	21.2	3.73	6.687		
1,200.0	1,200.0	1,198.8	1,198.2	2.0	2.1	79.92	-12.5	-29.4	31.7	27.7	4.09	7.767		
1,300.0	1,299.8	1,298.3	1,297.2	2.2	2.3	78.68	-21.1	-35.8	39.8	35.4	4.45	8.946		
1,400.0	1,399.5	1,398.0	1,396.3	2.4	2.5	81.75	-29.7	-42.2	47.3	42.5	4.83	9.792		
1,500.0	1,499.0	1,497.7	1,495.4	2.6	2.7	84.82	-38.3	-48.6	54.9	49.7	5.23	10.489		
1,600.0	1,598.6	1,597.4	1,594.5	2.8	3.0	87.14	-46.9	-55.0	62.6	56.9	5.64	11.086		
1,700.0	1,698.2	1,697.0	1,693.6	3.0	3.2	88.95	-55.5	-61.4	70.3	64.3	6.06	11.599		
1,800.0	1,797.8	1,796.7	1,792.7	3.2	3.4	90.40	-64.1	-67.8	78.1	71.6	6.49	12.041		
1,900.0	1,897.3	1,896.4	1,891.8	3.5	3.7	91.59	-72.7	-74.2	86.0	79.1	6.92	12.424		
2,000.0	1,996.9	1,996.1	1,990.9	3.7	3.9	92.57	-81.3	-80.6	93.9	86.5	7.36	12.759		
2,100.0	2,096.5	2,095.8	2,090.0	3.9	4.1	93.41	-89.9	-87.0	101.8	94.0	7.80	13.052		
2,200.0	2,196.0	2,195.4	2,189.1	4.1	4.4	94.12	-98.5	-93.4	109.7	101.5	8.24	13.311		
2,300.0	2,295.6	2,295.1	2,288.2	4.3	4.6	94.74	-107.1	-99.8	117.6	108.9	8.69	13.541		
2,400.0	2,395.2	2,394.8	2,387.3	4.6	4.9	95.28	-115.7	-106.2	125.6	116.5	9.14	13.746		
2,500.0	2,494.8	2,494.5	2,486.4	4.8	5.1	95.75	-124.3	-112.6	133.5	124.0	9.59	13.931		
2,600.0	2,594.3	2,594.1	2,585.5	5.0	5.4	96.17	-132.9	-119.0	141.5	131.5	10.04	14.097		
2,700.0	2,693.9	2,693.8	2,684.6	5.3	5.6	96.55	-141.5	-125.4	149.5	139.0	10.49	14.247		
2,800.0	2,793.5	2,793.5	2,783.7	5.5	5.9	96.89	-150.1	-131.8	157.5	146.5	10.95	14.384		
2,900.0	2,893.0	2,893.2	2,882.8	5.7	6.1	97.20	-158.7	-138.2	165.5	154.1	11.40	14.509		
3,000.0	2,992.6	2,992.8	2,981.9	5.9	6.4	97.47	-167.3	-144.7	173.4	161.6	11.86	14.624		
3,100.0	3,092.2	3,092.5	3,081.0	6.2	6.6	97.73	-175.9	-151.1	181.4	169.1	12.32	14.729		
3,200.0	3,191.8	3,192.2	3,180.1	6.4	6.9	97.96	-184.5	-157.5	189.4	176.7	12.78	14.826		
3,300.0	3,291.3	3,291.9	3,279.2	6.6	7.1	98.17	-193.1	-163.9	197.4	184.2	13.24	14.916		
3,400.0	3,390.9	3,391.6	3,378.3	6.9	7.4	98.37	-201.7	-170.3	205.4	191.7	13.70	14.999		
3,500.0	3,490.5	3,491.2	3,477.4	7.1	7.6	98.55	-210.3	-176.7	213.4	199.3	14.16	15.076		
3,600.0	3,590.0	3,590.9	3,576.5	7.3	7.9	98.72	-218.9	-183.1	221.5	206.8	14.62	15.148		
3,700.0	3,689.6	3,690.6	3,675.6	7.6	8.1	98.88	-227.5	-189.5	229.5	214.4	15.08	15.215		
3,800.0	3,789.2	3,790.3	3,774.7	7.8	8.4	99.02	-236.1	-195.9	237.5	221.9	15.54	15.279		
3,900.0	3,888.8	3,889.9	3,873.8	8.0	8.7	99.16	-244.7	-202.3	245.5	229.5	16.01	15.338		
4,000.0	3,988.3	3,989.6	3,972.9	8.3	8.9	99.29	-253.3	-208.7	253.5	237.0	16.47	15.393		
4,100.0	4,087.9	4,089.3	4,072.0	8.5	9.2	99.41	-261.9	-215.1	261.5	244.6	16.93	15.445		
4,200.0	4,187.5	4,189.0	4,171.1	8.8	9.4	99.52	-270.6	-221.5	269.5	252.1	17.39	15.495		
4,300.0	4,287.0	4,288.6	4,270.2	9.0	9.7	99.63	-279.2	-227.9	277.5	259.7	17.86	15.541		
4,400.0	4,386.6	4,388.3	4,369.3	9.2	9.9	99.73	-287.8	-234.3	285.6	267.2	18.32	15.585		
4,500.0	4,486.2	4,488.0	4,468.4	9.5	10.2	99.82	-296.4	-240.7	293.6	274.8	18.79	15.627		
4,600.0	4,585.8	4,587.7	4,567.5	9.7	10.4	99.91	-305.0	-247.1	301.6	282.3	19.25	15.666		
4,700.0	4,685.3	4,687.4	4,666.6	9.9	10.7	100.00	-313.6	-253.5	309.6	289.9	19.72	15.704		
4,800.0	4,784.9	4,787.0	4,765.7	10.2	10.9	100.08	-322.2	-259.9	317.6	297.4	20.18	15.740		
4,900.0	4,884.5	4,886.7	4,864.8	10.4	11.2	100.16	-330.8	-266.3	325.6	305.0	20.65	15.774		
5,000.0	4,984.1	4,986.4	4,963.9	10.6	11.4	100.23	-339.4	-272.7	333.7	312.6	21.11	15.806		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 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)	
5,100.0	5,083.6	5,086.1	5,063.0	10.9	11.7	100.30	-348.0	-279.1	341.7	320.1	21.58	15.837		
5,200.0	5,183.2	5,185.7	5,162.1	11.1	12.0	100.37	-356.6	-285.5	349.7	327.7	22.04	15.867		
5,300.0	5,282.8	5,285.4	5,261.2	11.3	12.2	100.43	-365.2	-291.9	357.7	335.2	22.51	15.895		
5,400.0	5,382.3	5,385.1	5,360.3	11.6	12.5	100.49	-373.8	-298.3	365.8	342.8	22.97	15.922		
5,500.0	5,481.9	5,484.8	5,459.4	11.8	12.7	100.55	-382.4	-304.7	373.8	350.3	23.44	15.948		
5,600.0	5,581.5	5,584.4	5,558.5	12.0	13.0	100.60	-391.0	-311.1	381.8	357.9	23.90	15.973		
5,700.0	5,681.1	5,684.1	5,657.6	12.3	13.2	100.66	-399.6	-317.5	389.8	365.5	24.37	15.997		
5,800.0	5,780.6	5,783.8	5,756.6	12.5	13.5	100.71	-408.2	-323.9	397.9	373.0	24.84	16.019		
5,900.0	5,880.2	5,883.5	5,855.7	12.8	13.7	100.76	-416.8	-330.3	405.9	380.6	25.30	16.041		
6,000.0	5,979.8	5,983.2	5,954.8	13.0	14.0	100.81	-425.4	-336.7	413.9	388.1	25.77	16.063		
6,100.0	6,079.3	6,082.8	6,053.9	13.2	14.2	100.85	-434.0	-343.1	421.9	395.7	26.23	16.083		
6,200.0	6,178.9	6,182.5	6,153.0	13.5	14.5	100.90	-442.6	-349.5	430.0	403.3	26.70	16.103		
6,300.0	6,278.5	6,282.2	6,252.1	13.7	14.8	100.94	-451.2	-355.9	438.0	410.8	27.17	16.121		
6,400.0	6,378.1	6,381.9	6,351.2	13.9	15.0	100.98	-459.8	-362.3	446.0	418.4	27.63	16.140		
6,500.0	6,477.6	6,481.5	6,450.3	14.2	15.3	101.02	-468.4	-368.7	454.0	425.9	28.10	16.157		
6,600.0	6,577.2	6,581.2	6,549.4	14.4	15.5	101.06	-477.0	-375.1	462.1	433.5	28.57	16.174		
6,700.0	6,676.8	6,680.9	6,648.5	14.6	15.8	101.09	-485.6	-381.5	470.1	441.0	29.03	16.191		
6,800.0	6,776.3	6,780.6	6,747.6	14.9	16.0	101.13	-494.2	-387.9	478.1	448.6	29.50	16.207		
6,900.0	6,875.9	6,880.2	6,846.7	15.1	16.3	102.45	-502.8	-394.3	486.1	456.2	29.97	16.221		
7,000.0	6,975.8	6,979.4	6,945.3	15.2	16.5	-98.45	-511.4	-400.7	494.0	463.7	30.27	16.317		
7,100.0	7,074.0	7,076.6	7,042.0	15.1	16.8	-94.33	-518.8	-406.9	502.2	472.0	30.27	16.591		
7,200.0	7,167.6	7,178.4	7,143.3	14.9	16.8	-95.41	-512.7	-413.5	511.7	481.7	29.93	17.096		
7,300.0	7,253.8	7,286.3	7,247.6	14.6	16.8	-97.14	-486.7	-420.2	521.9	492.6	29.31	17.807		
7,400.0	7,329.8	7,401.1	7,351.2	14.2	16.5	-98.98	-438.1	-426.9	532.3	503.8	28.50	18.677		
7,500.0	7,393.5	7,523.3	7,448.5	13.9	16.2	-100.70	-364.9	-433.2	542.2	514.5	27.64	19.613		
7,600.0	7,442.9	7,652.8	7,532.2	13.6	15.8	-102.16	-266.5	-438.6	550.6	523.6	26.93	20.446		
7,700.0	7,476.4	7,788.7	7,594.1	13.5	15.6	-103.22	-146.0	-442.6	556.6	530.0	26.58	20.940		
7,800.0	7,493.1	7,928.9	7,626.4	13.7	15.7	-103.78	-9.9	-444.7	559.5	532.7	26.78	20.891		
7,900.0	7,495.0	8,047.7	7,630.0	14.0	16.0	-103.86	108.8	-444.9	559.5	531.9	27.53	20.321		
8,000.0	7,495.0	8,147.7	7,630.0	14.6	16.5	-103.87	208.8	-444.9	559.1	530.5	28.62	19.537		
8,100.0	7,495.0	8,247.7	7,630.0	15.3	17.2	-103.87	308.8	-444.9	558.8	528.7	30.05	18.592		
8,200.0	7,495.0	8,347.7	7,630.0	16.2	18.0	-103.88	408.8	-444.9	558.5	526.7	31.79	17.566		
8,300.0	7,495.0	8,447.7	7,630.0	17.2	18.9	-103.89	508.8	-444.9	558.1	524.3	33.78	16.520		
8,400.0	7,495.0	8,547.7	7,630.0	18.4	19.9	-103.90	608.8	-444.9	557.8	521.8	35.99	15.498		
8,500.0	7,495.0	8,647.7	7,630.0	19.6	21.1	-103.91	708.8	-444.9	557.4	519.1	38.37	14.528		
8,600.0	7,495.0	8,747.7	7,630.0	20.9	22.3	-103.92	808.8	-444.9	557.1	516.2	40.90	13.622		
8,700.0	7,495.0	8,847.7	7,630.0	22.3	23.6	-103.93	908.8	-444.9	556.8	513.2	43.54	12.786		
8,800.0	7,495.0	8,947.7	7,630.0	23.7	24.9	-103.94	1,008.8	-444.9	556.4	510.1	46.29	12.021		
8,900.0	7,495.0	9,047.7	7,630.0	25.1	26.3	-103.94	1,108.8	-444.9	556.1	507.0	49.12	11.322		
9,000.0	7,495.0	9,147.7	7,630.0	26.6	27.8	-103.95	1,208.8	-444.9	555.7	503.7	52.01	10.684		
9,100.0	7,495.0	9,247.7	7,630.0	28.2	29.2	-103.96	1,308.8	-444.9	555.4	500.4	54.97	10.104		
9,200.0	7,495.0	9,347.7	7,630.0	29.7	30.7	-103.97	1,408.8	-444.9	555.1	497.1	57.97	9.575		
9,300.0	7,495.0	9,447.7	7,630.0	31.3	32.2	-103.98	1,508.8	-444.9	554.7	493.7	61.02	9.091		
9,400.0	7,495.0	9,547.7	7,630.0	32.9	33.8	-103.99	1,608.8	-444.9	554.4	490.3	64.10	8.649		
9,500.0	7,495.0	9,647.7	7,630.0	34.5	35.4	-104.00	1,708.8	-444.9	554.1	486.8	67.21	8.243		
9,600.0	7,495.0	9,747.7	7,630.0	36.1	36.9	-104.00	1,808.8	-444.9	553.7	483.4	70.35	7.870		
9,700.0	7,495.0	9,847.7	7,630.0	37.7	38.5	-104.01	1,908.8	-444.9	553.4	479.9	73.52	7.527		
9,800.0	7,495.0	9,947.7	7,630.0	39.4	40.1	-104.02	2,008.8	-444.9	553.0	476.3	76.70	7.210		
9,900.0	7,495.0	10,047.7	7,630.0	41.0	41.8	-104.03	2,108.8	-444.9	552.7	472.8	79.90	6.917		
10,000.0	7,495.0	10,147.7	7,630.0	42.7	43.4	-104.04	2,208.8	-444.9	552.4	469.2	83.12	6.646		
10,100.0	7,495.0	10,247.7	7,630.0	44.3	45.0	-104.05	2,308.8	-444.9	552.0	465.7	86.35	6.393		
10,200.0	7,495.0	10,347.7	7,630.0	46.0	46.7	-104.06	2,408.8	-444.9	551.7	462.1	89.59	6.158		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 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		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis		
10,300.0	7,495.0	10,447.7	7,630.0	47.7	48.3	-104.07	2,508.8	-444.9	551.3	458.5	92.84	5.938	
10,400.0	7,495.0	10,547.7	7,630.0	49.4	50.0	-104.08	2,608.8	-444.9	551.0	454.9	96.11	5.733	
10,500.0	7,495.0	10,647.7	7,630.0	51.1	51.7	-104.08	2,708.8	-444.9	550.7	451.3	99.38	5.541	
10,600.0	7,495.0	10,747.7	7,630.0	52.8	53.4	-104.09	2,808.8	-444.9	550.3	447.7	102.66	5.361	
10,700.0	7,495.0	10,847.7	7,630.0	54.5	55.0	-104.10	2,908.8	-444.9	550.0	444.0	105.95	5.191	
10,800.0	7,495.0	10,947.7	7,630.0	56.2	56.7	-104.11	3,008.8	-444.9	549.6	440.4	109.24	5.031	
10,900.0	7,495.0	11,047.7	7,630.0	57.9	58.4	-104.12	3,108.8	-444.9	549.3	436.8	112.54	4.881	
11,000.0	7,495.0	11,147.7	7,630.0	59.6	60.1	-104.13	3,208.8	-444.9	549.0	433.1	115.85	4.739	
11,100.0	7,495.0	11,247.7	7,630.0	61.3	61.8	-104.14	3,308.8	-444.9	548.6	429.5	119.16	4.604	
11,200.0	7,495.0	11,347.7	7,630.0	63.0	63.5	-104.15	3,408.8	-444.9	548.3	425.8	122.48	4.477	
11,300.0	7,495.0	11,447.7	7,630.0	64.7	65.2	-104.16	3,508.8	-444.9	548.0	422.2	125.80	4.356	
11,400.0	7,495.0	11,547.7	7,630.0	66.4	66.9	-104.16	3,608.8	-444.9	547.6	418.5	129.12	4.241	
11,500.0	7,495.0	11,647.7	7,630.0	68.1	68.6	-104.17	3,708.8	-444.9	547.3	414.8	132.45	4.132	
11,600.0	7,495.0	11,747.7	7,630.0	69.9	70.3	-104.18	3,808.8	-444.9	546.9	411.2	135.78	4.028	
11,700.0	7,495.0	11,847.7	7,630.0	71.6	72.0	-104.19	3,908.8	-444.9	546.6	407.5	139.11	3.929	
11,800.0	7,495.0	11,947.7	7,630.0	73.3	73.7	-104.20	4,008.8	-444.9	546.3	403.8	142.45	3.835	
11,900.0	7,495.0	12,047.7	7,630.0	75.0	75.5	-104.21	4,108.8	-444.9	545.9	400.1	145.79	3.745	
12,000.0	7,495.0	12,147.7	7,630.0	76.8	77.2	-104.22	4,208.8	-444.9	545.6	396.5	149.13	3.658	
12,100.0	7,495.0	12,247.7	7,630.0	78.5	78.9	-104.23	4,308.8	-444.9	545.2	392.8	152.47	3.576	
12,200.0	7,495.0	12,347.7	7,630.0	80.2	80.6	-104.24	4,408.8	-444.9	544.9	389.1	155.82	3.497	
12,300.0	7,495.0	12,447.7	7,630.0	81.9	82.3	-104.24	4,508.8	-444.9	544.6	385.4	159.16	3.421	
12,400.0	7,495.0	12,547.7	7,630.0	83.7	84.1	-104.25	4,608.7	-444.9	544.2	381.7	162.51	3.349	
12,500.0	7,495.0	12,647.7	7,630.0	85.4	85.8	-104.26	4,708.7	-444.9	543.9	378.0	165.86	3.279	
12,600.0	7,495.0	12,747.7	7,630.0	87.1	87.5	-104.27	4,808.7	-444.9	543.6	374.3	169.22	3.212	
12,700.0	7,495.0	12,847.7	7,630.0	88.9	89.2	-104.28	4,908.7	-444.9	543.2	370.6	172.57	3.148	
12,800.0	7,495.0	12,947.7	7,630.0	90.6	91.0	-104.29	5,008.7	-444.9	542.9	367.0	175.92	3.086	
12,900.0	7,495.0	13,047.7	7,630.0	92.3	92.7	-104.30	5,108.7	-444.9	542.5	363.3	179.28	3.026	
13,000.0	7,495.0	13,147.7	7,630.0	94.1	94.4	-104.31	5,208.7	-444.9	542.2	359.6	182.64	2.969	
13,100.0	7,495.0	13,247.7	7,630.0	95.8	96.1	-104.32	5,308.7	-444.9	541.9	355.9	186.00	2.913	
13,200.0	7,495.0	13,347.7	7,630.0	97.5	97.9	-104.34	5,408.7	-444.9	541.1	351.7	189.40	2.857	
13,300.0	7,495.0	13,447.7	7,630.0	99.3	99.6	-104.41	5,508.7	-444.9	538.8	346.0	192.74	2.795	
13,400.0	7,495.0	13,547.6	7,630.0	101.0	101.3	-104.53	5,608.6	-444.9	534.7	338.8	195.98	2.729	
13,500.0	7,495.0	13,647.4	7,630.0	102.8	103.1	-104.70	5,708.5	-444.9	529.1	330.0	199.15	2.657	
13,600.0	7,495.0	13,747.2	7,630.0	104.5	104.8	-104.87	5,808.3	-444.9	523.2	320.8	202.35	2.585	
13,700.0	7,495.0	13,847.0	7,630.0	106.2	106.5	-105.04	5,908.1	-444.9	517.2	311.7	205.55	2.516	
13,800.0	7,495.0	13,946.8	7,630.0	108.0	108.3	-105.22	6,007.9	-444.9	511.3	302.5	208.74	2.449	
13,900.0	7,495.0	14,046.7	7,630.0	109.7	110.0	-105.41	6,107.7	-444.9	505.3	293.4	211.91	2.385	
14,000.0	7,495.0	14,146.5	7,630.0	111.4	111.7	-105.59	6,207.5	-444.9	499.4	284.3	215.08	2.322	
14,100.0	7,495.0	14,246.3	7,630.0	113.2	113.5	-105.79	6,307.3	-444.9	493.4	275.2	218.23	2.261	
14,200.0	7,495.0	14,346.1	7,630.0	114.9	115.2	-105.98	6,407.1	-444.9	487.5	266.1	221.37	2.202	
14,300.0	7,495.0	14,445.9	7,630.0	116.7	116.9	-106.19	6,506.9	-444.9	481.6	257.1	224.50	2.145 SF	

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	-89.95	0.0	-10.1	10.1					
100.0	100.0	101.0	101.0	0.1	0.1	-89.95	0.0	-10.1	10.1	9.8	0.24	42.115		
200.0	200.0	201.0	201.0	0.3	0.3	-89.95	0.0	-10.1	10.1	9.5	0.59	17.121		
300.0	300.0	301.0	301.0	0.5	0.5	-89.95	0.0	-10.1	10.1	9.1	0.94	10.744		
400.0	400.0	401.0	401.0	0.6	0.6	-89.95	0.0	-10.1	10.1	8.8	1.29	7.829		
500.0	500.0	501.0	501.0	0.8	0.8	-89.95	0.0	-10.1	10.1	8.4	1.64	6.158		
600.0	600.0	601.0	601.0	1.0	1.0	-89.95	0.0	-10.1	10.1	8.1	1.98	5.075		
700.0	700.0	701.0	701.0	1.2	1.2	-89.95	0.0	-10.1	10.1	7.7	2.33	4.315		
800.0	800.0	801.0	801.0	1.3	1.3	-89.95	0.0	-10.1	10.1	7.4	2.68	3.754		
900.0	900.0	901.0	901.0	1.5	1.5	-89.95	0.0	-10.1	10.1	7.0	3.03	3.322		
966.3	966.3	967.3	967.3	1.6	1.6	-89.95	0.0	-10.1	10.1	6.8	3.26	3.086 CC		
1,000.0	1,000.0	1,001.0	1,001.0	1.7	1.7	-89.95	0.0	-10.1	10.1	6.7	3.38	2.979 ES		
1,100.0	1,100.0	1,100.8	1,100.8	1.9	1.9	-98.16	-1.6	-10.9	11.0	7.3	3.73	2.951		
1,200.0	1,200.0	1,200.4	1,200.3	2.0	2.0	81.66	-6.2	-13.3	14.4	10.3	4.08	3.517		
1,300.0	1,299.8	1,299.9	1,299.3	2.2	2.2	79.01	-13.9	-17.3	19.9	15.4	4.45	4.473		
1,400.0	1,399.5	1,399.7	1,398.6	2.4	2.4	82.36	-22.9	-22.1	26.0	21.2	4.83	5.385		
1,500.0	1,499.0	1,499.5	1,497.9	2.6	2.7	85.81	-32.0	-26.8	32.1	26.9	5.23	6.144		
1,600.0	1,598.6	1,599.3	1,597.1	2.8	2.9	88.14	-41.1	-31.6	38.3	32.7	5.64	6.795		
1,700.0	1,698.2	1,699.1	1,696.4	3.0	3.1	89.83	-50.1	-36.3	44.6	38.5	6.06	7.354		
1,800.0	1,797.8	1,798.8	1,795.7	3.2	3.3	91.10	-59.2	-41.1	50.8	44.3	6.48	7.837		
1,900.0	1,897.3	1,898.6	1,894.9	3.5	3.6	92.09	-68.3	-45.8	57.1	50.2	6.92	8.255		
2,000.0	1,996.9	1,998.4	1,994.2	3.7	3.8	92.89	-77.3	-50.6	63.4	56.1	7.36	8.621		
2,100.0	2,096.5	2,098.2	2,093.5	3.9	4.0	93.54	-86.4	-55.3	69.7	61.9	7.80	8.942		
2,200.0	2,196.0	2,198.0	2,192.8	4.1	4.3	94.08	-95.5	-60.1	76.0	67.8	8.24	9.226		
2,300.0	2,295.6	2,297.8	2,292.0	4.3	4.5	94.54	-104.5	-64.8	82.4	73.7	8.69	9.478		
2,400.0	2,395.2	2,397.6	2,391.3	4.6	4.7	94.93	-113.6	-69.6	88.7	79.5	9.14	9.704		
2,500.0	2,494.8	2,497.4	2,490.6	4.8	5.0	95.27	-122.7	-74.3	95.0	85.4	9.59	9.907		
2,600.0	2,594.3	2,597.2	2,589.8	5.0	5.2	95.57	-131.7	-79.1	101.4	91.3	10.05	10.090		
2,700.0	2,693.9	2,697.0	2,689.1	5.3	5.5	95.84	-140.8	-83.8	107.7	97.2	10.50	10.256		
2,800.0	2,793.5	2,796.8	2,788.4	5.5	5.7	96.07	-149.9	-88.6	114.0	103.1	10.96	10.407		
2,900.0	2,893.0	2,896.6	2,887.7	5.7	5.9	96.28	-158.9	-93.3	120.4	109.0	11.42	10.545		
3,000.0	2,992.6	2,996.4	2,986.9	5.9	6.2	96.47	-168.0	-98.1	126.7	114.8	11.87	10.671		
3,100.0	3,092.2	3,096.2	3,086.2	6.2	6.4	96.64	-177.1	-102.8	133.1	120.7	12.33	10.787		
3,200.0	3,191.8	3,196.0	3,185.5	6.4	6.7	96.79	-186.1	-107.6	139.4	126.6	12.80	10.895		
3,300.0	3,291.3	3,295.8	3,284.7	6.6	6.9	96.94	-195.2	-112.3	145.8	132.5	13.26	10.994		
3,400.0	3,390.9	3,395.6	3,384.0	6.9	7.2	97.07	-204.3	-117.1	152.1	138.4	13.72	11.086		
3,500.0	3,490.5	3,495.4	3,483.3	7.1	7.4	97.18	-213.3	-121.8	158.4	144.3	14.18	11.172		
3,600.0	3,590.0	3,595.2	3,582.6	7.3	7.7	97.29	-222.4	-126.5	164.8	150.1	14.65	11.252		
3,700.0	3,689.6	3,695.0	3,681.8	7.6	7.9	97.40	-231.5	-131.3	171.1	156.0	15.11	11.327		
3,800.0	3,789.2	3,794.8	3,781.1	7.8	8.2	97.49	-240.5	-136.0	177.5	161.9	15.57	11.397		
3,900.0	3,888.8	3,894.6	3,880.4	8.0	8.4	97.58	-249.6	-140.8	183.8	167.8	16.04	11.462		
4,000.0	3,988.3	3,994.4	3,979.6	8.3	8.6	97.66	-258.7	-145.5	190.2	173.7	16.50	11.524		
4,100.0	4,087.9	4,094.2	4,078.9	8.5	8.9	97.74	-267.7	-150.3	196.5	179.6	16.97	11.582		
4,200.0	4,187.5	4,194.0	4,178.2	8.8	9.1	97.81	-276.8	-155.0	202.9	185.5	17.43	11.637		
4,300.0	4,287.0	4,293.8	4,277.5	9.0	9.4	97.88	-285.9	-159.8	209.2	191.3	17.90	11.689		
4,400.0	4,386.6	4,393.6	4,376.7	9.2	9.6	97.94	-294.9	-164.5	215.6	197.2	18.37	11.738		
4,500.0	4,486.2	4,493.4	4,476.0	9.5	9.9	98.00	-304.0	-169.3	221.9	203.1	18.83	11.784		
4,600.0	4,585.8	4,593.2	4,575.3	9.7	10.1	98.06	-313.1	-174.0	228.3	209.0	19.30	11.828		
4,700.0	4,685.3	4,693.0	4,674.6	9.9	10.4	98.11	-322.1	-178.8	234.6	214.9	19.77	11.870		
4,800.0	4,784.9	4,792.8	4,773.8	10.2	10.6	98.16	-331.2	-183.5	241.0	220.8	20.24	11.910		
4,900.0	4,884.5	4,892.6	4,873.1	10.4	10.9	98.21	-340.3	-188.3	247.4	226.6	20.70	11.948		
5,000.0	4,984.1	4,992.4	4,972.4	10.6	11.1	98.26	-349.3	-193.0	253.7	232.5	21.17	11.984		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,083.6	5,092.2	5,071.6	10.9	11.4	98.30	-358.4	-197.8	260.1	238.4	21.64	12.018		
5,200.0	5,183.2	5,192.0	5,170.9	11.1	11.6	98.34	-367.5	-202.5	266.4	244.3	22.11	12.051		
5,300.0	5,282.8	5,291.8	5,270.2	11.3	11.9	98.38	-376.5	-207.3	272.8	250.2	22.57	12.083		
5,400.0	5,382.3	5,391.6	5,369.5	11.6	12.1	98.42	-385.6	-212.0	279.1	256.1	23.04	12.113		
5,500.0	5,481.9	5,491.4	5,468.7	11.8	12.4	98.46	-394.7	-216.8	285.5	262.0	23.51	12.142		
5,600.0	5,581.5	5,591.2	5,568.0	12.0	12.6	98.49	-403.7	-221.5	291.8	267.8	23.98	12.170		
5,700.0	5,681.1	5,691.0	5,667.3	12.3	12.9	98.52	-412.8	-226.3	298.2	273.7	24.45	12.196		
5,800.0	5,780.6	5,790.8	5,766.5	12.5	13.1	98.56	-421.9	-231.0	304.5	279.6	24.92	12.222		
5,900.0	5,880.2	5,890.6	5,865.8	12.8	13.4	98.59	-430.9	-235.8	310.9	285.5	25.39	12.247		
6,000.0	5,979.8	5,990.4	5,965.1	13.0	13.6	98.62	-440.0	-240.5	317.2	291.4	25.85	12.273		
6,100.0	6,079.3	6,090.2	6,064.4	13.2	13.8	98.64	-449.1	-245.3	323.6	297.3	26.32	12.290		
6,200.0	6,178.9	6,190.0	6,163.6	13.5	14.1	98.67	-458.1	-250.0	329.9	303.1	26.79	12.315		
6,300.0	6,278.5	6,289.8	6,262.9	13.7	14.3	98.70	-467.2	-254.7	336.3	309.0	27.26	12.336		
6,400.0	6,378.1	6,389.5	6,362.2	13.9	14.6	98.72	-476.3	-259.5	342.6	314.9	27.73	12.357		
6,500.0	6,477.6	6,489.3	6,461.4	14.2	14.8	98.75	-485.3	-264.2	349.0	320.8	28.20	12.376		
6,600.0	6,577.2	6,589.1	6,560.7	14.4	15.1	98.77	-494.4	-269.0	355.4	326.7	28.67	12.395		
6,700.0	6,676.8	6,688.9	6,660.0	14.6	15.3	98.79	-503.5	-273.7	361.7	332.6	29.14	12.414		
6,800.0	6,776.3	6,788.7	6,759.3	14.9	15.6	98.81	-512.5	-278.5	368.1	338.5	29.61	12.431		
6,900.0	6,875.9	6,889.4	6,859.7	15.1	15.7	100.95	-516.2	-283.2	374.3	344.3	30.02	12.471		
7,000.0	6,975.8	6,988.2	6,957.3	15.2	15.7	-97.12	-503.0	-287.6	380.6	350.4	30.14	12.627		
7,100.0	7,074.0	7,084.8	7,049.3	15.1	15.6	-88.61	-474.0	-291.6	386.9	357.0	29.92	12.931		
7,200.0	7,167.6	7,179.7	7,133.7	14.9	15.3	-85.16	-431.0	-295.0	392.9	363.5	29.41	13.361		
7,300.0	7,253.8	7,273.1	7,208.7	14.6	15.0	-82.71	-375.6	-297.8	398.5	369.8	28.70	13.885		
7,400.0	7,329.8	7,365.1	7,272.8	14.2	14.7	-80.81	-309.9	-300.0	403.2	375.3	27.90	14.452		
7,500.0	7,393.5	7,456.0	7,325.1	13.9	14.4	-79.33	-235.6	-301.5	407.0	379.9	27.16	14.987		
7,600.0	7,442.9	7,546.0	7,364.7	13.6	14.3	-78.25	-154.8	-302.4	409.6	383.0	26.62	15.390		
7,700.0	7,476.4	7,635.4	7,391.0	13.5	14.3	-77.54	-69.5	-302.6	410.9	384.5	26.42	15.555		
7,800.0	7,493.1	7,724.4	7,403.7	13.7	14.4	-77.21	18.5	-302.1	410.9	384.2	26.65	15.415		
7,900.0	7,495.0	7,819.6	7,405.0	14.0	14.7	-77.16	113.7	-301.0	409.5	382.2	27.36	14.970		
8,000.0	7,495.0	7,919.6	7,405.0	14.6	15.2	-77.11	213.6	-299.8	408.0	379.5	28.46	14.336		
8,100.0	7,495.0	8,019.6	7,405.0	15.3	15.9	-77.06	313.6	-298.6	406.5	376.6	29.91	13.588		
8,200.0	7,495.0	8,119.6	7,405.0	16.2	16.8	-77.01	413.6	-297.3	404.9	373.3	31.67	12.786		
8,300.0	7,495.0	8,219.6	7,405.0	17.2	17.8	-76.96	513.6	-296.1	403.4	369.7	33.68	11.977		
8,400.0	7,495.0	8,319.6	7,405.0	18.4	18.9	-76.91	613.6	-294.9	401.9	366.0	35.91	11.192		
8,500.0	7,495.0	8,419.5	7,405.0	19.6	20.1	-76.86	713.5	-293.7	400.3	362.0	38.31	10.451		
8,600.0	7,495.0	8,519.5	7,405.0	20.9	21.4	-76.81	813.5	-292.5	398.8	358.0	40.85	9.763		
8,700.0	7,495.0	8,619.5	7,405.0	22.3	22.7	-76.76	913.5	-291.2	397.3	353.8	43.51	9.131		
8,800.0	7,495.0	8,719.5	7,405.0	23.7	24.1	-76.71	1,013.5	-290.0	395.8	349.5	46.27	8.554		
8,900.0	7,495.0	8,819.5	7,405.0	25.1	25.5	-76.65	1,113.5	-288.8	394.2	345.1	49.10	8.028		
9,000.0	7,495.0	8,919.5	7,405.0	26.6	27.0	-76.60	1,213.4	-287.6	392.7	340.7	52.01	7.551		
9,100.0	7,495.0	9,019.5	7,405.0	28.2	28.5	-76.55	1,313.4	-286.3	391.2	336.2	54.97	7.116		
9,200.0	7,495.0	9,119.5	7,405.0	29.7	30.0	-76.49	1,413.4	-285.1	389.6	331.7	57.98	6.720		
9,300.0	7,495.0	9,219.5	7,405.0	31.3	31.6	-76.44	1,513.4	-283.9	388.1	327.1	61.03	6.360		
9,400.0	7,495.0	9,319.4	7,405.0	32.9	33.2	-76.38	1,613.4	-282.7	386.6	322.5	64.11	6.030		
9,500.0	7,495.0	9,419.4	7,405.0	34.5	34.8	-76.33	1,713.3	-281.5	385.1	317.8	67.22	5.728		
9,600.0	7,495.0	9,519.4	7,405.0	36.1	36.4	-76.27	1,813.3	-280.2	383.5	313.2	70.36	5.451		
9,700.0	7,495.0	9,619.4	7,405.0	37.7	38.0	-76.22	1,913.3	-279.0	382.0	308.5	73.52	5.196		
9,800.0	7,495.0	9,719.4	7,405.0	39.4	39.6	-76.16	2,013.3	-277.8	380.5	303.8	76.69	4.961		
9,900.0	7,495.0	9,819.4	7,405.0	41.0	41.3	-76.10	2,113.3	-276.6	379.0	299.1	79.88	4.744		
10,000.0	7,495.0	9,919.4	7,405.0	42.7	42.9	-76.05	2,213.2	-275.3	377.4	294.4	83.09	4.543		
10,100.0	7,495.0	10,019.4	7,405.0	44.3	44.6	-75.99	2,313.2	-274.1	375.9	289.6	86.31	4.355		
10,200.0	7,495.0	10,119.3	7,405.0	46.0	46.2	-75.93	2,413.2	-272.9	374.4	284.9	89.54	4.181		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,300.0	7,495.0	10,219.3	7,405.0	47.7	47.9	-75.87	2,513.2	-271.7	372.9	280.1	92.78	4.019		
10,400.0	7,495.0	10,319.3	7,405.0	49.4	49.6	-75.81	2,613.2	-270.5	371.3	275.3	96.02	3.867		
10,500.0	7,495.0	10,419.3	7,405.0	51.1	51.3	-75.75	2,713.1	-269.2	369.8	270.5	99.27	3.725		
10,600.0	7,495.0	10,519.3	7,405.0	52.8	53.0	-75.69	2,813.1	-268.0	368.3	265.8	102.53	3.592		
10,700.0	7,495.0	10,619.3	7,405.0	54.5	54.6	-75.63	2,913.1	-266.8	366.8	261.0	105.80	3.467		
10,800.0	7,495.0	10,719.3	7,405.0	56.2	56.3	-75.57	3,013.1	-265.6	365.3	256.2	109.07	3.349		
10,900.0	7,495.0	10,819.3	7,405.0	57.9	58.0	-75.51	3,113.1	-264.4	363.7	251.4	112.34	3.238		
11,000.0	7,495.0	10,919.2	7,405.0	59.6	59.7	-75.45	3,213.0	-263.1	362.2	246.6	115.62	3.133		
11,100.0	7,495.0	11,019.2	7,405.0	61.3	61.4	-75.39	3,313.0	-261.9	360.7	241.8	118.90	3.034		
11,200.0	7,495.0	11,119.2	7,405.0	63.0	63.2	-75.32	3,413.0	-260.7	359.2	237.0	122.18	2.940		
11,300.0	7,495.0	11,219.2	7,405.0	64.7	64.9	-75.26	3,513.0	-259.5	357.7	232.2	125.46	2.851		
11,400.0	7,495.0	11,319.2	7,405.0	66.4	66.6	-75.19	3,613.0	-258.2	356.1	227.4	128.75	2.766		
11,500.0	7,495.0	11,419.2	7,405.0	68.1	68.3	-75.13	3,712.9	-257.0	354.6	222.6	132.03	2.686		
11,600.0	7,495.0	11,519.2	7,405.0	69.9	70.0	-75.06	3,812.9	-255.8	353.1	217.8	135.32	2.609		
11,700.0	7,495.0	11,619.2	7,405.0	71.6	71.7	-75.00	3,912.9	-254.6	351.6	213.0	138.61	2.537		
11,800.0	7,495.0	11,719.1	7,405.0	73.3	73.4	-74.93	4,012.9	-253.4	350.1	208.2	141.90	2.467		
11,900.0	7,495.0	11,819.1	7,405.0	75.0	75.2	-74.86	4,112.9	-252.1	348.6	203.4	145.19	2.401		
12,000.0	7,495.0	11,919.1	7,405.0	76.8	76.9	-74.80	4,212.8	-250.9	347.0	198.6	148.48	2.337		
12,100.0	7,495.0	12,019.1	7,405.0	78.5	78.6	-74.73	4,312.8	-249.7	345.5	193.8	151.76	2.277		
12,200.0	7,495.0	12,119.1	7,405.0	80.2	80.3	-74.66	4,412.8	-248.5	344.0	189.0	155.05	2.219		
12,300.0	7,495.0	12,219.1	7,405.0	81.9	82.1	-74.59	4,512.8	-247.3	342.5	184.2	158.34	2.163		
12,400.0	7,495.0	12,319.1	7,405.0	83.7	83.8	-74.52	4,612.8	-246.0	341.0	179.4	161.63	2.110		
12,500.0	7,495.0	12,419.1	7,405.0	85.4	85.5	-74.45	4,712.7	-244.8	339.5	174.6	164.91	2.058		
12,600.0	7,495.0	12,519.0	7,405.0	87.1	87.3	-74.38	4,812.7	-243.6	337.9	169.8	168.19	2.009		
12,700.0	7,495.0	12,619.0	7,405.0	88.9	89.0	-74.31	4,912.7	-242.4	336.4	165.0	171.48	1.962		
12,800.0	7,495.0	12,719.0	7,405.0	90.6	90.7	-74.23	5,012.7	-241.1	334.9	160.2	174.76	1.917		
12,900.0	7,495.0	12,819.0	7,405.0	92.3	92.4	-74.16	5,112.7	-239.9	333.4	155.4	178.04	1.873		
13,000.0	7,495.0	12,919.0	7,405.0	94.1	94.2	-74.09	5,212.6	-238.7	331.9	150.6	181.31	1.831		
13,100.0	7,495.0	13,019.0	7,405.0	95.8	95.9	-74.01	5,312.6	-237.5	330.4	145.8	184.59	1.790		
13,200.0	7,495.0	13,119.0	7,405.0	97.5	97.6	-73.91	5,412.6	-236.3	328.5	140.6	187.84	1.749		
13,300.0	7,495.0	13,218.9	7,405.0	99.3	99.4	-73.72	5,512.5	-235.0	325.0	134.0	190.97	1.702		
13,400.0	7,495.0	13,318.7	7,405.0	101.0	101.1	-73.44	5,612.4	-233.8	319.8	125.9	193.93	1.649		
13,500.0	7,495.0	13,418.5	7,405.0	102.8	102.9	-73.06	5,712.1	-232.6	313.1	116.3	196.79	1.591		
13,600.0	7,495.0	13,518.2	7,405.0	104.5	104.6	-72.66	5,811.8	-231.4	306.0	106.3	199.70	1.533		
13,700.0	7,495.0	13,618.0	7,405.0	106.2	106.3	-72.24	5,911.6	-230.2	299.0	96.4	202.56	1.476 Level 3		
13,800.0	7,495.0	13,717.7	7,405.0	108.0	108.1	-71.79	6,011.3	-228.9	292.0	86.6	205.38	1.422 Level 3		
13,900.0	7,495.0	13,817.4	7,405.0	109.7	109.8	-71.33	6,111.0	-227.7	285.0	76.8	208.14	1.369 Level 3		
14,000.0	7,495.0	13,917.1	7,405.0	111.4	111.5	-70.84	6,210.7	-226.5	278.0	67.1	210.85	1.318 Level 3		
14,100.0	7,495.0	14,016.9	7,405.0	113.2	113.3	-70.33	6,310.4	-225.3	271.0	57.5	213.49	1.269 Level 3		
14,200.0	7,495.0	14,116.6	7,405.0	114.9	115.0	-69.79	6,410.2	-224.1	264.1	48.0	216.06	1.222 Level 2		
14,300.0	7,495.0	14,216.3	7,405.0	116.7	116.7	-69.22	6,509.9	-222.9	257.1	38.6	218.55	1.177 Level 2, SF		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4K-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	10.1	10.1	9.8	0.24	42.425		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	10.1	10.1	9.5	0.59	17.172		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	10.1	10.1	9.1	0.94	10.765		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	10.1	10.1	8.8	1.28	7.839		
500.0	500.0	500.0	500.0	0.8	0.8	90.05	0.0	10.1	10.1	8.4	1.63	6.164		
600.0	600.0	600.0	600.0	1.0	1.0	90.05	0.0	10.1	10.1	8.1	1.98	5.079		
700.0	700.0	700.0	700.0	1.2	1.2	90.05	0.0	10.1	10.1	7.7	2.33	4.319		
800.0	800.0	800.0	800.0	1.3	1.3	90.05	0.0	10.1	10.1	7.4	2.68	3.756		
900.0	900.0	900.0	900.0	1.5	1.5	90.05	0.0	10.1	10.1	7.0	3.03	3.324		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	90.05	0.0	10.1	10.1	6.7	3.38	2.980 CC, ES		
1,100.0	1,100.0	1,099.8	1,099.8	1.9	1.9	98.68	-1.6	10.7	10.8	7.1	3.73	2.902		
1,200.0	1,200.0	1,199.5	1,199.4	2.0	2.0	-58.70	-6.5	12.6	13.2	9.1	4.08	3.227		
1,300.0	1,299.8	1,299.2	1,298.7	2.2	2.2	-52.19	-14.4	15.6	16.3	11.9	4.44	3.674		
1,400.0	1,399.5	1,399.2	1,398.2	2.4	2.4	-53.91	-23.2	19.0	18.2	13.3	4.81	3.774		
1,500.0	1,499.0	1,499.2	1,497.8	2.6	2.6	-57.12	-31.9	22.3	19.6	14.4	5.20	3.771		
1,600.0	1,598.6	1,599.2	1,597.3	2.8	2.9	-59.87	-40.7	25.7	21.1	15.5	5.60	3.770		
1,700.0	1,698.2	1,699.1	1,696.9	3.0	3.1	-62.26	-49.4	29.1	22.7	16.7	6.01	3.770		
1,800.0	1,797.8	1,799.1	1,796.4	3.2	3.3	-64.34	-58.2	32.4	24.3	17.8	6.43	3.770		
1,900.0	1,897.3	1,899.1	1,895.9	3.5	3.5	-66.16	-66.9	35.8	25.9	19.0	6.86	3.769		
2,000.0	1,996.9	1,999.1	1,995.5	3.7	3.7	-67.76	-75.6	39.1	27.5	20.2	7.30	3.769		
2,100.0	2,096.5	2,099.1	2,095.0	3.9	4.0	-69.19	-84.4	42.5	29.2	21.4	7.73	3.769		
2,200.0	2,196.0	2,199.1	2,194.6	4.1	4.2	-70.46	-93.1	45.9	30.8	22.6	8.18	3.768		
2,300.0	2,295.6	2,299.0	2,294.1	4.3	4.4	-71.60	-101.9	49.2	32.5	23.9	8.63	3.768		
2,400.0	2,395.2	2,399.0	2,393.7	4.6	4.7	-72.62	-110.6	52.6	34.2	25.1	9.08	3.767		
2,500.0	2,494.8	2,499.0	2,493.2	4.8	4.9	-73.55	-119.4	55.9	35.9	26.4	9.53	3.767		
2,600.0	2,594.3	2,599.0	2,592.8	5.0	5.1	-74.40	-128.1	59.3	37.6	27.6	9.99	3.766		
2,700.0	2,693.9	2,699.0	2,692.3	5.3	5.3	-75.17	-136.9	62.7	39.3	28.9	10.45	3.766		
2,800.0	2,793.5	2,799.0	2,791.8	5.5	5.6	-75.88	-145.6	66.0	41.1	30.2	10.91	3.765		
2,900.0	2,893.0	2,899.0	2,891.4	5.7	5.8	-76.53	-154.4	69.4	42.8	31.4	11.37	3.765		
3,000.0	2,992.6	2,998.9	2,990.9	5.9	6.0	-77.13	-163.1	72.7	44.5	32.7	11.83	3.765		
3,100.0	3,092.2	3,098.9	3,090.5	6.2	6.3	-77.68	-171.8	76.1	46.3	34.0	12.29	3.764		
3,200.0	3,191.8	3,198.9	3,190.0	6.4	6.5	-78.19	-180.6	79.5	48.0	35.3	12.76	3.764		
3,300.0	3,291.3	3,298.9	3,289.6	6.6	6.8	-78.67	-189.3	82.8	49.8	36.5	13.22	3.764		
3,400.0	3,390.9	3,398.9	3,389.1	6.9	7.0	-79.12	-198.1	86.2	51.5	37.8	13.69	3.764		
3,500.0	3,490.5	3,498.9	3,488.6	7.1	7.2	-79.53	-206.8	89.5	53.3	39.1	14.16	3.764		
3,600.0	3,590.0	3,598.8	3,588.2	7.3	7.5	-79.92	-215.6	92.9	55.0	40.4	14.62	3.764		
3,700.0	3,689.6	3,698.8	3,687.7	7.6	7.7	-80.29	-224.3	96.3	56.8	41.7	15.09	3.763		
3,800.0	3,789.2	3,798.8	3,787.3	7.8	7.9	-80.63	-233.1	99.6	58.6	43.0	15.56	3.763		
3,900.0	3,888.8	3,898.8	3,886.8	8.0	8.2	-80.95	-241.8	103.0	60.3	44.3	16.03	3.763		
4,000.0	3,988.3	3,998.8	3,986.4	8.3	8.4	-81.26	-250.6	106.3	62.1	45.6	16.50	3.763		
4,100.0	4,087.9	4,098.8	4,085.9	8.5	8.6	-81.55	-259.3	109.7	63.9	46.9	16.97	3.763		
4,200.0	4,187.5	4,198.7	4,185.5	8.8	8.9	-81.82	-268.0	113.1	65.6	48.2	17.44	3.763		
4,300.0	4,287.0	4,298.7	4,285.0	9.0	9.1	-82.08	-276.8	116.4	67.4	49.5	17.91	3.763		
4,400.0	4,386.6	4,398.7	4,384.5	9.2	9.4	-82.32	-285.5	119.8	69.2	50.8	18.38	3.763		
4,500.0	4,486.2	4,498.7	4,484.1	9.5	9.6	-82.55	-294.3	123.1	71.0	52.1	18.85	3.763		
4,600.0	4,585.8	4,598.7	4,583.6	9.7	9.8	-82.78	-303.0	126.5	72.7	53.4	19.32	3.763		
4,700.0	4,685.3	4,698.7	4,683.2	9.9	10.1	-82.99	-311.8	129.9	74.5	54.7	19.80	3.763		
4,800.0	4,784.9	4,798.6	4,782.7	10.2	10.3	-83.19	-320.5	133.2	76.3	56.0	20.27	3.764		
4,900.0	4,884.5	4,898.6	4,882.3	10.4	10.5	-83.38	-329.3	136.6	78.1	57.3	20.74	3.764		
5,000.0	4,984.1	4,998.6	4,981.8	10.6	10.8	-83.56	-338.0	139.9	79.8	58.6	21.21	3.764		
5,100.0	5,083.6	5,098.6	5,081.4	10.9	11.0	-83.74	-346.8	143.3	81.6	59.9	21.68	3.764		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4K-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,183.2	5,198.6	5,180.9	11.1	11.2	-83.91	-355.5	146.6	83.4	61.2	22.16	3.764		
5,300.0	5,282.8	5,298.6	5,280.4	11.3	11.5	-84.07	-364.2	150.0	85.2	62.5	22.63	3.764		
5,400.0	5,382.3	5,398.5	5,380.0	11.6	11.7	-84.22	-373.0	153.4	87.0	63.9	23.10	3.764		
5,500.0	5,481.9	5,498.5	5,479.5	11.8	12.0	-84.37	-381.7	156.7	88.7	65.2	23.58	3.764		
5,600.0	5,581.5	5,598.5	5,579.1	12.0	12.2	-84.51	-390.5	160.1	90.5	66.5	24.05	3.764		
5,700.0	5,681.1	5,698.5	5,678.6	12.3	12.4	-84.65	-399.2	163.4	92.3	67.8	24.52	3.764		
5,800.0	5,780.6	5,798.5	5,778.2	12.5	12.7	-84.78	-408.0	166.8	94.1	69.1	24.99	3.764		
5,900.0	5,880.2	5,898.5	5,877.7	12.8	12.9	-84.91	-416.7	170.2	95.9	70.4	25.47	3.765		
6,000.0	5,979.8	5,998.5	5,977.2	13.0	13.2	-85.03	-425.5	173.5	97.7	71.7	25.94	3.765		
6,100.0	6,079.3	6,098.4	6,076.8	13.2	13.4	-85.14	-434.2	176.9	99.4	73.0	26.41	3.765		
6,200.0	6,178.9	6,198.4	6,176.3	13.5	13.6	-85.26	-443.0	180.2	101.2	74.3	26.89	3.765		
6,300.0	6,278.5	6,298.4	6,275.9	13.7	13.9	-85.37	-451.7	183.6	103.0	75.7	27.36	3.765		
6,400.0	6,378.1	6,398.4	6,375.4	13.9	14.1	-85.47	-460.4	187.0	104.8	77.0	27.84	3.765		
6,500.0	6,477.6	6,498.4	6,475.0	14.2	14.3	-85.58	-469.2	190.3	106.6	78.3	28.31	3.765		
6,600.0	6,577.2	6,598.4	6,574.5	14.4	14.6	-85.67	-477.9	193.7	108.4	79.6	28.78	3.765		
6,700.0	6,676.8	6,698.3	6,674.1	14.6	14.8	-85.77	-486.7	197.0	110.2	80.9	29.26	3.765		
6,800.0	6,776.3	6,798.3	6,773.6	14.9	15.1	-85.86	-495.4	200.4	112.0	82.2	29.73	3.766		
6,900.0	6,875.9	6,898.3	6,873.1	15.1	15.3	-84.70	-504.2	203.8	113.7	83.5	30.20	3.766		
7,000.0	6,975.8	6,997.7	6,972.1	15.2	15.5	79.30	-512.9	207.1	114.9	84.6	30.34	3.789		
7,100.0	7,074.0	7,096.4	7,070.5	15.1	15.7	96.23	-518.0	210.4	118.5	88.8	29.73	3.987		
7,200.0	7,167.6	7,199.3	7,172.6	14.9	15.7	107.77	-506.4	213.9	126.7	98.1	28.55	4.437		
7,300.0	7,253.8	7,307.2	7,275.6	14.6	15.5	116.88	-474.9	217.4	138.1	111.0	27.09	5.099		
7,400.0	7,329.8	7,420.5	7,375.3	14.2	15.2	123.87	-421.7	220.7	151.1	125.5	25.55	5.912		
7,500.0	7,393.5	7,539.2	7,466.5	13.9	14.8	129.03	-346.1	223.8	163.9	139.8	24.13	6.791		
7,600.0	7,442.9	7,663.1	7,542.9	13.6	14.4	132.61	-248.9	226.4	175.0	152.0	23.01	7.606		
7,700.0	7,476.4	7,791.3	7,598.2	13.5	14.2	134.83	-133.5	228.2	183.1	160.8	22.37	8.188		
7,800.0	7,493.1	7,922.4	7,626.8	13.7	14.3	135.83	-5.9	229.2	187.5	165.1	22.37	8.381		
7,900.0	7,495.0	8,037.2	7,630.0	14.0	14.7	135.85	108.8	229.3	188.1	165.2	23.00	8.181		
8,000.0	7,495.0	8,137.2	7,630.0	14.6	15.2	135.77	208.8	229.3	188.4	164.5	23.89	7.887		
8,100.0	7,495.0	8,237.2	7,630.0	15.3	15.9	135.70	308.8	229.3	188.6	163.6	24.99	7.549		
8,200.0	7,495.0	8,337.2	7,630.0	16.2	16.8	135.62	408.8	229.3	188.9	162.6	26.28	7.187		
8,300.0	7,495.0	8,437.2	7,630.0	17.2	17.8	135.55	508.8	229.3	189.1	161.4	27.74	6.818		
8,400.0	7,495.0	8,537.2	7,630.0	18.4	18.9	135.47	608.8	229.3	189.4	160.0	29.34	6.455		
8,500.0	7,495.0	8,637.2	7,630.0	19.6	20.1	135.40	708.8	229.3	189.6	158.6	31.06	6.105		
8,600.0	7,495.0	8,737.2	7,630.0	20.9	21.4	135.32	808.8	229.3	189.9	157.0	32.88	5.774		
8,700.0	7,495.0	8,837.2	7,630.0	22.3	22.7	135.25	908.8	229.3	190.1	155.3	34.80	5.463		
8,800.0	7,495.0	8,937.2	7,630.0	23.7	24.1	135.17	1,008.8	229.3	190.4	153.6	36.79	5.174		
8,900.0	7,495.0	9,037.2	7,630.0	25.1	25.5	135.10	1,108.8	229.3	190.6	151.8	38.85	4.907		
9,000.0	7,495.0	9,137.2	7,630.0	26.6	27.0	135.02	1,208.8	229.3	190.8	149.9	40.96	4.659		
9,100.0	7,495.0	9,237.2	7,630.0	28.2	28.5	134.95	1,308.8	229.3	191.1	148.0	43.12	4.431		
9,200.0	7,495.0	9,337.2	7,630.0	29.7	30.0	134.87	1,408.8	229.3	191.3	146.0	45.33	4.221		
9,300.0	7,495.0	9,437.2	7,630.0	31.3	31.6	134.80	1,508.8	229.3	191.6	144.0	47.57	4.027		
9,400.0	7,495.0	9,537.2	7,630.0	32.9	33.2	134.73	1,608.8	229.3	191.8	142.0	49.85	3.848		
9,500.0	7,495.0	9,637.2	7,630.0	34.5	34.8	134.65	1,708.8	229.3	192.1	139.9	52.16	3.682		
9,600.0	7,495.0	9,737.2	7,630.0	36.1	36.4	134.58	1,808.8	229.3	192.3	137.8	54.50	3.529		
9,700.0	7,495.0	9,837.2	7,630.0	37.7	38.0	134.51	1,908.8	229.3	192.6	135.7	56.86	3.387		
9,800.0	7,495.0	9,937.2	7,630.0	39.4	39.6	134.44	2,008.8	229.3	192.8	133.6	59.25	3.255		
9,900.0	7,495.0	10,037.2	7,630.0	41.0	41.3	134.36	2,108.8	229.3	193.1	131.4	61.65	3.132		
10,000.0	7,495.0	10,137.2	7,630.0	42.7	42.9	134.29	2,208.8	229.3	193.3	129.2	64.08	3.017		
10,100.0	7,495.0	10,237.2	7,630.0	44.3	44.6	134.22	2,308.8	229.3	193.6	127.1	66.52	2.910		
10,200.0	7,495.0	10,337.2	7,630.0	46.0	46.2	134.15	2,408.8	229.3	193.8	124.8	68.98	2.810		
10,300.0	7,495.0	10,437.2	7,630.0	47.7	47.9	134.08	2,508.8	229.3	194.1	122.6	71.45	2.716		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4K-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
10,400.0	7,495.0	10,537.2	7,630.0	49.4	49.6	134.00	2,608.8	229.3	194.3	120.4	73.94	2.628		
10,500.0	7,495.0	10,637.2	7,630.0	51.1	51.3	133.93	2,708.8	229.3	194.6	118.1	76.44	2.545		
10,600.0	7,495.0	10,737.2	7,630.0	52.8	53.0	133.86	2,808.8	229.3	194.8	115.9	78.96	2.467		
10,700.0	7,495.0	10,837.2	7,630.0	54.5	54.7	133.79	2,908.8	229.3	195.1	113.6	81.49	2.394		
10,800.0	7,495.0	10,937.2	7,630.0	56.2	56.4	133.72	3,008.8	229.3	195.3	111.3	84.02	2.325		
10,900.0	7,495.0	11,037.2	7,630.0	57.9	58.1	133.65	3,108.8	229.3	195.6	109.0	86.57	2.259		
11,000.0	7,495.0	11,137.2	7,630.0	59.6	59.8	133.58	3,208.8	229.3	195.8	106.7	89.13	2.197		
11,100.0	7,495.0	11,237.2	7,630.0	61.3	61.5	133.51	3,308.8	229.3	196.1	104.4	91.70	2.138		
11,200.0	7,495.0	11,337.2	7,630.0	63.0	63.2	133.44	3,408.8	229.3	196.3	102.1	94.28	2.083		
11,300.0	7,495.0	11,437.2	7,630.0	64.7	64.9	133.37	3,508.8	229.3	196.6	99.7	96.87	2.030		
11,400.0	7,495.0	11,537.2	7,630.0	66.4	66.6	133.30	3,608.8	229.3	196.9	97.4	99.47	1.979		
11,500.0	7,495.0	11,637.2	7,630.0	68.1	68.3	133.23	3,708.8	229.3	197.1	95.0	102.07	1.931		
11,600.0	7,495.0	11,737.2	7,630.0	69.9	70.0	133.16	3,808.8	229.3	197.4	92.7	104.69	1.885		
11,700.0	7,495.0	11,837.2	7,630.0	71.6	71.7	133.09	3,908.8	229.3	197.6	90.3	107.31	1.842		
11,800.0	7,495.0	11,937.2	7,630.0	73.3	73.5	133.02	4,008.8	229.3	197.9	87.9	109.94	1.800		
11,900.0	7,495.0	12,037.2	7,630.0	75.0	75.2	132.95	4,108.8	229.3	198.1	85.5	112.58	1.760		
12,000.0	7,495.0	12,137.2	7,630.0	76.8	76.9	132.88	4,208.8	229.3	198.4	83.2	115.23	1.722		
12,100.0	7,495.0	12,237.2	7,630.0	78.5	78.6	132.81	4,308.8	229.3	198.6	80.8	117.88	1.685		
12,200.0	7,495.0	12,337.2	7,630.0	80.2	80.4	132.75	4,408.8	229.3	198.9	78.4	120.54	1.650		
12,300.0	7,495.0	12,437.2	7,630.0	81.9	82.1	132.68	4,508.7	229.3	199.2	75.9	123.21	1.616		
12,400.0	7,495.0	12,537.2	7,630.0	83.7	83.8	132.61	4,608.7	229.3	199.4	73.5	125.88	1.584		
12,500.0	7,495.0	12,637.2	7,630.0	85.4	85.5	132.54	4,708.7	229.3	199.7	71.1	128.56	1.553		
12,600.0	7,495.0	12,737.2	7,630.0	87.1	87.3	132.47	4,808.7	229.3	199.9	68.7	131.25	1.523		
12,700.0	7,495.0	12,837.2	7,630.0	88.9	89.0	132.41	4,908.7	229.3	200.2	66.2	133.95	1.494 Level 3		
12,800.0	7,495.0	12,937.2	7,630.0	90.6	90.7	132.34	5,008.7	229.3	200.4	63.8	136.65	1.467 Level 3		
12,900.0	7,495.0	13,037.2	7,630.0	92.3	92.5	132.27	5,108.7	229.3	200.7	61.3	139.36	1.440 Level 3		
13,000.0	7,495.0	13,137.2	7,630.0	94.1	94.2	132.21	5,208.7	229.3	201.0	58.9	142.07	1.414 Level 3		
13,100.0	7,495.0	13,237.2	7,630.0	95.8	95.9	132.14	5,308.7	229.3	201.2	56.4	144.79	1.390 Level 3		
13,200.0	7,495.0	13,337.2	7,630.0	97.5	97.7	132.00	5,408.7	229.3	201.8	54.2	147.60	1.367 Level 3		
13,300.0	7,495.0	13,437.1	7,630.0	99.3	99.4	131.55	5,508.7	229.3	203.6	52.6	151.01	1.348 Level 3		
13,400.0	7,495.0	13,537.0	7,630.0	101.0	101.1	130.81	5,608.6	229.3	206.7	51.7	155.05	1.333 Level 3		
13,500.0	7,495.0	13,636.9	7,630.0	102.8	102.9	129.80	5,708.5	229.3	211.1	51.4	159.74	1.322 Level 3		
13,600.0	7,495.0	13,736.7	7,630.0	104.5	104.6	128.75	5,808.3	229.3	215.9	51.2	164.68	1.311 Level 3		
13,700.0	7,495.0	13,836.5	7,630.0	106.2	106.3	127.75	5,908.1	229.3	220.8	51.2	169.56	1.302 Level 3		
13,800.0	7,495.0	13,936.3	7,630.0	108.0	108.1	126.79	6,007.9	229.3	225.7	51.3	174.38	1.294 Level 3		
13,900.0	7,495.0	14,036.1	7,630.0	109.7	109.8	125.88	6,107.7	229.3	230.7	51.5	179.13	1.288 Level 3		
14,000.0	7,495.0	14,135.9	7,630.0	111.4	111.5	125.00	6,207.5	229.3	235.7	51.8	183.83	1.282 Level 3		
14,100.0	7,495.0	14,235.7	7,630.0	113.2	113.3	124.16	6,307.3	229.3	240.8	52.3	188.47	1.277 Level 3		
14,200.0	7,495.0	14,335.5	7,630.0	114.9	115.0	123.35	6,407.1	229.3	245.9	52.8	193.06	1.274 Level 3		
14,300.0	7,495.0	14,435.3	7,630.0	116.7	116.8	122.58	6,506.9	229.3	251.1	53.5	197.60	1.271 Level 3, SF		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
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	90.95	-0.3	19.9	19.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.95	-0.3	19.9	19.9	19.6	0.24	83.683		
200.0	200.0	200.0	200.0	0.3	0.3	90.95	-0.3	19.9	19.9	19.3	0.59	33.872		
300.0	300.0	300.0	300.0	0.5	0.5	90.95	-0.3	19.9	19.9	18.9	0.94	21.233		
400.0	400.0	400.0	400.0	0.6	0.6	90.95	-0.3	19.9	19.9	18.6	1.28	15.463		
500.0	500.0	500.0	500.0	0.8	0.8	90.95	-0.3	19.9	19.9	18.2	1.63	12.159		
600.0	600.0	600.0	600.0	1.0	1.0	90.95	-0.3	19.9	19.9	17.9	1.98	10.018		
700.0	700.0	700.0	700.0	1.2	1.2	90.95	-0.3	19.9	19.9	17.5	2.33	8.519		
800.0	800.0	800.0	800.0	1.3	1.3	90.95	-0.3	19.9	19.9	17.2	2.68	7.409		
900.0	900.0	900.0	900.0	1.5	1.5	90.95	-0.3	19.9	19.9	16.8	3.03	6.556		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	90.95	-0.3	19.9	19.9	16.5	3.38	5.879	CC, ES	
1,100.0	1,100.0	1,099.5	1,099.5	1.9	1.9	94.31	-1.6	21.0	21.1	17.4	3.73	5.664		
1,200.0	1,200.0	1,198.8	1,198.6	2.0	2.0	-71.45	-5.3	24.6	24.6	20.5	4.08	6.031		
1,300.0	1,299.8	1,297.9	1,297.4	2.2	2.2	-70.63	-11.6	30.5	29.8	25.3	4.44	6.702		
1,400.0	1,399.5	1,397.1	1,395.9	2.4	2.5	-71.84	-20.1	38.6	36.4	31.6	4.82	7.553		
1,500.0	1,499.0	1,496.9	1,494.9	2.6	2.7	-73.10	-29.3	47.2	43.4	38.2	5.21	8.318		
1,600.0	1,598.6	1,596.6	1,593.8	2.8	2.9	-74.01	-38.4	55.8	50.4	44.7	5.62	8.959		
1,700.0	1,698.2	1,696.4	1,692.8	3.0	3.2	-74.69	-47.5	64.4	57.4	51.3	6.04	9.501		
1,800.0	1,797.8	1,796.2	1,791.8	3.2	3.4	-75.23	-56.6	73.0	64.4	57.9	6.46	9.962		
1,900.0	1,897.3	1,895.9	1,890.7	3.5	3.7	-75.66	-65.7	81.6	71.4	64.5	6.89	10.359		
2,000.0	1,996.9	1,995.7	1,989.7	3.7	3.9	-76.02	-74.8	90.2	78.4	71.1	7.32	10.701		
2,100.0	2,096.5	2,095.4	2,088.6	3.9	4.2	-76.31	-83.9	98.8	85.4	77.6	7.76	11.000		
2,200.0	2,196.0	2,195.2	2,187.6	4.1	4.4	-76.57	-93.0	107.4	92.4	84.2	8.20	11.262		
2,300.0	2,295.6	2,294.9	2,286.6	4.3	4.7	-76.78	-102.1	116.0	99.4	90.8	8.65	11.493		
2,400.0	2,395.2	2,394.7	2,385.5	4.6	5.0	-76.97	-111.2	124.6	106.4	97.3	9.10	11.699		
2,500.0	2,494.8	2,494.4	2,484.5	4.8	5.2	-77.13	-120.3	133.2	113.5	103.9	9.55	11.882		
2,600.0	2,594.3	2,594.2	2,583.5	5.0	5.5	-77.28	-129.4	141.8	120.5	110.5	10.00	12.047		
2,700.0	2,693.9	2,693.9	2,682.4	5.3	5.8	-77.41	-138.5	150.4	127.5	117.0	10.45	12.195		
2,800.0	2,793.5	2,793.7	2,781.4	5.5	6.0	-77.52	-147.6	159.0	134.5	123.6	10.91	12.330		
2,900.0	2,893.0	2,893.4	2,880.4	5.7	6.3	-77.63	-156.7	167.6	141.5	130.2	11.37	12.452		
3,000.0	2,992.6	2,993.2	2,979.3	5.9	6.6	-77.72	-165.9	176.2	148.6	136.7	11.82	12.564		
3,100.0	3,092.2	3,092.9	3,078.3	6.2	6.9	-77.81	-175.0	184.8	155.6	143.3	12.28	12.667		
3,200.0	3,191.8	3,192.7	3,177.2	6.4	7.1	-77.89	-184.1	193.4	162.6	149.9	12.74	12.761		
3,300.0	3,291.3	3,292.4	3,276.2	6.6	7.4	-77.96	-193.2	202.0	169.6	156.4	13.20	12.848		
3,400.0	3,390.9	3,392.2	3,375.2	6.9	7.7	-78.02	-202.3	210.6	176.6	163.0	13.66	12.928		
3,500.0	3,490.5	3,492.0	3,474.1	7.1	8.0	-78.09	-211.4	219.2	183.7	169.5	14.13	13.002		
3,600.0	3,590.0	3,591.7	3,573.1	7.3	8.2	-78.14	-220.5	227.8	190.7	176.1	14.59	13.072		
3,700.0	3,689.6	3,691.5	3,672.1	7.6	8.5	-78.19	-229.6	236.4	197.7	182.7	15.05	13.136		
3,800.0	3,789.2	3,791.2	3,771.0	7.8	8.8	-78.24	-238.7	245.0	204.7	189.2	15.51	13.196		
3,900.0	3,888.8	3,891.0	3,870.0	8.0	9.1	-78.29	-247.8	253.6	211.8	195.8	15.98	13.253		
4,000.0	3,988.3	3,990.7	3,969.0	8.3	9.3	-78.33	-256.9	262.2	218.8	202.3	16.44	13.306		
4,100.0	4,087.9	4,090.5	4,067.9	8.5	9.6	-78.37	-266.0	270.8	225.8	208.9	16.91	13.355		
4,200.0	4,187.5	4,190.2	4,166.9	8.8	9.9	-78.41	-275.1	279.4	232.8	215.5	17.37	13.402		
4,300.0	4,287.0	4,290.0	4,265.8	9.0	10.2	-78.45	-284.2	288.0	239.9	222.0	17.84	13.446		
4,400.0	4,386.6	4,389.7	4,364.8	9.2	10.4	-78.48	-293.3	296.6	246.9	228.6	18.30	13.488		
4,500.0	4,486.2	4,489.5	4,463.8	9.5	10.7	-78.51	-302.5	305.2	253.9	235.1	18.77	13.527		
4,600.0	4,585.8	4,589.2	4,562.7	9.7	11.0	-78.54	-311.6	313.8	260.9	241.7	19.24	13.564		
4,700.0	4,685.3	4,689.0	4,661.7	9.9	11.3	-78.57	-320.7	322.4	268.0	248.3	19.70	13.600		
4,800.0	4,784.9	4,788.7	4,760.7	10.2	11.6	-78.60	-329.8	331.0	275.0	254.8	20.17	13.633		
4,900.0	4,884.5	4,888.5	4,859.6	10.4	11.8	-78.62	-338.9	339.5	282.0	261.4	20.64	13.665		
5,000.0	4,984.1	4,988.2	4,958.6	10.6	12.1	-78.65	-348.0	348.1	289.0	267.9	21.10	13.695		
5,100.0	5,083.6	5,088.0	5,057.5	10.9	12.4	-78.67	-357.1	356.7	296.1	274.5	21.57	13.724		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,183.2	5,187.8	5,156.5	11.1	12.7	-78.69	-366.2	365.3	303.1	281.0	22.04	13.752		
5,300.0	5,282.8	5,287.5	5,255.5	11.3	12.9	-78.71	-375.3	373.9	310.1	287.6	22.51	13.778		
5,400.0	5,382.3	5,387.3	5,354.4	11.6	13.2	-78.73	-384.4	382.5	317.1	294.2	22.97	13.803		
5,500.0	5,481.9	5,487.0	5,453.4	11.8	13.5	-78.75	-393.5	391.1	324.2	300.7	23.44	13.828		
5,600.0	5,581.5	5,586.8	5,552.4	12.0	13.8	-78.77	-402.6	399.7	331.2	307.3	23.91	13.851		
5,700.0	5,681.1	5,686.5	5,651.3	12.3	14.1	-78.79	-411.7	408.3	338.2	313.8	24.38	13.873		
5,800.0	5,780.6	5,786.3	5,750.3	12.5	14.3	-78.81	-420.8	416.9	345.2	320.4	24.85	13.894		
5,900.0	5,880.2	5,886.0	5,849.3	12.8	14.6	-78.82	-429.9	425.5	352.2	326.9	25.32	13.914		
6,000.0	5,979.8	5,985.8	5,948.2	13.0	14.9	-78.84	-439.1	434.1	359.3	333.5	25.78	13.934		
6,100.0	6,079.3	6,085.5	6,047.2	13.2	15.2	-78.85	-448.2	442.7	366.3	340.0	26.25	13.953		
6,200.0	6,178.9	6,185.3	6,146.1	13.5	15.5	-78.87	-457.3	451.3	373.3	346.6	26.72	13.971		
6,300.0	6,278.5	6,285.0	6,245.1	13.7	15.7	-78.88	-466.4	459.9	380.3	353.2	27.19	13.988		
6,400.0	6,378.1	6,384.8	6,344.1	13.9	16.0	-78.89	-475.5	468.5	387.4	359.7	27.66	14.005		
6,500.0	6,477.6	6,484.5	6,443.0	14.2	16.3	-78.91	-484.6	477.1	394.4	366.3	28.13	14.022		
6,600.0	6,577.2	6,584.3	6,542.0	14.4	16.6	-78.92	-493.7	485.7	401.4	372.8	28.60	14.037		
6,700.0	6,676.8	6,684.0	6,641.0	14.6	16.8	-78.93	-502.8	494.3	408.4	379.4	29.07	14.052		
6,800.0	6,776.3	6,783.8	6,739.9	14.9	17.1	-78.94	-511.9	502.9	415.5	385.9	29.54	14.067		
6,900.0	6,875.9	6,884.5	6,840.0	15.1	17.4	-78.16	-518.1	511.6	422.4	392.4	30.00	14.082		
7,000.0	6,975.8	6,984.4	6,938.9	15.2	17.4	79.32	-508.2	519.9	429.3	399.0	30.28	14.177		
7,100.0	7,074.0	7,082.8	7,033.3	15.1	17.3	83.63	-481.9	527.6	436.1	405.9	30.20	14.439		
7,200.0	7,167.6	7,179.8	7,120.6	14.9	17.2	83.23	-440.4	534.5	442.5	412.7	29.79	14.855		
7,300.0	7,253.8	7,275.6	7,198.8	14.6	16.9	82.26	-385.6	540.5	448.4	419.2	29.12	15.398		
7,400.0	7,329.8	7,370.2	7,266.0	14.2	16.7	81.24	-319.3	545.3	453.4	425.1	28.31	16.016		
7,500.0	7,393.5	7,464.0	7,321.1	13.9	16.4	80.33	-243.6	548.9	457.5	430.0	27.51	16.628		
7,600.0	7,442.9	7,557.0	7,362.8	13.6	16.3	79.60	-160.6	551.4	460.5	433.6	26.90	17.117		
7,700.0	7,476.4	7,650.0	7,390.7	13.5	16.3	79.09	-72.1	552.5	462.2	435.6	26.64	17.349		
7,800.0	7,493.1	7,741.5	7,403.8	13.7	16.4	78.82	18.4	552.4	462.6	435.7	26.86	17.224		
7,900.0	7,495.0	7,838.2	7,405.0	14.0	16.7	78.76	115.1	551.1	461.8	434.2	27.58	16.744		
8,000.0	7,495.0	7,938.2	7,405.0	14.6	17.1	78.73	215.1	549.7	460.7	432.0	28.68	16.064		
8,100.0	7,495.0	8,038.2	7,405.0	15.3	17.8	78.71	315.1	548.3	459.7	429.6	30.14	15.254		
8,200.0	7,495.0	8,138.2	7,405.0	16.2	18.5	78.68	415.1	546.9	458.7	426.8	31.90	14.379		
8,300.0	7,495.0	8,238.2	7,405.0	17.2	19.4	78.66	515.0	545.5	457.6	423.7	33.92	13.492		
8,400.0	7,495.0	8,338.2	7,405.0	18.4	20.5	78.63	615.0	544.1	456.6	420.5	36.15	12.630		
8,500.0	7,495.0	8,438.2	7,405.0	19.6	21.6	78.61	715.0	542.7	455.6	417.0	38.57	11.813		
8,600.0	7,495.0	8,538.2	7,405.0	20.9	22.8	78.58	815.0	541.3	454.6	413.4	41.12	11.054		
8,700.0	7,495.0	8,638.2	7,405.0	22.3	24.0	78.55	915.0	539.9	453.5	409.7	43.80	10.354		
8,800.0	7,495.0	8,738.2	7,405.0	23.7	25.3	78.53	1,015.0	538.6	452.5	405.9	46.58	9.715		
8,900.0	7,495.0	8,838.2	7,405.0	25.1	26.7	78.50	1,114.9	537.2	451.5	402.1	49.44	9.132		
9,000.0	7,495.0	8,938.2	7,405.0	26.6	28.1	78.47	1,214.9	535.8	450.5	398.1	52.37	8.602		
9,100.0	7,495.0	9,038.2	7,405.0	28.2	29.6	78.45	1,314.9	534.4	449.4	394.1	55.35	8.119		
9,200.0	7,495.0	9,138.2	7,405.0	29.7	31.0	78.42	1,414.9	533.0	448.4	390.0	58.39	7.680		
9,300.0	7,495.0	9,238.2	7,405.0	31.3	32.5	78.39	1,514.9	531.6	447.4	385.9	61.47	7.279		
9,400.0	7,495.0	9,338.2	7,405.0	32.9	34.1	78.37	1,614.9	530.2	446.4	381.8	64.58	6.912		
9,500.0	7,495.0	9,438.1	7,405.0	34.5	35.6	78.34	1,714.9	528.8	445.3	377.6	67.72	6.576		
9,600.0	7,495.0	9,538.1	7,405.0	36.1	37.2	78.31	1,814.8	527.4	444.3	373.4	70.89	6.268		
9,700.0	7,495.0	9,638.1	7,405.0	37.7	38.8	78.29	1,914.8	526.0	443.3	369.2	74.08	5.984		
9,800.0	7,495.0	9,738.1	7,405.0	39.4	40.4	78.26	2,014.8	524.6	442.3	365.0	77.29	5.722		
9,900.0	7,495.0	9,838.1	7,405.0	41.0	42.0	78.23	2,114.8	523.2	441.2	360.7	80.52	5.480		
10,000.0	7,495.0	9,938.1	7,405.0	42.7	43.6	78.20	2,214.8	521.8	440.2	356.4	83.76	5.256		
10,100.0	7,495.0	10,038.1	7,405.0	44.3	45.2	78.17	2,314.8	520.4	439.2	352.2	87.02	5.047		
10,200.0	7,495.0	10,138.1	7,405.0	46.0	46.9	78.15	2,414.8	519.0	438.2	347.9	90.29	4.853		
10,300.0	7,495.0	10,238.1	7,405.0	47.7	48.5	78.12	2,514.7	517.6	437.1	343.6	93.57	4.672		

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

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
10,400.0	7,495.0	10,338.1	7,405.0	49.4	50.2	78.09	2,614.7	516.2	436.1	339.3	96.85	4.503		
10,500.0	7,495.0	10,438.1	7,405.0	51.1	51.8	78.06	2,714.7	514.8	435.1	334.9	100.15	4.344		
10,600.0	7,495.0	10,538.1	7,405.0	52.8	53.5	78.03	2,814.7	513.4	434.1	330.6	103.46	4.196		
10,700.0	7,495.0	10,638.1	7,405.0	54.5	55.2	78.00	2,914.7	512.0	433.0	326.3	106.77	4.056		
10,800.0	7,495.0	10,738.1	7,405.0	56.2	56.9	77.97	3,014.7	510.6	432.0	321.9	110.08	3.924		
10,900.0	7,495.0	10,838.1	7,405.0	57.9	58.5	77.95	3,114.6	509.2	431.0	317.6	113.41	3.800		
11,000.0	7,495.0	10,938.1	7,405.0	59.6	60.2	77.92	3,214.6	507.8	430.0	313.2	116.73	3.683		
11,100.0	7,495.0	11,038.1	7,405.0	61.3	61.9	77.89	3,314.6	506.4	428.9	308.9	120.07	3.573		
11,200.0	7,495.0	11,138.1	7,405.0	63.0	63.6	77.86	3,414.6	505.0	427.9	304.5	123.40	3.468		
11,300.0	7,495.0	11,238.0	7,405.0	64.7	65.3	77.83	3,514.6	503.6	426.9	300.1	126.74	3.368		
11,400.0	7,495.0	11,338.0	7,405.0	66.4	67.0	77.80	3,614.6	502.2	425.9	295.8	130.08	3.274		
11,500.0	7,495.0	11,438.0	7,405.0	68.1	68.7	77.77	3,714.6	500.9	424.8	291.4	133.43	3.184		
11,600.0	7,495.0	11,538.0	7,405.0	69.9	70.4	77.74	3,814.5	499.5	423.8	287.0	136.78	3.099		
11,700.0	7,495.0	11,638.0	7,405.0	71.6	72.1	77.71	3,914.5	498.1	422.8	282.7	140.13	3.017		
11,800.0	7,495.0	11,738.0	7,405.0	73.3	73.8	77.68	4,014.5	496.7	421.8	278.3	143.48	2.940		
11,900.0	7,495.0	11,838.0	7,405.0	75.0	75.6	77.65	4,114.5	495.3	420.7	273.9	146.84	2.865		
12,000.0	7,495.0	11,938.0	7,405.0	76.8	77.3	77.62	4,214.5	493.9	419.7	269.5	150.19	2.795		
12,100.0	7,495.0	12,038.0	7,405.0	78.5	79.0	77.59	4,314.5	492.5	418.7	265.2	153.55	2.727		
12,200.0	7,495.0	12,138.0	7,405.0	80.2	80.7	77.56	4,414.4	491.1	417.7	260.8	156.91	2.662		
12,300.0	7,495.0	12,238.0	7,405.0	81.9	82.4	77.52	4,514.4	489.7	416.7	256.4	160.27	2.600		
12,400.0	7,495.0	12,338.0	7,405.0	83.7	84.1	77.49	4,614.4	488.3	415.6	252.0	163.63	2.540		
12,500.0	7,495.0	12,438.0	7,405.0	85.4	85.9	77.46	4,714.4	486.9	414.6	247.6	166.99	2.483		
12,600.0	7,495.0	12,538.0	7,405.0	87.1	87.6	77.43	4,814.4	485.5	413.6	243.2	170.36	2.428		
12,700.0	7,495.0	12,638.0	7,405.0	88.9	89.3	77.40	4,914.4	484.1	412.6	238.8	173.72	2.375		
12,800.0	7,495.0	12,738.0	7,405.0	90.6	91.0	77.37	5,014.4	482.7	411.5	234.5	177.09	2.324		
12,900.0	7,495.0	12,838.0	7,405.0	92.3	92.8	77.34	5,114.3	481.3	410.5	230.1	180.45	2.275		
13,000.0	7,495.0	12,938.0	7,405.0	94.1	94.5	77.30	5,214.3	479.9	409.5	225.7	183.82	2.228		
13,100.0	7,495.0	13,038.0	7,405.0	95.8	96.2	77.27	5,314.3	478.5	408.5	221.3	187.18	2.182		
13,193.2	7,495.0	13,131.2	7,405.0	97.4	97.8	77.26	5,407.5	477.2	408.0	217.8	190.22	2.145		
13,200.0	7,495.0	13,137.9	7,405.0	97.5	97.9	77.25	5,414.3	477.1	407.9	217.4	190.43	2.142		
13,300.0	7,495.0	13,237.9	7,405.0	99.3	99.7	77.28	5,514.3	475.7	408.9	215.2	193.62	2.112		
13,400.0	7,495.0	13,337.9	7,405.0	101.0	101.4	77.36	5,614.2	474.3	411.6	214.8	196.78	2.091		
13,500.0	7,495.0	13,437.8	7,405.0	102.8	103.1	77.49	5,714.1	472.9	415.9	215.8	200.05	2.079		
13,600.0	7,495.0	13,537.7	7,405.0	104.5	104.9	77.63	5,814.0	471.5	420.5	217.0	203.55	2.066		
13,700.0	7,495.0	13,637.6	7,405.0	106.2	106.6	77.77	5,913.9	470.1	425.2	218.1	207.05	2.054		
13,800.0	7,495.0	13,737.5	7,405.0	108.0	108.3	77.90	6,013.8	468.7	429.9	219.3	210.55	2.042		
13,900.0	7,495.0	13,837.3	7,405.0	109.7	110.1	78.03	6,113.6	467.4	434.5	220.5	214.05	2.030		
14,000.0	7,495.0	13,937.2	7,405.0	111.4	111.8	78.16	6,213.5	466.0	439.2	221.6	217.55	2.019		
14,100.0	7,495.0	14,037.1	7,405.0	113.2	113.5	78.29	6,313.4	464.6	443.9	222.8	221.06	2.008		
14,200.0	7,495.0	14,137.0	7,405.0	114.9	115.3	78.41	6,413.3	463.2	448.5	224.0	224.56	1.997		
14,300.0	7,495.0	14,236.9	7,405.0	116.7	117.0	78.53	6,513.1	461.8	453.2	225.1	228.06	1.987 SF		

Anticollision Report

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

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 8-6-26 (EXISTING) - ENCANA WELL - SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 966-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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)					
7,700.0	7,476.4	7,557.8	7,469.3	13.5	20.8	57.70	780.0	442.2	935.0	906.0	29.03	32.213	
7,800.0	7,493.1	7,574.1	7,485.5	13.7	20.8	80.19	779.9	442.3	844.2	813.1	31.15	27.099	
7,900.0	7,495.0	7,575.2	7,486.7	14.0	20.8	90.28	779.9	442.3	754.2	722.5	31.65	23.831	
8,000.0	7,495.0	7,574.5	7,486.0	14.6	20.8	90.16	779.9	442.3	666.9	634.7	32.21	20.709	
8,100.0	7,495.0	7,573.8	7,485.3	15.3	20.8	90.04	779.9	442.3	583.8	550.8	32.95	17.719	
8,200.0	7,495.0	7,573.1	7,484.5	16.2	20.8	89.92	779.9	442.3	506.8	472.9	33.84	14.973	
8,300.0	7,495.0	7,572.4	7,483.8	17.2	20.8	89.80	779.9	442.3	439.1	404.3	34.88	12.591	
8,400.0	7,495.0	7,571.6	7,483.1	18.4	20.8	89.69	779.9	442.3	385.8	349.8	36.02	10.712	
8,500.0	7,495.0	7,570.9	7,482.4	19.6	20.8	89.57	779.9	442.3	353.4	316.1	37.25	9.486	
8,570.0	7,495.0	7,570.4	7,481.9	20.5	20.8	89.49	779.9	442.3	346.4	308.2	38.16	9.075 CC, ES	
8,600.0	7,495.0	7,570.2	7,481.7	20.9	20.8	89.45	779.9	442.3	347.7	309.1	38.56	9.017 SF	
8,700.0	7,495.0	7,569.5	7,481.0	22.3	20.8	89.34	779.9	442.3	370.0	330.0	39.93	9.266	
8,800.0	7,495.0	7,568.8	7,480.3	23.7	20.8	89.22	779.9	442.2	415.8	374.4	41.35	10.057	
8,900.0	7,495.0	7,568.1	7,479.6	25.1	20.8	89.10	779.9	442.2	478.4	435.6	42.81	11.176	
9,000.0	7,495.0	7,567.4	7,478.9	26.6	20.8	88.99	780.0	442.2	552.2	507.9	44.30	12.464	
9,100.0	7,495.0	7,566.7	7,478.2	28.2	20.8	88.87	780.0	442.2	633.2	587.3	45.83	13.816	
9,200.0	7,495.0	7,566.0	7,477.5	29.7	20.8	88.76	780.0	442.2	719.0	671.6	47.38	15.175	
9,300.0	7,495.0	7,565.3	7,476.8	31.3	20.8	88.65	780.0	442.2	808.0	759.1	48.95	16.507	
9,400.0	7,495.0	7,564.7	7,476.1	32.9	20.8	88.53	780.0	442.2	899.4	848.9	50.54	17.795	
9,500.0	7,495.0	7,564.0	7,475.4	34.5	20.8	88.42	780.0	442.2	992.4	940.3	52.15	19.032	

Anticollision Report

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

Reference Depths are relative to Well @ 4996.0ft

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.35°

