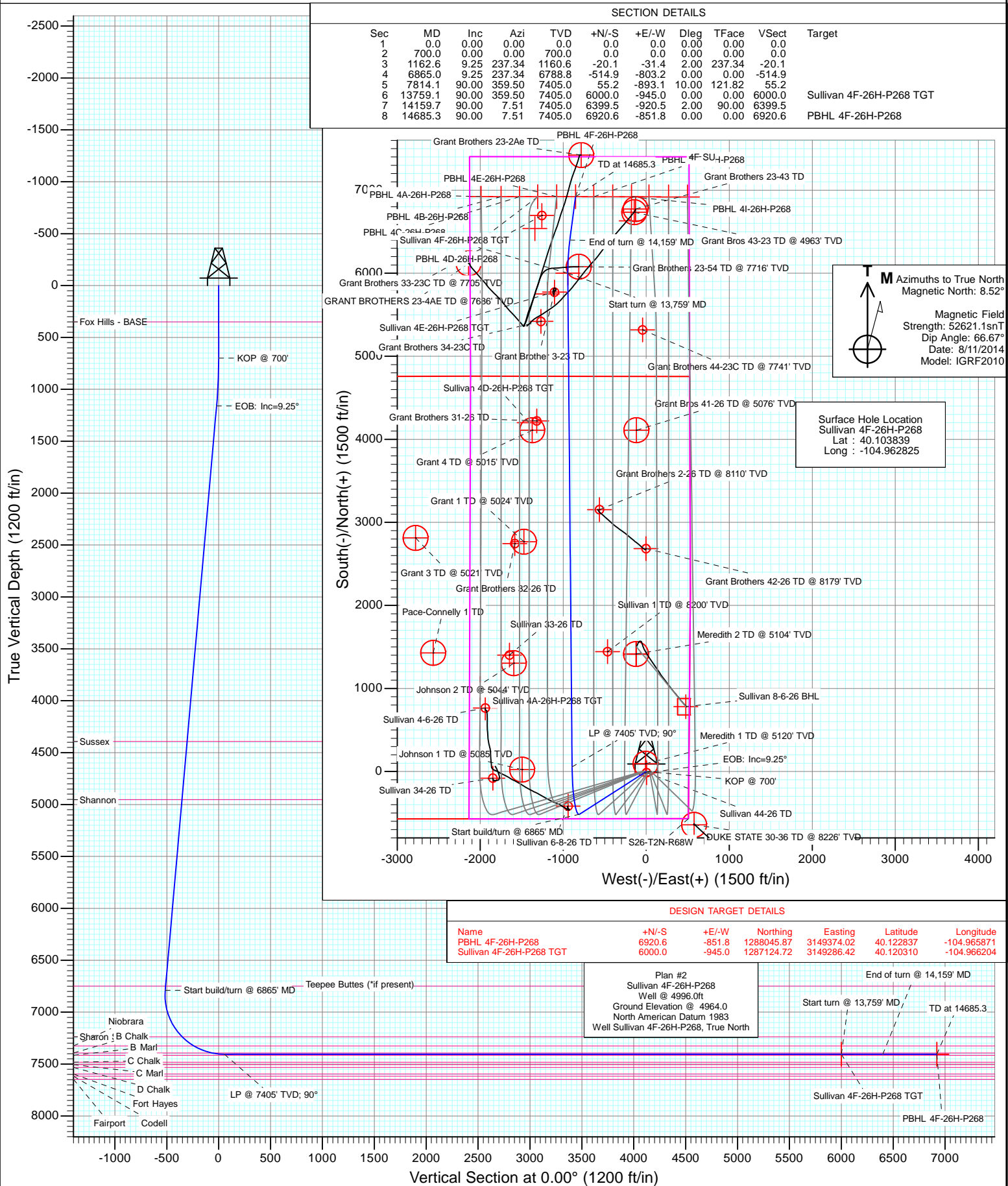




Project: DJ Wattenberg
Site: S26-T2N-R68W (Sullivan)
Well: Sullivan 4F-26H-P268
Wellbore: HZ
Design: Plan #2



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

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 4F-26H-P268					
Well Position	+N/-S	0.0 ft	Northing:	1,281,130.56 ft	Latitude:	40.103839
	+E/-W	0.0 ft	Easting:	3,150,267.74 ft	Longitude:	-104.962825
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 #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,162.6	9.25	237.34	1,160.6	-20.1	-31.4	2.00	2.00	0.00	237.34	
6,865.0	9.25	237.34	6,788.8	-514.9	-803.2	0.00	0.00	0.00	0.00	
7,814.1	90.00	359.50	7,405.0	55.2	-893.1	10.00	8.51	12.87	121.82	
13,759.1	90.00	359.50	7,405.0	6,000.0	-945.0	0.00	0.00	0.00	0.00	Sullivan 4F-26H-P268
14,159.7	90.00	7.51	7,405.0	6,399.5	-920.5	2.00	0.00	2.00	90.00	
14,685.3	90.00	7.51	7,405.0	6,920.6	-851.8	0.00	0.00	0.00	0.00	PBHL 4F-26H-P268

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

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	KOP @ 700'
800.0	2.00	237.34	800.0	-0.9	-1.5	-0.9	2.00	2.00	
900.0	4.00	237.34	899.8	-3.8	-5.9	-3.8	2.00	2.00	
1,000.0	6.00	237.34	999.5	-8.5	-13.2	-8.5	2.00	2.00	
1,100.0	8.00	237.34	1,098.7	-15.0	-23.5	-15.0	2.00	2.00	
1,162.6	9.25	237.34	1,160.6	-20.1	-31.4	-20.1	2.00	2.00	EOB: Inc=9.25°
1,200.0	9.25	237.34	1,197.5	-23.4	-36.4	-23.4	0.00	0.00	
1,300.0	9.25	237.34	1,296.2	-32.0	-50.0	-32.0	0.00	0.00	
1,400.0	9.25	237.34	1,394.9	-40.7	-63.5	-40.7	0.00	0.00	
1,500.0	9.25	237.34	1,493.6	-49.4	-77.0	-49.4	0.00	0.00	
1,600.0	9.25	237.34	1,592.3	-58.1	-90.6	-58.1	0.00	0.00	
1,700.0	9.25	237.34	1,691.0	-66.7	-104.1	-66.7	0.00	0.00	
1,800.0	9.25	237.34	1,789.7	-75.4	-117.6	-75.4	0.00	0.00	
1,900.0	9.25	237.34	1,888.4	-84.1	-131.2	-84.1	0.00	0.00	
2,000.0	9.25	237.34	1,987.1	-92.8	-144.7	-92.8	0.00	0.00	
2,100.0	9.25	237.34	2,085.8	-101.4	-158.2	-101.4	0.00	0.00	
2,200.0	9.25	237.34	2,184.5	-110.1	-171.8	-110.1	0.00	0.00	
2,300.0	9.25	237.34	2,283.2	-118.8	-185.3	-118.8	0.00	0.00	
2,400.0	9.25	237.34	2,381.9	-127.5	-198.9	-127.5	0.00	0.00	
2,500.0	9.25	237.34	2,480.6	-136.1	-212.4	-136.1	0.00	0.00	
2,600.0	9.25	237.34	2,579.3	-144.8	-225.9	-144.8	0.00	0.00	
2,700.0	9.25	237.34	2,678.0	-153.5	-239.5	-153.5	0.00	0.00	
2,800.0	9.25	237.34	2,776.7	-162.2	-253.0	-162.2	0.00	0.00	
2,900.0	9.25	237.34	2,875.4	-170.9	-266.5	-170.9	0.00	0.00	
3,000.0	9.25	237.34	2,974.1	-179.5	-280.1	-179.5	0.00	0.00	
3,100.0	9.25	237.34	3,072.8	-188.2	-293.6	-188.2	0.00	0.00	
3,200.0	9.25	237.34	3,171.5	-196.9	-307.1	-196.9	0.00	0.00	
3,300.0	9.25	237.34	3,270.2	-205.6	-320.7	-205.6	0.00	0.00	
3,400.0	9.25	237.34	3,368.9	-214.2	-334.2	-214.2	0.00	0.00	
3,500.0	9.25	237.34	3,467.6	-222.9	-347.7	-222.9	0.00	0.00	
3,600.0	9.25	237.34	3,566.3	-231.6	-361.3	-231.6	0.00	0.00	
3,700.0	9.25	237.34	3,665.0	-240.3	-374.8	-240.3	0.00	0.00	
3,800.0	9.25	237.34	3,763.7	-248.9	-388.3	-248.9	0.00	0.00	
3,900.0	9.25	237.34	3,862.4	-257.6	-401.9	-257.6	0.00	0.00	
4,000.0	9.25	237.34	3,961.1	-266.3	-415.4	-266.3	0.00	0.00	
4,100.0	9.25	237.34	4,059.8	-275.0	-428.9	-275.0	0.00	0.00	
4,200.0	9.25	237.34	4,158.5	-283.6	-442.5	-283.6	0.00	0.00	
4,300.0	9.25	237.34	4,257.2	-292.3	-456.0	-292.3	0.00	0.00	
4,400.0	9.25	237.34	4,355.9	-301.0	-469.5	-301.0	0.00	0.00	
4,436.6	9.25	237.34	4,392.0	-304.2	-474.5	-304.2	0.00	0.00	Sussex
4,500.0	9.25	237.34	4,454.6	-309.7	-483.1	-309.7	0.00	0.00	
4,600.0	9.25	237.34	4,553.3	-318.3	-496.6	-318.3	0.00	0.00	
4,700.0	9.25	237.34	4,652.0	-327.0	-510.2	-327.0	0.00	0.00	
4,800.0	9.25	237.34	4,750.7	-335.7	-523.7	-335.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

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	9.25	237.34	4,849.4	-344.4	-537.2	-344.4	0.00	0.00	
5,000.0	9.25	237.34	4,948.1	-353.1	-550.8	-353.1	0.00	0.00	
5,005.0	9.25	237.34	4,953.0	-353.5	-551.4	-353.5	0.00	0.00	Shannon
5,100.0	9.25	237.34	5,046.8	-361.7	-564.3	-361.7	0.00	0.00	
5,200.0	9.25	237.34	5,145.5	-370.4	-577.8	-370.4	0.00	0.00	
5,300.0	9.25	237.34	5,244.2	-379.1	-591.4	-379.1	0.00	0.00	
5,400.0	9.25	237.34	5,342.9	-387.8	-604.9	-387.8	0.00	0.00	
5,500.0	9.25	237.34	5,441.6	-396.4	-618.4	-396.4	0.00	0.00	
5,600.0	9.25	237.34	5,540.3	-405.1	-632.0	-405.1	0.00	0.00	
5,700.0	9.25	237.34	5,639.0	-413.8	-645.5	-413.8	0.00	0.00	
5,800.0	9.25	237.34	5,737.7	-422.5	-659.0	-422.5	0.00	0.00	
5,900.0	9.25	237.34	5,836.4	-431.1	-672.6	-431.1	0.00	0.00	
6,000.0	9.25	237.34	5,935.1	-439.8	-686.1	-439.8	0.00	0.00	
6,100.0	9.25	237.34	6,033.8	-448.5	-699.6	-448.5	0.00	0.00	
6,200.0	9.25	237.34	6,132.5	-457.2	-713.2	-457.2	0.00	0.00	
6,300.0	9.25	237.34	6,231.2	-465.8	-726.7	-465.8	0.00	0.00	
6,400.0	9.25	237.34	6,329.9	-474.5	-740.2	-474.5	0.00	0.00	
6,500.0	9.25	237.34	6,428.6	-483.2	-753.8	-483.2	0.00	0.00	
6,600.0	9.25	237.34	6,527.3	-491.9	-767.3	-491.9	0.00	0.00	
6,700.0	9.25	237.34	6,626.0	-500.5	-780.8	-500.5	0.00	0.00	
6,800.0	9.25	237.34	6,724.7	-509.2	-794.4	-509.2	0.00	0.00	
6,824.7	9.25	237.34	6,749.0	-511.4	-797.7	-511.4	0.00	0.00	Teepee Buttes (*if present)
6,865.0	9.25	237.34	6,788.8	-514.9	-803.2	-514.9	0.00	0.00	Start build/turn @ 6865' MD
6,900.0	7.98	259.27	6,823.4	-516.8	-807.9	-516.8	10.00	-3.65	
7,000.0	11.62	317.37	6,922.2	-510.7	-821.6	-510.7	10.00	3.64	
7,100.0	20.12	337.39	7,018.3	-487.4	-835.1	-487.4	10.00	8.51	
7,200.0	29.56	345.43	7,109.0	-447.5	-847.9	-447.5	10.00	9.43	
7,300.0	39.26	349.79	7,191.4	-392.4	-859.8	-392.4	10.00	9.70	
7,361.6	45.29	351.65	7,237.0	-351.5	-866.4	-351.5	10.00	9.79	Sharon Springs
7,400.0	49.06	352.63	7,263.1	-323.6	-870.2	-323.6	10.00	9.82	
7,500.0	58.92	354.73	7,321.8	-243.3	-879.0	-243.3	10.00	9.86	
7,506.2	59.53	354.85	7,325.0	-238.0	-879.5	-238.0	10.00	9.87	Niobrara
7,600.0	68.80	356.43	7,365.8	-153.9	-885.9	-153.9	10.00	9.88	
7,696.1	78.31	357.87	7,393.0	-61.9	-890.4	-61.9	10.00	9.90	B Chalk
7,700.0	78.70	357.92	7,393.8	-58.1	-890.6	-58.1	10.00	9.90	
7,800.0	88.60	359.31	7,404.8	41.1	-893.0	41.1	10.00	9.90	
7,814.1	90.00	359.50	7,405.0	55.2	-893.1	55.2	10.00	9.91	LP @ 7405' TVD; 90°
7,900.0	90.00	359.50	7,405.0	141.1	-893.9	141.1	0.00	0.00	
8,000.0	90.00	359.50	7,405.0	241.1	-894.7	241.1	0.00	0.00	
8,100.0	90.00	359.50	7,405.0	341.1	-895.6	341.1	0.00	0.00	
8,200.0	90.00	359.50	7,405.0	441.1	-896.5	441.1	0.00	0.00	
8,300.0	90.00	359.50	7,405.0	541.1	-897.4	541.1	0.00	0.00	
8,400.0	90.00	359.50	7,405.0	641.1	-898.2	641.1	0.00	0.00	
8,500.0	90.00	359.50	7,405.0	741.1	-899.1	741.1	0.00	0.00	
8,600.0	90.00	359.50	7,405.0	841.1	-900.0	841.1	0.00	0.00	
8,700.0	90.00	359.50	7,405.0	941.1	-900.9	941.1	0.00	0.00	
8,800.0	90.00	359.50	7,405.0	1,041.1	-901.7	1,041.1	0.00	0.00	
8,900.0	90.00	359.50	7,405.0	1,141.1	-902.6	1,141.1	0.00	0.00	
9,000.0	90.00	359.50	7,405.0	1,241.1	-903.5	1,241.1	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-26H-P268	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Sullivan 4F-26H-P268 T	0.00	0.00	7,405.0	6,000.0	-945.0	1,287,124.72	3,149,286.42	40.120310	-104.966204
- plan misses target center by 4759.1ft at 9000.0ft MD (7405.0 TVD, 1241.1 N, -903.5 E)									
- Point									
PBHL 4F-26H-P268	0.00	0.00	7,405.0	6,920.6	-851.8	1,288,045.87	3,149,374.02	40.122837	-104.965871
- plan misses target center by 5679.8ft at 9000.0ft MD (7405.0 TVD, 1241.1 N, -903.5 E)									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
350.0	350.0	Fox Hills - BASE				
4,436.6	4,392.0	Sussex				
5,005.0	4,953.0	Shannon				
6,824.7	6,749.0	Teepee Buttes (*if present)				
7,361.6	7,237.0	Sharon Springs				
7,506.2	7,325.0	Niobrara				
7,696.1	7,393.0	B Chalk				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
700.0	700.0	0.0	0.0	KOP @ 700'
1,162.6	1,160.6	-20.1	-31.4	EOB: Inc=9.25°
6,865.0	6,788.8	-514.9	-803.2	Start build/turn @ 6865' MD
7,814.1	7,405.0	55.2	-893.1	LP @ 7405' TVD; 90°
13,759.1	7,405.0	6,000.0	-945.0	Start turn @ 13,759' MD
14,159.7	7,405.0	6,399.5	-920.5	End of turn @ 14,159' MD
14,685.3	7,405.0	6,920.6	-851.8	TD at 14685.3

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S26-T2N-R68W (Sullivan)

Sullivan 4F-26H-P268

HZ

Plan #2

Anticollision Report

27 October, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,105.9ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	10/27/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,685.3	Plan #2 (HZ)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S26-T2N-R68W (Sullivan)						
BERGER 32-23 - SUNDANCE WELL - NO SURVEYS						Out of range
BERGER 42-23C - SUNDANCE WELL - NO SURVEYS						Out of range
Duke State 30-36 - KMG WELL - SURVEYS						Out of range
GRANT 1 - KPK WELL - NO SURVEYS						Out of range
GRANT 3 - KPK WELL - NO SURVEYS						Out of range
GRANT 4 - KPK WELL - NO SURVEYS						Out of range
GRANT BROS 41-26 - SUNDANCE WELL - NO SURVE						Out of range
GRANT BROS 43-23 - SUNDANCE WELL - NO SURVE						Out of range
GRANT BROTHERS 2-26 - ENCANA WELL - NO SURV	10,908.7	7,354.0	356.8	285.4	4.992	CC, ES, SF
GRANT BROTHERS 23-2Ae - SUNDANCE WELL - SUR	14,685.3	7,726.7	507.0	346.4	3.156	CC, ES, SF
GRANT BROTHERS 23-43 - SUNDANCE WELL - SURV	14,625.0	7,632.3	736.7	586.0	4.890	CC, ES
GRANT BROTHERS 23-43 - SUNDANCE WELL - SURV	14,685.3	7,633.4	739.1	587.4	4.873	SF
GRANT BROTHERS 23-4AE - SUNDANCE WELL - SUR						Out of range
GRANT BROTHERS 23-54 - SUNDANCE WELL - SURV	13,840.4	7,439.5	128.4	1.3	1.011	Level 2, CC, ES, SF
GRANT BROTHERS 31-26 - ENCANA WELL - NO SUR	11,983.7	7,334.0	389.5	299.5	4.331	CC, ES
GRANT BROTHERS 31-26 - ENCANA WELL - NO SUR	12,000.0	7,334.0	389.8	299.6	4.321	SF
GRANT BROTHERS 32-26 - ENCANA WELL - NO SUR	10,509.0	7,340.0	666.8	602.1	10.313	CC, ES
GRANT BROTHERS 32-26 - ENCANA WELL - NO SUR	10,600.0	7,340.0	672.9	606.7	10.165	SF
GRANT BROTHERS 3-23 - ENCANA WELL - SURVEYS	13,540.1	7,348.2	165.8	55.3	1.500	Level 3, CC, ES, SF
GRANT BROTHERS 33-23C - ENCANA - NO SURVEYS	14,408.8	7,320.0	372.3	243.4	2.889	CC, ES, SF
GRANT BROTHERS 34-23C - ENCANA - NO SURVEYS	13,181.0	7,326.0	328.9	218.2	2.972	CC, ES
GRANT BROTHERS 34-23C - ENCANA - NO SURVEYS	13,200.0	7,326.0	329.5	218.5	2.968	SF
GRANT BROTHERS 42-26 - ENCANA WELL - Existing	10,430.0	7,422.0	909.9	843.8	13.767	CC, ES
GRANT BROTHERS 42-26 - ENCANA WELL - Existing	10,600.0	7,422.8	925.7	856.7	13.420	SF
GRANT BROTHERS 44-23C - ENCANA - NO SURVEYS	13,068.7	7,366.0	894.3	785.5	8.220	CC, ES
GRANT BROTHERS 44-23C - ENCANA - NO SURVEYS	13,200.0	7,366.0	903.9	792.8	8.138	SF
JOHNSON 1 - KPK WELL - NO SURVEYS	5,288.6	5,085.0	993.9	971.2	43.798	CC, ES
JOHNSON 1 - KPK WELL - NO SURVEYS	5,400.0	5,085.0	1,000.1	977.1	43.450	SF
JOHNSON 2 - KPK WELL - NO SURVEYS						Out of range
MEREDITH 1 - KPK WELL - NO SURVEYS	700.0	663.0	93.6	91.3	40.279	CC, ES
MEREDITH 1 - KPK WELL - NO SURVEYS	1,200.0	1,160.5	120.1	115.9	28.987	SF
MEREDITH 2 - KPK WELL - NO SURVEYS						Out of range
PACE-CONNELLY 1 - FOUNDATION WELL - NO SURV						Out of range
SULLIVAN 1 - ENCANA WELL - NO SURVEYS	9,198.0	7,367.0	438.9	395.9	10.192	CC
SULLIVAN 1 - ENCANA WELL - NO SURVEYS	9,200.0	7,367.0	438.9	395.8	10.185	ES
SULLIVAN 1 - ENCANA WELL - NO SURVEYS	9,300.0	7,367.0	450.6	405.9	10.086	SF
SULLIVAN 33-26 - ENCANA WELL - NO SURVEYS	9,167.2	7,348.0	742.6	700.1	17.453	CC, ES
SULLIVAN 33-26 - ENCANA WELL - NO SURVEYS	9,400.0	7,348.0	778.2	732.0	16.828	SF
SULLIVAN 34-26 - ENCANA WELL - SURVEYS	7,699.9	7,341.3	955.8	929.4	36.168	CC
SULLIVAN 34-26 - ENCANA WELL - SURVEYS	7,700.0	7,341.3	955.8	929.4	36.168	ES
SULLIVAN 34-26 - ENCANA WELL - SURVEYS	7,800.0	7,353.8	962.2	935.5	36.059	SF
SULLIVAN 44-26 - ENCANA WELL - NO SURVEYS	873.9	838.8	13.9	11.0	4.737	CC, ES
SULLIVAN 44-26 - ENCANA WELL - NO SURVEYS	900.0	864.8	14.0	11.0	4.625	SF
SULLIVAN 4-6-26 - ENCANA WELL - SURVEYS	8,521.8	7,441.4	1,039.0	1,000.4	26.924	CC, ES
SULLIVAN 4-6-26 - ENCANA WELL - SURVEYS	8,900.0	7,446.1	1,105.7	1,061.7	25.155	SF
Sullivan 4A-26H-P268 - HZ - Plan #2	200.0	199.0	50.1	49.5	85.640	CC, ES
Sullivan 4A-26H-P268 - HZ - Plan #2	13,900.0	14,181.1	1,037.4	820.2	4.775	SF
Sullivan 4B-26H-P268 - HZ - Plan #1	300.0	300.0	40.0	39.1	42.761	CC, ES
Sullivan 4B-26H-P268 - HZ - Plan #1	14,000.0	14,367.1	842.5	630.3	3.970	SF
Sullivan 4C-26H-P268 - HZ - Plan #1	400.0	400.0	29.9	28.6	23.302	CC, ES
Sullivan 4C-26H-P268 - HZ - Plan #1	13,900.0	14,004.0	584.1	365.5	2.671	SF
Sullivan 4D-26H-P268 - HZ - Plan #3	500.0	500.0	20.1	18.5	12.330	CC, ES
Sullivan 4D-26H-P268 - HZ - Plan #3	14,626.6	14,883.2	460.1	224.8	1.955	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 4F-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 4F-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 #2	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 4E-26H-P268 - HZ - Plan #2	600.0	600.0	10.1	8.1	5.082	CC, ES
Sullivan 4E-26H-P268 - HZ - Plan #2	14,685.3	14,795.6	320.2	146.2	1.840	SF
Sullivan 4G-26H-P268 - HZ - Plan #1	700.0	700.0	10.1	7.7	4.319	CC, ES
Sullivan 4G-26H-P268 - HZ - Plan #1	14,685.3	14,742.8	236.7	12.0	1.053	Level 2, SF
Sullivan 4H-26H-P268 - HZ - Plan #1	700.0	701.0	19.9	17.5	8.511	CC, ES
Sullivan 4H-26H-P268 - HZ - Plan #1	14,685.3	14,857.9	499.9	281.8	2.293	SF
Sullivan 4I-26H-P268 - HZ - Plan #1	700.0	701.0	29.9	27.6	12.827	CC, ES
Sullivan 4I-26H-P268 - HZ - Plan #1	14,500.0	14,337.4	702.7	467.7	2.990	SF
Sullivan 4J-26H-P268 - HZ - Plan #1	700.0	700.0	40.0	37.7	17.155	CC, ES
Sullivan 4J-26H-P268 - HZ - Plan #1	14,685.3	14,713.3	888.5	646.0	3.663	SF
Sullivan 4K-26H-P268 - HZ - Plan #1	700.0	700.0	50.1	47.7	21.474	CC, ES
Sullivan 4K-26H-P268 - HZ - Plan #1	900.0	899.8	56.1	53.0	18.513	SF
Sullivan 4L-26H-P268 - HZ - Plan #2	700.0	700.0	59.9	57.5	25.673	CC, ES
Sullivan 4L-26H-P268 - HZ - Plan #2	900.0	899.8	65.8	62.8	21.732	SF
SULLIVAN 6-8-26 - ENCANA WELL - SURVEYS	7,273.5	7,257.0	93.5	63.9	3.155	CC, ES, SF
SULLIVAN 8-6-26 - ENCANA WELL - Plan #2						Out of range
SULLIVAN 8-6-26 - ENCANA WELL - SURVEYS						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 2-26 - 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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,900.0	7,405.0	7,354.0	7,354.0	44.5	12.8	90.00	3,152.8	-563.3	1,070.0	1,015.5	54.45	19.652	
10,000.0	7,405.0	7,354.0	7,354.0	46.0	12.8	90.00	3,152.8	-563.3	976.3	920.2	56.11	17.399	
10,100.0	7,405.0	7,354.0	7,354.0	47.6	12.8	90.00	3,152.8	-563.3	883.9	826.2	57.78	15.297	
10,200.0	7,405.0	7,354.0	7,354.0	49.2	12.8	90.00	3,152.8	-563.3	793.5	734.0	59.46	13.344	
10,300.0	7,405.0	7,354.0	7,354.0	50.8	12.8	90.00	3,152.8	-563.3	705.6	644.5	61.15	11.540	
10,400.0	7,405.0	7,354.0	7,354.0	52.4	12.8	90.00	3,152.8	-563.3	621.4	558.6	62.83	9.890	
10,500.0	7,405.0	7,354.0	7,354.0	54.0	12.8	90.00	3,152.8	-563.3	542.6	478.0	64.53	8.409	
10,600.0	7,405.0	7,354.0	7,354.0	55.6	12.8	90.00	3,152.8	-563.3	471.9	405.6	66.22	7.125	
10,700.0	7,405.0	7,354.0	7,354.0	57.3	12.8	90.00	3,152.8	-563.3	413.4	345.5	67.92	6.086	
10,800.0	7,405.0	7,354.0	7,354.0	58.9	12.8	90.00	3,152.8	-563.3	373.0	303.4	69.63	5.358	
10,900.0	7,405.0	7,354.0	7,354.0	60.6	12.8	90.00	3,152.8	-563.3	356.9	285.6	71.33	5.004	
10,908.7	7,405.0	7,354.0	7,354.0	60.7	12.8	90.00	3,152.8	-563.3	356.8	285.4	71.48	4.992 CC, ES, SF	
11,000.0	7,405.0	7,354.0	7,354.0	62.2	12.8	90.00	3,152.8	-563.3	368.3	295.3	73.04	5.043	
11,100.0	7,405.0	7,354.0	7,354.0	63.9	12.8	90.00	3,152.8	-563.3	404.9	330.1	74.75	5.416	
11,200.0	7,405.0	7,354.0	7,354.0	65.5	12.8	90.00	3,152.8	-563.3	460.6	384.2	76.47	6.024	
11,300.0	7,405.0	7,354.0	7,354.0	67.2	12.8	90.00	3,152.8	-563.3	529.6	451.4	78.18	6.773	
11,400.0	7,405.0	7,354.0	7,354.0	68.9	12.8	90.00	3,152.8	-563.3	607.2	527.3	79.90	7.599	
11,500.0	7,405.0	7,354.0	7,354.0	70.6	12.8	90.00	3,152.8	-563.3	690.6	609.0	81.62	8.461	
11,600.0	7,405.0	7,354.0	7,354.0	72.2	12.8	90.00	3,152.8	-563.3	777.9	694.6	83.34	9.334	
11,700.0	7,405.0	7,354.0	7,354.0	73.9	12.8	90.00	3,152.8	-563.3	868.0	782.9	85.07	10.204	
11,800.0	7,405.0	7,354.0	7,354.0	75.6	12.8	90.00	3,152.8	-563.3	960.1	873.3	86.79	11.062	
11,900.0	7,405.0	7,354.0	7,354.0	77.3	12.8	90.00	3,152.8	-563.3	1,053.5	965.0	88.52	11.902	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 23-2Ae - SUNDANCE WELL - SURVEYS												Offset Site Error: 0.0 ft	
Survey Program: 118-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
14,100.0	7,405.0	7,726.1	7,327.2	114.9	40.3	85.82	7,424.6	-796.5	1,092.3	941.7	150.52	7.257	
14,200.0	7,405.0	7,726.2	7,327.3	116.6	40.3	-86.21	7,424.6	-796.5	992.3	840.4	151.88	6.533	
14,300.0	7,405.0	7,726.3	7,327.4	118.2	40.3	-86.73	7,424.6	-796.5	892.3	738.6	153.70	5.805	
14,400.0	7,405.0	7,726.4	7,327.5	119.9	40.3	-87.26	7,424.6	-796.5	792.3	636.8	155.52	5.094	
14,500.0	7,405.0	7,726.5	7,327.6	121.6	40.3	-87.79	7,424.6	-796.5	692.3	535.0	157.32	4.401	
14,600.0	7,405.0	7,726.6	7,327.7	123.3	40.3	-88.32	7,424.6	-796.5	592.3	433.2	159.11	3.723	
14,685.3	7,405.0	7,726.7	7,327.8	124.7	40.3	-88.77	7,424.6	-796.5	507.0	346.4	160.63	3.156 CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 23-43 - 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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,800.0	7,405.0	7,617.8	7,315.0	109.8	36.6	89.08	6,764.3	-129.4	1,090.4	953.6	136.73	7.974		
13,900.0	7,405.0	7,619.5	7,316.7	111.5	36.6	89.18	6,764.3	-129.4	1,024.9	886.4	138.53	7.398		
14,000.0	7,405.0	7,621.3	7,318.5	113.2	36.6	89.29	6,764.4	-129.4	962.6	822.4	140.18	6.867		
14,100.0	7,405.0	7,623.0	7,320.3	114.9	36.6	89.41	6,764.4	-129.4	904.1	762.4	141.68	6.381		
14,200.0	7,405.0	7,624.8	7,322.0	116.6	36.6	89.53	6,764.4	-129.4	850.4	707.2	143.21	5.939		
14,300.0	7,405.0	7,626.6	7,323.8	118.2	36.6	89.67	6,764.5	-129.4	805.2	660.2	144.95	5.555		
14,400.0	7,405.0	7,628.3	7,325.5	119.9	36.6	89.81	6,764.5	-129.4	770.3	623.6	146.70	5.251		
14,500.0	7,405.0	7,630.1	7,327.3	121.6	36.6	89.95	6,764.5	-129.4	747.2	598.7	148.45	5.033		
14,600.0	7,405.0	7,631.9	7,329.1	123.3	36.6	90.08	6,764.6	-129.4	737.1	586.9	150.19	4.908		
14,625.0	7,405.0	7,632.3	7,329.5	123.7	36.6	90.12	6,764.6	-129.4	736.7	586.0	150.63	4.890 CC, ES		
14,685.3	7,405.0	7,633.4	7,330.6	124.7	36.6	90.20	6,764.6	-129.4	739.1	587.4	151.68	4.873 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 23-54 - SUNDANCE WELL - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 118-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,800.0	7,405.0	7,435.6	7,323.5	92.6	21.5	87.58	6,078.7	-816.2	1,044.8	935.7	109.14	9.573		
12,900.0	7,405.0	7,436.0	7,323.9	94.3	21.5	87.75	6,078.7	-816.2	945.7	834.8	110.89	8.528		
13,000.0	7,405.0	7,436.4	7,324.3	96.0	21.5	87.92	6,078.7	-816.2	846.7	734.1	112.64	7.517		
13,100.0	7,405.0	7,436.8	7,324.7	97.7	21.5	88.08	6,078.7	-816.2	748.0	633.7	114.38	6.540		
13,200.0	7,405.0	7,437.1	7,325.0	99.5	21.5	88.25	6,078.8	-816.2	649.8	533.7	116.13	5.595		
13,300.0	7,405.0	7,437.5	7,325.4	101.2	21.5	88.42	6,078.8	-816.2	552.1	434.3	117.87	4.684		
13,400.0	7,405.0	7,437.9	7,325.8	102.9	21.5	88.58	6,078.8	-816.2	455.5	335.9	119.62	3.808		
13,500.0	7,405.0	7,438.3	7,326.2	104.6	21.5	88.75	6,078.8	-816.2	360.8	239.4	121.37	2.973		
13,600.0	7,405.0	7,438.6	7,326.5	106.3	21.5	88.91	6,078.8	-816.2	269.9	146.7	123.11	2.192		
13,700.0	7,405.0	7,439.0	7,326.9	108.1	21.5	89.07	6,078.8	-816.2	188.3	63.5	124.86	1.508		
13,800.0	7,405.0	7,439.4	7,327.3	109.8	21.5	89.23	6,078.8	-816.2	134.3	7.8	126.49	1.062 Level 2		
13,840.4	7,405.0	7,439.5	7,327.4	110.5	21.5	89.30	6,078.8	-816.2	128.4	1.3	127.06	1.011 Level 2, CC, ES, SF		
13,900.0	7,405.0	7,439.8	7,327.7	111.5	21.5	89.41	6,078.8	-816.2	141.0	13.1	127.86	1.103 Level 2		
14,000.0	7,405.0	7,440.2	7,328.1	113.2	21.5	89.62	6,078.8	-816.2	202.0	72.9	129.10	1.565		
14,100.0	7,405.0	7,440.7	7,328.6	114.9	21.5	89.84	6,078.8	-816.2	284.3	154.1	130.20	2.183		
14,200.0	7,405.0	7,441.2	7,329.1	116.6	21.5	90.05	6,078.8	-816.2	374.1	242.6	131.49	2.845		
14,300.0	7,405.0	7,441.8	7,329.7	118.2	21.5	90.26	6,078.8	-816.2	467.8	334.6	133.24	3.511		
14,400.0	7,405.0	7,442.3	7,330.2	119.9	21.5	90.47	6,078.8	-816.2	563.7	428.7	134.98	4.176		
14,500.0	7,405.0	7,442.8	7,330.7	121.6	21.5	90.67	6,078.8	-816.1	660.8	524.1	136.72	4.834		
14,600.0	7,405.0	7,443.3	7,331.2	123.3	21.5	90.88	6,078.8	-816.1	758.7	620.2	138.46	5.480		
14,685.3	7,405.0	7,443.8	7,331.7	124.7	21.5	91.05	6,078.8	-816.1	842.6	702.6	139.94	6.021		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 31-26 - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8118-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,000.0	7,405.0	7,334.0	7,334.0	62.2	12.8	-90.00	4,221.3	-1,319.0	1,058.0	985.0	73.01	14.492		
11,100.0	7,405.0	7,334.0	7,334.0	63.9	12.8	-90.00	4,221.3	-1,319.0	965.8	891.0	74.72	12.925		
11,200.0	7,405.0	7,334.0	7,334.0	65.5	12.8	-90.00	4,221.3	-1,319.0	875.2	798.7	76.43	11.450		
11,300.0	7,405.0	7,334.0	7,334.0	67.2	12.8	-90.00	4,221.3	-1,319.0	786.9	708.7	78.15	10.069		
11,400.0	7,405.0	7,334.0	7,334.0	68.9	12.8	-90.00	4,221.3	-1,319.0	701.7	621.9	79.87	8.786		
11,500.0	7,405.0	7,334.0	7,334.0	70.6	12.8	-90.00	4,221.3	-1,319.0	621.0	539.5	81.59	7.612		
11,600.0	7,405.0	7,334.0	7,334.0	72.2	12.8	-90.00	4,221.3	-1,319.0	546.8	463.5	83.31	6.563		
11,700.0	7,405.0	7,334.0	7,334.0	73.9	12.8	-90.00	4,221.3	-1,319.0	481.9	396.8	85.03	5.667		
11,800.0	7,405.0	7,334.0	7,334.0	75.6	12.8	-90.00	4,221.3	-1,319.0	430.6	343.9	86.76	4.964		
11,900.0	7,405.0	7,334.0	7,334.0	77.3	12.8	-90.00	4,221.3	-1,319.0	398.4	309.9	88.48	4.502		
11,983.7	7,405.0	7,334.0	7,334.0	78.7	12.8	-90.00	4,221.3	-1,319.0	389.5	299.5	89.93	4.331	CC, ES	
12,000.0	7,405.0	7,334.0	7,334.0	79.0	12.8	-90.00	4,221.3	-1,319.0	389.8	299.6	90.21	4.321	SF	
12,100.0	7,405.0	7,334.0	7,334.0	80.7	12.8	-90.00	4,221.3	-1,319.0	406.5	314.5	91.94	4.421		
12,200.0	7,405.0	7,334.0	7,334.0	82.4	12.8	-90.00	4,221.3	-1,319.0	445.5	351.8	93.67	4.756		
12,300.0	7,405.0	7,334.0	7,334.0	84.1	12.8	-90.00	4,221.3	-1,319.0	501.7	406.3	95.40	5.259		
12,400.0	7,405.0	7,334.0	7,334.0	85.8	12.8	-90.00	4,221.3	-1,319.0	570.1	472.9	97.13	5.869		
12,500.0	7,405.0	7,334.0	7,334.0	87.5	12.8	-90.00	4,221.3	-1,319.0	646.7	547.8	98.86	6.541		
12,600.0	7,405.0	7,334.0	7,334.0	89.2	12.8	-90.00	4,221.3	-1,319.0	729.0	628.4	100.60	7.247		
12,700.0	7,405.0	7,334.0	7,334.0	90.9	12.8	-90.00	4,221.3	-1,319.0	815.3	713.0	102.33	7.967		
12,800.0	7,405.0	7,334.0	7,334.0	92.6	12.8	-90.00	4,221.3	-1,319.0	904.4	800.4	104.07	8.691		
12,900.0	7,405.0	7,334.0	7,334.0	94.3	12.8	-90.00	4,221.3	-1,319.0	995.6	889.8	105.80	9.410		
13,000.0	7,405.0	7,334.0	7,334.0	96.0	12.8	-90.00	4,221.3	-1,319.0	1,088.3	980.8	107.54	10.121		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 32-26 - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8140-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,700.0	7,405.0	7,340.0	7,340.0	41.4	12.8	-90.00	2,744.2	-1,583.4	1,048.3	997.2	51.12	20.509		
9,800.0	7,405.0	7,340.0	7,340.0	42.9	12.8	-90.00	2,744.2	-1,583.4	973.2	920.5	52.76	18.445		
9,900.0	7,405.0	7,340.0	7,340.0	44.5	12.8	-90.00	2,744.2	-1,583.4	903.0	848.6	54.42	16.592		
10,000.0	7,405.0	7,340.0	7,340.0	46.0	12.8	-90.00	2,744.2	-1,583.4	838.8	782.7	56.09	14.955		
10,100.0	7,405.0	7,340.0	7,340.0	47.6	12.8	-90.00	2,744.2	-1,583.4	782.2	724.4	57.76	13.542		
10,200.0	7,405.0	7,340.0	7,340.0	49.2	12.8	-90.00	2,744.2	-1,583.4	734.9	675.4	59.44	12.363		
10,300.0	7,405.0	7,340.0	7,340.0	50.8	12.8	-90.00	2,744.2	-1,583.4	698.7	637.6	61.12	11.432		
10,400.0	7,405.0	7,340.0	7,340.0	52.4	12.8	-90.00	2,744.2	-1,583.4	675.6	612.8	62.81	10.756		
10,500.0	7,405.0	7,340.0	7,340.0	54.0	12.8	-90.00	2,744.2	-1,583.4	666.8	602.3	64.50	10.338		
10,509.0	7,405.0	7,340.0	7,340.0	54.2	12.8	-90.00	2,744.2	-1,583.4	666.8	602.1	64.65	10.313 CC, ES		
10,600.0	7,405.0	7,340.0	7,340.0	55.6	12.8	-90.00	2,744.2	-1,583.4	672.9	606.7	66.20	10.165 SF		
10,700.0	7,405.0	7,340.0	7,340.0	57.3	12.8	-90.00	2,744.2	-1,583.4	693.6	625.7	67.90	10.215		
10,800.0	7,405.0	7,340.0	7,340.0	58.9	12.8	-90.00	2,744.2	-1,583.4	727.5	657.9	69.60	10.452		
10,900.0	7,405.0	7,340.0	7,340.0	60.6	12.8	-90.00	2,744.2	-1,583.4	773.0	701.6	71.31	10.840		
11,000.0	7,405.0	7,340.0	7,340.0	62.2	12.8	-90.00	2,744.2	-1,583.4	828.1	755.0	73.02	11.340		
11,100.0	7,405.0	7,340.0	7,340.0	63.9	12.8	-90.00	2,744.2	-1,583.4	891.0	816.3	74.73	11.923		
11,200.0	7,405.0	7,340.0	7,340.0	65.5	12.8	-90.00	2,744.2	-1,583.4	960.3	883.8	76.44	12.561		
11,300.0	7,405.0	7,340.0	7,340.0	67.2	12.8	-90.00	2,744.2	-1,583.4	1,034.5	956.4	78.16	13.236		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 3-23 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,500.0	7,405.0	7,365.6	7,363.3	87.5	6.4	-96.64	5,779.2	-1,108.7	1,053.1	961.1	91.94	11.453		
12,600.0	7,405.0	7,364.0	7,361.7	89.2	6.4	-96.09	5,779.3	-1,108.7	954.5	860.7	93.75	10.181		
12,700.0	7,405.0	7,362.4	7,360.1	90.9	6.4	-95.54	5,779.3	-1,108.7	856.2	760.6	95.56	8.960		
12,800.0	7,405.0	7,360.8	7,358.4	92.6	6.4	-94.98	5,779.3	-1,108.7	758.3	661.0	97.36	7.789		
12,900.0	7,405.0	7,359.1	7,356.8	94.3	6.4	-94.41	5,779.3	-1,108.7	661.1	562.0	99.16	6.667		
13,000.0	7,405.0	7,357.4	7,355.1	96.0	6.4	-93.84	5,779.4	-1,108.8	564.9	463.9	100.96	5.595		
13,100.0	7,405.0	7,355.8	7,353.4	97.7	6.4	-93.26	5,779.4	-1,108.8	470.2	367.5	102.75	4.576		
13,200.0	7,405.0	7,354.1	7,351.7	99.5	6.4	-92.67	5,779.4	-1,108.8	378.3	273.8	104.53	3.619		
13,300.0	7,405.0	7,352.4	7,350.0	101.2	6.4	-92.09	5,779.5	-1,108.8	291.7	185.4	106.31	2.744		
13,400.0	7,405.0	7,350.6	7,348.3	102.9	6.4	-91.49	5,779.5	-1,108.8	217.0	109.0	108.08	2.008		
13,500.0	7,405.0	7,348.9	7,346.6	104.6	6.4	-90.89	5,779.5	-1,108.9	170.6	60.7	109.84	1.553		
13,540.1	7,405.0	7,348.2	7,345.9	105.3	6.4	-90.65	5,779.5	-1,108.9	165.8	55.3	110.54	1.500 Level 3, CC, ES, SF		
13,600.0	7,405.0	7,347.2	7,344.8	106.3	6.4	-90.29	5,779.5	-1,108.9	176.3	64.7	111.59	1.580		
13,700.0	7,405.0	7,345.4	7,343.1	108.1	6.4	-89.68	5,779.6	-1,108.9	230.3	117.0	113.33	2.033		
13,800.0	7,405.0	7,343.6	7,341.3	109.8	6.4	-89.04	5,779.6	-1,108.9	308.4	193.6	114.83	2.686		
13,900.0	7,405.0	7,341.8	7,339.5	111.5	6.4	-88.31	5,779.6	-1,108.9	397.6	281.7	115.89	3.431		
14,000.0	7,405.0	7,340.1	7,337.8	113.2	6.4	-87.40	5,779.7	-1,109.0	492.1	375.3	116.79	4.213		
14,100.0	7,405.0	7,338.4	7,336.1	114.9	6.4	-86.18	5,779.7	-1,109.0	589.2	471.7	117.51	5.014		
14,200.0	7,405.0	7,336.7	7,334.4	116.6	6.4	-84.82	5,779.7	-1,109.0	687.7	569.2	118.46	5.805		
14,300.0	7,405.0	7,335.0	7,332.7	118.2	6.4	-83.92	5,779.8	-1,109.0	786.6	666.6	120.03	6.553		
14,400.0	7,405.0	7,333.3	7,331.0	119.9	6.4	-83.02	5,779.8	-1,109.0	885.8	764.2	121.57	7.286		
14,500.0	7,405.0	7,331.6	7,329.3	121.6	6.4	-82.11	5,779.8	-1,109.1	985.1	862.1	123.08	8.004		
14,600.0	7,405.0	7,329.9	7,327.6	123.3	6.4	-81.19	5,779.9	-1,109.1	1,084.6	960.1	124.55	8.708		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 33-23C - ENCANA - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,400.0	7,405.0	7,320.0	7,320.0	102.9	12.8	-90.00	6,695.1	-1,257.0	1,100.3	985.9	114.46	9.613		
13,500.0	7,405.0	7,320.0	7,320.0	104.6	12.8	-90.00	6,695.1	-1,257.0	1,004.6	888.4	116.20	8.646		
13,600.0	7,405.0	7,320.0	7,320.0	106.3	12.8	-90.00	6,695.1	-1,257.0	909.9	792.0	117.94	7.715		
13,700.0	7,405.0	7,320.0	7,320.0	108.1	12.8	-90.00	6,695.1	-1,257.0	816.4	696.7	119.68	6.822		
13,800.0	7,405.0	7,320.0	7,320.0	109.8	12.8	-90.00	6,695.1	-1,257.0	724.8	603.6	121.19	5.981		
13,900.0	7,405.0	7,320.0	7,320.0	111.5	12.8	-90.00	6,695.1	-1,257.0	637.2	514.9	122.29	5.210		
14,000.0	7,405.0	7,320.0	7,320.0	113.2	12.8	-90.00	6,695.1	-1,257.0	555.8	432.6	123.25	4.510		
14,100.0	7,405.0	7,320.0	7,320.0	114.9	12.8	-90.00	6,695.1	-1,257.0	484.1	360.0	124.09	3.902		
14,200.0	7,405.0	7,320.0	7,320.0	116.6	12.8	-90.00	6,695.1	-1,257.0	426.8	301.6	125.23	3.408		
14,300.0	7,405.0	7,320.0	7,320.0	118.2	12.8	-90.00	6,695.1	-1,257.0	387.8	260.9	126.97	3.055		
14,400.0	7,405.0	7,320.0	7,320.0	119.9	12.8	-90.00	6,695.1	-1,257.0	372.4	243.7	128.71	2.893		
14,408.8	7,405.0	7,320.0	7,320.0	120.1	12.8	-90.00	6,695.1	-1,257.0	372.3	243.4	128.87	2.889 CC, ES, SF		
14,500.0	7,405.0	7,320.0	7,320.0	121.6	12.8	-90.00	6,695.1	-1,257.0	383.3	252.8	130.46	2.938		
14,600.0	7,405.0	7,320.0	7,320.0	123.3	12.8	-90.00	6,695.1	-1,257.0	418.5	286.3	132.20	3.166		
14,685.3	7,405.0	7,320.0	7,320.0	124.7	12.8	-90.00	6,695.1	-1,257.0	463.7	330.0	133.69	3.469		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 34-23C - ENCANA - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8090-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			
12,200.0	7,405.0	7,326.0	7,326.0	82.4	12.8	-90.00	5,419.0	-1,268.8	1,034.7	941.0	93.65	11.048		
12,300.0	7,405.0	7,326.0	7,326.0	84.1	12.8	-90.00	5,419.0	-1,268.8	940.4	845.0	95.39	9.859		
12,400.0	7,405.0	7,326.0	7,326.0	85.8	12.8	-90.00	5,419.0	-1,268.8	847.4	750.3	97.12	8.726		
12,500.0	7,405.0	7,326.0	7,326.0	87.5	12.8	-90.00	5,419.0	-1,268.8	756.3	657.4	98.85	7.651		
12,600.0	7,405.0	7,326.0	7,326.0	89.2	12.8	-90.00	5,419.0	-1,268.8	667.6	567.1	100.58	6.638		
12,700.0	7,405.0	7,326.0	7,326.0	90.9	12.8	-90.00	5,419.0	-1,268.8	582.7	480.4	102.32	5.695		
12,800.0	7,405.0	7,326.0	7,326.0	92.6	12.8	-90.00	5,419.0	-1,268.8	503.3	399.3	104.05	4.837		
12,900.0	7,405.0	7,326.0	7,326.0	94.3	12.8	-90.00	5,419.0	-1,268.8	432.6	326.8	105.79	4.089		
13,000.0	7,405.0	7,326.0	7,326.0	96.0	12.8	-90.00	5,419.0	-1,268.8	375.4	267.9	107.52	3.492		
13,100.0	7,405.0	7,326.0	7,326.0	97.7	12.8	-90.00	5,419.0	-1,268.8	338.7	229.5	109.26	3.100		
13,181.0	7,405.0	7,326.0	7,326.0	99.1	12.8	-90.00	5,419.0	-1,268.8	328.9	218.2	110.67	2.972 CC, ES		
13,200.0	7,405.0	7,326.0	7,326.0	99.5	12.8	-90.00	5,419.0	-1,268.8	329.5	218.5	111.00	2.968 SF		
13,300.0	7,405.0	7,326.0	7,326.0	101.2	12.8	-90.00	5,419.0	-1,268.8	349.8	237.0	112.74	3.103		
13,400.0	7,405.0	7,326.0	7,326.0	102.9	12.8	-90.00	5,419.0	-1,268.8	395.1	280.7	114.48	3.452		
13,500.0	7,405.0	7,326.0	7,326.0	104.6	12.8	-90.00	5,419.0	-1,268.8	458.2	342.0	116.21	3.943		
13,600.0	7,405.0	7,326.0	7,326.0	106.3	12.8	-90.00	5,419.0	-1,268.8	532.7	414.7	117.95	4.516		
13,700.0	7,405.0	7,326.0	7,326.0	108.1	12.8	-90.00	5,419.0	-1,268.8	614.4	494.7	119.69	5.133		
13,800.0	7,405.0	7,326.0	7,326.0	109.8	12.8	-90.00	5,419.0	-1,268.8	701.1	579.9	121.21	5.784		
13,900.0	7,405.0	7,326.0	7,326.0	111.5	12.8	-90.00	5,419.0	-1,268.8	792.0	669.8	122.30	6.476		
14,000.0	7,405.0	7,326.0	7,326.0	113.2	12.8	-90.00	5,419.0	-1,268.8	886.1	762.9	123.26	7.189		
14,100.0	7,405.0	7,326.0	7,326.0	114.9	12.8	-90.00	5,419.0	-1,268.8	982.3	858.2	124.10	7.916		
14,200.0	7,405.0	7,326.0	7,326.0	116.6	12.8	-90.00	5,419.0	-1,268.8	1,079.9	954.7	125.24	8.623		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 42-26 - ENCANA WELL - Existing												Offset Site Error:	0.0 ft
Survey Program: 951-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
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
9,900.0	7,405.0	7,419.5	7,354.3	44.5	18.6	89.83	2,678.9	-6.1	1,053.0	995.8	57.19	18.411	
10,000.0	7,405.0	7,419.9	7,354.8	46.0	18.6	89.86	2,678.9	-6.1	1,006.4	947.5	58.86	17.098	
10,100.0	7,405.0	7,420.4	7,355.3	47.6	18.6	89.89	2,678.9	-6.1	967.9	907.4	60.53	15.990	
10,200.0	7,405.0	7,420.9	7,355.8	49.2	18.6	89.92	2,678.9	-6.1	938.5	876.3	62.21	15.086	
10,300.0	7,405.0	7,421.4	7,356.3	50.8	18.6	89.95	2,678.9	-6.1	919.1	855.2	63.89	14.385	
10,400.0	7,405.0	7,421.9	7,356.7	52.4	18.6	89.98	2,678.9	-6.1	910.4	844.8	65.58	13.881	
10,430.0	7,405.0	7,422.0	7,356.9	52.9	18.6	89.99	2,678.9	-6.1	909.9	843.8	66.09	13.767	CC, ES
10,500.0	7,405.0	7,422.3	7,357.2	54.0	18.6	90.01	2,678.9	-6.1	912.6	845.3	67.28	13.565	
10,600.0	7,405.0	7,422.8	7,357.7	55.6	18.6	90.04	2,678.9	-6.1	925.7	856.7	68.97	13.420	SF
10,700.0	7,405.0	7,423.3	7,358.2	57.3	18.6	90.07	2,678.9	-6.1	949.1	878.4	70.67	13.429	
10,800.0	7,405.0	7,423.8	7,358.6	58.9	18.6	90.10	2,678.9	-6.1	982.3	909.9	72.38	13.571	
10,900.0	7,405.0	7,424.2	7,359.1	60.6	18.6	90.13	2,678.9	-6.1	1,024.1	950.0	74.09	13.824	
11,000.0	7,405.0	7,424.7	7,359.6	62.2	18.6	90.16	2,678.9	-6.1	1,073.7	997.9	75.80	14.166	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 44-23C - ENCANA - NO SURVEYS												Offset Site Error: 0.0 ft			
Survey Program: 8150-Geolink MWD														Offset Well Error: 0.0 ft	
Reference				Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
12,500.0	7,405.0	7,366.0	7,366.0	87.5	12.9	90.00	5,317.4	-44.7	1,059.8	960.8	98.92	10.713			
12,600.0	7,405.0	7,366.0	7,366.0	89.2	12.9	90.00	5,317.4	-44.7	1,009.6	909.0	100.65	10.031			
12,700.0	7,405.0	7,366.0	7,366.0	90.9	12.9	90.00	5,317.4	-44.7	967.3	864.9	102.39	9.447			
12,800.0	7,405.0	7,366.0	7,366.0	92.6	12.9	90.00	5,317.4	-44.7	933.7	829.6	104.12	8.968			
12,900.0	7,405.0	7,366.0	7,366.0	94.3	12.9	90.00	5,317.4	-44.7	910.0	804.2	105.86	8.597			
13,000.0	7,405.0	7,366.0	7,366.0	96.0	12.9	90.00	5,317.4	-44.7	896.9	789.3	107.59	8.336			
13,068.7	7,405.0	7,366.0	7,366.0	97.2	12.9	90.00	5,317.4	-44.7	894.3	785.5	108.79	8.220 CC, ES			
13,100.0	7,405.0	7,366.0	7,366.0	97.7	12.9	90.00	5,317.4	-44.7	894.8	785.5	109.33	8.184			
13,200.0	7,405.0	7,366.0	7,366.0	99.5	12.9	90.00	5,317.4	-44.7	903.9	792.8	111.07	8.138 SF			
13,300.0	7,405.0	7,366.0	7,366.0	101.2	12.9	90.00	5,317.4	-44.7	923.7	810.9	112.81	8.188			
13,400.0	7,405.0	7,366.0	7,366.0	102.9	12.9	90.00	5,317.4	-44.7	953.7	839.1	114.54	8.326			
13,500.0	7,405.0	7,366.0	7,366.0	104.6	12.9	90.00	5,317.4	-44.7	992.9	876.6	116.28	8.538			
13,600.0	7,405.0	7,366.0	7,366.0	106.3	12.9	90.00	5,317.4	-44.7	1,040.2	922.2	118.02	8.814			
13,700.0	7,405.0	7,366.0	7,366.0	108.1	12.9	90.00	5,317.4	-44.7	1,094.7	974.9	119.76	9.140			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - JOHNSON 1 - KPK WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5085-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			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		
4,200.0	4,158.5	4,099.5	4,099.5	11.9	7.2	49.24	22.3	-1,495.1	1,096.2	1,078.9	17.30	63.349		
4,300.0	4,257.2	4,198.2	4,198.2	12.2	7.3	49.87	22.3	-1,495.1	1,085.7	1,067.9	17.80	60.993		
4,400.0	4,355.9	4,296.9	4,296.9	12.5	7.5	50.52	22.3	-1,495.1	1,075.3	1,057.0	18.30	58.760		
4,500.0	4,454.6	4,395.6	4,395.6	12.9	7.7	51.19	22.3	-1,495.1	1,065.1	1,046.3	18.80	56.641		
4,600.0	4,553.3	4,494.3	4,494.3	13.2	7.8	51.86	22.3	-1,495.1	1,055.0	1,035.7	19.31	54.630		
4,700.0	4,652.0	4,593.0	4,593.0	13.5	8.0	52.55	22.3	-1,495.1	1,045.1	1,025.3	19.82	52.720		
4,800.0	4,750.7	4,691.7	4,691.7	13.9	8.2	53.25	22.3	-1,495.1	1,035.3	1,015.0	20.34	50.903		
4,900.0	4,849.4	4,790.4	4,790.4	14.2	8.4	53.96	22.3	-1,495.1	1,025.7	1,004.8	20.86	49.175		
5,000.0	4,948.1	4,889.1	4,889.1	14.5	8.5	54.69	22.3	-1,495.1	1,016.2	994.9	21.38	47.530		
5,100.0	5,046.8	4,987.8	4,987.8	14.9	8.7	55.43	22.3	-1,495.1	1,006.9	985.0	21.91	45.964		
5,200.0	5,145.5	5,085.0	5,085.0	15.2	8.9	56.17	22.3	-1,495.1	997.8	975.4	22.43	44.479		
5,288.6	5,233.0	5,085.0	5,085.0	15.5	8.9	56.17	22.3	-1,495.1	993.9	971.2	22.69	43.798 CC, ES		
5,300.0	5,244.2	5,085.0	5,085.0	15.5	8.9	56.17	22.3	-1,495.1	993.9	971.2	22.73	43.737		
5,400.0	5,342.9	5,085.0	5,085.0	15.9	8.9	56.17	22.3	-1,495.1	1,000.1	977.1	23.02	43.450 SF		
5,500.0	5,441.6	5,085.0	5,085.0	16.2	8.9	56.17	22.3	-1,495.1	1,016.1	992.8	23.31	43.592		
5,600.0	5,540.3	5,085.0	5,085.0	16.5	8.9	56.17	22.3	-1,495.1	1,041.5	1,017.9	23.60	44.129		
5,700.0	5,639.0	5,085.0	5,085.0	16.8	8.9	56.17	22.3	-1,495.1	1,075.7	1,051.8	23.89	45.018		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - MEREDITH 1 - KPK WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5120-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-4.80	93.2	-7.8	100.6					
100.0	100.0	63.0	63.0	0.1	0.1	-4.80	93.2	-7.8	93.6	93.3	0.23	408.919		
200.0	200.0	163.0	163.0	0.3	0.3	-4.80	93.2	-7.8	93.6	93.0	0.58	161.924		
300.0	300.0	263.0	263.0	0.5	0.5	-4.80	93.2	-7.8	93.6	92.6	0.93	100.949		
400.0	400.0	363.0	363.0	0.6	0.6	-4.80	93.2	-7.8	93.6	92.3	1.28	73.334		
500.0	500.0	463.0	463.0	0.8	0.8	-4.80	93.2	-7.8	93.6	92.0	1.63	57.582		
600.0	600.0	563.0	563.0	1.0	1.0	-4.80	93.2	-7.8	93.6	91.6	1.97	47.400		
700.0	700.0	663.0	663.0	1.2	1.2	-4.80	93.2	-7.8	93.6	91.3	2.32	40.279 CC, ES		
800.0	800.0	763.0	763.0	1.3	1.3	118.78	93.2	-7.8	94.4	91.7	2.67	35.317		
900.0	899.8	862.8	862.8	1.5	1.5	121.44	93.2	-7.8	97.0	94.0	3.03	32.047		
1,000.0	999.5	962.5	962.5	1.7	1.7	125.54	93.2	-7.8	101.9	98.5	3.39	30.030		
1,100.0	1,098.7	1,061.7	1,061.7	2.0	1.9	130.60	93.2	-7.8	109.4	105.7	3.77	29.058		
1,200.0	1,197.5	1,160.5	1,160.5	2.2	2.0	136.07	93.2	-7.8	120.1	115.9	4.14	28.987 SF		
1,300.0	1,296.2	1,259.2	1,259.2	2.5	2.2	140.89	93.2	-7.8	132.2	127.7	4.52	29.274		
1,400.0	1,394.9	1,357.9	1,357.9	2.8	2.4	144.88	93.2	-7.8	145.1	140.2	4.88	29.714		
1,500.0	1,493.6	1,456.6	1,456.6	3.1	2.5	148.21	93.2	-7.8	158.5	153.3	5.24	30.238		
1,600.0	1,592.3	1,555.3	1,555.3	3.4	2.7	151.02	93.2	-7.8	172.5	166.9	5.60	30.799		
1,700.0	1,691.0	1,654.0	1,654.0	3.7	2.9	153.40	93.2	-7.8	186.7	180.8	5.95	31.371		
1,800.0	1,789.7	1,752.7	1,752.7	4.0	3.1	155.45	93.2	-7.8	201.3	195.0	6.30	31.937		
1,900.0	1,888.4	1,851.4	1,851.4	4.3	3.2	157.22	93.2	-7.8	216.0	209.4	6.65	32.486		
2,000.0	1,987.1	1,950.1	1,950.1	4.7	3.4	158.76	93.2	-7.8	231.0	224.0	7.00	33.012		
2,100.0	2,085.8	2,048.8	2,048.8	5.0	3.6	160.11	93.2	-7.8	246.0	238.7	7.34	33.514		
2,200.0	2,184.5	2,147.5	2,147.5	5.3	3.7	161.31	93.2	-7.8	261.2	253.5	7.69	33.990		
2,300.0	2,283.2	2,246.2	2,246.2	5.6	3.9	162.38	93.2	-7.8	276.5	268.5	8.03	34.440		
2,400.0	2,381.9	2,344.9	2,344.9	6.0	4.1	163.33	93.2	-7.8	291.9	283.5	8.37	34.865		
2,500.0	2,480.6	2,443.6	2,443.6	6.3	4.3	164.19	93.2	-7.8	307.4	298.6	8.72	35.266		
2,600.0	2,579.3	2,542.3	2,542.3	6.6	4.4	164.97	93.2	-7.8	322.9	313.8	9.06	35.643		
2,700.0	2,678.0	2,641.0	2,641.0	6.9	4.6	165.67	93.2	-7.8	338.4	329.0	9.40	36.000		
2,800.0	2,776.7	2,739.7	2,739.7	7.3	4.8	166.32	93.2	-7.8	354.0	344.3	9.74	36.336		
2,900.0	2,875.4	2,838.4	2,838.4	7.6	5.0	166.90	93.2	-7.8	369.7	359.6	10.09	36.653		
3,000.0	2,974.1	2,937.1	2,937.1	7.9	5.1	167.45	93.2	-7.8	385.4	374.9	10.43	36.953		
3,100.0	3,072.8	3,035.8	3,035.8	8.2	5.3	167.94	93.2	-7.8	401.1	390.3	10.77	37.237		
3,200.0	3,171.5	3,134.5	3,134.5	8.6	5.5	168.41	93.2	-7.8	416.8	405.7	11.11	37.505		
3,300.0	3,270.2	3,233.2	3,233.2	8.9	5.6	168.83	93.2	-7.8	432.6	421.2	11.46	37.759		
3,400.0	3,368.9	3,331.9	3,331.9	9.2	5.8	169.23	93.2	-7.8	448.4	436.6	11.80	38.001		
3,500.0	3,467.6	3,430.6	3,430.6	9.6	6.0	169.60	93.2	-7.8	464.2	452.1	12.14	38.229		
3,600.0	3,566.3	3,529.3	3,529.3	9.9	6.2	169.95	93.2	-7.8	480.0	467.6	12.49	38.447		
3,700.0	3,665.0	3,628.0	3,628.0	10.2	6.3	170.27	93.2	-7.8	495.9	483.1	12.83	38.654		
3,800.0	3,763.7	3,726.7	3,726.7	10.6	6.5	170.58	93.2	-7.8	511.7	498.6	13.17	38.851		
3,900.0	3,862.4	3,825.4	3,825.4	10.9	6.7	170.86	93.2	-7.8	527.6	514.1	13.52	39.039		
4,000.0	3,961.1	3,924.1	3,924.1	11.2	6.8	171.13	93.2	-7.8	543.5	529.6	13.86	39.218		
4,100.0	4,059.8	4,022.8	4,022.8	11.5	7.0	171.38	93.2	-7.8	559.4	545.2	14.20	39.389		
4,200.0	4,158.5	4,121.5	4,121.5	11.9	7.2	171.62	93.2	-7.8	575.3	560.7	14.55	39.552		
4,300.0	4,257.2	4,220.2	4,220.2	12.2	7.4	171.85	93.2	-7.8	591.2	576.3	14.89	39.708		
4,400.0	4,355.9	4,318.9	4,318.9	12.5	7.5	172.07	93.2	-7.8	607.1	591.9	15.23	39.858		
4,500.0	4,454.6	4,417.6	4,417.6	12.9	7.7	172.27	93.2	-7.8	623.1	607.5	15.58	40.001		
4,600.0	4,553.3	4,516.3	4,516.3	13.2	7.9	172.46	93.2	-7.8	639.0	623.1	15.92	40.139		
4,700.0	4,652.0	4,615.0	4,615.0	13.5	8.1	172.65	93.2	-7.8	654.9	638.7	16.26	40.271		
4,800.0	4,750.7	4,713.7	4,713.7	13.9	8.2	172.82	93.2	-7.8	670.9	654.3	16.61	40.397		
4,900.0	4,849.4	4,812.4	4,812.4	14.2	8.4	172.99	93.2	-7.8	686.9	669.9	16.95	40.519		
5,000.0	4,948.1	4,911.1	4,911.1	14.5	8.6	173.15	93.2	-7.8	702.8	685.5	17.30	40.636		
5,100.0	5,046.8	5,009.8	5,009.8	14.9	8.7	173.30	93.2	-7.8	718.8	701.1	17.64	40.749		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - MEREDITH 1 - KPK WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 5120-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,145.5	5,108.5	5,108.5	15.2	8.9	173.45	93.2	-7.8	734.8	716.8	17.98	40.857	
5,300.0	5,244.2	5,120.0	5,120.0	15.5	8.9	173.47	93.2	-7.8	755.8	737.6	18.18	41.570	
5,400.0	5,342.9	5,120.0	5,120.0	15.9	8.9	173.47	93.2	-7.8	788.9	770.6	18.36	42.972	
5,500.0	5,441.6	5,120.0	5,120.0	16.2	8.9	173.47	93.2	-7.8	832.8	814.3	18.54	44.928	
5,600.0	5,540.3	5,120.0	5,120.0	16.5	8.9	173.47	93.2	-7.8	885.9	867.2	18.71	47.336	
5,700.0	5,639.0	5,120.0	5,120.0	16.8	8.9	173.47	93.2	-7.8	946.6	927.7	18.89	50.102	
5,800.0	5,737.7	5,120.0	5,120.0	17.2	8.9	173.47	93.2	-7.8	1,013.5	994.4	19.07	53.144	
5,900.0	5,836.4	5,120.0	5,120.0	17.5	8.9	173.47	93.2	-7.8	1,085.5	1,066.3	19.25	56.395	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 1 - 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		
8,200.0	7,405.0	7,367.0	7,367.0	22.8	12.9	90.00	1,442.9	-466.3	1,090.3	1,061.0	29.29	37.226		
8,300.0	7,405.0	7,367.0	7,367.0	23.6	12.9	90.00	1,442.9	-466.3	999.5	969.2	30.37	32.912		
8,400.0	7,405.0	7,367.0	7,367.0	24.4	12.9	90.00	1,442.9	-466.3	910.8	879.2	31.56	28.863		
8,500.0	7,405.0	7,367.0	7,367.0	25.4	12.9	90.00	1,442.9	-466.3	824.6	791.7	32.82	25.121		
8,600.0	7,405.0	7,367.0	7,367.0	26.5	12.9	90.00	1,442.9	-466.3	741.8	707.7	34.16	21.715		
8,700.0	7,405.0	7,367.0	7,367.0	27.6	12.9	90.00	1,442.9	-466.3	663.8	628.3	35.56	18.670		
8,800.0	7,405.0	7,367.0	7,367.0	28.8	12.9	90.00	1,442.9	-466.3	592.5	555.5	37.00	16.015		
8,900.0	7,405.0	7,367.0	7,367.0	30.1	12.9	90.00	1,442.9	-466.3	530.5	492.1	38.48	13.788		
9,000.0	7,405.0	7,367.0	7,367.0	31.4	12.9	90.00	1,442.9	-466.3	481.5	441.5	39.99	12.041		
9,100.0	7,405.0	7,367.0	7,367.0	32.7	12.9	90.00	1,442.9	-466.3	449.7	408.2	41.53	10.829		
9,198.0	7,405.0	7,367.0	7,367.0	34.0	12.9	90.00	1,442.9	-466.3	438.9	395.9	43.06	10.192 CC		
9,200.0	7,405.0	7,367.0	7,367.0	34.1	12.9	90.00	1,442.9	-466.3	438.9	395.8	43.10	10.185 ES		
9,300.0	7,405.0	7,367.0	7,367.0	35.5	12.9	90.00	1,442.9	-466.3	450.6	405.9	44.68	10.086 SF		
9,400.0	7,405.0	7,367.0	7,367.0	36.9	12.9	90.00	1,442.9	-466.3	483.2	436.9	46.28	10.440		
9,500.0	7,405.0	7,367.0	7,367.0	38.4	12.9	90.00	1,442.9	-466.3	532.8	484.9	47.90	11.124		
9,600.0	7,405.0	7,367.0	7,367.0	39.9	12.9	90.00	1,442.9	-466.3	595.2	545.7	49.52	12.018		
9,700.0	7,405.0	7,367.0	7,367.0	41.4	12.9	90.00	1,442.9	-466.3	666.8	615.7	51.16	13.033		
9,800.0	7,405.0	7,367.0	7,367.0	42.9	12.9	90.00	1,442.9	-466.3	745.0	692.2	52.81	14.107		
9,900.0	7,405.0	7,367.0	7,367.0	44.5	12.9	90.00	1,442.9	-466.3	827.9	773.4	54.47	15.200		
10,000.0	7,405.0	7,367.0	7,367.0	46.0	12.9	90.00	1,442.9	-466.3	914.2	858.1	56.13	16.287		
10,100.0	7,405.0	7,367.0	7,367.0	47.6	12.9	90.00	1,442.9	-466.3	1,003.1	945.3	57.81	17.353		
10,200.0	7,405.0	7,367.0	7,367.0	49.2	12.9	90.00	1,442.9	-466.3	1,093.9	1,034.4	59.48	18.390		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 33-26 - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8170-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,400.0	7,405.0	7,348.0	7,348.0	24.4	12.8	-90.00	1,401.8	-1,647.5	1,067.7	1,036.2	31.52	33.873		
8,500.0	7,405.0	7,348.0	7,348.0	25.4	12.8	-90.00	1,401.8	-1,647.5	998.3	965.5	32.79	30.445		
8,600.0	7,405.0	7,348.0	7,348.0	26.5	12.8	-90.00	1,401.8	-1,647.5	934.4	900.3	34.13	27.380		
8,700.0	7,405.0	7,348.0	7,348.0	27.6	12.8	-90.00	1,401.8	-1,647.5	877.4	841.8	35.52	24.698		
8,800.0	7,405.0	7,348.0	7,348.0	28.8	12.8	-90.00	1,401.8	-1,647.5	828.4	791.5	36.96	22.412		
8,900.0	7,405.0	7,348.0	7,348.0	30.1	12.8	-90.00	1,401.8	-1,647.5	789.2	750.8	38.44	20.528		
9,000.0	7,405.0	7,348.0	7,348.0	31.4	12.8	-90.00	1,401.8	-1,647.5	761.2	721.2	39.96	19.050		
9,100.0	7,405.0	7,348.0	7,348.0	32.7	12.8	-90.00	1,401.8	-1,647.5	745.6	704.1	41.50	17.968		
9,167.2	7,405.0	7,348.0	7,348.0	33.6	12.8	-90.00	1,401.8	-1,647.5	742.6	700.1	42.55	17.453 CC, ES		
9,200.0	7,405.0	7,348.0	7,348.0	34.1	12.8	-90.00	1,401.8	-1,647.5	743.3	700.3	43.06	17.262		
9,300.0	7,405.0	7,348.0	7,348.0	35.5	12.8	-90.00	1,401.8	-1,647.5	754.4	709.7	44.65	16.897		
9,400.0	7,405.0	7,348.0	7,348.0	36.9	12.8	-90.00	1,401.8	-1,647.5	778.2	732.0	46.25	16.828 SF		
9,500.0	7,405.0	7,348.0	7,348.0	38.4	12.8	-90.00	1,401.8	-1,647.5	813.8	765.9	47.86	17.002		
9,600.0	7,405.0	7,348.0	7,348.0	39.9	12.8	-90.00	1,401.8	-1,647.5	859.5	810.0	49.49	17.367		
9,700.0	7,405.0	7,348.0	7,348.0	41.4	12.8	-90.00	1,401.8	-1,647.5	914.0	862.8	51.13	17.875		
9,800.0	7,405.0	7,348.0	7,348.0	42.9	12.8	-90.00	1,401.8	-1,647.5	975.6	922.9	52.78	18.485		
9,900.0	7,405.0	7,348.0	7,348.0	44.5	12.8	-90.00	1,401.8	-1,647.5	1,043.3	988.8	54.44	19.165		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 34-26 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			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		
7,000.0	6,922.2	6,861.6	6,854.3	21.0	12.3	-25.90	-100.2	-1,843.3	1,101.2	1,071.0	30.20	36.463		
7,100.0	7,018.3	6,958.7	6,951.3	21.1	12.5	-48.00	-98.8	-1,843.7	1,081.0	1,051.4	29.54	36.590		
7,200.0	7,109.0	7,047.9	7,040.6	21.0	12.6	-59.41	-97.4	-1,844.0	1,055.9	1,027.3	28.58	36.942		
7,300.0	7,191.4	7,127.7	7,120.3	20.9	12.7	-68.06	-96.1	-1,844.6	1,028.5	1,000.9	27.60	37.267		
7,400.0	7,263.1	7,200.2	7,192.8	20.8	12.9	-75.66	-95.0	-1,845.2	1,001.5	974.6	26.85	37.304		
7,500.0	7,321.8	7,264.9	7,257.5	20.7	13.0	-82.32	-94.1	-1,845.7	978.1	951.6	26.44	36.989		
7,600.0	7,365.8	7,312.8	7,305.4	20.6	13.0	-87.25	-93.2	-1,845.7	961.8	935.4	26.34	36.521		
7,699.9	7,393.8	7,341.3	7,333.9	20.7	13.1	-89.89	-92.6	-1,845.8	955.8	929.4	26.43	36.168 CC		
7,700.0	7,393.8	7,341.3	7,333.9	20.7	13.1	-89.89	-92.6	-1,845.8	955.8	929.4	26.43	36.168 ES		
7,800.0	7,404.8	7,353.8	7,346.3	20.8	13.1	-90.15	-92.3	-1,845.8	962.2	935.5	26.68	36.059 SF		
7,900.0	7,405.0	7,355.8	7,348.4	21.1	13.1	-90.08	-92.3	-1,845.8	980.2	953.1	27.12	36.138		
8,000.0	7,405.0	7,357.7	7,350.3	21.5	13.1	-90.20	-92.3	-1,845.9	1,007.9	980.1	27.76	36.304		
8,100.0	7,405.0	7,359.6	7,352.1	22.1	13.1	-90.31	-92.2	-1,845.9	1,044.4	1,015.8	28.57	36.551		
8,200.0	7,405.0	7,361.4	7,354.0	22.8	13.1	-90.42	-92.2	-1,845.9	1,088.9	1,059.4	29.53	36.870		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 44-26 - ENCANA WELL - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 8192-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	168.08	-14.6	3.1	38.0						
100.0	100.0	65.0	65.0	0.1	0.1	168.08	-14.6	3.1	14.9	14.7	0.23	64.137			
200.0	200.0	165.0	165.0	0.3	0.3	168.08	-14.6	3.1	14.9	14.3	0.58	25.629			
300.0	300.0	265.0	265.0	0.5	0.5	168.08	-14.6	3.1	14.9	14.0	0.93	16.014			
400.0	400.0	365.0	365.0	0.6	0.6	168.08	-14.6	3.1	14.9	13.6	1.28	11.646			
500.0	500.0	465.0	465.0	0.8	0.8	168.08	-14.6	3.1	14.9	13.3	1.63	9.149			
600.0	600.0	565.0	565.0	1.0	1.0	168.08	-14.6	3.1	14.9	12.9	1.98	7.535			
700.0	700.0	665.0	665.0	1.2	1.2	168.08	-14.6	3.1	14.9	12.6	2.33	6.404			
800.0	800.0	765.0	765.0	1.3	1.3	-75.78	-14.6	3.1	14.4	11.7	2.68	5.370			
873.9	873.8	838.8	838.8	1.5	1.5	-90.00	-14.6	3.1	13.9	11.0	2.94	4.737 CC, ES			
900.0	899.8	864.8	864.8	1.5	1.5	-96.94	-14.6	3.1	14.0	11.0	3.04	4.625 SF			
1,000.0	999.5	964.5	964.5	1.7	1.7	-126.63	-14.6	3.1	17.4	14.0	3.39	5.125			
1,100.0	1,098.7	1,063.7	1,063.7	2.0	1.9	-148.09	-14.6	3.1	26.6	22.8	3.73	7.111			
1,200.0	1,197.5	1,162.5	1,162.5	2.2	2.0	-159.62	-14.6	3.1	40.5	36.4	4.07	9.954			
1,300.0	1,296.2	1,261.2	1,261.2	2.5	2.2	-165.37	-14.6	3.1	55.8	51.4	4.41	12.671			
1,400.0	1,394.9	1,359.9	1,359.9	2.8	2.4	-168.62	-14.6	3.1	71.5	66.8	4.75	15.056			
1,500.0	1,493.6	1,458.6	1,458.6	3.1	2.5	-170.70	-14.6	3.1	87.4	82.3	5.09	17.146			
1,600.0	1,592.3	1,557.3	1,557.3	3.4	2.7	-172.14	-14.6	3.1	103.3	97.8	5.44	18.983			
1,700.0	1,691.0	1,656.0	1,656.0	3.7	2.9	-173.20	-14.6	3.1	119.2	113.4	5.78	20.609			
1,800.0	1,789.7	1,754.7	1,754.7	4.0	3.1	-174.01	-14.6	3.1	135.2	129.1	6.13	22.055			
1,900.0	1,888.4	1,853.4	1,853.4	4.3	3.2	-174.64	-14.6	3.1	151.2	144.7	6.47	23.351			
2,000.0	1,987.1	1,952.1	1,952.1	4.7	3.4	-175.16	-14.6	3.1	167.2	160.4	6.82	24.516			
2,100.0	2,085.8	2,050.8	2,050.8	5.0	3.6	-175.58	-14.6	3.1	183.2	176.1	7.17	25.571			
2,200.0	2,184.5	2,149.5	2,149.5	5.3	3.8	-175.94	-14.6	3.1	199.3	191.7	7.51	26.530			
2,300.0	2,283.2	2,248.2	2,248.2	5.6	3.9	-176.24	-14.6	3.1	215.3	207.4	7.86	27.405			
2,400.0	2,381.9	2,346.9	2,346.9	6.0	4.1	-176.50	-14.6	3.1	231.3	223.1	8.20	28.206			
2,500.0	2,480.6	2,445.6	2,445.6	6.3	4.3	-176.73	-14.6	3.1	247.4	238.8	8.55	28.943			
2,600.0	2,579.3	2,544.3	2,544.3	6.6	4.4	-176.93	-14.6	3.1	263.4	254.6	8.89	29.624			
2,700.0	2,678.0	2,643.0	2,643.0	6.9	4.6	-177.10	-14.6	3.1	279.5	270.3	9.24	30.253			
2,800.0	2,776.7	2,741.7	2,741.7	7.3	4.8	-177.26	-14.6	3.1	295.6	286.0	9.58	30.837			
2,900.0	2,875.4	2,840.4	2,840.4	7.6	5.0	-177.40	-14.6	3.1	311.6	301.7	9.93	31.381			
3,000.0	2,974.1	2,939.1	2,939.1	7.9	5.1	-177.53	-14.6	3.1	327.7	317.4	10.28	31.888			
3,100.0	3,072.8	3,037.8	3,037.8	8.2	5.3	-177.65	-14.6	3.1	343.7	333.1	10.62	32.363			
3,200.0	3,171.5	3,136.5	3,136.5	8.6	5.5	-177.75	-14.6	3.1	359.8	348.8	10.97	32.807			
3,300.0	3,270.2	3,235.2	3,235.2	8.9	5.6	-177.85	-14.6	3.1	375.9	364.6	11.31	33.225			
3,400.0	3,368.9	3,333.9	3,333.9	9.2	5.8	-177.94	-14.6	3.1	391.9	380.3	11.66	33.618			
3,500.0	3,467.6	3,432.6	3,432.6	9.6	6.0	-178.02	-14.6	3.1	408.0	396.0	12.00	33.988			
3,600.0	3,566.3	3,531.3	3,531.3	9.9	6.2	-178.09	-14.6	3.1	424.1	411.7	12.35	34.337			
3,700.0	3,665.0	3,630.0	3,630.0	10.2	6.3	-178.16	-14.6	3.1	440.1	427.4	12.70	34.668			
3,800.0	3,763.7	3,728.7	3,728.7	10.6	6.5	-178.23	-14.6	3.1	456.2	443.2	13.04	34.981			
3,900.0	3,862.4	3,827.4	3,827.4	10.9	6.7	-178.29	-14.6	3.1	472.3	458.9	13.39	35.278			
4,000.0	3,961.1	3,926.1	3,926.1	11.2	6.9	-178.34	-14.6	3.1	488.4	474.6	13.73	35.559			
4,100.0	4,059.8	4,024.8	4,024.8	11.5	7.0	-178.40	-14.6	3.1	504.4	490.3	14.08	35.828			
4,200.0	4,158.5	4,123.5	4,123.5	11.9	7.2	-178.45	-14.6	3.1	520.5	506.1	14.42	36.083			
4,300.0	4,257.2	4,222.2	4,222.2	12.2	7.4	-178.49	-14.6	3.1	536.6	521.8	14.77	36.326			
4,400.0	4,355.9	4,320.9	4,320.9	12.5	7.5	-178.54	-14.6	3.1	552.6	537.5	15.12	36.558			
4,500.0	4,454.6	4,419.6	4,419.6	12.9	7.7	-178.58	-14.6	3.1	568.7	553.2	15.46	36.780			
4,600.0	4,553.3	4,518.3	4,518.3	13.2	7.9	-178.62	-14.6	3.1	584.8	569.0	15.81	36.992			
4,700.0	4,652.0	4,617.0	4,617.0	13.5	8.1	-178.65	-14.6	3.1	600.9	584.7	16.15	37.195			
4,800.0	4,750.7	4,715.7	4,715.7	13.9	8.2	-178.69	-14.6	3.1	616.9	600.4	16.50	37.390			
4,900.0	4,849.4	4,814.4	4,814.4	14.2	8.4	-178.72	-14.6	3.1	633.0	616.2	16.85	37.577			
5,000.0	4,948.1	4,913.1	4,913.1	14.5	8.6	-178.75	-14.6	3.1	649.1	631.9	17.19	37.756			

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 44-26 - 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	5,046.8	5,011.8	5,011.8	14.9	8.7	-178.78	-14.6	3.1	665.1	647.6	17.54	37.928		
5,200.0	5,145.5	5,110.5	5,110.5	15.2	8.9	-178.81	-14.6	3.1	681.2	663.3	17.88	38.093		
5,300.0	5,244.2	5,209.2	5,209.2	15.5	9.1	-178.84	-14.6	3.1	697.3	679.1	18.23	38.252		
5,400.0	5,342.9	5,307.9	5,307.9	15.9	9.3	-178.87	-14.6	3.1	713.4	694.8	18.57	38.405		
5,500.0	5,441.6	5,406.6	5,406.6	16.2	9.4	-178.89	-14.6	3.1	729.4	710.5	18.92	38.553		
5,600.0	5,540.3	5,505.3	5,505.3	16.5	9.6	-178.91	-14.6	3.1	745.5	726.2	19.27	38.695		
5,700.0	5,639.0	5,604.0	5,604.0	16.8	9.8	-178.94	-14.6	3.1	761.6	742.0	19.61	38.832		
5,800.0	5,737.7	5,702.7	5,702.7	17.2	10.0	-178.96	-14.6	3.1	777.7	757.7	19.96	38.965		
5,900.0	5,836.4	5,801.4	5,801.4	17.5	10.1	-178.98	-14.6	3.1	793.7	773.4	20.30	39.093		
6,000.0	5,935.1	5,900.1	5,900.1	17.8	10.3	-179.00	-14.6	3.1	809.8	789.2	20.65	39.217		
6,100.0	6,033.8	5,998.8	5,998.8	18.2	10.5	-179.02	-14.6	3.1	825.9	804.9	21.00	39.336		
6,200.0	6,132.5	6,097.5	6,097.5	18.5	10.6	-179.04	-14.6	3.1	842.0	820.6	21.34	39.452		
6,300.0	6,231.2	6,196.2	6,196.2	18.8	10.8	-179.06	-14.6	3.1	858.0	836.3	21.69	39.564		
6,400.0	6,329.9	6,294.9	6,294.9	19.2	11.0	-179.07	-14.6	3.1	874.1	852.1	22.03	39.673		
6,500.0	6,428.6	6,393.6	6,393.6	19.5	11.2	-179.09	-14.6	3.1	890.2	867.8	22.38	39.778		
6,600.0	6,527.3	6,492.3	6,492.3	19.8	11.3	-179.11	-14.6	3.1	906.3	883.5	22.72	39.880		
6,700.0	6,626.0	6,591.0	6,591.0	20.2	11.5	-179.12	-14.6	3.1	922.3	899.3	23.07	39.979		
6,800.0	6,724.7	6,689.7	6,689.7	20.5	11.7	-179.14	-14.6	3.1	938.4	915.0	23.42	40.075		
6,900.0	6,823.4	6,788.4	6,788.4	20.8	11.8	158.77	-14.6	3.1	953.9	930.1	23.80	40.085		
7,000.0	6,922.2	6,887.2	6,887.2	21.0	12.0	101.37	-14.6	3.1	962.4	938.2	24.16	39.827		
7,100.0	7,018.3	6,983.3	6,983.3	21.1	12.2	83.59	-14.6	3.1	962.3	937.9	24.42	39.398		
7,200.0	7,109.0	7,074.0	7,074.0	21.0	12.3	79.18	-14.6	3.1	954.8	930.1	24.67	38.703		
7,300.0	7,191.4	7,156.4	7,156.4	20.9	12.5	79.52	-14.6	3.1	941.9	916.9	24.99	37.697		
7,400.0	7,263.1	7,228.1	7,228.1	20.8	12.6	81.99	-14.6	3.1	926.4	901.0	25.37	36.516		
7,500.0	7,321.8	7,286.8	7,286.8	20.7	12.7	85.19	-14.6	3.1	911.3	885.6	25.72	35.429		
7,600.0	7,365.8	7,330.8	7,330.8	20.6	12.8	88.06	-14.6	3.1	899.8	873.8	25.98	34.635		
7,700.0	7,393.8	7,358.8	7,358.8	20.7	12.8	89.86	-14.6	3.1	894.7	868.5	26.19	34.160		
7,714.5	7,396.5	7,361.5	7,361.5	20.7	12.8	90.00	-14.6	3.1	894.6	868.4	26.24	34.089		
7,800.0	7,404.8	7,369.8	7,369.8	20.8	12.9	90.10	-14.6	3.1	897.8	871.3	26.45	33.940		
7,900.0	7,405.0	7,370.0	7,370.0	21.1	12.9	90.00	-14.6	3.1	910.4	883.5	26.89	33.860		
8,000.0	7,405.0	7,370.0	7,370.0	21.5	12.9	90.00	-14.6	3.1	933.5	906.0	27.52	33.918		
8,100.0	7,405.0	7,370.0	7,370.0	22.1	12.9	90.00	-14.6	3.1	966.5	938.2	28.33	34.111		
8,200.0	7,405.0	7,370.0	7,370.0	22.8	12.9	90.00	-14.6	3.1	1,008.4	979.1	29.29	34.424		
8,300.0	7,405.0	7,370.0	7,370.0	23.6	12.9	90.00	-14.6	3.1	1,058.1	1,027.7	30.38	34.833		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 4-6-26 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 74-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			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		
8,200.0	7,405.0	7,437.2	7,364.8	22.8	18.4	-90.09	753.7	-1,938.3	1,087.7	1,052.9	34.76	31.291		
8,300.0	7,405.0	7,438.5	7,366.1	23.6	18.4	-90.17	753.8	-1,938.3	1,062.4	1,026.6	35.84	29.640		
8,400.0	7,405.0	7,439.8	7,367.4	24.4	18.4	-90.24	753.8	-1,938.3	1,046.1	1,009.1	37.03	28.251		
8,500.0	7,405.0	7,441.1	7,368.7	25.4	18.4	-90.31	753.8	-1,938.3	1,039.2	1,000.9	38.30	27.135		
8,521.8	7,405.0	7,441.4	7,368.9	25.6	18.4	-90.32	753.8	-1,938.2	1,039.0	1,000.4	38.59	26.924 CC, ES		
8,600.0	7,405.0	7,442.4	7,369.9	26.5	18.4	-90.38	753.8	-1,938.2	1,041.9	1,002.3	39.64	26.287		
8,700.0	7,405.0	7,443.0	7,370.6	27.6	18.4	-90.41	753.8	-1,938.2	1,054.2	1,013.1	41.03	25.692		
8,800.0	7,405.0	7,443.0	7,370.6	28.8	18.4	-90.41	753.8	-1,938.2	1,075.6	1,033.1	42.47	25.324		
8,900.0	7,405.0	7,446.1	7,373.7	30.1	18.4	-90.58	753.9	-1,938.2	1,105.7	1,061.7	43.96	25.155 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4A-26H-P268 - HZ - Plan #2														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-89.58	0.4	-50.1	50.1						
100.0	100.0	99.0	99.0	0.1	0.1	-89.58	0.4	-50.1	50.1	49.8	0.24	212.012			
200.0	200.0	199.0	199.0	0.3	0.3	-89.58	0.4	-50.1	50.1	49.5	0.58	85.640 CC, ES			
300.0	300.0	297.3	297.3	0.5	0.5	-90.11	-0.1	-51.7	51.7	50.8	0.93	55.426			
400.0	400.0	395.4	395.3	0.6	0.7	-91.51	-1.5	-56.5	56.6	55.3	1.29	43.953			
500.0	500.0	493.0	492.5	0.8	0.9	-93.38	-3.8	-64.5	64.9	63.2	1.66	39.109			
600.0	600.0	590.0	588.8	1.0	1.1	-95.30	-7.0	-75.5	76.5	74.5	2.05	37.252			
700.0	700.0	686.1	683.7	1.2	1.4	-97.05	-11.1	-89.6	91.5	89.1	2.48	36.891			
800.0	800.0	781.3	777.4	1.3	1.8	24.36	-16.0	-106.5	108.3	105.7	2.66	40.727			
900.0	899.8	876.1	869.8	1.5	2.2	23.85	-21.7	-126.3	125.2	122.2	3.00	41.668			
1,000.0	999.5	970.3	961.0	1.7	2.6	23.82	-28.3	-148.9	142.2	138.8	3.35	42.384			
1,100.0	1,098.7	1,065.9	1,052.9	2.0	3.1	24.13	-35.7	-174.6	159.0	155.3	3.72	42.787			
1,200.0	1,197.5	1,164.8	1,147.7	2.2	3.6	24.84	-43.5	-201.6	173.5	169.4	4.10	42.322			
1,300.0	1,296.2	1,263.8	1,242.6	2.5	4.2	25.61	-51.4	-228.7	187.4	182.9	4.50	41.671			
1,400.0	1,394.9	1,362.8	1,337.5	2.8	4.7	26.26	-59.2	-255.8	201.3	196.4	4.90	41.060			
1,500.0	1,493.6	1,461.8	1,432.4	3.1	5.2	26.83	-67.1	-282.9	215.2	209.9	5.32	40.488			
1,600.0	1,592.3	1,560.8	1,527.3	3.4	5.8	27.34	-74.9	-310.0	229.2	223.5	5.74	39.957			
1,700.0	1,691.0	1,659.8	1,622.2	3.7	6.3	27.78	-82.8	-337.1	243.2	237.0	6.16	39.464			
1,800.0	1,789.7	1,758.8	1,717.1	4.0	6.8	28.18	-90.6	-364.2	257.2	250.6	6.59	39.007			
1,900.0	1,888.4	1,857.8	1,812.0	4.3	7.4	28.53	-98.5	-391.3	271.2	264.2	7.03	38.584			
2,000.0	1,987.1	1,956.8	1,906.9	4.7	7.9	28.85	-106.3	-418.4	285.2	277.8	7.47	38.192			
2,100.0	2,085.8	2,055.8	2,001.8	5.0	8.4	29.14	-114.2	-445.5	299.3	291.3	7.91	37.829			
2,200.0	2,184.5	2,154.8	2,096.7	5.3	9.0	29.41	-122.0	-472.6	313.3	304.9	8.36	37.492			
2,300.0	2,283.2	2,253.8	2,191.5	5.6	9.5	29.65	-129.9	-499.6	327.3	318.5	8.80	37.179			
2,400.0	2,381.9	2,352.8	2,286.4	6.0	10.0	29.87	-137.7	-526.7	341.4	332.1	9.25	36.888			
2,500.0	2,480.6	2,451.8	2,381.3	6.3	10.6	30.08	-145.5	-553.8	355.4	345.7	9.71	36.617			
2,600.0	2,579.3	2,550.8	2,476.2	6.6	11.1	30.26	-153.4	-580.9	369.5	359.3	10.16	36.363			
2,700.0	2,678.0	2,649.8	2,571.1	6.9	11.6	30.44	-161.2	-608.0	383.5	372.9	10.62	36.126			
2,800.0	2,776.7	2,748.8	2,666.0	7.3	12.2	30.60	-169.1	-635.1	397.6	386.5	11.07	35.904			
2,900.0	2,875.4	2,847.8	2,760.9	7.6	12.7	30.75	-176.9	-662.2	411.7	400.1	11.53	35.696			
3,000.0	2,974.1	2,946.8	2,855.8	7.9	13.3	30.90	-184.8	-689.3	425.7	413.7	11.99	35.501			
3,100.0	3,072.8	3,045.8	2,950.7	8.2	13.8	31.03	-192.6	-716.4	439.8	427.3	12.45	35.317			
3,200.0	3,171.5	3,144.8	3,045.6	8.6	14.3	31.15	-200.5	-743.5	453.9	441.0	12.91	35.143			
3,300.0	3,270.2	3,243.8	3,140.5	8.9	14.9	31.27	-208.3	-770.6	467.9	454.6	13.38	34.980			
3,400.0	3,368.9	3,342.8	3,235.4	9.2	15.4	31.38	-216.2	-797.7	482.0	468.2	13.84	34.825			
3,500.0	3,467.6	3,441.8	3,330.3	9.6	15.9	31.48	-224.0	-824.7	496.1	481.8	14.31	34.679			
3,600.0	3,566.3	3,540.8	3,425.2	9.9	16.5	31.58	-231.9	-851.8	510.2	495.4	14.77	34.540			
3,700.0	3,665.0	3,639.8	3,520.1	10.2	17.0	31.67	-239.7	-878.9	524.2	509.0	15.24	34.409			
3,800.0	3,763.7	3,738.8	3,615.0	10.6	17.6	31.76	-247.6	-906.0	538.3	522.6	15.70	34.284			
3,900.0	3,862.4	3,837.8	3,709.9	10.9	18.1	31.84	-255.4	-933.1	552.4	536.2	16.17	34.165			
4,000.0	3,961.1	3,936.8	3,804.8	11.2	18.6	31.92	-263.3	-960.2	566.5	549.9	16.64	34.052			
4,100.0	4,059.8	4,035.8	3,899.7	11.5	19.2	32.00	-271.1	-987.3	580.6	563.5	17.10	33.944			
4,200.0	4,158.5	4,134.8	3,994.6	11.9	19.7	32.07	-278.9	-1,014.4	594.7	577.1	17.57	33.841			
4,300.0	4,257.2	4,233.8	4,089.5	12.2	20.3	32.14	-286.8	-1,041.5	608.7	590.7	18.04	33.743			
4,400.0	4,355.9	4,332.8	4,184.4	12.5	20.8	32.20	-294.6	-1,068.6	622.8	604.3	18.51	33.649			
4,500.0	4,454.6	4,431.8	4,279.3	12.9	21.3	32.27	-302.5	-1,095.7	636.9	617.9	18.98	33.559			
4,600.0	4,553.3	4,530.8	4,374.2	13.2	21.9	32.33	-310.3	-1,122.7	651.0	631.6	19.45	33.473			
4,700.0	4,652.0	4,629.8	4,469.1	13.5	22.4	32.38	-318.2	-1,149.8	665.1	645.2	19.92	33.390			
4,800.0	4,750.7	4,728.8	4,564.0	13.9	22.9	32.44	-326.0	-1,176.9	679.2	658.8	20.39	33.311			
4,900.0	4,849.4	4,827.8	4,658.9	14.2	23.5	32.49	-333.9	-1,204.0	693.3	672.4	20.86	33.235			
5,000.0	4,948.1	4,926.8	4,753.8	14.5	24.0	32.54	-341.7	-1,231.1	707.4	686.0	21.33	33.162			
5,100.0	5,046.8	5,025.8	4,848.7	14.9	24.6	32.59	-349.6	-1,258.2	721.5	699.7	21.80	33.092			

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4A-26H-P268 - HZ - Plan #2													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	5,145.5	5,124.8	4,943.6	15.2	25.1	32.64	-357.4	-1,285.3	735.6	713.3	22.27	33.025		
5,300.0	5,244.2	5,223.8	5,038.5	15.5	25.6	32.68	-365.3	-1,312.4	749.6	726.9	22.74	32.960		
5,400.0	5,342.9	5,322.8	5,133.4	15.9	26.2	32.73	-373.1	-1,339.5	763.7	740.5	23.22	32.897		
5,500.0	5,441.6	5,421.8	5,228.3	16.2	26.7	32.77	-381.0	-1,366.6	777.8	754.1	23.69	32.836		
5,600.0	5,540.3	5,520.8	5,323.2	16.5	27.3	32.81	-388.8	-1,393.7	791.9	767.8	24.16	32.778		
5,700.0	5,639.0	5,619.8	5,418.1	16.8	27.8	32.85	-396.6	-1,420.7	806.0	781.4	24.63	32.722		
5,800.0	5,737.7	5,718.8	5,513.0	17.2	28.3	32.88	-404.5	-1,447.8	820.1	795.0	25.10	32.668		
5,900.0	5,836.4	5,817.8	5,607.9	17.5	28.9	32.92	-412.3	-1,474.9	834.2	808.6	25.58	32.615		
6,000.0	5,935.1	5,916.8	5,702.8	17.8	29.4	32.96	-420.2	-1,502.0	848.3	822.2	26.05	32.564		
6,100.0	6,033.8	6,015.8	5,797.7	18.2	29.9	32.99	-428.0	-1,529.1	862.4	835.9	26.52	32.515		
6,200.0	6,132.5	6,114.8	5,892.6	18.5	30.5	33.02	-435.9	-1,556.2	876.5	849.5	27.00	32.467		
6,300.0	6,231.2	6,213.8	5,987.5	18.8	31.0	33.05	-443.7	-1,583.3	890.6	863.1	27.47	32.421		
6,400.0	6,329.9	6,312.8	6,082.4	19.2	31.6	33.08	-451.6	-1,610.4	904.7	876.7	27.94	32.377		
6,500.0	6,428.6	6,411.8	6,177.3	19.5	32.1	33.11	-459.4	-1,637.5	918.8	890.4	28.42	32.333		
6,600.0	6,527.3	6,510.8	6,272.2	19.8	32.6	33.14	-467.3	-1,664.6	932.9	904.0	28.89	32.291		
6,700.0	6,626.0	6,609.8	6,367.0	20.2	33.2	33.17	-475.1	-1,691.7	947.0	917.6	29.36	32.251		
6,800.0	6,724.7	6,708.8	6,461.9	20.5	33.7	33.20	-483.0	-1,718.7	961.1	931.2	29.84	32.211		
6,900.0	6,823.4	6,807.8	6,556.8	20.8	34.3	11.96	-490.8	-1,745.8	975.1	944.6	30.50	31.974		
7,000.0	6,922.2	6,905.7	6,650.7	21.0	34.8	-44.89	-498.6	-1,772.6	988.8	957.8	31.01	31.885		
7,100.0	7,018.3	6,999.8	6,740.8	21.1	35.3	-64.55	-506.0	-1,798.4	1,002.4	971.5	30.88	32.457		
7,200.0	7,109.0	7,087.0	6,824.5	21.0	35.8	-72.74	-512.9	-1,822.2	1,016.9	986.5	30.37	33.487		
7,300.0	7,191.4	7,164.9	6,899.1	20.9	36.2	-77.33	-519.1	-1,843.6	1,033.8	1,004.0	29.79	34.709		
7,400.0	7,263.1	7,268.2	6,998.4	20.8	36.7	-81.23	-518.0	-1,871.8	1,053.8	1,024.8	28.97	36.376		
7,500.0	7,321.8	7,395.7	7,118.0	20.7	37.2	-84.81	-491.1	-1,905.6	1,075.4	1,047.2	28.16	38.184		
7,600.0	7,365.8	7,564.7	7,262.5	20.6	37.6	-88.66	-414.7	-1,946.1	1,096.6	1,069.2	27.38	40.056		
8,600.0	7,405.0	8,908.9	7,495.0	26.5	41.3	-94.72	850.7	-2,001.3	1,105.1	1,062.2	42.86	25.784		
8,700.0	7,405.0	9,008.9	7,495.0	27.6	42.0	-94.73	950.7	-2,000.4	1,103.4	1,057.7	45.64	24.174		
8,800.0	7,405.0	9,104.6	7,495.0	28.8	42.7	-94.74	1,046.4	-1,999.7	1,101.8	1,053.3	48.46	22.738		
8,900.0	7,405.0	9,204.6	7,495.0	30.1	43.5	-94.74	1,146.3	-1,999.2	1,100.4	1,049.0	51.41	21.406		
9,000.0	7,405.0	9,304.5	7,495.0	31.4	44.4	-94.75	1,246.3	-1,998.8	1,099.1	1,044.7	54.42	20.195		
9,100.0	7,405.0	9,404.5	7,495.0	32.7	45.3	-94.76	1,346.3	-1,998.3	1,097.7	1,040.2	57.49	19.093		
9,200.0	7,405.0	9,504.5	7,495.0	34.1	46.3	-94.76	1,446.3	-1,997.8	1,096.4	1,035.8	60.61	18.089		
9,300.0	7,405.0	9,604.5	7,495.0	35.5	47.3	-94.77	1,546.3	-1,997.3	1,095.0	1,031.3	63.77	17.173		
9,400.0	7,405.0	9,704.5	7,495.0	36.9	48.3	-94.77	1,646.3	-1,996.8	1,093.7	1,026.7	66.96	16.335		
9,500.0	7,405.0	9,804.5	7,495.0	38.4	49.4	-94.78	1,746.3	-1,996.4	1,092.3	1,022.2	70.17	15.566		
9,600.0	7,405.0	9,904.5	7,495.0	39.9	50.6	-94.79	1,846.3	-1,995.9	1,091.0	1,017.6	73.42	14.860		
9,700.0	7,405.0	10,004.5	7,495.0	41.4	51.8	-94.79	1,946.3	-1,995.4	1,089.6	1,013.0	76.68	14.210		
9,800.0	7,405.0	10,104.5	7,495.0	42.9	53.0	-94.80	2,046.2	-1,994.9	1,088.3	1,008.3	79.97	13.609		
9,900.0	7,405.0	10,204.5	7,495.0	44.5	54.2	-94.80	2,146.2	-1,994.4	1,086.9	1,003.7	83.27	13.053		
10,000.0	7,405.0	10,304.5	7,495.0	46.0	55.5	-94.81	2,246.2	-1,994.0	1,085.6	999.0	86.59	12.537		
10,100.0	7,405.0	10,404.4	7,495.0	47.6	56.8	-94.81	2,346.2	-1,993.5	1,084.2	994.3	89.92	12.058		
10,200.0	7,405.0	10,504.4	7,495.0	49.2	58.1	-94.82	2,446.2	-1,993.0	1,082.9	989.6	93.26	11.611		
10,300.0	7,405.0	10,604.4	7,495.0	50.8	59.4	-94.83	2,546.2	-1,992.5	1,081.5	984.9	96.61	11.194		
10,400.0	7,405.0	10,704.4	7,495.0	52.4	60.8	-94.83	2,646.2	-1,992.0	1,080.2	980.2	99.98	10.804		
10,500.0	7,405.0	10,804.4	7,495.0	54.0	62.2	-94.84	2,746.2	-1,991.6	1,078.8	975.5	103.35	10.439		
10,600.0	7,405.0	10,904.4	7,495.0	55.6	63.6	-94.85	2,846.2	-1,991.1	1,077.5	970.8	106.73	10.096		
10,700.0	7,405.0	11,004.4	7,495.0	57.3	65.0	-94.85	2,946.2	-1,990.6	1,076.2	966.0	110.12	9.773		
10,800.0	7,405.0	11,104.4	7,495.0	58.9	66.4	-94.86	3,046.1	-1,990.1	1,074.8	961.3	113.51	9.469		
10,900.0	7,405.0	11,204.4	7,495.0	60.6	67.9	-94.86	3,146.1	-1,989.6	1,073.5	956.5	116.91	9.182		
11,000.0	7,405.0	11,304.4	7,495.0	62.2	69.4	-94.87	3,246.1	-1,989.1	1,072.1	951.8	120.31	8.911		
11,100.0	7,405.0	11,404.4	7,495.0	63.9	70.8	-94.88	3,346.1	-1,988.7	1,070.8	947.0	123.72	8.655		
11,200.0	7,405.0	11,504.3	7,495.0	65.5	72.3	-94.88	3,446.1	-1,988.2	1,069.4	942.3	127.14	8.412		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4A-26H-P268 - HZ - Plan #2													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)				
11,300.0	7,405.0	11,604.3	7,495.0	67.2	73.8	-94.89	3,546.1	-1,987.7	1,068.1	937.5	130.55	8.181		
11,400.0	7,405.0	11,704.3	7,495.0	68.9	75.4	-94.89	3,646.1	-1,987.2	1,066.7	932.7	133.98	7.962		
11,500.0	7,405.0	11,804.3	7,495.0	70.6	76.9	-94.90	3,746.1	-1,986.7	1,065.4	928.0	137.40	7.754		
11,600.0	7,405.0	11,904.3	7,495.0	72.2	78.4	-94.91	3,846.1	-1,986.3	1,064.0	923.2	140.83	7.555		
11,700.0	7,405.0	12,004.3	7,495.0	73.9	80.0	-94.91	3,946.1	-1,985.8	1,062.7	918.4	144.26	7.366		
11,800.0	7,405.0	12,104.3	7,495.0	75.6	81.5	-94.92	4,046.0	-1,985.3	1,061.3	913.6	147.70	7.186		
11,900.0	7,405.0	12,204.3	7,495.0	77.3	83.1	-94.93	4,146.0	-1,984.8	1,060.0	908.8	151.13	7.013		
12,000.0	7,405.0	12,304.3	7,495.0	79.0	84.7	-94.93	4,246.0	-1,984.3	1,058.6	904.0	154.57	6.849		
12,100.0	7,405.0	12,404.3	7,495.0	80.7	86.2	-94.94	4,346.0	-1,983.9	1,057.3	899.3	158.02	6.691		
12,200.0	7,405.0	12,504.3	7,495.0	82.4	87.8	-94.94	4,446.0	-1,983.4	1,055.9	894.5	161.46	6.540		
12,300.0	7,405.0	12,604.2	7,495.0	84.1	89.4	-94.95	4,546.0	-1,982.9	1,054.6	889.7	164.91	6.395		
12,400.0	7,405.0	12,704.2	7,495.0	85.8	91.0	-94.96	4,646.0	-1,982.4	1,053.2	884.9	168.35	6.256		
12,500.0	7,405.0	12,804.2	7,495.0	87.5	92.6	-94.96	4,746.0	-1,981.9	1,051.9	880.1	171.80	6.123		
12,600.0	7,405.0	12,904.2	7,495.0	89.2	94.2	-94.97	4,846.0	-1,981.5	1,050.5	875.3	175.26	5.994		
12,700.0	7,405.0	13,004.2	7,495.0	90.9	95.8	-94.98	4,946.0	-1,981.0	1,049.2	870.5	178.71	5.871		
12,800.0	7,405.0	13,104.2	7,495.0	92.6	97.4	-94.98	5,045.9	-1,980.5	1,047.8	865.7	182.16	5.752		
12,900.0	7,405.0	13,204.2	7,495.0	94.3	99.1	-94.99	5,145.9	-1,980.0	1,046.5	860.9	185.62	5.638		
13,000.0	7,405.0	13,304.2	7,495.0	96.0	100.7	-95.00	5,245.9	-1,979.5	1,045.1	856.1	189.08	5.528		
13,100.0	7,405.0	13,404.2	7,495.0	97.7	102.3	-95.00	5,345.9	-1,979.0	1,043.8	851.3	192.53	5.421		
13,200.0	7,405.0	13,504.2	7,495.0	99.5	104.0	-95.01	5,445.9	-1,978.6	1,042.4	846.4	195.99	5.319		
13,300.0	7,405.0	13,604.2	7,495.0	101.2	105.6	-95.01	5,545.9	-1,978.1	1,041.1	841.6	199.45	5.220		
13,400.0	7,405.0	13,704.1	7,495.0	102.9	107.2	-95.02	5,645.9	-1,977.6	1,039.7	836.8	202.92	5.124		
13,500.0	7,405.0	13,804.1	7,495.0	104.6	108.9	-95.03	5,745.9	-1,977.1	1,038.4	832.0	206.38	5.031		
13,600.0	7,405.0	13,904.1	7,495.0	106.3	110.5	-95.03	5,845.9	-1,976.6	1,037.0	827.2	209.84	4.942		
13,700.0	7,405.0	14,004.1	7,495.0	108.1	112.2	-95.04	5,945.8	-1,976.2	1,035.7	822.4	213.31	4.855		
13,798.1	7,405.0	14,102.2	7,495.0	109.7	113.8	-95.04	6,044.0	-1,975.7	1,035.1	819.0	216.02	4.791		
13,800.0	7,405.0	14,104.1	7,495.0	109.8	113.9	-95.05	6,045.8	-1,975.7	1,034.6	818.6	216.07	4.788		
13,900.0	7,405.0	14,181.1	7,495.0	111.5	115.1	-95.04	6,122.8	-1,976.0	1,037.4	820.2	217.26	4.775 SF		
14,000.0	7,405.0	14,280.8	7,495.0	113.2	116.8	-95.02	6,222.5	-1,977.8	1,044.9	826.3	218.59	4.780		
14,100.0	7,405.0	14,380.2	7,495.0	114.9	118.5	-94.98	6,321.9	-1,979.5	1,055.9	836.2	219.65	4.807		
14,200.0	7,405.0	14,479.2	7,495.0	116.6	120.1	-94.93	6,420.9	-1,981.2	1,070.0	848.5	221.54	4.830		
14,300.0	7,405.0	14,578.1	7,495.0	118.2	121.8	-94.87	6,519.7	-1,983.0	1,084.8	859.8	225.00	4.821		
14,400.0	7,405.0	14,677.0	7,495.0	119.9	123.5	-94.80	6,618.6	-1,984.7	1,099.5	871.1	228.45	4.813		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4B-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.49	0.4	-40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.49	0.4	-40.0	40.0	39.8	0.24	168.528		
200.0	200.0	200.0	200.0	0.3	0.3	-89.49	0.4	-40.0	40.0	39.4	0.59	68.214		
300.0	300.0	300.0	300.0	0.5	0.5	-89.49	0.4	-40.0	40.0	39.1	0.94	42.761	CC, ES	
400.0	400.0	398.7	398.6	0.6	0.6	-90.25	-0.2	-41.6	41.6	40.4	1.28	32.443		
500.0	500.0	497.1	496.9	0.8	0.8	-92.19	-1.8	-46.4	46.6	44.9	1.64	28.444		
600.0	600.0	595.0	594.5	1.0	1.0	-94.65	-4.4	-54.4	54.9	52.9	2.00	27.367		
700.0	700.0	692.3	691.1	1.2	1.3	-97.04	-8.1	-65.5	66.6	64.2	2.40	27.788		
800.0	800.0	788.9	786.6	1.3	1.6	23.94	-12.7	-79.5	80.1	77.4	2.67	29.981		
900.0	899.8	885.1	881.1	1.5	1.9	23.23	-18.4	-96.5	93.7	90.7	3.02	31.056		
1,000.0	999.5	980.8	974.5	1.7	2.3	23.12	-25.0	-116.4	107.5	104.1	3.37	31.904		
1,100.0	1,098.7	1,078.3	1,068.9	2.0	2.8	23.46	-32.6	-139.3	120.9	117.1	3.73	32.389		
1,200.0	1,197.5	1,177.7	1,165.1	2.2	3.2	24.31	-40.4	-162.9	131.6	127.5	4.11	31.998		
1,300.0	1,296.2	1,277.1	1,261.4	2.5	3.7	25.19	-48.2	-186.5	141.8	137.3	4.51	31.435		
1,400.0	1,394.9	1,376.6	1,357.7	2.8	4.1	25.96	-56.1	-210.1	152.0	147.1	4.92	30.912		
1,500.0	1,493.6	1,476.0	1,454.0	3.1	4.6	26.63	-63.9	-233.8	162.3	157.0	5.33	30.427		
1,600.0	1,592.3	1,575.5	1,550.3	3.4	5.1	27.22	-71.7	-257.4	172.6	166.8	5.76	29.978		
1,700.0	1,691.0	1,675.0	1,646.6	3.7	5.5	27.75	-79.5	-281.0	182.8	176.6	6.18	29.563		
1,800.0	1,789.7	1,774.4	1,742.9	4.0	6.0	28.22	-87.4	-304.6	193.1	186.5	6.62	29.180		
1,900.0	1,888.4	1,873.9	1,839.1	4.3	6.5	28.64	-95.2	-328.2	203.4	196.4	7.06	28.826		
2,000.0	1,987.1	1,973.3	1,935.4	4.7	7.0	29.02	-103.0	-351.9	213.7	206.2	7.50	28.498		
2,100.0	2,085.8	2,072.8	2,031.7	5.0	7.4	29.37	-110.9	-375.5	224.1	216.1	7.95	28.195		
2,200.0	2,184.5	2,172.2	2,128.0	5.3	7.9	29.68	-118.7	-399.1	234.4	226.0	8.40	27.915		
2,300.0	2,283.2	2,271.7	2,224.3	5.6	8.4	29.97	-126.5	-422.7	244.7	235.9	8.85	27.655		
2,400.0	2,381.9	2,371.2	2,320.6	6.0	8.9	30.24	-134.4	-446.4	255.1	245.8	9.31	27.413		
2,500.0	2,480.6	2,470.6	2,416.9	6.3	9.3	30.48	-142.2	-470.0	265.4	255.7	9.76	27.187		
2,600.0	2,579.3	2,570.1	2,513.2	6.6	9.8	30.71	-150.0	-493.6	275.8	265.6	10.22	26.977		
2,700.0	2,678.0	2,669.5	2,609.5	6.9	10.3	30.92	-157.9	-517.2	286.1	275.5	10.68	26.781		
2,800.0	2,776.7	2,769.0	2,705.8	7.3	10.8	31.11	-165.7	-540.9	296.5	285.3	11.15	26.597		
2,900.0	2,875.4	2,868.4	2,802.1	7.6	11.3	31.29	-173.5	-564.5	306.9	295.2	11.61	26.425		
3,000.0	2,974.1	2,967.9	2,898.4	7.9	11.7	31.46	-181.4	-588.1	317.2	305.1	12.08	26.263		
3,100.0	3,072.8	3,067.4	2,994.7	8.2	12.2	31.62	-189.2	-611.7	327.6	315.0	12.55	26.111		
3,200.0	3,171.5	3,166.8	3,091.0	8.6	12.7	31.77	-197.0	-635.4	338.0	324.9	13.01	25.968		
3,300.0	3,270.2	3,266.3	3,187.2	8.9	13.2	31.91	-204.9	-659.0	348.3	334.9	13.48	25.833		
3,400.0	3,368.9	3,365.7	3,283.5	9.2	13.6	32.05	-212.7	-682.6	358.7	344.8	13.95	25.706		
3,500.0	3,467.6	3,465.2	3,379.8	9.6	14.1	32.17	-220.5	-706.2	369.1	354.7	14.43	25.585		
3,600.0	3,566.3	3,564.6	3,476.1	9.9	14.6	32.29	-228.4	-729.9	379.5	364.6	14.90	25.471		
3,700.0	3,665.0	3,664.1	3,572.4	10.2	15.1	32.40	-236.2	-753.5	389.8	374.5	15.37	25.363		
3,800.0	3,763.7	3,763.6	3,668.7	10.6	15.6	32.51	-244.0	-777.1	400.2	384.4	15.84	25.260		
3,900.0	3,862.4	3,863.0	3,765.0	10.9	16.0	32.61	-251.9	-800.7	410.6	394.3	16.32	25.162		
4,000.0	3,961.1	3,962.5	3,861.3	11.2	16.5	32.71	-259.7	-824.3	421.0	404.2	16.79	25.069		
4,100.0	4,059.8	4,061.9	3,957.6	11.5	17.0	32.80	-267.5	-848.0	431.4	414.1	17.27	24.981		
4,200.0	4,158.5	4,161.4	4,053.9	11.9	17.5	32.88	-275.4	-871.6	441.8	424.0	17.74	24.896		
4,300.0	4,257.2	4,260.8	4,150.2	12.2	17.9	32.97	-283.2	-895.2	452.1	433.9	18.22	24.815		
4,400.0	4,355.9	4,360.3	4,246.5	12.5	18.4	33.05	-291.0	-918.8	462.5	443.8	18.70	24.738		
4,500.0	4,454.6	4,459.8	4,342.8	12.9	18.9	33.12	-298.9	-942.5	472.9	453.7	19.17	24.665		
4,600.0	4,553.3	4,559.2	4,439.0	13.2	19.4	33.19	-306.7	-966.1	483.3	463.7	19.65	24.594		
4,700.0	4,652.0	4,658.7	4,535.3	13.5	19.9	33.26	-314.5	-989.7	493.7	473.6	20.13	24.526		
4,800.0	4,750.7	4,758.1	4,631.6	13.9	20.3	33.33	-322.4	-1,013.3	504.1	483.5	20.61	24.462		
4,900.0	4,849.4	4,857.6	4,727.9	14.2	20.8	33.39	-330.2	-1,037.0	514.5	493.4	21.09	24.399		
5,000.0	4,948.1	4,957.0	4,824.2	14.5	21.3	33.45	-338.0	-1,060.6	524.9	503.3	21.56	24.340		
5,100.0	5,046.8	5,056.5	4,920.5	14.9	21.8	33.51	-345.9	-1,084.2	535.3	513.2	22.04	24.282		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4B-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	5,145.5	5,156.0	5,016.8	15.2	22.2	33.57	-353.7	-1,107.8	545.7	523.1	22.52	24.227		
5,300.0	5,244.2	5,255.4	5,113.1	15.5	22.7	33.63	-361.5	-1,131.5	556.1	533.1	23.00	24.174		
5,400.0	5,342.9	5,354.9	5,209.4	15.9	23.2	33.68	-369.4	-1,155.1	566.4	543.0	23.48	24.122		
5,500.0	5,441.6	5,454.3	5,305.7	16.2	23.7	33.73	-377.2	-1,178.7	576.8	552.9	23.96	24.073		
5,600.0	5,540.3	5,553.8	5,402.0	16.5	24.2	33.78	-385.0	-1,202.3	587.2	562.8	24.44	24.025		
5,700.0	5,639.0	5,653.2	5,498.3	16.8	24.6	33.82	-392.9	-1,226.0	597.6	572.7	24.92	23.979		
5,800.0	5,737.7	5,752.7	5,594.6	17.2	25.1	33.87	-400.7	-1,249.6	608.0	582.6	25.40	23.935		
5,900.0	5,836.4	5,852.2	5,690.9	17.5	25.6	33.91	-408.5	-1,273.2	618.4	592.5	25.88	23.892		
6,000.0	5,935.1	5,951.6	5,787.1	17.8	26.1	33.96	-416.4	-1,296.8	628.8	602.5	26.37	23.850		
6,100.0	6,033.8	6,051.1	5,883.4	18.2	26.6	34.00	-424.2	-1,320.4	639.2	612.4	26.85	23.810		
6,200.0	6,132.5	6,150.5	5,979.7	18.5	27.0	34.04	-432.0	-1,344.1	649.6	622.3	27.33	23.771		
6,300.0	6,231.2	6,250.0	6,076.0	18.8	27.5	34.08	-439.9	-1,367.7	660.0	632.2	27.81	23.734		
6,400.0	6,329.9	6,349.4	6,172.3	19.2	28.0	34.11	-447.7	-1,391.3	670.4	642.1	28.29	23.697		
6,500.0	6,428.6	6,448.9	6,268.6	19.5	28.5	34.15	-455.5	-1,414.9	680.8	652.0	28.77	23.662		
6,600.0	6,527.3	6,548.4	6,364.9	19.8	28.9	34.19	-463.4	-1,438.6	691.2	662.0	29.25	23.628		
6,700.0	6,626.0	6,647.8	6,461.2	20.2	29.4	34.22	-471.2	-1,462.2	701.6	671.9	29.74	23.594		
6,800.0	6,724.7	6,747.3	6,557.5	20.5	29.9	34.25	-479.0	-1,485.8	712.0	681.8	30.22	23.562		
6,900.0	6,823.4	6,846.7	6,653.8	20.8	30.4	34.28	-486.9	-1,509.4	722.4	691.6	30.80	23.454		
7,000.0	6,922.2	6,945.1	6,749.0	21.0	30.9	-44.67	-494.6	-1,532.8	732.2	701.2	30.98	23.632		
7,100.0	7,018.3	7,039.5	6,840.5	21.1	31.3	-65.30	-502.0	-1,555.2	742.0	711.5	30.47	24.350		
7,200.0	7,109.0	7,127.2	6,925.4	21.0	31.7	-74.61	-508.9	-1,576.1	753.5	723.8	29.63	25.425		
7,300.0	7,191.4	7,205.5	7,001.1	20.9	32.1	-80.27	-515.1	-1,594.7	769.0	740.1	28.88	26.631		
7,400.0	7,263.1	7,291.2	7,084.2	20.8	32.5	-84.72	-519.1	-1,615.0	790.5	762.3	28.22	28.012		
7,500.0	7,321.8	7,406.2	7,194.9	20.7	32.9	-89.26	-505.4	-1,642.2	816.8	789.3	27.59	29.609		
7,600.0	7,365.8	7,561.0	7,335.4	20.6	33.3	-94.35	-451.8	-1,676.7	845.6	818.6	26.98	31.337		
7,700.0	7,393.8	7,792.0	7,507.1	20.7	33.5	-100.41	-305.4	-1,718.8	871.7	845.4	26.30	33.142		
7,800.0	7,404.8	8,132.2	7,628.0	20.8	33.8	-104.65	5.8	-1,748.5	884.8	858.5	26.37	33.557		
7,900.0	7,405.0	8,267.6	7,630.0	21.1	34.0	-104.74	141.1	-1,748.9	884.2	856.8	27.35	32.333		
8,000.0	7,405.0	8,367.6	7,630.0	21.5	34.2	-104.76	241.1	-1,748.9	883.3	854.7	28.61	30.877		
8,100.0	7,405.0	8,467.5	7,630.0	22.1	34.6	-104.77	341.1	-1,748.9	882.5	852.3	30.20	29.222		
8,200.0	7,405.0	8,567.5	7,630.0	22.8	35.0	-104.79	441.1	-1,748.9	881.6	849.6	32.07	27.489		
8,300.0	7,405.0	8,667.5	7,630.0	23.6	35.5	-104.80	541.1	-1,748.9	880.8	846.6	34.18	25.770		
8,400.0	7,405.0	8,767.5	7,630.0	24.4	36.0	-104.82	641.1	-1,748.9	880.0	843.5	36.48	24.121		
8,500.0	7,405.0	8,867.5	7,630.0	25.4	36.7	-104.83	741.1	-1,748.9	879.1	840.2	38.94	22.575		
8,600.0	7,405.0	8,967.5	7,630.0	26.5	37.4	-104.84	841.1	-1,748.9	878.3	836.7	41.53	21.146		
8,700.0	7,405.0	9,067.5	7,630.0	27.6	38.2	-104.86	941.1	-1,748.9	877.4	833.2	44.23	19.836		
8,800.0	7,405.0	9,167.5	7,630.0	28.8	39.0	-104.87	1,041.1	-1,748.9	876.6	829.6	47.02	18.642		
8,900.0	7,405.0	9,267.5	7,630.0	30.1	39.9	-104.89	1,141.1	-1,748.9	875.7	825.9	49.89	17.555		
9,000.0	7,405.0	9,367.5	7,630.0	31.4	40.9	-104.90	1,241.1	-1,748.9	874.9	822.1	52.81	16.567		
9,100.0	7,405.0	9,467.5	7,630.0	32.7	41.9	-104.92	1,341.1	-1,748.9	874.1	818.3	55.79	15.667		
9,200.0	7,405.0	9,567.5	7,630.0	34.1	43.0	-104.93	1,441.1	-1,748.9	873.2	814.4	58.81	14.848		
9,300.0	7,405.0	9,667.5	7,630.0	35.5	44.1	-104.95	1,541.1	-1,748.9	872.4	810.5	61.87	14.100		
9,400.0	7,405.0	9,767.5	7,630.0	36.9	45.2	-104.96	1,641.1	-1,748.9	871.5	806.6	64.96	13.416		
9,500.0	7,405.0	9,867.5	7,630.0	38.4	46.4	-104.98	1,741.0	-1,748.9	870.7	802.6	68.08	12.789		
9,600.0	7,405.0	9,967.5	7,630.0	39.9	47.7	-104.99	1,841.0	-1,748.9	869.8	798.6	71.22	12.213		
9,700.0	7,405.0	10,067.5	7,630.0	41.4	48.9	-105.01	1,941.0	-1,748.9	869.0	794.6	74.39	11.682		
9,800.0	7,405.0	10,167.5	7,630.0	42.9	50.2	-105.02	2,041.0	-1,748.9	868.1	790.6	77.57	11.192		
9,900.0	7,405.0	10,267.5	7,630.0	44.5	51.5	-105.04	2,141.0	-1,748.9	867.3	786.5	80.77	10.739		
10,000.0	7,405.0	10,367.5	7,630.0	46.0	52.9	-105.05	2,241.0	-1,748.9	866.5	782.5	83.98	10.318		
10,100.0	7,405.0	10,467.5	7,630.0	47.6	54.2	-105.07	2,341.0	-1,748.9	865.6	778.4	87.20	9.926		
10,200.0	7,405.0	10,567.5	7,630.0	49.2	55.6	-105.08	2,441.0	-1,748.9	864.8	774.3	90.44	9.562		
10,300.0	7,405.0	10,667.5	7,630.0	50.8	57.0	-105.10	2,541.0	-1,748.9	863.9	770.2	93.69	9.222		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4B-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,400.0	7,405.0	10,767.5	7,630.0	52.4	58.5	-105.11	2,641.0	-1,748.9	863.1	766.2	96.94	8.903		
10,500.0	7,405.0	10,867.5	7,630.0	54.0	59.9	-105.13	2,741.0	-1,748.9	862.2	762.0	100.20	8.605		
10,600.0	7,405.0	10,967.5	7,630.0	55.6	61.4	-105.14	2,841.0	-1,748.9	861.4	757.9	103.47	8.325		
10,700.0	7,405.0	11,067.5	7,630.0	57.3	62.8	-105.16	2,941.0	-1,748.9	860.6	753.8	106.75	8.062		
10,800.0	7,405.0	11,167.4	7,630.0	58.9	64.3	-105.17	3,041.0	-1,748.9	859.7	749.7	110.03	7.813		
10,900.0	7,405.0	11,267.4	7,630.0	60.6	65.8	-105.19	3,141.0	-1,748.9	858.9	745.6	113.32	7.579		
11,000.0	7,405.0	11,367.4	7,630.0	62.2	67.4	-105.20	3,241.0	-1,748.9	858.0	741.4	116.61	7.358		
11,100.0	7,405.0	11,467.4	7,630.0	63.9	68.9	-105.22	3,341.0	-1,748.9	857.2	737.3	119.91	7.149		
11,200.0	7,405.0	11,567.4	7,630.0	65.5	70.4	-105.23	3,441.0	-1,748.9	856.4	733.1	123.21	6.950		
11,300.0	7,405.0	11,667.4	7,630.0	67.2	72.0	-105.25	3,541.0	-1,748.9	855.5	729.0	126.51	6.762		
11,400.0	7,405.0	11,767.4	7,630.0	68.9	73.5	-105.26	3,641.0	-1,748.9	854.7	724.8	129.82	6.583		
11,500.0	7,405.0	11,867.4	7,630.0	70.6	75.1	-105.28	3,741.0	-1,748.9	853.8	720.7	133.13	6.413		
11,600.0	7,405.0	11,967.4	7,630.0	72.2	76.7	-105.30	3,841.0	-1,748.9	853.0	716.5	136.44	6.252		
11,700.0	7,405.0	12,067.4	7,630.0	73.9	78.3	-105.31	3,941.0	-1,748.9	852.1	712.4	139.76	6.097		
11,800.0	7,405.0	12,167.4	7,630.0	75.6	79.9	-105.33	4,041.0	-1,748.9	851.3	708.2	143.08	5.950		
11,900.0	7,405.0	12,267.4	7,630.0	77.3	81.5	-105.34	4,141.0	-1,748.9	850.5	704.1	146.40	5.809		
12,000.0	7,405.0	12,367.4	7,630.0	79.0	83.1	-105.36	4,241.0	-1,748.9	849.6	699.9	149.72	5.675		
12,100.0	7,405.0	12,467.4	7,630.0	80.7	84.7	-105.37	4,340.9	-1,748.9	848.8	695.7	153.04	5.546		
12,200.0	7,405.0	12,567.4	7,630.0	82.4	86.3	-105.39	4,440.9	-1,748.9	847.9	691.6	156.37	5.423		
12,300.0	7,405.0	12,667.4	7,630.0	84.1	87.9	-105.40	4,540.9	-1,748.9	847.1	687.4	159.70	5.304		
12,400.0	7,405.0	12,767.4	7,630.0	85.8	89.5	-105.42	4,640.9	-1,748.9	846.3	683.2	163.02	5.191		
12,500.0	7,405.0	12,867.4	7,630.0	87.5	91.2	-105.44	4,740.9	-1,748.9	845.4	679.1	166.35	5.082		
12,600.0	7,405.0	12,967.4	7,630.0	89.2	92.8	-105.45	4,840.9	-1,748.9	844.6	674.9	169.69	4.977		
12,700.0	7,405.0	13,067.4	7,630.0	90.9	94.4	-105.47	4,940.9	-1,748.9	843.7	670.7	173.02	4.877		
12,800.0	7,405.0	13,167.4	7,630.0	92.6	96.1	-105.48	5,040.9	-1,748.9	842.9	666.5	176.35	4.780		
12,900.0	7,405.0	13,267.4	7,630.0	94.3	97.7	-105.50	5,140.9	-1,748.9	842.0	662.4	179.68	4.686		
13,000.0	7,405.0	13,367.4	7,630.0	96.0	99.4	-105.51	5,240.9	-1,748.9	841.2	658.2	183.02	4.596		
13,100.0	7,405.0	13,467.4	7,630.0	97.7	101.0	-105.53	5,340.9	-1,748.9	840.4	654.0	186.35	4.510		
13,200.0	7,405.0	13,567.4	7,630.0	99.5	102.7	-105.55	5,440.9	-1,748.9	839.5	649.8	189.69	4.426		
13,300.0	7,405.0	13,667.4	7,630.0	101.2	104.4	-105.56	5,540.9	-1,748.9	838.7	645.7	193.02	4.345		
13,400.0	7,405.0	13,767.3	7,630.0	102.9	106.0	-105.58	5,640.9	-1,748.9	837.8	641.5	196.36	4.267		
13,500.0	7,405.0	13,867.3	7,630.0	104.6	107.7	-105.59	5,740.9	-1,748.9	837.0	637.3	199.70	4.191		
13,600.0	7,405.0	13,967.3	7,630.0	106.3	109.4	-105.61	5,840.9	-1,748.9	836.2	633.1	203.03	4.118		
13,700.0	7,405.0	14,067.3	7,630.0	108.1	111.0	-105.63	5,940.9	-1,748.9	835.3	628.9	206.37	4.048		
13,784.4	7,405.0	14,151.8	7,630.0	109.5	112.5	-105.63	6,025.3	-1,748.9	835.1	626.4	208.67	4.002		
13,800.0	7,405.0	14,167.3	7,630.0	109.8	112.7	-105.64	6,040.9	-1,748.9	834.8	625.7	209.09	3.992		
13,900.0	7,405.0	14,267.3	7,630.0	111.5	114.4	-105.61	6,140.9	-1,748.9	837.0	626.2	210.77	3.971		
14,000.0	7,405.0	14,367.1	7,630.0	113.2	116.1	-105.53	6,240.7	-1,748.9	842.5	630.3	212.24	3.970 SF		
14,100.0	7,405.0	14,466.7	7,630.0	114.9	117.7	-105.41	6,340.2	-1,748.9	851.5	638.0	213.50	3.988		
14,200.0	7,405.0	14,565.9	7,630.0	116.6	119.4	-105.23	6,439.5	-1,748.9	863.5	647.9	215.58	4.006		
14,300.0	7,405.0	14,665.1	7,630.0	118.2	121.1	-105.00	6,538.6	-1,748.9	876.1	657.0	219.14	3.998		
14,400.0	7,405.0	14,764.2	7,630.0	119.9	122.8	-104.79	6,637.7	-1,748.9	888.8	666.1	222.69	3.991		
14,500.0	7,405.0	14,863.3	7,630.0	121.6	124.4	-104.57	6,736.9	-1,748.9	901.4	675.2	226.25	3.984		
14,600.0	7,405.0	14,962.5	7,630.0	123.3	126.1	-104.37	6,836.0	-1,748.9	914.1	684.3	229.80	3.978		
14,685.3	7,405.0	15,047.1	7,630.0	124.7	127.5	-104.20	6,920.6	-1,748.9	924.9	692.1	232.83	3.972		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4C-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-89.33	0.3	-29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.33	0.3	-29.9	29.9	29.7	0.24	126.105		
200.0	200.0	200.0	200.0	0.3	0.3	-89.33	0.3	-29.9	29.9	29.3	0.59	51.042		
300.0	300.0	300.0	300.0	0.5	0.5	-89.33	0.3	-29.9	29.9	29.0	0.94	31.997		
400.0	400.0	400.0	400.0	0.6	0.6	-89.33	0.3	-29.9	29.9	28.6	1.28	23.302 CC, ES		
500.0	500.0	499.0	499.0	0.8	0.8	-90.47	-0.3	-31.5	31.5	29.9	1.63	19.322		
600.0	600.0	597.8	597.6	1.0	1.0	-93.28	-2.1	-36.3	36.4	34.5	1.99	18.355		
700.0	700.0	696.1	695.5	1.2	1.2	-96.57	-5.1	-44.2	44.7	42.4	2.35	19.029		
800.0	800.0	793.9	792.6	1.3	1.5	23.76	-9.3	-55.2	54.9	52.2	2.68	20.502		
900.0	899.8	891.3	888.9	1.5	1.7	22.74	-14.6	-69.2	65.2	62.2	3.02	21.548		
1,000.0	999.5	988.4	984.3	1.7	2.1	22.51	-21.1	-86.2	75.6	72.2	3.38	22.390		
1,100.0	1,098.7	1,085.5	1,079.0	2.0	2.5	22.78	-28.7	-106.2	86.1	82.4	3.74	23.048		
1,200.0	1,197.5	1,185.1	1,175.8	2.2	2.9	23.62	-37.0	-127.9	95.0	90.9	4.12	23.076		
1,300.0	1,296.2	1,284.7	1,272.7	2.5	3.3	24.51	-45.2	-149.7	103.3	98.8	4.51	22.886		
1,400.0	1,394.9	1,384.4	1,369.6	2.8	3.7	25.27	-53.5	-171.5	111.6	106.7	4.92	22.690		
1,500.0	1,493.6	1,484.0	1,466.5	3.1	4.2	25.92	-61.8	-193.2	120.0	114.6	5.33	22.494		
1,600.0	1,592.3	1,583.6	1,563.3	3.4	4.6	26.49	-70.1	-215.0	128.3	122.5	5.75	22.303		
1,700.0	1,691.0	1,683.3	1,660.2	3.7	5.0	26.99	-78.4	-236.7	136.6	130.5	6.18	22.119		
1,800.0	1,789.7	1,782.9	1,757.1	4.0	5.5	27.43	-86.6	-258.5	145.0	138.4	6.61	21.943		
1,900.0	1,888.4	1,882.6	1,854.0	4.3	5.9	27.82	-94.9	-280.3	153.4	146.3	7.04	21.776		
2,000.0	1,987.1	1,982.2	1,950.9	4.7	6.4	28.18	-103.2	-302.0	161.8	154.3	7.48	21.618		
2,100.0	2,085.8	2,081.9	2,047.8	5.0	6.8	28.49	-111.5	-323.8	170.1	162.2	7.92	21.470		
2,200.0	2,184.5	2,181.5	2,144.7	5.3	7.3	28.78	-119.8	-345.5	178.5	170.1	8.37	21.330		
2,300.0	2,283.2	2,281.2	2,241.5	5.6	7.7	29.04	-128.0	-367.3	186.9	178.1	8.82	21.199		
2,400.0	2,381.9	2,380.8	2,338.4	6.0	8.2	29.28	-136.3	-389.0	195.3	186.0	9.27	21.075		
2,500.0	2,480.6	2,480.4	2,435.3	6.3	8.6	29.50	-144.6	-410.8	203.7	194.0	9.72	20.959		
2,600.0	2,579.3	2,580.1	2,532.2	6.6	9.0	29.71	-152.9	-432.6	212.1	201.9	10.17	20.850		
2,700.0	2,678.0	2,679.7	2,629.1	6.9	9.5	29.89	-161.2	-454.3	220.5	209.9	10.63	20.747		
2,800.0	2,776.7	2,779.4	2,726.0	7.3	9.9	30.07	-169.4	-476.1	228.9	217.8	11.08	20.650		
2,900.0	2,875.4	2,879.0	2,822.9	7.6	10.4	30.23	-177.7	-497.8	237.3	225.8	11.54	20.559		
3,000.0	2,974.1	2,978.7	2,919.7	7.9	10.8	30.38	-186.0	-519.6	245.7	233.7	12.00	20.473		
3,100.0	3,072.8	3,078.3	3,016.6	8.2	11.3	30.52	-194.3	-541.4	254.1	241.7	12.46	20.392		
3,200.0	3,171.5	3,177.9	3,113.5	8.6	11.7	30.65	-202.6	-563.1	262.5	249.6	12.92	20.314		
3,300.0	3,270.2	3,277.6	3,210.4	8.9	12.2	30.77	-210.9	-584.9	270.9	257.6	13.39	20.242		
3,400.0	3,368.9	3,377.2	3,307.3	9.2	12.6	30.89	-219.1	-606.6	279.4	265.5	13.85	20.172		
3,500.0	3,467.6	3,476.9	3,404.2	9.6	13.1	31.00	-227.4	-628.4	287.8	273.5	14.31	20.107		
3,600.0	3,566.3	3,576.5	3,501.1	9.9	13.5	31.10	-235.7	-650.2	296.2	281.4	14.78	20.044		
3,700.0	3,665.0	3,676.2	3,597.9	10.2	14.0	31.20	-244.0	-671.9	304.6	289.4	15.24	19.985		
3,800.0	3,763.7	3,775.8	3,694.8	10.6	14.4	31.29	-252.3	-693.7	313.0	297.3	15.71	19.928		
3,900.0	3,862.4	3,875.5	3,791.7	10.9	14.9	31.38	-260.5	-715.4	321.4	305.3	16.17	19.875		
4,000.0	3,961.1	3,975.1	3,888.6	11.2	15.3	31.46	-268.8	-737.2	329.8	313.2	16.64	19.823		
4,100.0	4,059.8	4,074.7	3,985.5	11.5	15.8	31.54	-277.1	-758.9	338.3	321.2	17.11	19.774		
4,200.0	4,158.5	4,174.4	4,082.4	11.9	16.2	31.61	-285.4	-780.7	346.7	329.1	17.57	19.727		
4,300.0	4,257.2	4,274.0	4,179.3	12.2	16.7	31.68	-293.7	-802.5	355.1	337.1	18.04	19.683		
4,400.0	4,355.9	4,373.7	4,276.1	12.5	17.1	31.75	-301.9	-824.2	363.5	345.0	18.51	19.640		
4,500.0	4,454.6	4,473.3	4,373.0	12.9	17.6	31.81	-310.2	-846.0	371.9	353.0	18.98	19.598		
4,600.0	4,553.3	4,573.0	4,469.9	13.2	18.0	31.88	-318.5	-867.7	380.4	360.9	19.45	19.559		
4,700.0	4,652.0	4,672.6	4,566.8	13.5	18.5	31.94	-326.8	-889.5	388.8	368.9	19.92	19.521		
4,800.0	4,750.7	4,772.3	4,663.7	13.9	18.9	31.99	-335.1	-911.3	397.2	376.8	20.39	19.485		
4,900.0	4,849.4	4,871.9	4,760.6	14.2	19.4	32.05	-343.3	-933.0	405.6	384.8	20.86	19.450		
5,000.0	4,948.1	4,971.5	4,857.5	14.5	19.8	32.10	-351.6	-954.8	414.1	392.7	21.33	19.416		
5,100.0	5,046.8	5,071.2	4,954.4	14.9	20.3	32.15	-359.9	-976.5	422.5	400.7	21.80	19.384		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4C-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		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			
5,200.0	5,145.5	5,170.8	5,051.2	15.2	20.7	32.20	-368.2	-998.3	430.9	408.6	22.27	19.353		
5,300.0	5,244.2	5,270.5	5,148.1	15.5	21.2	32.24	-376.5	-1,020.0	439.3	416.6	22.74	19.323		
5,400.0	5,342.9	5,370.1	5,245.0	15.9	21.6	32.29	-384.8	-1,041.8	447.7	424.5	23.21	19.294		
5,500.0	5,441.6	5,469.8	5,341.9	16.2	22.1	32.33	-393.0	-1,063.6	456.2	432.5	23.68	19.266		
5,600.0	5,540.3	5,569.4	5,438.8	16.5	22.5	32.37	-401.3	-1,085.3	464.6	440.4	24.15	19.239		
5,700.0	5,639.0	5,669.0	5,535.7	16.8	23.0	32.41	-409.6	-1,107.1	473.0	448.4	24.62	19.213		
5,800.0	5,737.7	5,768.7	5,632.6	17.2	23.4	32.45	-417.9	-1,128.8	481.4	456.4	25.09	19.188		
5,900.0	5,836.4	5,868.3	5,729.4	17.5	23.9	32.49	-426.2	-1,150.6	489.9	464.3	25.56	19.163		
6,000.0	5,935.1	5,968.0	5,826.3	17.8	24.3	32.52	-434.4	-1,172.4	498.3	472.3	26.03	19.140		
6,100.0	6,033.8	6,067.6	5,923.2	18.2	24.8	32.56	-442.7	-1,194.1	506.7	480.2	26.51	19.117		
6,200.0	6,132.5	6,167.3	6,020.1	18.5	25.2	32.59	-451.0	-1,215.9	515.1	488.2	26.98	19.095		
6,300.0	6,231.2	6,266.9	6,117.0	18.8	25.7	32.62	-459.3	-1,237.6	523.6	496.1	27.45	19.073		
6,400.0	6,329.9	6,366.6	6,213.9	19.2	26.1	32.65	-467.6	-1,259.4	532.0	504.1	27.92	19.052		
6,500.0	6,428.6	6,466.2	6,310.8	19.5	26.6	32.69	-475.8	-1,281.2	540.4	512.0	28.40	19.032		
6,600.0	6,527.3	6,565.8	6,407.6	19.8	27.0	32.71	-484.1	-1,302.9	548.9	520.0	28.87	19.013		
6,700.0	6,626.0	6,665.5	6,504.5	20.2	27.5	32.74	-492.4	-1,324.7	557.3	527.9	29.34	18.994		
6,800.0	6,724.7	6,765.1	6,601.4	20.5	27.9	32.77	-500.7	-1,346.4	565.7	535.9	29.81	18.975		
6,900.0	6,823.4	6,864.8	6,698.3	20.8	28.4	11.29	-509.0	-1,368.2	574.1	543.8	30.34	18.923		
7,000.0	6,922.2	6,963.2	6,794.0	21.0	28.8	-46.70	-517.1	-1,389.7	582.4	552.0	30.36	19.186		
7,100.0	7,018.3	7,063.2	6,891.4	21.1	29.2	-67.49	-517.7	-1,411.6	591.1	561.3	29.77	19.855		
7,200.0	7,109.0	7,167.8	6,991.8	21.0	29.5	-76.24	-499.7	-1,434.1	600.1	571.1	29.00	20.691		
7,300.0	7,191.4	7,277.6	7,091.9	20.9	29.7	-81.23	-461.2	-1,456.6	609.0	580.8	28.18	21.608		
7,400.0	7,263.1	7,392.8	7,187.3	20.8	29.8	-84.55	-400.4	-1,478.0	617.3	589.8	27.44	22.492		
7,500.0	7,321.8	7,513.6	7,272.4	20.7	29.9	-86.90	-317.2	-1,497.1	624.4	597.5	26.91	23.208		
7,600.0	7,365.8	7,639.3	7,340.8	20.6	29.9	-88.54	-213.2	-1,512.5	629.9	603.2	26.67	23.621		
7,700.0	7,393.8	7,768.7	7,386.5	20.7	30.0	-89.56	-92.8	-1,522.7	633.1	606.4	26.80	23.628		
7,800.0	7,404.8	7,900.4	7,404.8	20.8	30.1	-89.99	37.2	-1,526.8	633.9	606.6	27.30	23.218		
7,900.0	7,405.0	8,004.3	7,405.0	21.1	30.3	-90.00	141.1	-1,526.9	633.0	604.8	28.19	22.453		
8,000.0	7,405.0	8,104.3	7,405.0	21.5	30.6	-90.00	241.1	-1,526.9	632.2	602.7	29.47	21.447		
8,100.0	7,405.0	8,204.3	7,405.0	22.1	31.0	-90.00	341.1	-1,526.9	631.3	600.2	31.10	20.298		
8,200.0	7,405.0	8,304.3	7,405.0	22.8	31.4	-90.00	441.1	-1,526.9	630.4	597.4	33.02	19.091		
8,300.0	7,405.0	8,404.3	7,405.0	23.6	32.0	-90.00	541.1	-1,526.9	629.5	594.3	35.19	17.892		
8,400.0	7,405.0	8,504.3	7,405.0	24.4	32.6	-90.00	641.1	-1,526.9	628.7	591.1	37.55	16.740		
8,500.0	7,405.0	8,604.3	7,405.0	25.4	33.3	-90.00	741.1	-1,526.9	627.8	587.7	40.09	15.659		
8,600.0	7,405.0	8,704.3	7,405.0	26.5	34.1	-90.00	841.1	-1,526.9	626.9	584.1	42.77	14.659		
8,700.0	7,405.0	8,804.2	7,405.0	27.6	35.0	-90.00	941.1	-1,526.9	626.0	580.5	45.55	13.743		
8,800.0	7,405.0	8,904.2	7,405.0	28.8	35.9	-90.00	1,041.1	-1,526.9	625.2	576.7	48.43	12.908		
8,900.0	7,405.0	9,004.2	7,405.0	30.1	36.9	-90.00	1,141.1	-1,526.9	624.3	572.9	51.39	12.148		
9,000.0	7,405.0	9,104.2	7,405.0	31.4	37.9	-90.00	1,241.1	-1,526.9	623.4	569.0	54.42	11.456		
9,100.0	7,405.0	9,204.2	7,405.0	32.7	39.0	-90.00	1,341.1	-1,526.9	622.6	565.1	57.50	10.828		
9,200.0	7,405.0	9,304.2	7,405.0	34.1	40.2	-90.00	1,441.1	-1,526.9	621.7	561.1	60.62	10.255		
9,300.0	7,405.0	9,404.2	7,405.0	35.5	41.4	-90.00	1,541.1	-1,526.9	620.8	557.0	63.79	9.732		
9,400.0	7,405.0	9,504.2	7,405.0	36.9	42.6	-90.00	1,641.1	-1,526.9	619.9	552.9	66.99	9.254		
9,500.0	7,405.0	9,604.2	7,405.0	38.4	43.9	-90.00	1,741.0	-1,526.9	619.1	548.8	70.22	8.816		
9,600.0	7,405.0	9,704.2	7,405.0	39.9	45.2	-90.00	1,841.0	-1,526.9	618.2	544.7	73.47	8.414		
9,700.0	7,405.0	9,804.2	7,405.0	41.4	46.5	-90.00	1,941.0	-1,526.9	617.3	540.6	76.75	8.043		
9,800.0	7,405.0	9,904.2	7,405.0	42.9	47.8	-90.00	2,041.0	-1,526.9	616.4	536.4	80.05	7.701		
9,900.0	7,405.0	10,004.2	7,405.0	44.5	49.2	-90.00	2,141.0	-1,526.9	615.6	532.2	83.36	7.384		
10,000.0	7,405.0	10,104.2	7,405.0	46.0	50.6	-90.00	2,241.0	-1,526.9	614.7	528.0	86.69	7.091		
10,100.0	7,405.0	10,204.2	7,405.0	47.6	52.1	-90.00	2,341.0	-1,526.9	613.8	523.8	90.03	6.818		
10,200.0	7,405.0	10,304.2	7,405.0	49.2	53.5	-90.00	2,441.0	-1,526.9	613.0	519.6	93.39	6.564		
10,300.0	7,405.0	10,404.2	7,405.0	50.8	55.0	-90.00	2,541.0	-1,526.9	612.1	515.3	96.75	6.326		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4C-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,405.0	10,504.2	7,405.0	52.4	56.5	-90.00	2,641.0	-1,526.9	611.2	511.1	100.13	6.104		
10,500.0	7,405.0	10,604.2	7,405.0	54.0	57.9	-90.00	2,741.0	-1,526.9	610.3	506.8	103.51	5.896		
10,600.0	7,405.0	10,704.2	7,405.0	55.6	59.5	-90.00	2,841.0	-1,526.9	609.5	502.6	106.90	5.701		
10,700.0	7,405.0	10,804.2	7,405.0	57.3	61.0	-90.00	2,941.0	-1,526.9	608.6	498.3	110.30	5.517		
10,800.0	7,405.0	10,904.2	7,405.0	58.9	62.5	-90.00	3,041.0	-1,526.9	607.7	494.0	113.71	5.344		
10,900.0	7,405.0	11,004.2	7,405.0	60.6	64.1	-90.00	3,141.0	-1,526.9	606.8	489.7	117.12	5.181		
11,000.0	7,405.0	11,104.2	7,405.0	62.2	65.6	-90.00	3,241.0	-1,526.9	606.0	485.4	120.54	5.027		
11,100.0	7,405.0	11,204.2	7,405.0	63.9	67.2	-90.00	3,341.0	-1,526.9	605.1	481.1	123.96	4.881		
11,200.0	7,405.0	11,304.2	7,405.0	65.5	68.8	-90.00	3,441.0	-1,526.9	604.2	476.8	127.39	4.743		
11,300.0	7,405.0	11,404.2	7,405.0	67.2	70.4	-90.00	3,541.0	-1,526.9	603.4	472.5	130.82	4.612		
11,400.0	7,405.0	11,504.1	7,405.0	68.9	72.0	-90.00	3,641.0	-1,526.9	602.5	468.2	134.26	4.487		
11,500.0	7,405.0	11,604.1	7,405.0	70.6	73.6	-90.00	3,741.0	-1,526.9	601.6	463.9	137.70	4.369		
11,600.0	7,405.0	11,704.1	7,405.0	72.2	75.2	-90.00	3,841.0	-1,526.9	600.7	459.6	141.14	4.256		
11,700.0	7,405.0	11,804.1	7,405.0	73.9	76.8	-90.00	3,941.0	-1,526.9	599.9	455.3	144.59	4.149		
11,800.0	7,405.0	11,904.1	7,405.0	75.6	78.4	-90.00	4,041.0	-1,526.9	599.0	451.0	148.03	4.046		
11,900.0	7,405.0	12,004.1	7,405.0	77.3	80.0	-90.00	4,141.0	-1,526.9	598.1	446.6	151.49	3.948		
12,000.0	7,405.0	12,104.1	7,405.0	79.0	81.7	-90.00	4,241.0	-1,526.9	597.2	442.3	154.94	3.855		
12,100.0	7,405.0	12,204.1	7,405.0	80.7	83.3	-90.00	4,340.9	-1,526.9	596.4	438.0	158.40	3.765		
12,200.0	7,405.0	12,304.1	7,405.0	82.4	84.9	-90.00	4,440.9	-1,526.9	595.5	433.6	161.85	3.679		
12,300.0	7,405.0	12,404.1	7,405.0	84.1	86.6	-90.00	4,540.9	-1,526.9	594.6	429.3	165.32	3.597		
12,400.0	7,405.0	12,504.1	7,405.0	85.8	88.2	-90.00	4,640.9	-1,526.9	593.7	425.0	168.78	3.518		
12,500.0	7,405.0	12,604.1	7,405.0	87.5	89.9	-90.00	4,740.9	-1,526.9	592.9	420.6	172.24	3.442		
12,600.0	7,405.0	12,704.1	7,405.0	89.2	91.6	-90.00	4,840.9	-1,526.9	592.0	416.3	175.71	3.369		
12,700.0	7,405.0	12,804.1	7,405.0	90.9	93.2	-90.00	4,940.9	-1,526.9	591.1	412.0	179.18	3.299		
12,800.0	7,405.0	12,904.1	7,405.0	92.6	94.9	-90.00	5,040.9	-1,526.9	590.3	407.6	182.65	3.232		
12,900.0	7,405.0	13,004.1	7,405.0	94.3	96.5	-90.00	5,140.9	-1,526.9	589.4	403.3	186.12	3.167		
13,000.0	7,405.0	13,104.1	7,405.0	96.0	98.2	-90.00	5,240.9	-1,526.9	588.5	398.9	189.59	3.104		
13,100.0	7,405.0	13,204.1	7,405.0	97.7	99.9	-90.00	5,340.9	-1,526.9	587.6	394.6	193.06	3.044		
13,200.0	7,405.0	13,304.1	7,405.0	99.5	101.6	-90.00	5,440.9	-1,526.9	586.8	390.2	196.54	2.986		
13,300.0	7,405.0	13,404.1	7,405.0	101.2	103.2	-90.00	5,540.9	-1,526.9	585.9	385.9	200.01	2.929		
13,400.0	7,405.0	13,504.1	7,405.0	102.9	104.9	-90.00	5,640.9	-1,526.9	585.0	381.5	203.49	2.875		
13,500.0	7,405.0	13,604.1	7,405.0	104.6	106.6	-90.00	5,740.9	-1,526.9	584.1	377.2	206.97	2.822		
13,600.0	7,405.0	13,704.1	7,405.0	106.3	108.3	-90.00	5,840.9	-1,526.9	583.3	372.8	210.45	2.772		
13,700.0	7,405.0	13,804.1	7,405.0	108.1	110.0	-90.00	5,940.9	-1,526.9	582.4	368.5	213.93	2.722		
13,784.4	7,405.0	13,888.5	7,405.0	109.5	111.4	-90.00	6,025.3	-1,526.9	582.2	365.8	216.37	2.691		
13,800.0	7,405.0	13,904.1	7,405.0	109.8	111.7	-90.00	6,040.9	-1,526.9	581.8	365.0	216.81	2.684		
13,900.0	7,405.0	14,004.0	7,405.0	111.5	113.4	-90.00	6,140.9	-1,526.9	584.1	365.5	218.66	2.671 SF		
14,000.0	7,405.0	14,103.9	7,405.0	113.2	115.1	-90.00	6,240.7	-1,526.9	589.9	369.7	220.25	2.678		
14,100.0	7,405.0	14,203.4	7,405.0	114.9	116.7	-90.00	6,340.2	-1,526.9	599.2	377.6	221.57	2.704		
14,200.0	7,405.0	14,302.6	7,405.0	116.6	118.4	-90.00	6,439.5	-1,526.9	611.6	388.0	223.62	2.735		
14,300.0	7,405.0	14,401.8	7,405.0	118.2	120.1	-90.00	6,538.6	-1,526.9	624.7	397.6	227.07	2.751		
14,400.0	7,405.0	14,500.9	7,405.0	119.9	121.8	-90.00	6,637.7	-1,526.9	637.8	407.2	230.53	2.767		
14,500.0	7,405.0	14,600.1	7,405.0	121.6	123.5	-90.00	6,736.9	-1,526.9	650.8	416.9	233.99	2.782		
14,600.0	7,405.0	14,699.2	7,405.0	123.3	125.2	-90.00	6,836.0	-1,526.9	663.9	426.5	237.44	2.796		
14,685.3	7,405.0	14,783.8	7,405.0	124.7	126.6	-90.00	6,920.6	-1,526.9	675.1	434.7	240.39	2.808		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4D-26H-P268 - HZ - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.04	0.3	-20.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.04	0.3	-20.1	20.1	19.9	0.24	84.862		
200.0	200.0	200.0	200.0	0.3	0.3	-89.04	0.3	-20.1	20.1	19.6	0.59	34.349		
300.0	300.0	300.0	300.0	0.5	0.5	-89.04	0.3	-20.1	20.1	19.2	0.94	21.532		
400.0	400.0	400.0	400.0	0.6	0.6	-89.04	0.3	-20.1	20.1	18.9	1.28	15.681		
500.0	500.0	500.0	500.0	0.8	0.8	-89.04	0.3	-20.1	20.1	18.5	1.63	12.330	CC, ES	
600.0	600.0	599.3	599.3	1.0	1.0	-90.83	-0.3	-21.7	21.7	19.8	1.98	10.971		
700.0	700.0	698.4	698.2	1.2	1.2	-94.89	-2.3	-26.5	26.6	24.3	2.33	11.414		
800.0	800.0	797.2	796.6	1.3	1.4	24.70	-5.5	-34.4	33.4	30.7	2.68	12.469		
900.0	899.8	895.7	894.4	1.5	1.6	23.52	-10.0	-45.4	40.4	37.3	3.03	13.329		
1,000.0	999.5	994.0	991.5	1.7	1.9	23.39	-15.8	-59.4	47.5	44.1	3.38	14.038		
1,100.0	1,098.7	1,092.0	1,087.8	2.0	2.2	23.92	-22.8	-76.5	54.7	51.0	3.74	14.613		
1,200.0	1,197.5	1,190.9	1,184.4	2.2	2.6	24.92	-30.9	-96.4	61.8	57.7	4.13	14.975		
1,300.0	1,296.2	1,290.7	1,281.7	2.5	3.0	25.94	-39.2	-116.6	68.6	64.0	4.53	15.145		
1,400.0	1,394.9	1,390.5	1,379.0	2.8	3.4	26.77	-47.5	-136.9	75.4	70.4	4.94	15.261		
1,500.0	1,493.6	1,490.2	1,476.4	3.1	3.8	27.46	-55.8	-157.1	82.2	76.8	5.36	15.337		
1,600.0	1,592.3	1,590.0	1,573.7	3.4	4.2	28.05	-64.1	-177.4	89.0	83.2	5.79	15.384		
1,700.0	1,691.0	1,689.8	1,671.0	3.7	4.6	28.55	-72.4	-197.7	95.8	89.6	6.22	15.412		
1,800.0	1,789.7	1,789.5	1,768.4	4.0	5.0	28.99	-80.7	-217.9	102.7	96.0	6.66	15.425		
1,900.0	1,888.4	1,889.3	1,865.7	4.3	5.4	29.37	-89.1	-238.2	109.5	102.4	7.10	15.427		
2,000.0	1,987.1	1,989.0	1,963.0	4.7	5.9	29.70	-97.4	-258.5	116.4	108.8	7.54	15.422		
2,100.0	2,085.8	2,088.8	2,060.4	5.0	6.3	30.00	-105.7	-278.7	123.2	115.2	7.99	15.412		
2,200.0	2,184.5	2,188.6	2,157.7	5.3	6.7	30.27	-114.0	-299.0	130.0	121.6	8.45	15.398		
2,300.0	2,283.2	2,288.3	2,255.0	5.6	7.1	30.51	-122.3	-319.2	136.9	128.0	8.90	15.382		
2,400.0	2,381.9	2,388.1	2,352.3	6.0	7.5	30.73	-130.6	-339.5	143.8	134.4	9.36	15.364		
2,500.0	2,480.6	2,487.9	2,449.7	6.3	8.0	30.93	-138.9	-359.8	150.6	140.8	9.82	15.345		
2,600.0	2,579.3	2,587.6	2,547.0	6.6	8.4	31.11	-147.2	-380.0	157.5	147.2	10.28	15.326		
2,700.0	2,678.0	2,687.4	2,644.3	6.9	8.8	31.28	-155.5	-400.3	164.3	153.6	10.74	15.306		
2,800.0	2,776.7	2,787.2	2,741.7	7.3	9.2	31.43	-163.8	-420.6	171.2	160.0	11.20	15.286		
2,900.0	2,875.4	2,886.9	2,839.0	7.6	9.7	31.57	-172.1	-440.8	178.1	166.4	11.66	15.266		
3,000.0	2,974.1	2,986.7	2,936.3	7.9	10.1	31.70	-180.4	-461.1	184.9	172.8	12.13	15.247		
3,100.0	3,072.8	3,086.4	3,033.7	8.2	10.5	31.82	-188.7	-481.3	191.8	179.2	12.59	15.228		
3,200.0	3,171.5	3,186.2	3,131.0	8.6	10.9	31.93	-197.0	-501.6	198.7	185.6	13.06	15.210		
3,300.0	3,270.2	3,286.0	3,228.3	8.9	11.4	32.04	-205.3	-521.9	205.5	192.0	13.53	15.192		
3,400.0	3,368.9	3,385.7	3,325.6	9.2	11.8	32.14	-213.7	-542.1	212.4	198.4	14.00	15.174		
3,500.0	3,467.6	3,485.5	3,423.0	9.6	12.2	32.23	-222.0	-562.4	219.3	204.8	14.47	15.157		
3,600.0	3,566.3	3,585.3	3,520.3	9.9	12.6	32.31	-230.3	-582.7	226.1	211.2	14.93	15.141		
3,700.0	3,665.0	3,685.0	3,617.6	10.2	13.1	32.40	-238.6	-602.9	233.0	217.6	15.40	15.125		
3,800.0	3,763.7	3,784.8	3,715.0	10.6	13.5	32.47	-246.9	-623.2	239.9	224.0	15.87	15.109		
3,900.0	3,862.4	3,884.5	3,812.3	10.9	13.9	32.55	-255.2	-643.4	246.7	230.4	16.35	15.095		
4,000.0	3,961.1	3,984.3	3,909.6	11.2	14.3	32.61	-263.5	-663.7	253.6	236.8	16.82	15.080		
4,100.0	4,059.8	4,084.1	4,007.0	11.5	14.8	32.68	-271.8	-684.0	260.5	243.2	17.29	15.066		
4,200.0	4,158.5	4,183.8	4,104.3	11.9	15.2	32.74	-280.1	-704.2	267.3	249.6	17.76	15.053		
4,300.0	4,257.2	4,283.6	4,201.6	12.2	15.6	32.80	-288.4	-724.5	274.2	256.0	18.23	15.040		
4,400.0	4,355.9	4,383.4	4,298.9	12.5	16.0	32.86	-296.7	-744.8	281.1	262.4	18.70	15.027		
4,500.0	4,454.6	4,483.1	4,396.3	12.9	16.5	32.91	-305.0	-765.0	287.9	268.8	19.18	15.015		
4,600.0	4,553.3	4,582.9	4,493.6	13.2	16.9	32.96	-313.3	-785.3	294.8	275.2	19.65	15.003		
4,700.0	4,652.0	4,682.7	4,590.9	13.5	17.3	33.01	-321.6	-805.6	301.7	281.6	20.12	14.992		
4,800.0	4,750.7	4,782.4	4,688.3	13.9	17.7	33.05	-329.9	-825.8	308.6	288.0	20.60	14.981		
4,900.0	4,849.4	4,882.2	4,785.6	14.2	18.2	33.10	-338.3	-846.1	315.4	294.4	21.07	14.970		
5,000.0	4,948.1	4,981.9	4,882.9	14.5	18.6	33.14	-346.6	-866.3	322.3	300.8	21.54	14.960		
5,100.0	5,046.8	5,081.7	4,980.3	14.9	19.0	33.18	-354.9	-886.6	329.2	307.2	22.02	14.950		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4D-26H-P268 - HZ - Plan #3													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	5,145.5	5,181.5	5,077.6	15.2	19.4	33.22	-363.2	-906.9	336.1	313.6	22.49	14.940		
5,300.0	5,244.2	5,281.2	5,174.9	15.5	19.9	33.26	-371.5	-927.1	342.9	320.0	22.97	14.931		
5,400.0	5,342.9	5,381.0	5,272.2	15.9	20.3	33.29	-379.8	-947.4	349.8	326.4	23.44	14.922		
5,500.0	5,441.6	5,480.8	5,369.6	16.2	20.7	33.33	-388.1	-967.7	356.7	332.8	23.92	14.913		
5,600.0	5,540.3	5,580.5	5,466.9	16.5	21.1	33.36	-396.4	-987.9	363.5	339.2	24.39	14.905		
5,700.0	5,639.0	5,680.3	5,564.2	16.8	21.6	33.39	-404.7	-1,008.2	370.4	345.5	24.87	14.896		
5,800.0	5,737.7	5,780.1	5,661.6	17.2	22.0	33.42	-413.0	-1,028.4	377.3	351.9	25.34	14.888		
5,900.0	5,836.4	5,879.8	5,758.9	17.5	22.4	33.45	-421.3	-1,048.7	384.2	358.3	25.82	14.880		
6,000.0	5,935.1	5,979.6	5,856.2	17.8	22.9	33.48	-429.6	-1,069.0	391.0	364.7	26.29	14.873		
6,100.0	6,033.8	6,079.3	5,953.6	18.2	23.3	33.51	-437.9	-1,089.2	397.9	371.1	26.77	14.865		
6,200.0	6,132.5	6,179.1	6,050.9	18.5	23.7	33.53	-446.2	-1,109.5	404.8	377.5	27.24	14.858		
6,300.0	6,231.2	6,278.9	6,148.2	18.8	24.1	33.56	-454.5	-1,129.8	411.7	383.9	27.72	14.851		
6,400.0	6,329.9	6,378.6	6,245.5	19.2	24.6	33.58	-462.9	-1,150.0	418.5	390.3	28.19	14.845		
6,500.0	6,428.6	6,478.4	6,342.9	19.5	25.0	33.61	-471.2	-1,170.3	425.4	396.7	28.67	14.838		
6,600.0	6,527.3	6,578.2	6,440.2	19.8	25.4	33.63	-479.5	-1,190.5	432.3	403.1	29.15	14.832		
6,700.0	6,626.0	6,677.9	6,537.5	20.2	25.8	33.65	-487.8	-1,210.8	439.2	409.5	29.62	14.825		
6,800.0	6,724.7	6,777.7	6,634.9	20.5	26.3	33.68	-496.1	-1,231.1	446.0	415.9	30.10	14.819		
6,900.0	6,823.4	6,877.4	6,732.2	20.8	26.7	12.11	-504.4	-1,251.3	452.9	422.3	30.59	14.804		
7,000.0	6,922.2	6,976.0	6,828.4	21.0	27.1	-46.44	-512.6	-1,271.4	459.4	429.0	30.40	15.112		
7,100.0	7,018.3	7,072.7	6,922.8	21.1	27.5	-68.62	-519.5	-1,291.0	467.0	437.5	29.44	15.860		
7,200.0	7,109.0	7,175.5	7,023.1	21.0	27.8	-79.13	-512.4	-1,311.9	476.3	448.0	28.33	16.812		
7,300.0	7,191.4	7,285.8	7,127.3	20.9	28.1	-85.81	-484.5	-1,333.6	487.0	459.6	27.37	17.795		
7,400.0	7,263.1	7,404.6	7,231.6	20.8	28.2	-90.71	-432.4	-1,355.3	498.1	471.5	26.64	18.697		
7,500.0	7,321.8	7,532.8	7,329.7	20.7	28.2	-94.48	-352.8	-1,375.7	508.7	482.5	26.21	19.411		
7,600.0	7,365.8	7,670.4	7,412.9	20.6	28.2	-97.28	-245.1	-1,393.1	517.4	491.4	26.08	19.844		
7,700.0	7,393.8	7,815.7	7,470.9	20.7	28.3	-99.10	-112.8	-1,405.1	523.2	496.9	26.26	19.925		
7,800.0	7,404.8	7,965.8	7,494.7	20.8	28.4	-99.86	34.9	-1,410.1	524.9	498.1	26.75	19.623		
7,900.0	7,405.0	8,072.0	7,495.0	21.1	28.6	-99.89	141.1	-1,410.1	524.1	496.4	27.65	18.957		
8,000.0	7,405.0	8,172.0	7,495.0	21.5	28.9	-99.91	241.1	-1,410.1	523.2	494.3	28.92	18.092		
8,100.0	7,405.0	8,272.0	7,495.0	22.1	29.3	-99.92	341.1	-1,410.1	522.3	491.8	30.53	17.108		
8,200.0	7,405.0	8,372.0	7,495.0	22.8	29.8	-99.94	441.1	-1,410.1	521.5	489.0	32.43	16.079		
8,300.0	7,405.0	8,472.0	7,495.0	23.6	30.4	-99.96	541.1	-1,410.1	520.6	486.0	34.58	15.057		
8,400.0	7,405.0	8,572.0	7,495.0	24.4	31.1	-99.97	641.1	-1,410.1	519.8	482.8	36.92	14.078		
8,500.0	7,405.0	8,672.0	7,495.0	25.4	31.8	-99.99	741.1	-1,410.1	518.9	479.5	39.43	13.162		
8,600.0	7,405.0	8,772.0	7,495.0	26.5	32.6	-100.01	841.1	-1,410.1	518.0	476.0	42.07	12.315		
8,700.0	7,405.0	8,872.0	7,495.0	27.6	33.6	-100.02	941.1	-1,410.1	517.2	472.4	44.82	11.540		
8,800.0	7,405.0	8,972.0	7,495.0	28.8	34.5	-100.04	1,041.1	-1,410.1	516.3	468.7	47.66	10.833		
8,900.0	7,405.0	9,072.0	7,495.0	30.1	35.6	-100.06	1,141.1	-1,410.1	515.5	464.9	50.58	10.191		
9,000.0	7,405.0	9,172.0	7,495.0	31.4	36.6	-100.07	1,241.1	-1,410.1	514.6	461.0	53.56	9.608		
9,100.0	7,405.0	9,272.0	7,495.0	32.7	37.8	-100.09	1,341.1	-1,410.1	513.7	457.1	56.59	9.078		
9,200.0	7,405.0	9,372.0	7,495.0	34.1	39.0	-100.11	1,441.1	-1,410.1	512.9	453.2	59.67	8.595		
9,300.0	7,405.0	9,472.0	7,495.0	35.5	40.2	-100.12	1,541.1	-1,410.1	512.0	449.2	62.79	8.154		
9,400.0	7,405.0	9,572.0	7,495.0	36.9	41.5	-100.14	1,641.1	-1,410.1	511.2	445.2	65.94	7.751		
9,500.0	7,405.0	9,672.0	7,495.0	38.4	42.8	-100.16	1,741.0	-1,410.1	510.3	441.2	69.12	7.382		
9,600.0	7,405.0	9,772.0	7,495.0	39.9	44.1	-100.18	1,841.0	-1,410.1	509.4	437.1	72.33	7.044		
9,700.0	7,405.0	9,872.0	7,495.0	41.4	45.5	-100.19	1,941.0	-1,410.1	508.6	433.0	75.55	6.731		
9,800.0	7,405.0	9,971.9	7,495.0	42.9	46.9	-100.21	2,041.0	-1,410.1	507.7	428.9	78.80	6.443		
9,900.0	7,405.0	10,071.9	7,495.0	44.5	48.3	-100.23	2,141.0	-1,410.1	506.9	424.8	82.06	6.177		
10,000.0	7,405.0	10,171.9	7,495.0	46.0	49.7	-100.25	2,241.0	-1,410.1	506.0	420.7	85.33	5.930		
10,100.0	7,405.0	10,271.9	7,495.0	47.6	51.2	-100.26	2,341.0	-1,410.1	505.2	416.5	88.62	5.700		
10,200.0	7,405.0	10,371.9	7,495.0	49.2	52.6	-100.28	2,441.0	-1,410.1	504.3	412.4	91.92	5.486		
10,300.0	7,405.0	10,471.9	7,495.0	50.8	54.1	-100.30	2,541.0	-1,410.1	503.4	408.2	95.23	5.287		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4D-26H-P268 - HZ - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,405.0	10,571.9	7,495.0	52.4	55.6	-100.32	2,641.0	-1,410.1	502.6	404.0	98.55	5.100		
10,500.0	7,405.0	10,671.9	7,495.0	54.0	57.2	-100.33	2,741.0	-1,410.1	501.7	399.8	101.88	4.925		
10,600.0	7,405.0	10,771.9	7,495.0	55.6	58.7	-100.35	2,841.0	-1,410.1	500.9	395.6	105.21	4.761		
10,700.0	7,405.0	10,871.9	7,495.0	57.3	60.2	-100.37	2,941.0	-1,410.1	500.0	391.5	108.55	4.606		
10,800.0	7,405.0	10,971.9	7,495.0	58.9	61.8	-100.39	3,041.0	-1,410.1	499.1	387.2	111.90	4.461		
10,900.0	7,405.0	11,071.9	7,495.0	60.6	63.4	-100.41	3,141.0	-1,410.1	498.3	383.0	115.25	4.324		
11,000.0	7,405.0	11,171.9	7,495.0	62.2	64.9	-100.42	3,241.0	-1,410.1	497.4	378.8	118.60	4.194		
11,100.0	7,405.0	11,271.9	7,495.0	63.9	66.5	-100.44	3,341.0	-1,410.1	496.6	374.6	121.97	4.071		
11,200.0	7,405.0	11,371.9	7,495.0	65.5	68.1	-100.46	3,441.0	-1,410.1	495.7	370.4	125.33	3.955		
11,300.0	7,405.0	11,471.9	7,495.0	67.2	69.7	-100.48	3,541.0	-1,410.1	494.9	366.1	128.70	3.845		
11,400.0	7,405.0	11,571.9	7,495.0	68.9	71.3	-100.50	3,641.0	-1,410.1	494.0	361.9	132.07	3.740		
11,500.0	7,405.0	11,671.9	7,495.0	70.6	72.9	-100.52	3,741.0	-1,410.1	493.1	357.7	135.45	3.641		
11,600.0	7,405.0	11,771.9	7,495.0	72.2	74.6	-100.53	3,841.0	-1,410.1	492.3	353.4	138.83	3.546		
11,700.0	7,405.0	11,871.9	7,495.0	73.9	76.2	-100.55	3,941.0	-1,410.1	491.4	349.2	142.21	3.456		
11,800.0	7,405.0	11,971.9	7,495.0	75.6	77.8	-100.57	4,041.0	-1,410.1	490.6	345.0	145.59	3.369		
11,900.0	7,405.0	12,071.9	7,495.0	77.3	79.5	-100.59	4,141.0	-1,410.1	489.7	340.7	148.98	3.287		
12,000.0	7,405.0	12,171.9	7,495.0	79.0	81.1	-100.61	4,241.0	-1,410.1	488.8	336.5	152.37	3.208		
12,100.0	7,405.0	12,271.9	7,495.0	80.7	82.8	-100.63	4,340.9	-1,410.1	488.0	332.2	155.75	3.133		
12,200.0	7,405.0	12,371.9	7,495.0	82.4	84.4	-100.65	4,440.9	-1,410.1	487.1	328.0	159.15	3.061		
12,300.0	7,405.0	12,471.9	7,495.0	84.1	86.1	-100.67	4,540.9	-1,410.1	486.3	323.7	162.54	2.992		
12,400.0	7,405.0	12,571.8	7,495.0	85.8	87.7	-100.69	4,640.9	-1,410.1	485.4	319.5	165.93	2.925		
12,500.0	7,405.0	12,671.8	7,495.0	87.5	89.4	-100.70	4,740.9	-1,410.1	484.6	315.2	169.33	2.862		
12,600.0	7,405.0	12,771.8	7,495.0	89.2	91.1	-100.72	4,840.9	-1,410.1	483.7	311.0	172.73	2.800		
12,700.0	7,405.0	12,871.8	7,495.0	90.9	92.7	-100.74	4,940.9	-1,410.1	482.8	306.7	176.12	2.742		
12,800.0	7,405.0	12,971.8	7,495.0	92.6	94.4	-100.76	5,040.9	-1,410.1	482.0	302.5	179.52	2.685		
12,900.0	7,405.0	13,071.8	7,495.0	94.3	96.1	-100.78	5,140.9	-1,410.1	481.1	298.2	182.92	2.630		
13,000.0	7,405.0	13,171.8	7,495.0	96.0	97.8	-100.80	5,240.9	-1,410.1	480.3	293.9	186.32	2.578		
13,100.0	7,405.0	13,271.8	7,495.0	97.7	99.4	-100.82	5,340.9	-1,410.1	479.4	289.7	189.72	2.527		
13,200.0	7,405.0	13,371.8	7,495.0	99.5	101.1	-100.84	5,440.9	-1,410.1	478.6	285.4	193.12	2.478		
13,300.0	7,405.0	13,471.8	7,495.0	101.2	102.8	-100.86	5,540.9	-1,410.1	477.7	281.2	196.53	2.431		
13,400.0	7,405.0	13,571.8	7,495.0	102.9	104.5	-100.88	5,640.9	-1,410.1	476.8	276.9	199.93	2.385		
13,500.0	7,405.0	13,671.8	7,495.0	104.6	106.2	-100.90	5,740.9	-1,410.1	476.0	272.6	203.33	2.341		
13,600.0	7,405.0	13,771.8	7,495.0	106.3	107.9	-100.92	5,840.9	-1,410.1	475.1	268.4	206.74	2.298		
13,700.0	7,405.0	13,871.8	7,495.0	108.1	109.6	-100.94	5,940.9	-1,410.1	474.3	264.1	210.14	2.257		
13,784.4	7,405.0	13,956.2	7,495.0	109.5	111.0	-100.94	6,025.3	-1,410.1	474.0	261.5	212.56	2.230		
13,800.0	7,405.0	13,971.8	7,495.0	109.8	111.3	-100.95	6,040.9	-1,410.1	473.7	260.7	212.99	2.224		
13,900.0	7,405.0	14,071.8	7,495.0	111.5	113.0	-100.91	6,140.9	-1,410.1	476.0	261.1	214.89	2.215		
14,000.0	7,405.0	14,171.6	7,495.0	113.2	114.7	-100.80	6,240.7	-1,410.1	481.6	265.1	216.58	2.224		
14,100.0	7,405.0	14,271.2	7,495.0	114.9	116.4	-100.63	6,340.2	-1,410.1	490.7	272.7	218.05	2.251		
14,200.0	7,405.0	14,370.4	7,495.0	116.6	118.1	-100.39	6,439.5	-1,410.1	503.0	282.7	220.26	2.284		
14,300.0	7,405.0	14,469.5	7,495.0	118.2	119.7	-100.13	6,538.6	-1,410.1	515.9	292.0	223.84	2.305		
14,400.0	7,405.0	14,883.2	7,495.0	119.9	125.9	-101.28	6,921.3	-1,306.8	512.8	281.4	231.39	2.216		
14,500.0	7,405.0	14,883.2	7,495.0	121.6	125.9	-101.28	6,921.3	-1,306.8	477.2	244.1	233.10	2.047		
14,600.0	7,405.0	14,883.2	7,495.0	123.3	125.9	-101.28	6,921.3	-1,306.8	460.8	226.0	234.82	1.963		
14,626.6	7,405.0	14,883.2	7,495.0	123.8	125.9	-101.28	6,921.3	-1,306.8	460.1	224.8	235.27	1.955 SF		
14,685.3	7,405.0	14,883.2	7,495.0	124.7	125.9	-101.28	6,921.3	-1,306.8	463.8	227.5	236.28	1.963		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #2													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	-88.12	0.3	-10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	-88.12	0.3	-10.1	10.1	9.8	0.24	42.448		
200.0	200.0	200.0	200.0	0.3	0.3	-88.12	0.3	-10.1	10.1	9.5	0.59	17.181		
300.0	300.0	300.0	300.0	0.5	0.5	-88.12	0.3	-10.1	10.1	9.1	0.94	10.770		
400.0	400.0	400.0	400.0	0.6	0.6	-88.12	0.3	-10.1	10.1	8.8	1.28	7.844		
500.0	500.0	500.0	500.0	0.8	0.8	-88.12	0.3	-10.1	10.1	8.4	1.63	6.168		
600.0	600.0	600.0	600.0	1.0	1.0	-88.12	0.3	-10.1	10.1	8.1	1.98	5.082 CC, ES		
700.0	700.0	699.6	699.6	1.2	1.2	-91.15	-0.2	-11.7	11.7	9.4	2.33	5.025		
800.0	800.0	799.1	799.0	1.3	1.4	28.88	-1.9	-16.6	15.2	12.5	2.68	5.674		
900.0	899.8	898.5	897.9	1.5	1.6	29.55	-4.7	-24.8	19.0	16.0	3.03	6.268		
1,000.0	999.5	997.7	996.4	1.7	1.8	31.87	-8.7	-36.1	23.1	19.7	3.39	6.813		
1,100.0	1,098.7	1,096.8	1,094.3	2.0	2.1	34.99	-13.7	-50.7	27.6	23.8	3.78	7.308		
1,200.0	1,197.5	1,196.4	1,192.3	2.2	2.4	38.97	-19.6	-67.7	31.9	27.7	4.20	7.580		
1,300.0	1,296.2	1,296.3	1,290.5	2.5	2.7	42.66	-25.5	-84.8	35.9	31.2	4.68	7.667		
1,400.0	1,394.9	1,396.2	1,388.8	2.8	3.0	45.60	-31.4	-101.9	40.0	34.8	5.18	7.717		
1,500.0	1,493.6	1,496.1	1,487.0	3.1	3.4	47.99	-37.3	-119.0	44.2	38.5	5.71	7.739		
1,600.0	1,592.3	1,596.0	1,585.2	3.4	3.7	49.97	-43.3	-136.2	48.4	42.2	6.26	7.744		
1,700.0	1,691.0	1,695.9	1,683.5	3.7	4.1	51.62	-49.2	-153.3	52.8	45.9	6.82	7.738		
1,800.0	1,789.7	1,795.8	1,781.7	4.0	4.4	53.02	-55.1	-170.4	57.1	49.7	7.39	7.726		
1,900.0	1,888.4	1,895.7	1,880.0	4.3	4.8	54.22	-61.0	-187.5	61.5	53.5	7.97	7.710		
2,000.0	1,987.1	1,995.6	1,978.2	4.7	5.1	55.26	-67.0	-204.7	65.9	57.3	8.57	7.692		
2,100.0	2,085.8	2,095.5	2,076.4	5.0	5.5	56.18	-72.9	-221.8	70.3	61.1	9.16	7.673		
2,200.0	2,184.5	2,195.4	2,174.7	5.3	5.8	56.98	-78.8	-238.9	74.7	65.0	9.76	7.654		
2,300.0	2,283.2	2,295.3	2,272.9	5.6	6.2	57.69	-84.7	-256.1	79.2	68.8	10.37	7.635		
2,400.0	2,381.9	2,395.2	2,371.2	6.0	6.5	58.33	-90.6	-273.2	83.6	72.7	10.98	7.618		
2,500.0	2,480.6	2,495.1	2,469.4	6.3	6.9	58.90	-96.6	-290.3	88.1	76.5	11.59	7.601		
2,600.0	2,579.3	2,595.0	2,567.6	6.6	7.3	59.42	-102.5	-307.4	92.6	80.4	12.21	7.584		
2,700.0	2,678.0	2,694.9	2,665.9	6.9	7.6	59.89	-108.4	-324.6	97.1	84.3	12.83	7.569		
2,800.0	2,776.7	2,794.8	2,764.1	7.3	8.0	60.32	-114.3	-341.7	101.6	88.1	13.44	7.555		
2,900.0	2,875.4	2,894.6	2,862.4	7.6	8.3	60.71	-120.3	-358.8	106.1	92.0	14.07	7.541		
3,000.0	2,974.1	2,994.5	2,960.6	7.9	8.7	61.07	-126.2	-376.0	110.6	95.9	14.69	7.528		
3,100.0	3,072.8	3,094.4	3,058.8	8.2	9.1	61.40	-132.1	-393.1	115.1	99.8	15.31	7.516		
3,200.0	3,171.5	3,194.3	3,157.1	8.6	9.4	61.71	-138.0	-410.2	119.6	103.6	15.93	7.504		
3,300.0	3,270.2	3,294.2	3,255.3	8.9	9.8	61.99	-143.9	-427.3	124.1	107.5	16.56	7.493		
3,400.0	3,368.9	3,394.1	3,353.5	9.2	10.2	62.26	-149.9	-444.5	128.6	111.4	17.19	7.483		
3,500.0	3,467.6	3,494.0	3,451.8	9.6	10.5	62.50	-155.8	-461.6	133.1	115.3	17.81	7.473		
3,600.0	3,566.3	3,593.9	3,550.0	9.9	10.9	62.73	-161.7	-478.7	137.6	119.2	18.44	7.464		
3,700.0	3,665.0	3,693.8	3,648.3	10.2	11.2	62.95	-167.6	-495.9	142.2	123.1	19.07	7.455		
3,800.0	3,763.7	3,793.7	3,746.5	10.6	11.6	63.15	-173.6	-513.0	146.7	127.0	19.70	7.447		
3,900.0	3,862.4	3,893.6	3,844.7	10.9	12.0	63.34	-179.5	-530.1	151.2	130.9	20.32	7.439		
4,000.0	3,961.1	3,993.5	3,943.0	11.2	12.3	63.52	-185.4	-547.2	155.7	134.8	20.95	7.432		
4,100.0	4,059.8	4,093.4	4,041.2	11.5	12.7	63.69	-191.3	-564.4	160.3	138.7	21.58	7.425		
4,200.0	4,158.5	4,193.3	4,139.5	11.9	13.1	63.85	-197.2	-581.5	164.8	142.6	22.21	7.418		
4,300.0	4,257.2	4,293.2	4,237.7	12.2	13.4	64.00	-203.2	-598.6	169.3	146.5	22.84	7.412		
4,400.0	4,355.9	4,393.1	4,335.9	12.5	13.8	64.14	-209.1	-615.7	173.8	150.4	23.47	7.406		
4,500.0	4,454.6	4,493.0	4,434.2	12.9	14.2	64.28	-215.0	-632.9	178.4	154.3	24.11	7.400		
4,600.0	4,553.3	4,592.9	4,532.4	13.2	14.5	64.41	-220.9	-650.0	182.9	158.2	24.74	7.394		
4,700.0	4,652.0	4,692.8	4,630.6	13.5	14.9	64.53	-226.9	-667.1	187.4	162.1	25.37	7.389		
4,800.0	4,750.7	4,792.7	4,728.9	13.9	15.2	64.65	-232.8	-684.3	192.0	166.0	26.00	7.384		
4,900.0	4,849.4	4,892.6	4,827.1	14.2	15.6	64.76	-238.7	-701.4	196.5	169.9	26.63	7.379		
5,000.0	4,948.1	4,992.5	4,925.4	14.5	16.0	64.87	-244.6	-718.5	201.0	173.8	27.26	7.374		
5,100.0	5,046.8	5,092.4	5,023.6	14.9	16.3	64.97	-250.5	-735.6	205.6	177.7	27.90	7.370		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #2													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	5,145.5	5,192.3	5,121.8	15.2	16.7	65.07	-256.5	-752.8	210.1	181.6	28.53	7.365		
5,300.0	5,244.2	5,292.2	5,220.1	15.5	17.1	65.16	-262.4	-769.9	214.7	185.5	29.16	7.361		
5,400.0	5,342.9	5,392.1	5,318.3	15.9	17.4	65.25	-268.3	-787.0	219.2	189.4	29.79	7.357		
5,500.0	5,441.6	5,492.0	5,416.6	16.2	17.8	65.34	-274.2	-804.2	223.7	193.3	30.43	7.353		
5,600.0	5,540.3	5,591.9	5,514.8	16.5	18.2	65.42	-280.2	-821.3	228.3	197.2	31.06	7.350		
5,700.0	5,639.0	5,691.7	5,613.0	16.8	18.5	65.50	-286.1	-838.4	232.8	201.1	31.69	7.346		
5,800.0	5,737.7	5,791.6	5,711.3	17.2	18.9	65.58	-292.0	-855.5	237.3	205.0	32.32	7.343		
5,900.0	5,836.4	5,891.5	5,809.5	17.5	19.3	65.65	-297.9	-872.7	241.9	208.9	32.96	7.339		
6,000.0	5,935.1	5,991.4	5,907.8	17.8	19.6	65.72	-303.8	-889.8	246.4	212.8	33.59	7.336		
6,100.0	6,033.8	6,091.3	6,006.0	18.2	20.0	65.79	-309.8	-906.9	251.0	216.7	34.22	7.333		
6,200.0	6,132.5	6,191.2	6,104.2	18.5	20.3	65.86	-315.7	-924.1	255.5	220.7	34.86	7.330		
6,300.0	6,231.2	6,291.1	6,202.5	18.8	20.7	65.92	-321.6	-941.2	260.1	224.6	35.49	7.327		
6,400.0	6,329.9	6,391.0	6,300.7	19.2	21.1	65.98	-327.5	-958.3	264.6	228.5	36.13	7.324		
6,500.0	6,428.6	6,490.9	6,398.9	19.5	21.4	66.04	-333.5	-975.4	269.1	232.4	36.76	7.322		
6,600.0	6,527.3	6,590.8	6,497.2	19.8	21.8	66.10	-339.4	-992.6	273.7	236.3	37.39	7.319		
6,700.0	6,626.0	6,690.7	6,595.4	20.2	22.2	66.15	-345.3	-1,009.7	278.2	240.2	38.03	7.316		
6,800.0	6,724.7	6,790.6	6,693.7	20.5	22.5	66.21	-351.2	-1,026.8	282.8	244.1	38.66	7.314		
6,900.0	6,823.4	6,890.5	6,791.9	20.8	22.9	44.47	-357.1	-1,043.9	286.7	247.5	39.24	7.307		
7,000.0	6,922.2	6,989.6	6,889.3	21.0	23.3	-15.64	-363.0	-1,060.9	283.1	244.6	38.55	7.346		
7,100.0	7,018.3	7,085.1	6,983.3	21.1	23.6	-41.34	-368.7	-1,077.3	272.0	235.8	36.22	7.511		
7,200.0	7,109.0	7,169.6	7,066.4	21.0	23.9	-57.68	-372.6	-1,091.8	258.7	225.8	32.88	7.866		
7,300.0	7,191.4	7,250.0	7,145.3	20.9	24.1	-70.87	-366.9	-1,105.6	251.4	221.6	29.75	8.449		
7,330.3	7,214.4	7,274.9	7,169.5	20.9	24.2	-74.55	-362.8	-1,109.8	250.9	222.0	28.96	8.666		
7,400.0	7,263.1	7,335.1	7,227.2	20.8	24.3	-82.77	-348.6	-1,119.8	253.4	225.9	27.48	9.223		
7,500.0	7,321.8	7,428.3	7,312.6	20.7	24.4	-93.67	-314.8	-1,134.7	265.7	239.5	26.15	10.159		
7,600.0	7,365.8	7,532.0	7,399.9	20.6	24.6	-103.45	-261.3	-1,150.0	287.1	261.7	25.35	11.326		
7,700.0	7,393.8	7,650.5	7,486.2	20.7	24.7	-112.05	-181.7	-1,165.0	314.8	290.2	24.61	12.795		
7,800.0	7,404.8	7,789.3	7,564.2	20.8	24.8	-119.43	-68.2	-1,178.6	344.8	321.0	23.86	14.456		
7,900.0	7,405.0	7,957.2	7,619.3	21.1	25.2	-126.02	89.5	-1,188.2	367.8	344.2	23.52	15.635		
8,000.0	7,405.0	8,109.5	7,630.0	21.5	25.6	-127.30	241.1	-1,190.1	371.3	346.6	24.63	15.075		
8,100.0	7,405.0	8,209.5	7,630.0	22.1	26.1	-127.39	341.1	-1,190.1	370.6	344.6	25.98	14.265		
8,200.0	7,405.0	8,309.5	7,630.0	22.8	26.7	-127.47	441.1	-1,190.1	369.9	342.3	27.54	13.429		
8,300.0	7,405.0	8,409.5	7,630.0	23.6	27.3	-127.55	541.1	-1,190.1	369.2	339.9	29.29	12.606		
8,400.0	7,405.0	8,509.5	7,630.0	24.4	28.1	-127.63	641.1	-1,190.1	368.5	337.3	31.18	11.820		
8,500.0	7,405.0	8,609.5	7,630.0	25.4	28.9	-127.72	741.1	-1,190.1	367.8	334.6	33.19	11.083		
8,600.0	7,405.0	8,709.5	7,630.0	26.5	29.8	-127.80	841.1	-1,190.1	367.1	331.8	35.29	10.402		
8,700.0	7,405.0	8,809.5	7,630.0	27.6	30.8	-127.88	941.1	-1,190.1	366.4	328.9	37.48	9.776		
8,800.0	7,405.0	8,909.5	7,630.0	28.8	31.9	-127.97	1,041.1	-1,190.1	365.7	326.0	39.74	9.205		
8,900.0	7,405.0	9,009.5	7,630.0	30.1	33.0	-128.05	1,141.1	-1,190.1	365.1	323.0	42.04	8.683		
9,000.0	7,405.0	9,109.5	7,630.0	31.4	34.2	-128.14	1,241.1	-1,190.1	364.4	320.0	44.39	8.208		
9,100.0	7,405.0	9,209.5	7,630.0	32.7	35.4	-128.22	1,341.1	-1,190.1	363.7	316.9	46.78	7.774		
9,200.0	7,405.0	9,309.5	7,630.0	34.1	36.7	-128.31	1,441.1	-1,190.1	363.0	313.8	49.20	7.378		
9,300.0	7,405.0	9,409.5	7,630.0	35.5	38.0	-128.39	1,541.1	-1,190.1	362.3	310.7	51.64	7.016		
9,400.0	7,405.0	9,509.5	7,630.0	36.9	39.3	-128.48	1,641.0	-1,190.1	361.6	307.5	54.10	6.684		
9,500.0	7,405.0	9,609.5	7,630.0	38.4	40.7	-128.56	1,741.0	-1,190.1	360.9	304.4	56.58	6.380		
9,600.0	7,405.0	9,709.5	7,630.0	39.9	42.1	-128.65	1,841.0	-1,190.1	360.3	301.2	59.07	6.099		
9,700.0	7,405.0	9,809.4	7,630.0	41.4	43.5	-128.74	1,941.0	-1,190.1	359.6	298.0	61.57	5.840		
9,800.0	7,405.0	9,909.4	7,630.0	42.9	45.0	-128.82	2,041.0	-1,190.1	358.9	294.8	64.08	5.601		
9,900.0	7,405.0	10,009.4	7,630.0	44.5	46.5	-128.91	2,141.0	-1,190.1	358.2	291.6	66.60	5.379		
10,000.0	7,405.0	10,109.4	7,630.0	46.0	48.0	-129.00	2,241.0	-1,190.1	357.5	288.4	69.12	5.172		
10,100.0	7,405.0	10,209.4	7,630.0	47.6	49.5	-129.09	2,341.0	-1,190.1	356.9	285.2	71.65	4.981		
10,200.0	7,405.0	10,309.4	7,630.0	49.2	51.0	-129.18	2,441.0	-1,190.1	356.2	282.0	74.18	4.802		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #2													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	7,405.0	10,409.4	7,630.0	50.8	52.5	-129.26	2,541.0	-1,190.1	355.5	278.8	76.71	4.634		
10,400.0	7,405.0	10,509.4	7,630.0	52.4	54.1	-129.35	2,641.0	-1,190.1	354.8	275.6	79.24	4.478		
10,500.0	7,405.0	10,609.4	7,630.0	54.0	55.6	-129.44	2,741.0	-1,190.1	354.2	272.4	81.78	4.331		
10,600.0	7,405.0	10,709.4	7,630.0	55.6	57.2	-129.53	2,841.0	-1,190.1	353.5	269.2	84.31	4.193		
10,700.0	7,405.0	10,809.4	7,630.0	57.3	58.8	-129.62	2,941.0	-1,190.1	352.8	266.0	86.84	4.063		
10,800.0	7,405.0	10,909.4	7,630.0	58.9	60.4	-129.71	3,041.0	-1,190.1	352.1	262.8	89.36	3.941		
10,900.0	7,405.0	11,009.4	7,630.0	60.6	62.0	-129.80	3,141.0	-1,190.1	351.5	259.6	91.89	3.825		
11,000.0	7,405.0	11,109.4	7,630.0	62.2	63.6	-129.90	3,241.0	-1,190.1	350.8	256.4	94.41	3.716		
11,100.0	7,405.0	11,209.4	7,630.0	63.9	65.2	-129.99	3,341.0	-1,190.1	350.1	253.2	96.93	3.612		
11,200.0	7,405.0	11,309.4	7,630.0	65.5	66.9	-130.08	3,441.0	-1,190.1	349.5	250.0	99.44	3.514		
11,300.0	7,405.0	11,409.4	7,630.0	67.2	68.5	-130.17	3,541.0	-1,190.1	348.8	246.9	101.95	3.421		
11,400.0	7,405.0	11,509.4	7,630.0	68.9	70.1	-130.26	3,641.0	-1,190.1	348.1	243.7	104.45	3.333		
11,500.0	7,405.0	11,609.4	7,630.0	70.6	71.8	-130.36	3,741.0	-1,190.1	347.5	240.5	106.95	3.249		
11,600.0	7,405.0	11,709.4	7,630.0	72.2	73.4	-130.45	3,841.0	-1,190.1	346.8	237.4	109.45	3.169		
11,700.0	7,405.0	11,809.4	7,630.0	73.9	75.1	-130.54	3,941.0	-1,190.1	346.1	234.2	111.94	3.092		
11,800.0	7,405.0	11,909.4	7,630.0	75.6	76.7	-130.64	4,041.0	-1,190.1	345.5	231.1	114.42	3.019		
11,900.0	7,405.0	12,009.4	7,630.0	77.3	78.4	-130.73	4,141.0	-1,190.1	344.8	227.9	116.90	2.950		
12,000.0	7,405.0	12,109.4	7,630.0	79.0	80.1	-130.83	4,241.0	-1,190.1	344.2	224.8	119.37	2.883		
12,100.0	7,405.0	12,209.4	7,630.0	80.7	81.7	-130.92	4,340.9	-1,190.1	343.5	221.7	121.84	2.819		
12,200.0	7,405.0	12,309.4	7,630.0	82.4	83.4	-131.02	4,440.9	-1,190.1	342.8	218.5	124.29	2.758		
12,300.0	7,405.0	12,409.3	7,630.0	84.1	85.1	-131.11	4,540.9	-1,190.1	342.2	215.4	126.74	2.700		
12,400.0	7,405.0	12,509.3	7,630.0	85.8	86.8	-131.21	4,640.9	-1,190.1	341.5	212.3	129.19	2.644		
12,500.0	7,405.0	12,609.3	7,630.0	87.5	88.4	-131.31	4,740.9	-1,190.1	340.9	209.2	131.63	2.590		
12,600.0	7,405.0	12,709.3	7,630.0	89.2	90.1	-131.40	4,840.9	-1,190.1	340.2	206.2	134.06	2.538		
12,700.0	7,405.0	12,809.3	7,630.0	90.9	91.8	-131.50	4,940.9	-1,190.1	339.6	203.1	136.48	2.488		
12,800.0	7,405.0	12,909.3	7,630.0	92.6	93.5	-131.60	5,040.9	-1,190.1	338.9	200.0	138.89	2.440		
12,900.0	7,405.0	13,009.3	7,630.0	94.3	95.2	-131.70	5,140.9	-1,190.1	338.3	196.9	141.30	2.394		
13,000.0	7,405.0	13,109.3	7,630.0	96.0	96.9	-131.80	5,240.9	-1,190.1	337.6	193.9	143.70	2.349		
13,100.0	7,405.0	13,209.3	7,630.0	97.7	98.6	-131.90	5,340.9	-1,190.1	337.0	190.9	146.09	2.306		
13,200.0	7,405.0	13,309.3	7,630.0	99.5	100.3	-131.99	5,440.9	-1,190.1	336.3	187.8	148.48	2.265		
13,300.0	7,405.0	13,409.3	7,630.0	101.2	102.0	-132.09	5,540.9	-1,190.1	335.7	184.8	150.85	2.225		
13,400.0	7,405.0	13,509.3	7,630.0	102.9	103.7	-132.19	5,640.9	-1,190.1	335.0	181.8	153.22	2.186		
13,500.0	7,405.0	13,609.3	7,630.0	104.6	105.4	-132.29	5,740.9	-1,190.1	334.4	178.8	155.58	2.149		
13,600.0	7,405.0	13,717.8	7,630.0	106.3	107.2	-132.60	5,849.4	-1,188.4	332.6	175.0	157.55	2.111		
13,700.0	7,405.0	13,826.8	7,630.0	108.1	109.1	-133.41	5,958.2	-1,182.5	328.0	169.7	158.30	2.072		
13,800.0	7,405.0	13,934.7	7,630.0	109.8	110.9	-134.65	6,065.6	-1,172.7	321.0	163.5	157.47	2.039		
13,900.0	7,405.0	14,034.3	7,630.0	111.5	112.5	-135.65	6,164.7	-1,161.9	315.0	158.6	156.36	2.014		
14,000.0	7,405.0	14,134.2	7,630.0	113.2	114.2	-136.26	6,263.9	-1,151.1	311.5	155.5	156.03	1.996		
14,094.2	7,405.0	14,228.3	7,630.0	114.8	115.8	-136.45	6,357.6	-1,140.9	310.4	153.9	156.54	1.983		
14,100.0	7,405.0	14,234.1	7,630.0	114.9	115.9	-136.45	6,363.3	-1,140.3	310.4	153.8	156.60	1.982		
14,200.0	7,405.0	14,334.1	7,630.0	116.6	117.5	-136.24	6,462.7	-1,129.5	311.6	152.9	158.69	1.963		
14,300.0	7,405.0	14,434.1	7,630.0	118.2	119.2	-135.94	6,562.1	-1,118.7	313.2	151.2	161.93	1.934		
14,400.0	7,405.0	14,534.1	7,630.0	119.9	120.9	-135.64	6,661.5	-1,107.9	314.8	149.6	165.19	1.905		
14,500.0	7,405.0	14,634.1	7,630.0	121.6	122.6	-135.34	6,760.9	-1,097.1	316.4	147.9	168.46	1.878		
14,600.0	7,405.0	14,734.0	7,630.0	123.3	124.3	-135.05	6,860.3	-1,086.3	318.0	146.2	171.74	1.851		
14,685.3	7,405.0	14,795.6	7,630.0	124.7	125.3	-134.87	6,921.5	-1,079.7	320.2	146.2	174.07	1.840 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	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 CC, ES		
800.0	800.0	800.0	800.0	1.3	1.3	-151.95	0.0	10.1	11.6	8.9	2.68	4.319		
900.0	899.8	900.3	900.3	1.5	1.5	-157.37	-1.2	8.8	14.9	11.8	3.03	4.909		
1,000.0	999.5	1,000.7	1,000.6	1.7	1.7	-159.23	-4.7	4.8	18.5	15.1	3.38	5.463		
1,100.0	1,098.7	1,101.3	1,100.7	2.0	1.9	-159.16	-10.5	-1.8	22.3	18.5	3.74	5.962		
1,200.0	1,197.5	1,201.7	1,200.4	2.2	2.1	-157.94	-18.6	-10.9	26.2	22.1	4.11	6.369		
1,300.0	1,296.2	1,301.7	1,299.5	2.5	2.4	-156.57	-27.3	-20.6	29.9	25.4	4.50	6.635		
1,400.0	1,394.9	1,401.6	1,398.6	2.8	2.6	-155.50	-36.1	-30.4	33.6	28.7	4.91	6.847		
1,500.0	1,493.6	1,501.5	1,497.6	3.1	2.9	-154.64	-44.8	-40.2	37.3	32.0	5.32	7.017		
1,600.0	1,592.3	1,601.5	1,596.7	3.4	3.1	-153.94	-53.5	-50.0	41.1	35.3	5.74	7.155		
1,700.0	1,691.0	1,701.4	1,695.8	3.7	3.4	-153.36	-62.2	-59.8	44.8	38.6	6.16	7.269		
1,800.0	1,789.7	1,801.3	1,794.8	4.0	3.7	-152.86	-70.9	-69.6	48.5	41.9	6.59	7.362		
1,900.0	1,888.4	1,901.3	1,893.9	4.3	3.9	-152.44	-79.6	-79.4	52.3	45.3	7.03	7.440		
2,000.0	1,987.1	2,001.2	1,993.0	4.7	4.2	-152.07	-88.3	-89.2	56.0	48.6	7.46	7.506		
2,100.0	2,085.8	2,101.1	2,092.0	5.0	4.5	-151.75	-97.0	-99.0	59.8	51.9	7.91	7.562		
2,200.0	2,184.5	2,201.0	2,191.1	5.3	4.8	-151.47	-105.7	-108.8	63.5	55.2	8.35	7.610		
2,300.0	2,283.2	2,301.0	2,290.2	5.6	5.0	-151.22	-114.4	-118.5	67.3	58.5	8.79	7.652		
2,400.0	2,381.9	2,400.9	2,389.2	6.0	5.3	-150.99	-123.1	-128.3	71.0	61.8	9.24	7.688		
2,500.0	2,480.6	2,500.8	2,488.3	6.3	5.6	-150.79	-131.9	-138.1	74.8	65.1	9.69	7.719		
2,600.0	2,579.3	2,600.8	2,587.4	6.6	5.9	-150.61	-140.6	-147.9	78.5	68.4	10.14	7.747		
2,700.0	2,678.0	2,700.7	2,686.4	6.9	6.2	-150.44	-149.3	-157.7	82.3	71.7	10.59	7.771		
2,800.0	2,776.7	2,800.6	2,785.5	7.3	6.5	-150.29	-158.0	-167.5	86.1	75.0	11.04	7.793		
2,900.0	2,875.4	2,900.5	2,884.6	7.6	6.7	-150.15	-166.7	-177.3	89.8	78.3	11.50	7.812		
3,000.0	2,974.1	3,000.5	2,983.6	7.9	7.0	-150.03	-175.4	-187.1	93.6	81.6	11.95	7.829		
3,100.0	3,072.8	3,100.4	3,082.7	8.2	7.3	-149.91	-184.1	-196.9	97.3	84.9	12.41	7.845		
3,200.0	3,171.5	3,200.3	3,181.8	8.6	7.6	-149.80	-192.8	-206.6	101.1	88.2	12.86	7.859		
3,300.0	3,270.2	3,300.3	3,280.8	8.9	7.9	-149.70	-201.5	-216.4	104.9	91.5	13.32	7.872		
3,400.0	3,368.9	3,400.2	3,379.9	9.2	8.2	-149.60	-210.2	-226.2	108.6	94.8	13.78	7.883		
3,500.0	3,467.6	3,500.1	3,479.0	9.6	8.4	-149.52	-219.0	-236.0	112.4	98.1	14.24	7.894		
3,600.0	3,566.3	3,600.0	3,578.0	9.9	8.7	-149.43	-227.7	-245.8	116.1	101.4	14.69	7.904		
3,700.0	3,665.0	3,700.0	3,677.1	10.2	9.0	-149.36	-236.4	-255.6	119.9	104.7	15.15	7.913		
3,800.0	3,763.7	3,799.9	3,776.2	10.6	9.3	-149.28	-245.1	-265.4	123.7	108.0	15.61	7.921		
3,900.0	3,862.4	3,899.8	3,875.2	10.9	9.6	-149.22	-253.8	-275.2	127.4	111.3	16.07	7.928		
4,000.0	3,961.1	3,999.8	3,974.3	11.2	9.9	-149.15	-262.5	-285.0	131.2	114.6	16.53	7.935		
4,100.0	4,059.8	4,099.7	4,073.4	11.5	10.2	-149.09	-271.2	-294.7	134.9	117.9	16.99	7.942		
4,200.0	4,158.5	4,199.6	4,172.4	11.9	10.4	-149.03	-279.9	-304.5	138.7	121.2	17.45	7.948		
4,300.0	4,257.2	4,299.6	4,271.5	12.2	10.7	-148.98	-288.6	-314.3	142.5	124.5	17.91	7.953		
4,400.0	4,355.9	4,399.5	4,370.6	12.5	11.0	-148.93	-297.3	-324.1	146.2	127.8	18.37	7.959		
4,500.0	4,454.6	4,499.4	4,469.6	12.9	11.3	-148.88	-306.1	-333.9	150.0	131.2	18.83	7.963		
4,600.0	4,553.3	4,599.3	4,568.7	13.2	11.6	-148.83	-314.8	-343.7	153.7	134.5	19.30	7.968		
4,700.0	4,652.0	4,699.3	4,667.8	13.5	11.9	-148.79	-323.5	-353.5	157.5	137.8	19.76	7.972		
4,800.0	4,750.7	4,799.2	4,766.8	13.9	12.2	-148.74	-332.2	-363.3	161.3	141.1	20.22	7.976		
4,900.0	4,849.4	4,899.1	4,865.9	14.2	12.4	-148.70	-340.9	-373.1	165.0	144.4	20.68	7.980		
5,000.0	4,948.1	4,999.1	4,965.0	14.5	12.7	-148.67	-349.6	-382.8	168.8	147.7	21.14	7.984		
5,100.0	5,046.8	5,099.0	5,064.0	14.9	13.0	-148.63	-358.3	-392.6	172.6	151.0	21.60	7.987		

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 4F-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 4F-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 #2	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						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	5,145.5	5,198.9	5,163.1	15.2	13.3	-148.59	-367.0	-402.4	176.3	154.3	22.07	7.990		
5,300.0	5,244.2	5,298.8	5,262.2	15.5	13.6	-148.56	-375.7	-412.2	180.1	157.6	22.53	7.993		
5,400.0	5,342.9	5,398.8	5,361.2	15.9	13.9	-148.53	-384.4	-422.0	183.8	160.8	22.99	7.996		
5,500.0	5,441.6	5,498.7	5,460.3	16.2	14.2	-148.50	-393.2	-431.8	187.6	164.1	23.46	7.998		
5,600.0	5,540.3	5,598.6	5,559.4	16.5	14.5	-148.47	-401.9	-441.6	191.4	167.4	23.92	8.001		
5,700.0	5,639.0	5,698.6	5,658.4	16.8	14.7	-148.44	-410.6	-451.4	195.1	170.7	24.38	8.003		
5,800.0	5,737.7	5,798.5	5,757.5	17.2	15.0	-148.41	-419.3	-461.2	198.9	174.0	24.84	8.006		
5,900.0	5,836.4	5,898.4	5,856.6	17.5	15.3	-148.38	-428.0	-470.9	202.7	177.3	25.31	8.008		
6,000.0	5,935.1	5,998.3	5,955.6	17.8	15.6	-148.36	-436.7	-480.7	206.4	180.6	25.77	8.010		
6,100.0	6,033.8	6,098.3	6,054.7	18.2	15.9	-148.33	-445.4	-490.5	210.2	183.9	26.23	8.012		
6,200.0	6,132.5	6,198.2	6,153.8	18.5	16.2	-148.31	-454.1	-500.3	213.9	187.2	26.70	8.014		
6,300.0	6,231.2	6,298.1	6,252.8	18.8	16.5	-148.29	-462.8	-510.1	217.7	190.5	27.16	8.015		
6,400.0	6,329.9	6,398.1	6,351.9	19.2	16.8	-148.26	-471.5	-519.9	221.5	193.8	27.62	8.017		
6,500.0	6,428.6	6,498.0	6,451.0	19.5	17.0	-148.24	-480.3	-529.7	225.2	197.1	28.09	8.019		
6,600.0	6,527.3	6,597.9	6,550.0	19.8	17.3	-148.22	-489.0	-539.5	229.0	200.4	28.55	8.020		
6,700.0	6,626.0	6,697.9	6,649.1	20.2	17.6	-148.20	-497.7	-549.3	232.8	203.7	29.02	8.022		
6,800.0	6,724.7	6,797.8	6,748.2	20.5	17.9	-148.18	-506.4	-559.0	236.5	207.0	29.48	8.023		
6,900.0	6,823.4	6,897.7	6,847.2	20.8	18.2	-169.74	-515.1	-568.8	240.3	210.3	29.95	8.022		
7,000.0	6,922.2	6,997.6	6,946.5	21.0	18.4	134.89	-519.3	-578.6	244.3	213.7	30.65	7.972		
7,100.0	7,018.3	7,099.5	7,046.9	21.1	18.5	117.64	-506.4	-588.6	248.9	218.0	30.91	8.052		
7,200.0	7,109.0	7,203.4	7,145.3	21.0	18.4	112.21	-475.1	-598.3	253.8	223.1	30.67	8.275		
7,300.0	7,191.4	7,309.3	7,238.2	20.9	18.2	110.25	-425.4	-607.5	258.7	228.7	29.97	8.633		
7,400.0	7,263.1	7,417.1	7,321.8	20.8	18.0	109.57	-358.0	-615.7	263.5	234.5	28.95	9.101		
7,500.0	7,321.8	7,526.7	7,392.4	20.7	17.8	109.37	-274.7	-622.7	267.7	239.9	27.84	9.615		
7,600.0	7,365.8	7,637.7	7,446.5	20.6	17.6	109.32	-178.1	-628.0	271.2	244.3	26.95	10.065		
7,700.0	7,393.8	7,749.7	7,481.2	20.7	17.6	109.26	-71.9	-631.5	273.8	247.2	26.57	10.304		
7,800.0	7,404.8	7,862.2	7,494.8	20.8	17.8	109.11	39.6	-632.8	275.3	248.4	26.93	10.223		
7,900.0	7,405.0	7,963.7	7,495.0	21.1	18.1	109.02	141.1	-632.8	276.1	248.3	27.80	9.933		
8,000.0	7,405.0	8,063.7	7,495.0	21.5	18.6	108.97	241.1	-632.8	276.9	247.9	28.99	9.554		
8,100.0	7,405.0	8,163.7	7,495.0	22.1	19.2	108.91	341.1	-632.8	277.8	247.3	30.50	9.108		
8,200.0	7,405.0	8,263.7	7,495.0	22.8	20.0	108.85	441.1	-632.8	278.6	246.3	32.28	8.631		
8,300.0	7,405.0	8,363.7	7,495.0	23.6	20.9	108.79	541.1	-632.8	279.4	245.1	34.29	8.148		
8,400.0	7,405.0	8,463.7	7,495.0	24.4	21.9	108.73	641.1	-632.8	280.2	243.7	36.50	7.677		
8,500.0	7,405.0	8,563.7	7,495.0	25.4	22.9	108.68	741.1	-632.8	281.1	242.2	38.87	7.230		
8,600.0	7,405.0	8,663.7	7,495.0	26.5	24.1	108.62	841.1	-632.8	281.9	240.5	41.38	6.813		
8,700.0	7,405.0	8,763.7	7,495.0	27.6	25.3	108.56	941.1	-632.8	282.7	238.7	43.99	6.426		
8,800.0	7,405.0	8,863.7	7,495.0	28.8	26.6	108.51	1,041.1	-632.8	283.5	236.8	46.70	6.071		
8,900.0	7,405.0	8,963.7	7,495.0	30.1	28.0	108.45	1,141.1	-632.8	284.4	234.9	49.49	5.746		
9,000.0	7,405.0	9,063.7	7,495.0	31.4	29.4	108.40	1,241.1	-632.8	285.2	232.8	52.35	5.448		
9,100.0	7,405.0	9,163.7	7,495.0	32.7	30.8	108.34	1,341.1	-632.8	286.0	230.8	55.26	5.176		
9,200.0	7,405.0	9,263.7	7,495.0	34.1	32.2	108.29	1,441.1	-632.8	286.9	228.6	58.22	4.927		
9,300.0	7,405.0	9,363.7	7,495.0	35.5	33.7	108.23	1,541.1	-632.8	287.7	226.5	61.22	4.699		
9,400.0	7,405.0	9,463.7	7,495.0	36.9	35.2	108.18	1,641.0	-632.8	288.5	224.3	64.26	4.490		
9,500.0	7,405.0	9,563.7	7,495.0	38.4	36.8	108.12	1,741.0	-632.8	289.3	222.0	67.33	4.297		
9,600.0	7,405.0	9,663.7	7,495.0	39.9	38.3	108.07	1,841.0	-632.8	290.2	219.7	70.43	4.120		
9,700.0	7,405.0	9,763.7	7,495.0	41.4	39.9	108.02	1,941.0	-632.8	291.0	217.5	73.55	3.957		
9,800.0	7,405.0	9,863.7	7,495.0	42.9	41.5	107.96	2,041.0	-632.8	291.8	215.1	76.69	3.805		
9,900.0	7,405.0	9,963.6	7,495.0	44.5	43.0	107.91	2,141.0	-632.8	292.7	212.8	79.85	3.665		
10,000.0	7,405.0	10,063.6	7,495.0	46.0	44.7	107.86	2,241.0	-632.8	293.5	210.5	83.03	3.535		
10,100.0	7,405.0	10,163.6	7,495.0	47.6	46.3	107.81	2,341.0	-632.8	294.3	208.1	86.23	3.413		
10,200.0	7,405.0	10,263.6	7,495.0	49.2	47.9	107.75	2,441.0	-632.8	295.2	205.7	89.43	3.300		
10,300.0	7,405.0	10,363.6	7,495.0	50.8	49.5	107.70	2,541.0	-632.8	296.0	203.3	92.66	3.194		

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 4F-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 4F-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 #2	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		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis		
10,400.0	7,405.0	10,463.6	7,495.0	52.4	51.2	107.65	2,641.0	-632.8	296.8	200.9	95.89	3.095	
10,500.0	7,405.0	10,563.6	7,495.0	54.0	52.8	107.60	2,741.0	-632.8	297.6	198.5	99.13	3.003	
10,600.0	7,405.0	10,663.6	7,495.0	55.6	54.5	107.55	2,841.0	-632.8	298.5	196.1	102.39	2.915	
10,700.0	7,405.0	10,763.6	7,495.0	57.3	56.1	107.50	2,941.0	-632.8	299.3	193.7	105.65	2.833	
10,800.0	7,405.0	10,863.6	7,495.0	58.9	57.8	107.45	3,041.0	-632.8	300.1	191.2	108.92	2.756	
10,900.0	7,405.0	10,963.6	7,495.0	60.6	59.5	107.40	3,141.0	-632.8	301.0	188.8	112.20	2.683	
11,000.0	7,405.0	11,063.6	7,495.0	62.2	61.2	107.35	3,241.0	-632.8	301.8	186.3	115.48	2.613	
11,100.0	7,405.0	11,163.6	7,495.0	63.9	62.8	107.30	3,341.0	-632.8	302.6	183.9	118.77	2.548	
11,200.0	7,405.0	11,263.6	7,495.0	65.5	64.5	107.25	3,441.0	-632.8	303.5	181.4	122.07	2.486	
11,300.0	7,405.0	11,363.6	7,495.0	67.2	66.2	107.20	3,541.0	-632.8	304.3	178.9	125.38	2.427	
11,400.0	7,405.0	11,463.6	7,495.0	68.9	67.9	107.15	3,641.0	-632.8	305.1	176.5	128.69	2.371	
11,500.0	7,405.0	11,563.6	7,495.0	70.6	69.6	107.11	3,741.0	-632.8	306.0	174.0	132.00	2.318	
11,600.0	7,405.0	11,663.6	7,495.0	72.2	71.3	107.06	3,841.0	-632.8	306.8	171.5	135.32	2.267	
11,700.0	7,405.0	11,763.6	7,495.0	73.9	73.0	107.01	3,941.0	-632.8	307.6	169.0	138.65	2.219	
11,800.0	7,405.0	11,863.6	7,495.0	75.6	74.7	106.96	4,041.0	-632.8	308.5	166.5	141.97	2.173	
11,900.0	7,405.0	11,963.6	7,495.0	77.3	76.4	106.92	4,141.0	-632.8	309.3	164.0	145.31	2.129	
12,000.0	7,405.0	12,063.6	7,495.0	79.0	78.1	106.87	4,241.0	-632.8	310.1	161.5	148.64	2.087	
12,100.0	7,405.0	12,163.6	7,495.0	80.7	79.8	106.82	4,340.9	-632.8	311.0	159.0	151.99	2.046	
12,200.0	7,405.0	12,263.6	7,495.0	82.4	81.6	106.78	4,440.9	-632.8	311.8	156.5	155.33	2.007	
12,300.0	7,405.0	12,363.6	7,495.0	84.1	83.3	106.73	4,540.9	-632.8	312.7	154.0	158.68	1.970	
12,400.0	7,405.0	12,463.6	7,495.0	85.8	85.0	106.68	4,640.9	-632.8	313.5	151.5	162.03	1.935	
12,500.0	7,405.0	12,563.5	7,495.0	87.5	86.7	106.64	4,740.9	-632.8	314.3	148.9	165.38	1.901	
12,600.0	7,405.0	12,663.5	7,495.0	89.2	88.4	106.59	4,840.9	-632.8	315.2	146.4	168.74	1.868	
12,700.0	7,405.0	12,763.5	7,495.0	90.9	90.1	106.55	4,940.9	-632.8	316.0	143.9	172.10	1.836	
12,800.0	7,405.0	12,863.5	7,495.0	92.6	91.9	106.50	5,040.9	-632.8	316.8	141.4	175.47	1.806	
12,900.0	7,405.0	12,963.5	7,495.0	94.3	93.6	106.46	5,140.9	-632.8	317.7	138.8	178.83	1.776	
13,000.0	7,405.0	13,063.5	7,495.0	96.0	95.3	106.41	5,240.9	-632.8	318.5	136.3	182.20	1.748	
13,100.0	7,405.0	13,163.5	7,495.0	97.7	97.0	106.37	5,340.9	-632.8	319.3	133.8	185.57	1.721	
13,200.0	7,405.0	13,263.5	7,495.0	99.5	98.8	106.33	5,440.9	-632.8	320.2	131.2	188.94	1.695	
13,300.0	7,405.0	13,363.5	7,495.0	101.2	100.5	106.28	5,540.9	-632.8	321.0	128.7	192.32	1.669	
13,400.0	7,405.0	13,463.5	7,495.0	102.9	102.2	106.24	5,640.9	-632.8	321.9	126.2	195.70	1.645	
13,500.0	7,405.0	13,563.5	7,495.0	104.6	103.9	106.20	5,740.9	-632.8	322.7	123.6	199.08	1.621	
13,600.0	7,405.0	13,663.5	7,495.0	106.3	105.7	106.15	5,840.9	-632.8	323.5	121.1	202.46	1.598	
13,700.0	7,405.0	13,763.5	7,495.0	108.1	107.4	106.11	5,940.9	-632.8	324.4	118.5	205.85	1.576	
13,800.0	7,405.0	13,863.5	7,495.0	109.8	109.1	106.08	6,040.9	-632.8	324.9	116.1	208.86	1.556	
13,900.0	7,405.0	13,963.5	7,495.0	111.5	110.9	106.21	6,140.9	-632.8	322.7	111.7	211.02	1.529	
14,000.0	7,405.0	14,063.3	7,495.0	113.2	112.6	106.53	6,240.7	-632.8	317.2	104.5	212.72	1.491 Level 3	
14,100.0	7,405.0	14,162.9	7,495.0	114.9	114.3	107.07	6,340.2	-632.8	308.3	94.4	213.91	1.441 Level 3	
14,200.0	7,405.0	14,262.1	7,495.0	116.6	116.0	107.82	6,439.5	-632.8	296.4	81.1	215.33	1.376 Level 3	
14,300.0	7,405.0	14,361.2	7,495.0	118.2	117.7	108.63	6,538.6	-632.8	284.0	66.3	217.66	1.305 Level 3	
14,400.0	7,405.0	14,460.4	7,495.0	119.9	119.5	109.51	6,637.7	-632.8	271.6	51.8	219.83	1.236 Level 2	
14,500.0	7,405.0	14,559.5	7,495.0	121.6	121.2	110.47	6,736.9	-632.8	259.3	37.5	221.80	1.169 Level 2	
14,600.0	7,405.0	14,658.6	7,495.0	123.3	122.9	111.53	6,836.0	-632.8	247.1	23.6	223.53	1.105 Level 2	
14,685.3	7,405.0	14,742.8	7,495.0	124.7	124.4	112.51	6,920.2	-632.8	236.7	12.0	224.79	1.053 Level 2, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	90.05	0.0	19.9	19.9					
100.0	100.0	101.0	101.0	0.1	0.1	90.05	0.0	19.9	19.9	19.6	0.24	83.061		
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	19.9	19.9	19.3	0.59	33.767		
300.0	300.0	301.0	301.0	0.5	0.5	90.05	0.0	19.9	19.9	18.9	0.94	21.191		
400.0	400.0	401.0	401.0	0.6	0.6	90.05	0.0	19.9	19.9	18.6	1.29	15.440		
500.0	500.0	501.0	501.0	0.8	0.8	90.05	0.0	19.9	19.9	18.2	1.64	12.144		
600.0	600.0	601.0	601.0	1.0	1.0	90.05	0.0	19.9	19.9	17.9	1.98	10.008		
700.0	700.0	701.0	701.0	1.2	1.2	90.05	0.0	19.9	19.9	17.5	2.33	8.511	CC, ES	
800.0	800.0	801.0	801.0	1.3	1.3	-149.81	0.0	19.9	21.3	18.7	2.68	7.960		
900.0	899.8	900.8	900.8	1.5	1.5	-155.57	0.0	19.9	26.0	23.0	3.03	8.585		
1,000.0	999.5	1,000.9	1,000.9	1.7	1.7	-158.82	-1.8	19.6	33.4	30.1	3.38	9.903		
1,100.0	1,098.7	1,101.4	1,101.2	2.0	1.9	-158.45	-6.8	18.3	42.6	38.9	3.73	11.421		
1,200.0	1,197.5	1,202.5	1,202.0	2.2	2.1	-157.89	-13.9	14.3	51.8	47.7	4.10	12.618		
1,300.0	1,296.2	1,302.9	1,301.8	2.5	2.3	-156.80	-22.4	8.0	59.0	54.5	4.49	13.124		
1,400.0	1,394.9	1,402.6	1,401.0	2.8	2.5	-155.87	-31.0	1.6	66.0	61.1	4.89	13.486		
1,500.0	1,493.6	1,502.4	1,500.2	3.1	2.7	-155.12	-39.5	-4.9	73.0	67.7	5.30	13.775		
1,600.0	1,592.3	1,602.1	1,599.3	3.4	2.9	-154.51	-48.1	-11.4	80.0	74.3	5.71	14.009		
1,700.0	1,691.0	1,701.9	1,698.5	3.7	3.2	-153.99	-56.7	-17.9	87.1	80.9	6.13	14.199		
1,800.0	1,789.7	1,801.6	1,797.7	4.0	3.4	-153.55	-65.3	-24.3	94.1	87.6	6.56	14.355		
1,900.0	1,888.4	1,901.4	1,896.8	4.3	3.7	-153.17	-73.8	-30.8	101.2	94.2	6.98	14.485		
2,000.0	1,987.1	2,001.1	1,996.0	4.7	3.9	-152.84	-82.4	-37.3	108.2	100.8	7.42	14.594		
2,100.0	2,085.8	2,100.9	2,095.2	5.0	4.1	-152.55	-91.0	-43.7	115.3	107.4	7.85	14.686		
2,200.0	2,184.5	2,200.6	2,194.3	5.3	4.4	-152.30	-99.6	-50.2	122.3	114.1	8.29	14.764		
2,300.0	2,283.2	2,300.4	2,293.5	5.6	4.6	-152.07	-108.2	-56.7	129.4	120.7	8.72	14.832		
2,400.0	2,381.9	2,400.1	2,392.7	6.0	4.9	-151.87	-116.7	-63.2	136.5	127.3	9.17	14.890		
2,500.0	2,480.6	2,499.9	2,491.8	6.3	5.1	-151.68	-125.3	-69.6	143.5	133.9	9.61	14.940		
2,600.0	2,579.3	2,599.6	2,591.0	6.6	5.4	-151.52	-133.9	-76.1	150.6	140.5	10.05	14.984		
2,700.0	2,678.0	2,699.4	2,690.2	6.9	5.6	-151.37	-142.5	-82.6	157.7	147.2	10.50	15.023		
2,800.0	2,776.7	2,799.1	2,789.4	7.3	5.9	-151.23	-151.0	-89.0	164.7	153.8	10.94	15.057		
2,900.0	2,875.4	2,898.9	2,888.5	7.6	6.1	-151.10	-159.6	-95.5	171.8	160.4	11.39	15.087		
3,000.0	2,974.1	2,998.6	2,987.7	7.9	6.4	-150.98	-168.2	-102.0	178.9	167.0	11.83	15.114		
3,100.0	3,072.8	3,098.4	3,086.9	8.2	6.6	-150.87	-176.8	-108.5	185.9	173.7	12.28	15.138		
3,200.0	3,171.5	3,198.1	3,186.0	8.6	6.9	-150.77	-185.3	-114.9	193.0	180.3	12.73	15.160		
3,300.0	3,270.2	3,297.9	3,285.2	8.9	7.1	-150.68	-193.9	-121.4	200.1	186.9	13.18	15.180		
3,400.0	3,368.9	3,397.6	3,384.4	9.2	7.4	-150.59	-202.5	-127.9	207.2	193.5	13.63	15.197		
3,500.0	3,467.6	3,497.4	3,483.5	9.6	7.6	-150.51	-211.1	-134.3	214.2	200.2	14.08	15.213		
3,600.0	3,566.3	3,597.1	3,582.7	9.9	7.9	-150.44	-219.6	-140.8	221.3	206.8	14.53	15.228		
3,700.0	3,665.0	3,696.9	3,681.9	10.2	8.1	-150.36	-228.2	-147.3	228.4	213.4	14.98	15.241		
3,800.0	3,763.7	3,796.6	3,781.0	10.6	8.4	-150.30	-236.8	-153.8	235.5	220.0	15.44	15.253		
3,900.0	3,862.4	3,896.4	3,880.2	10.9	8.6	-150.23	-245.4	-160.2	242.5	226.6	15.89	15.264		
4,000.0	3,961.1	3,996.1	3,979.4	11.2	8.9	-150.18	-254.0	-166.7	249.6	233.3	16.34	15.275		
4,100.0	4,059.8	4,095.9	4,078.5	11.5	9.1	-150.12	-262.5	-173.2	256.7	239.9	16.79	15.284		
4,200.0	4,158.5	4,195.6	4,177.7	11.9	9.4	-150.07	-271.1	-179.6	263.8	246.5	17.25	15.293		
4,300.0	4,257.2	4,295.3	4,276.9	12.2	9.7	-150.02	-279.7	-186.1	270.8	253.1	17.70	15.301		
4,400.0	4,355.9	4,395.1	4,376.1	12.5	9.9	-149.97	-288.3	-192.6	277.9	259.8	18.15	15.308		
4,500.0	4,454.6	4,494.8	4,475.2	12.9	10.2	-149.92	-296.8	-199.1	285.0	266.4	18.61	15.315		
4,600.0	4,553.3	4,594.6	4,574.4	13.2	10.4	-149.88	-305.4	-205.5	292.1	273.0	19.06	15.322		
4,700.0	4,652.0	4,694.3	4,673.6	13.5	10.7	-149.84	-314.0	-212.0	299.1	279.6	19.52	15.328		
4,800.0	4,750.7	4,794.1	4,772.7	13.9	10.9	-149.80	-322.6	-218.5	306.2	286.2	19.97	15.333		
4,900.0	4,849.4	4,893.8	4,871.9	14.2	11.2	-149.76	-331.1	-224.9	313.3	292.9	20.43	15.338		
5,000.0	4,948.1	4,993.6	4,971.1	14.5	11.4	-149.72	-339.7	-231.4	320.4	299.5	20.88	15.343		
5,100.0	5,046.8	5,093.3	5,070.2	14.9	11.7	-149.69	-348.3	-237.9	327.4	306.1	21.34	15.348		

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 4F-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 4F-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 #2	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)	
5,200.0	5,145.5	5,193.1	5,169.4	15.2	11.9	-149.66	-356.9	-244.4	334.5	312.7	21.79	15.352		
5,300.0	5,244.2	5,292.8	5,268.6	15.5	12.2	-149.63	-365.4	-250.8	341.6	319.4	22.25	15.356		
5,400.0	5,342.9	5,392.6	5,367.7	15.9	12.5	-149.60	-374.0	-257.3	348.7	326.0	22.70	15.360		
5,500.0	5,441.6	5,492.3	5,466.9	16.2	12.7	-149.57	-382.6	-263.8	355.8	332.6	23.16	15.363		
5,600.0	5,540.3	5,592.1	5,566.1	16.5	13.0	-149.54	-391.2	-270.2	362.8	339.2	23.61	15.367		
5,700.0	5,639.0	5,691.8	5,665.2	16.8	13.2	-149.51	-399.8	-276.7	369.9	345.8	24.07	15.370		
5,800.0	5,737.7	5,791.6	5,764.4	17.2	13.5	-149.49	-408.3	-283.2	377.0	352.5	24.52	15.373		
5,900.0	5,836.4	5,891.3	5,863.6	17.5	13.7	-149.46	-416.9	-289.7	384.1	359.1	24.98	15.376		
6,000.0	5,935.1	5,991.1	5,962.8	17.8	14.0	-149.44	-425.5	-296.1	391.1	365.7	25.43	15.378		
6,100.0	6,033.8	6,090.8	6,061.9	18.2	14.2	-149.41	-434.1	-302.6	398.2	372.3	25.89	15.381		
6,200.0	6,132.5	6,190.6	6,161.1	18.5	14.5	-149.39	-442.6	-309.1	405.3	379.0	26.35	15.383		
6,300.0	6,231.2	6,290.3	6,260.3	18.8	14.7	-149.37	-451.2	-315.5	412.4	385.6	26.80	15.386		
6,400.0	6,329.9	6,390.1	6,359.4	19.2	15.0	-149.35	-459.8	-322.0	419.5	392.2	27.26	15.388		
6,500.0	6,428.6	6,489.8	6,458.6	19.5	15.3	-149.33	-468.4	-328.5	426.5	398.8	27.72	15.390		
6,600.0	6,527.3	6,589.6	6,557.8	19.8	15.5	-149.31	-476.9	-335.0	433.6	405.4	28.17	15.392		
6,700.0	6,626.0	6,689.3	6,656.9	20.2	15.8	-149.29	-485.5	-341.4	440.7	412.1	28.63	15.394		
6,800.0	6,724.7	6,789.1	6,756.1	20.5	16.0	-149.27	-494.1	-347.9	447.8	418.7	29.08	15.396		
6,900.0	6,823.4	6,888.8	6,855.3	20.8	16.3	-171.06	-502.7	-354.4	454.8	425.3	29.50	15.420		
7,000.0	6,922.2	6,987.3	6,953.2	21.0	16.5	132.65	-511.1	-360.8	461.8	431.8	30.00	15.395		
7,100.0	7,018.3	7,084.0	7,049.4	21.1	16.7	116.10	-518.0	-367.0	470.0	439.4	30.58	15.368		
7,200.0	7,109.0	7,186.6	7,151.4	21.0	16.8	111.79	-510.4	-373.7	480.2	449.4	30.74	15.619		
7,300.0	7,191.4	7,296.4	7,257.1	20.9	16.7	111.04	-482.3	-380.6	491.8	461.5	30.35	16.204		
7,400.0	7,263.1	7,414.7	7,362.8	20.8	16.5	111.62	-430.1	-387.5	504.1	474.7	29.45	17.120		
7,500.0	7,321.8	7,542.1	7,462.0	20.7	16.1	112.65	-350.9	-394.0	516.0	487.8	28.21	18.290		
7,600.0	7,365.8	7,678.6	7,546.1	20.6	15.7	113.69	-243.9	-399.5	526.2	499.2	27.00	19.489		
7,700.0	7,393.8	7,823.0	7,605.1	20.7	15.6	114.43	-112.5	-403.3	533.5	507.2	26.30	20.285		
7,800.0	7,404.8	7,972.2	7,629.6	20.8	15.8	114.66	34.2	-404.9	537.0	510.4	26.56	20.218		
7,900.0	7,405.0	8,079.1	7,630.0	21.1	16.1	114.61	141.1	-404.9	537.8	510.4	27.41	19.619		
8,000.0	7,405.0	8,179.1	7,630.0	21.5	16.7	114.58	241.1	-404.9	538.6	510.0	28.56	18.860		
8,100.0	7,405.0	8,279.1	7,630.0	22.1	17.4	114.54	341.1	-404.9	539.4	509.4	30.00	17.978		
8,200.0	7,405.0	8,379.1	7,630.0	22.8	18.3	114.50	441.1	-404.9	540.2	508.5	31.71	17.038		
8,300.0	7,405.0	8,479.1	7,630.0	23.6	19.2	114.46	541.1	-404.9	541.0	507.4	33.63	16.087		
8,400.0	7,405.0	8,579.1	7,630.0	24.4	20.3	114.42	641.1	-404.9	541.8	506.0	35.74	15.161		
8,500.0	7,405.0	8,679.1	7,630.0	25.4	21.5	114.38	741.1	-404.9	542.6	504.6	38.00	14.279		
8,600.0	7,405.0	8,779.1	7,630.0	26.5	22.7	114.35	841.1	-404.9	543.4	503.0	40.39	13.453		
8,700.0	7,405.0	8,879.1	7,630.0	27.6	24.0	114.31	941.1	-404.9	544.2	501.3	42.89	12.687		
8,800.0	7,405.0	8,979.1	7,630.0	28.8	25.4	114.27	1,041.1	-404.9	545.0	499.5	45.48	11.982		
8,900.0	7,405.0	9,079.1	7,630.0	30.1	26.8	114.23	1,141.1	-404.9	545.8	497.6	48.15	11.335		
9,000.0	7,405.0	9,179.1	7,630.0	31.4	28.2	114.20	1,241.1	-404.9	546.6	495.7	50.88	10.742		
9,100.0	7,405.0	9,279.1	7,630.0	32.7	29.7	114.16	1,341.1	-404.9	547.3	493.7	53.67	10.199		
9,200.0	7,405.0	9,379.1	7,630.0	34.1	31.2	114.12	1,441.1	-404.9	548.1	491.6	56.50	9.702		
9,300.0	7,405.0	9,479.1	7,630.0	35.5	32.8	114.08	1,541.1	-404.9	548.9	489.6	59.37	9.246		
9,400.0	7,405.0	9,579.1	7,630.0	36.9	34.3	114.05	1,641.1	-404.9	549.7	487.5	62.28	8.826		
9,500.0	7,405.0	9,679.1	7,630.0	38.4	35.9	114.01	1,741.0	-404.9	550.5	485.3	65.22	8.441		
9,600.0	7,405.0	9,779.1	7,630.0	39.9	37.5	113.97	1,841.0	-404.9	551.3	483.1	68.19	8.085		
9,700.0	7,405.0	9,879.1	7,630.0	41.4	39.1	113.94	1,941.0	-404.9	552.1	480.9	71.18	7.756		
9,800.0	7,405.0	9,979.0	7,630.0	42.9	40.7	113.90	2,041.0	-404.9	552.9	478.7	74.20	7.452		
9,900.0	7,405.0	10,079.0	7,630.0	44.5	42.3	113.86	2,141.0	-404.9	553.7	476.5	77.23	7.170		
10,000.0	7,405.0	10,179.0	7,630.0	46.0	43.9	113.83	2,241.0	-404.9	554.5	474.2	80.28	6.908		
10,100.0	7,405.0	10,279.0	7,630.0	47.6	45.6	113.79	2,341.0	-404.9	555.3	472.0	83.34	6.663		
10,200.0	7,405.0	10,379.0	7,630.0	49.2	47.2	113.75	2,441.0	-404.9	556.1	469.7	86.42	6.435		
10,300.0	7,405.0	10,479.0	7,630.0	50.8	48.9	113.72	2,541.0	-404.9	556.9	467.4	89.51	6.222		

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 4F-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 4F-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 #2	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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,405.0	10,579.0	7,630.0	52.4	50.6	113.68	2,641.0	-404.9	557.7	465.1	92.61	6.022	
10,500.0	7,405.0	10,679.0	7,630.0	54.0	52.2	113.65	2,741.0	-404.9	558.5	462.8	95.73	5.835	
10,600.0	7,405.0	10,779.0	7,630.0	55.6	53.9	113.61	2,841.0	-404.9	559.3	460.5	98.85	5.658	
10,700.0	7,405.0	10,879.0	7,630.0	57.3	55.6	113.57	2,941.0	-404.9	560.1	458.1	101.98	5.492	
10,800.0	7,405.0	10,979.0	7,630.0	58.9	57.3	113.54	3,041.0	-404.9	560.9	455.8	105.12	5.336	
10,900.0	7,405.0	11,079.0	7,630.0	60.6	59.0	113.50	3,141.0	-404.9	561.7	453.4	108.27	5.188	
11,000.0	7,405.0	11,179.0	7,630.0	62.2	60.7	113.47	3,241.0	-404.9	562.5	451.1	111.42	5.048	
11,100.0	7,405.0	11,279.0	7,630.0	63.9	62.4	113.43	3,341.0	-404.9	563.3	448.7	114.58	4.916	
11,200.0	7,405.0	11,379.0	7,630.0	65.5	64.1	113.40	3,441.0	-404.9	564.1	446.4	117.75	4.791	
11,300.0	7,405.0	11,479.0	7,630.0	67.2	65.8	113.36	3,541.0	-404.9	564.9	444.0	120.93	4.672	
11,400.0	7,405.0	11,579.0	7,630.0	68.9	67.5	113.33	3,641.0	-404.9	565.7	441.6	124.11	4.558	
11,500.0	7,405.0	11,679.0	7,630.0	70.6	69.2	113.29	3,741.0	-404.9	566.5	439.2	127.29	4.451	
11,600.0	7,405.0	11,779.0	7,630.0	72.2	70.9	113.26	3,841.0	-404.9	567.3	436.8	130.48	4.348	
11,700.0	7,405.0	11,879.0	7,630.0	73.9	72.6	113.22	3,941.0	-404.9	568.1	434.4	133.67	4.250	
11,800.0	7,405.0	11,979.0	7,630.0	75.6	74.3	113.19	4,041.0	-404.9	568.9	432.1	136.87	4.157	
11,900.0	7,405.0	12,079.0	7,630.0	77.3	76.0	113.15	4,141.0	-404.9	569.7	429.7	140.08	4.067	
12,000.0	7,405.0	12,179.0	7,630.0	79.0	77.7	113.12	4,241.0	-404.9	570.5	427.2	143.28	3.982	
12,100.0	7,405.0	12,279.0	7,630.0	80.7	79.5	113.08	4,340.9	-404.9	571.3	424.8	146.50	3.900	
12,200.0	7,405.0	12,379.0	7,630.0	82.4	81.2	113.05	4,440.9	-404.9	572.1	422.4	149.71	3.822	
12,300.0	7,405.0	12,479.0	7,630.0	84.1	82.9	113.02	4,540.9	-404.9	572.9	420.0	152.93	3.746	
12,400.0	7,405.0	12,578.9	7,630.0	85.8	84.6	112.98	4,640.9	-404.9	573.7	417.6	156.15	3.674	
12,500.0	7,405.0	12,678.9	7,630.0	87.5	86.3	112.95	4,740.9	-404.9	574.5	415.2	159.38	3.605	
12,600.0	7,405.0	12,778.9	7,630.0	89.2	88.1	112.91	4,840.9	-404.9	575.3	412.7	162.61	3.538	
12,700.0	7,405.0	12,878.9	7,630.0	90.9	89.8	112.88	4,940.9	-404.9	576.2	410.3	165.84	3.474	
12,800.0	7,405.0	12,978.9	7,630.0	92.6	91.5	112.85	5,040.9	-404.9	577.0	407.9	169.07	3.412	
12,900.0	7,405.0	13,078.9	7,630.0	94.3	93.3	112.81	5,140.9	-404.9	577.8	405.5	172.31	3.353	
13,000.0	7,405.0	13,178.9	7,630.0	96.0	95.0	112.78	5,240.9	-404.9	578.6	403.0	175.55	3.296	
13,100.0	7,405.0	13,278.9	7,630.0	97.7	96.7	112.75	5,340.9	-404.9	579.4	400.6	178.80	3.240	
13,200.0	7,405.0	13,378.9	7,630.0	99.5	98.5	112.71	5,440.9	-404.9	580.2	398.1	182.04	3.187	
13,300.0	7,405.0	13,478.9	7,630.0	101.2	100.2	112.68	5,540.9	-404.9	581.0	395.7	185.29	3.136	
13,400.0	7,405.0	13,578.9	7,630.0	102.9	101.9	112.65	5,640.9	-404.9	581.8	393.2	188.54	3.086	
13,500.0	7,405.0	13,678.9	7,630.0	104.6	103.6	112.61	5,740.9	-404.9	582.6	390.8	191.79	3.038	
13,600.0	7,405.0	13,778.9	7,630.0	106.3	105.4	112.58	5,840.9	-404.9	583.4	388.3	195.05	2.991	
13,700.0	7,405.0	13,878.9	7,630.0	108.1	107.1	112.55	5,940.9	-404.9	584.2	385.9	198.31	2.946	
13,800.0	7,405.0	13,978.9	7,630.0	109.8	108.9	112.52	6,040.9	-404.9	584.7	383.5	201.26	2.905	
13,900.0	7,405.0	14,078.9	7,630.0	111.5	110.6	112.63	6,140.9	-404.9	582.6	379.2	203.44	2.864	
14,000.0	7,405.0	14,178.7	7,630.0	113.2	112.3	112.89	6,240.7	-404.9	577.3	372.1	205.16	2.814	
14,100.0	7,405.0	14,278.3	7,630.0	114.9	114.1	113.32	6,340.2	-404.9	568.7	362.4	206.36	2.756	
14,200.0	7,405.0	14,377.5	7,630.0	116.6	115.8	113.88	6,439.5	-404.9	557.3	349.5	207.77	2.682	
14,300.0	7,405.0	14,476.6	7,630.0	118.2	117.5	114.44	6,538.6	-404.9	545.4	335.3	210.07	2.596	
14,400.0	7,405.0	14,575.8	7,630.0	119.9	119.2	115.02	6,637.7	-404.9	533.5	321.2	212.28	2.513	
14,500.0	7,405.0	14,674.9	7,630.0	121.6	120.9	115.62	6,736.9	-404.9	521.6	307.3	214.39	2.433	
14,600.0	7,405.0	14,774.0	7,630.0	123.3	122.7	116.26	6,836.0	-404.9	509.9	293.5	216.41	2.356	
14,685.3	7,405.0	14,857.9	7,630.0	124.7	124.1	116.82	6,919.9	-404.9	499.9	281.8	218.04	2.293 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.05	0.0	29.9	29.9					
100.0	100.0	101.0	101.0	0.1	0.1	90.05	0.0	29.9	29.9	29.7	0.24	125.176		
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	29.9	29.9	29.3	0.59	50.888		
300.0	300.0	301.0	301.0	0.5	0.5	90.05	0.0	29.9	29.9	29.0	0.94	31.935		
400.0	400.0	401.0	401.0	0.6	0.6	90.05	0.0	29.9	29.9	28.6	1.29	23.269		
500.0	500.0	501.0	501.0	0.8	0.8	90.05	0.0	29.9	29.9	28.3	1.64	18.302		
600.0	600.0	601.0	601.0	1.0	1.0	90.05	0.0	29.9	29.9	27.9	1.98	15.083		
700.0	700.0	701.0	701.0	1.2	1.2	90.05	0.0	29.9	29.9	27.6	2.33	12.827 CC, ES		
800.0	800.0	801.0	801.0	1.3	1.3	-149.00	0.0	29.9	31.4	28.7	2.68	11.712		
900.0	899.8	900.8	900.8	1.5	1.5	-153.25	0.0	29.9	36.0	33.0	3.03	11.881		
1,000.0	999.5	1,000.5	1,000.5	1.7	1.7	-158.31	0.0	29.9	44.0	40.6	3.38	13.022		
1,100.0	1,098.7	1,101.0	1,101.0	2.0	1.9	-161.57	-1.6	29.1	54.3	50.6	3.72	14.584		
1,200.0	1,197.5	1,201.8	1,201.6	2.2	2.1	-162.37	-6.3	26.6	65.4	61.3	4.08	16.041		
1,300.0	1,296.2	1,302.9	1,302.3	2.5	2.2	-161.15	-14.2	22.5	74.8	70.4	4.46	16.791		
1,400.0	1,394.9	1,402.5	1,401.4	2.8	2.5	-159.44	-23.2	17.8	83.3	78.5	4.85	17.189		
1,500.0	1,493.6	1,502.1	1,500.5	3.1	2.7	-158.05	-32.3	13.0	91.9	86.6	5.25	17.503		
1,600.0	1,592.3	1,601.7	1,599.6	3.4	2.9	-156.90	-41.3	8.3	100.5	94.8	5.66	17.751		
1,700.0	1,691.0	1,701.3	1,698.6	3.7	3.1	-155.93	-50.4	3.6	109.1	103.0	6.08	17.947		
1,800.0	1,789.7	1,800.9	1,797.7	4.0	3.3	-155.10	-59.4	-1.2	117.8	111.3	6.51	18.103		
1,900.0	1,888.4	1,900.5	1,896.8	4.3	3.6	-154.39	-68.5	-5.9	126.4	119.5	6.94	18.228		
2,000.0	1,987.1	2,000.1	1,995.9	4.7	3.8	-153.76	-77.5	-10.7	135.1	127.8	7.37	18.328		
2,100.0	2,085.8	2,099.8	2,095.0	5.0	4.0	-153.22	-86.6	-15.4	143.9	136.0	7.81	18.409		
2,200.0	2,184.5	2,199.4	2,194.1	5.3	4.3	-152.73	-95.6	-20.1	152.6	144.3	8.26	18.475		
2,300.0	2,283.2	2,299.0	2,293.2	5.6	4.5	-152.30	-104.7	-24.9	161.3	152.6	8.71	18.529		
2,400.0	2,381.9	2,398.6	2,392.2	6.0	4.7	-151.91	-113.7	-29.6	170.1	160.9	9.16	18.573		
2,500.0	2,480.6	2,498.2	2,491.3	6.3	5.0	-151.56	-122.8	-34.4	178.8	169.2	9.61	18.610		
2,600.0	2,579.3	2,597.8	2,590.4	6.6	5.2	-151.24	-131.8	-39.1	187.6	177.5	10.06	18.639		
2,700.0	2,678.0	2,697.4	2,689.5	6.9	5.5	-150.96	-140.9	-43.8	196.3	185.8	10.52	18.664		
2,800.0	2,776.7	2,797.0	2,788.6	7.3	5.7	-150.69	-149.9	-48.6	205.1	194.1	10.98	18.684		
2,900.0	2,875.4	2,896.6	2,887.7	7.6	5.9	-150.45	-159.0	-53.3	213.8	202.4	11.44	18.701		
3,000.0	2,974.1	2,996.3	2,986.8	7.9	6.2	-150.22	-168.0	-58.1	222.6	210.7	11.90	18.714		
3,100.0	3,072.8	3,095.9	3,085.8	8.2	6.4	-150.02	-177.1	-62.8	231.4	219.0	12.36	18.726		
3,200.0	3,171.5	3,195.5	3,184.9	8.6	6.7	-149.83	-186.1	-67.5	240.2	227.3	12.82	18.735		
3,300.0	3,270.2	3,295.1	3,284.0	8.9	6.9	-149.65	-195.2	-72.3	248.9	235.7	13.28	18.742		
3,400.0	3,368.9	3,394.7	3,383.1	9.2	7.2	-149.48	-204.2	-77.0	257.7	244.0	13.75	18.748		
3,500.0	3,467.6	3,494.3	3,482.2	9.6	7.4	-149.33	-213.3	-81.7	266.5	252.3	14.21	18.753		
3,600.0	3,566.3	3,593.9	3,581.3	9.9	7.7	-149.18	-222.3	-86.5	275.3	260.6	14.68	18.757		
3,700.0	3,665.0	3,693.5	3,680.4	10.2	7.9	-149.05	-231.4	-91.2	284.1	268.9	15.14	18.760		
3,800.0	3,763.7	3,793.1	3,779.4	10.6	8.1	-148.92	-240.4	-96.0	292.9	277.3	15.61	18.762		
3,900.0	3,862.4	3,892.8	3,878.5	10.9	8.4	-148.80	-249.5	-100.7	301.7	285.6	16.08	18.763		
4,000.0	3,961.1	3,992.4	3,977.6	11.2	8.6	-148.68	-258.5	-105.4	310.5	293.9	16.54	18.764		
4,100.0	4,059.8	4,092.0	4,076.7	11.5	8.9	-148.58	-267.6	-110.2	319.2	302.2	17.01	18.765		
4,200.0	4,158.5	4,191.6	4,175.8	11.9	9.1	-148.48	-276.6	-114.9	328.0	310.6	17.48	18.765		
4,300.0	4,257.2	4,291.2	4,274.9	12.2	9.4	-148.38	-285.7	-119.7	336.8	318.9	17.95	18.765		
4,400.0	4,355.9	4,390.8	4,374.0	12.5	9.6	-148.29	-294.7	-124.4	345.6	327.2	18.42	18.764		
4,500.0	4,454.6	4,490.4	4,473.0	12.9	9.9	-148.20	-303.8	-129.1	354.4	335.5	18.89	18.763		
4,600.0	4,553.3	4,590.0	4,572.1	13.2	10.1	-148.12	-312.8	-133.9	363.2	343.9	19.36	18.762		
4,700.0	4,652.0	4,689.6	4,671.2	13.5	10.4	-148.04	-321.9	-138.6	372.0	352.2	19.83	18.761		
4,800.0	4,750.7	4,789.2	4,770.3	13.9	10.6	-147.96	-330.9	-143.4	380.8	360.5	20.30	18.760		
4,900.0	4,849.4	4,888.9	4,869.4	14.2	10.9	-147.89	-340.0	-148.1	389.6	368.8	20.77	18.758		
5,000.0	4,948.1	4,988.5	4,968.5	14.5	11.1	-147.82	-349.0	-152.8	398.4	377.2	21.24	18.757		
5,100.0	5,046.8	5,088.1	5,067.6	14.9	11.4	-147.76	-358.1	-157.6	407.2	385.5	21.71	18.755		

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 4F-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 4F-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 #2	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		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,145.5	5,187.7	5,166.6	15.2	11.6	-147.70	-367.1	-162.3	416.0	393.8	22.18	18.754		
5,300.0	5,244.2	5,287.3	5,265.7	15.5	11.9	-147.64	-376.2	-167.1	424.8	402.2	22.65	18.752		
5,400.0	5,342.9	5,386.9	5,364.8	15.9	12.1	-147.58	-385.2	-171.8	433.6	410.5	23.13	18.750		
5,500.0	5,441.6	5,486.5	5,463.9	16.2	12.3	-147.52	-394.3	-176.5	442.4	418.8	23.60	18.748		
5,600.0	5,540.3	5,586.1	5,563.0	16.5	12.6	-147.47	-403.3	-181.3	451.2	427.1	24.07	18.746		
5,700.0	5,639.0	5,685.7	5,662.1	16.8	12.8	-147.42	-412.3	-186.0	460.0	435.5	24.54	18.744		
5,800.0	5,737.7	5,785.4	5,761.2	17.2	13.1	-147.37	-421.4	-190.7	468.8	443.8	25.01	18.743		
5,900.0	5,836.4	5,885.0	5,860.3	17.5	13.3	-147.32	-430.4	-195.5	477.6	452.1	25.49	18.741		
6,000.0	5,935.1	5,984.6	5,959.3	17.8	13.6	-147.28	-439.5	-200.2	486.4	460.5	25.96	18.739		
6,100.0	6,033.8	6,084.2	6,058.4	18.2	13.8	-147.23	-448.5	-205.0	495.2	468.8	26.43	18.737		
6,200.0	6,132.5	6,183.8	6,157.5	18.5	14.1	-147.19	-457.6	-209.7	504.0	477.1	26.90	18.735		
6,300.0	6,231.2	6,283.4	6,256.6	18.8	14.3	-147.15	-466.6	-214.4	512.8	485.5	27.38	18.733		
6,400.0	6,329.9	6,383.0	6,355.7	19.2	14.6	-147.11	-475.7	-219.2	521.6	493.8	27.85	18.731		
6,500.0	6,428.6	6,482.6	6,454.8	19.5	14.8	-147.07	-484.7	-223.9	530.5	502.1	28.32	18.729		
6,600.0	6,527.3	6,582.2	6,553.9	19.8	15.1	-147.03	-493.8	-228.7	539.3	510.5	28.80	18.727		
6,700.0	6,626.0	6,681.9	6,652.9	20.2	15.3	-147.00	-502.8	-233.4	548.1	518.8	29.27	18.725		
6,800.0	6,724.7	6,781.5	6,752.0	20.5	15.6	-146.96	-511.9	-238.1	556.9	527.1	29.74	18.723		
6,900.0	6,823.4	6,880.3	6,850.6	20.8	15.7	-169.27	-516.6	-242.8	565.7	535.8	29.98	18.871		
7,000.0	6,922.2	6,978.1	6,947.4	21.0	15.7	131.85	-505.1	-247.2	575.0	545.3	29.70	19.357		
7,100.0	7,018.3	7,074.9	7,040.1	21.1	15.6	111.11	-477.8	-251.2	584.3	555.2	29.18	20.025		
7,200.0	7,109.0	7,171.0	7,126.2	21.0	15.3	102.48	-435.6	-254.7	593.6	565.1	28.52	20.816		
7,300.0	7,191.4	7,266.5	7,203.7	20.9	15.0	97.69	-379.9	-257.6	602.4	574.5	27.82	21.652		
7,400.0	7,263.1	7,361.6	7,270.6	20.8	14.7	94.62	-312.5	-259.9	610.5	583.2	27.20	22.442		
7,500.0	7,321.8	7,456.4	7,325.3	20.7	14.4	92.54	-235.3	-261.5	617.6	590.8	26.75	23.085		
7,600.0	7,365.8	7,550.0	7,366.1	20.6	14.3	91.14	-151.2	-262.4	623.5	596.9	26.55	23.482		
7,700.0	7,393.8	7,645.8	7,393.2	20.7	14.3	90.29	-59.4	-262.6	628.0	601.4	26.66	23.561		
7,800.0	7,404.8	7,740.6	7,404.6	20.8	14.4	89.92	34.6	-261.9	631.1	604.0	27.08	23.301		
7,900.0	7,405.0	7,839.4	7,405.0	21.1	14.8	89.91	133.4	-260.8	633.2	605.2	27.95	22.657		
8,000.0	7,405.0	7,939.4	7,405.0	21.5	15.4	89.91	233.3	-259.5	635.3	606.1	29.19	21.760		
8,100.0	7,405.0	8,039.3	7,405.0	22.1	16.1	89.91	333.3	-258.3	637.3	606.6	30.79	20.698		
8,200.0	7,405.0	8,139.3	7,405.0	22.8	17.0	89.91	433.3	-257.1	639.4	606.7	32.69	19.560		
8,300.0	7,405.0	8,239.3	7,405.0	23.6	18.0	89.91	533.3	-255.9	641.5	606.7	34.84	18.413		
8,400.0	7,405.0	8,339.3	7,405.0	24.4	19.1	89.91	633.2	-254.7	643.6	606.4	37.20	17.303		
8,500.0	7,405.0	8,439.2	7,405.0	25.4	20.3	89.91	733.2	-253.4	645.7	606.0	39.73	16.255		
8,600.0	7,405.0	8,539.2	7,405.0	26.5	21.6	89.91	833.2	-252.2	647.8	605.4	42.39	15.282		
8,700.0	7,405.0	8,639.2	7,405.0	27.6	23.0	89.91	933.1	-251.0	649.9	604.7	45.17	14.387		
8,800.0	7,405.0	8,739.2	7,405.0	28.8	24.4	89.91	1,033.1	-249.8	652.0	604.0	48.05	13.569		
8,900.0	7,405.0	8,839.2	7,405.0	30.1	25.8	89.91	1,133.1	-248.5	654.1	603.1	51.01	12.823		
9,000.0	7,405.0	8,939.1	7,405.0	31.4	27.3	89.91	1,233.0	-247.3	656.2	602.2	54.03	12.145		
9,100.0	7,405.0	9,039.1	7,405.0	32.7	28.8	89.91	1,333.0	-246.1	658.3	601.2	57.11	11.527		
9,200.0	7,405.0	9,139.1	7,405.0	34.1	30.3	89.91	1,433.0	-244.9	660.4	600.1	60.23	10.964		
9,300.0	7,405.0	9,239.1	7,405.0	35.5	31.9	89.91	1,533.0	-243.7	662.5	599.1	63.40	10.449		
9,400.0	7,405.0	9,339.0	7,405.0	36.9	33.5	89.91	1,632.9	-242.4	664.6	598.0	66.60	9.979		
9,500.0	7,405.0	9,439.0	7,405.0	38.4	35.1	89.91	1,732.9	-241.2	666.7	596.8	69.83	9.547		
9,600.0	7,405.0	9,539.0	7,405.0	39.9	36.7	89.91	1,832.9	-240.0	668.8	595.7	73.08	9.151		
9,700.0	7,405.0	9,639.0	7,405.0	41.4	38.3	89.91	1,932.8	-238.8	670.9	594.5	76.36	8.786		
9,800.0	7,405.0	9,739.0	7,405.0	42.9	39.9	89.91	2,032.8	-237.6	672.9	593.3	79.66	8.448		
9,900.0	7,405.0	9,838.9	7,405.0	44.5	41.6	89.92	2,132.8	-236.3	675.0	592.1	82.97	8.136		
10,000.0	7,405.0	9,938.9	7,405.0	46.0	43.2	89.92	2,232.8	-235.1	677.1	590.8	86.30	7.846		
10,100.0	7,405.0	10,038.9	7,405.0	47.6	44.9	89.92	2,332.7	-233.9	679.2	589.6	89.64	7.577		
10,200.0	7,405.0	10,138.9	7,405.0	49.2	46.6	89.92	2,432.7	-232.7	681.3	588.3	93.00	7.326		
10,300.0	7,405.0	10,238.9	7,405.0	50.8	48.2	89.92	2,532.7	-231.4	683.4	587.1	96.36	7.092		

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 4F-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 4F-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 #2	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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
10,400.0	7,405.0	10,338.8	7,405.0	52.4	49.9	89.92	2,632.6	-230.2	685.5	585.8	99.74	6.873		
10,500.0	7,405.0	10,438.8	7,405.0	54.0	51.6	89.92	2,732.6	-229.0	687.6	584.5	103.12	6.668		
10,600.0	7,405.0	10,538.8	7,405.0	55.6	53.3	89.92	2,832.6	-227.8	689.7	583.2	106.52	6.475		
10,700.0	7,405.0	10,638.8	7,405.0	57.3	55.0	89.92	2,932.5	-226.6	691.8	581.9	109.91	6.294		
10,800.0	7,405.0	10,738.7	7,405.0	58.9	56.7	89.92	3,032.5	-225.3	693.9	580.6	113.32	6.123		
10,900.0	7,405.0	10,838.7	7,405.0	60.6	58.4	89.92	3,132.5	-224.1	696.0	579.2	116.73	5.962		
11,000.0	7,405.0	10,938.7	7,405.0	62.2	60.1	89.92	3,232.5	-222.9	698.1	577.9	120.15	5.810		
11,100.0	7,405.0	11,038.7	7,405.0	63.9	61.8	89.92	3,332.4	-221.7	700.2	576.6	123.57	5.666		
11,200.0	7,405.0	11,138.7	7,405.0	65.5	63.5	89.92	3,432.4	-220.5	702.3	575.3	127.00	5.530		
11,300.0	7,405.0	11,238.6	7,405.0	67.2	65.2	89.92	3,532.4	-219.2	704.4	573.9	130.43	5.400		
11,400.0	7,405.0	11,338.6	7,405.0	68.9	66.9	89.92	3,632.3	-218.0	706.5	572.6	133.87	5.277		
11,500.0	7,405.0	11,438.6	7,405.0	70.6	68.6	89.92	3,732.3	-216.8	708.5	571.2	137.31	5.160		
11,600.0	7,405.0	11,538.6	7,405.0	72.2	70.3	89.92	3,832.3	-215.6	710.6	569.9	140.75	5.049		
11,700.0	7,405.0	11,638.5	7,405.0	73.9	72.1	89.92	3,932.3	-214.4	712.7	568.5	144.20	4.943		
11,800.0	7,405.0	11,738.5	7,405.0	75.6	73.8	89.92	4,032.2	-213.1	714.8	567.2	147.64	4.842		
11,900.0	7,405.0	11,838.5	7,405.0	77.3	75.5	89.92	4,132.2	-211.9	716.9	565.8	151.10	4.745		
12,000.0	7,405.0	11,938.5	7,405.0	79.0	77.2	89.92	4,232.2	-210.7	719.0	564.5	154.55	4.652		
12,100.0	7,405.0	12,038.5	7,405.0	80.7	78.9	89.92	4,332.1	-209.5	721.1	563.1	158.01	4.564		
12,200.0	7,405.0	12,138.4	7,405.0	82.4	80.7	89.92	4,432.1	-208.2	723.2	561.7	161.46	4.479		
12,300.0	7,405.0	12,238.4	7,405.0	84.1	82.4	89.92	4,532.1	-207.0	725.3	560.4	164.93	4.398		
12,400.0	7,405.0	12,338.4	7,405.0	85.8	84.1	89.92	4,632.0	-205.8	727.4	559.0	168.39	4.320		
12,500.0	7,405.0	12,438.4	7,405.0	87.5	85.9	89.92	4,732.0	-204.6	729.5	557.6	171.85	4.245		
12,600.0	7,405.0	12,538.3	7,405.0	89.2	87.6	89.92	4,832.0	-203.4	731.6	556.3	175.32	4.173		
12,700.0	7,405.0	12,638.3	7,405.0	90.9	89.3	89.92	4,932.0	-202.1	733.7	554.9	178.79	4.104		
12,800.0	7,405.0	12,738.3	7,405.0	92.6	91.0	89.92	5,031.9	-200.9	735.8	553.5	182.25	4.037		
12,900.0	7,405.0	12,838.3	7,405.0	94.3	92.8	89.92	5,131.9	-199.7	737.9	552.1	185.73	3.973		
13,000.0	7,405.0	12,938.3	7,405.0	96.0	94.5	89.92	5,231.9	-198.5	740.0	550.8	189.20	3.911		
13,100.0	7,405.0	13,038.2	7,405.0	97.7	96.2	89.92	5,331.8	-197.3	742.1	549.4	192.67	3.851		
13,200.0	7,405.0	13,138.2	7,405.0	99.5	98.0	89.92	5,431.8	-196.0	744.1	548.0	196.14	3.794		
13,300.0	7,405.0	13,238.2	7,405.0	101.2	99.7	89.92	5,531.8	-194.8	746.2	546.6	199.62	3.738		
13,400.0	7,405.0	13,338.2	7,405.0	102.9	101.5	89.92	5,631.8	-193.6	748.3	545.2	203.10	3.685		
13,500.0	7,405.0	13,438.1	7,405.0	104.6	103.2	89.92	5,731.7	-192.4	750.4	543.9	206.57	3.633		
13,600.0	7,405.0	13,538.1	7,405.0	106.3	104.9	89.92	5,831.7	-191.1	752.5	542.5	210.05	3.583		
13,700.0	7,405.0	13,638.1	7,405.0	108.1	106.7	89.92	5,931.7	-189.9	754.6	541.1	213.53	3.534		
13,800.0	7,405.0	13,738.1	7,405.0	109.8	108.4	89.92	6,031.6	-188.7	756.4	539.7	216.73	3.490		
13,900.0	7,405.0	13,838.1	7,405.0	111.5	110.1	89.92	6,131.6	-187.5	755.3	536.0	219.35	3.444		
14,000.0	7,405.0	13,938.0	7,405.0	113.2	111.9	89.92	6,231.5	-186.3	750.8	529.1	221.71	3.386		
14,100.0	7,405.0	14,037.6	7,405.0	114.9	113.6	89.92	6,331.2	-185.0	742.7	518.9	223.79	3.319		
14,200.0	7,405.0	14,137.0	7,405.0	116.6	115.3	89.92	6,430.5	-183.8	731.5	505.2	226.30	3.232		
14,300.0	7,405.0	14,236.3	7,405.0	118.2	117.1	89.92	6,529.8	-182.6	719.6	489.9	229.76	3.132		
14,400.0	7,405.0	14,335.6	7,405.0	119.9	118.8	89.92	6,629.1	-181.4	707.8	474.5	233.23	3.035		
14,485.7	7,405.0	14,337.4	7,405.0	121.4	118.8	89.92	6,630.9	-181.4	702.5	467.8	234.75	2.993		
14,500.0	7,405.0	14,337.4	7,405.0	121.6	118.8	89.92	6,630.9	-181.4	702.7	467.7	235.00	2.990 SF		
14,600.0	7,405.0	14,337.4	7,405.0	123.3	118.8	89.92	6,630.9	-181.4	711.8	475.0	236.75	3.006		
14,685.3	7,405.0	14,337.4	7,405.0	124.7	118.8	89.92	6,630.9	-181.4	730.3	492.1	238.24	3.066		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4J-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	40.0	40.0	39.8	0.24	168.521		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	40.0	40.0	39.4	0.59	68.211		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	40.0	40.0	39.1	0.94	42.759		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	40.0	40.0	38.7	1.28	31.140		
500.0	500.0	500.0	500.0	0.8	0.8	90.05	0.0	40.0	40.0	38.4	1.63	24.486		
600.0	600.0	600.0	600.0	1.0	1.0	90.05	0.0	40.0	40.0	38.0	1.98	20.175		
700.0	700.0	700.0	700.0	1.2	1.2	90.05	0.0	40.0	40.0	37.7	2.33	17.155	CC, ES	
800.0	800.0	800.0	800.0	1.3	1.3	-148.58	0.0	40.0	41.5	38.8	2.68	15.475		
900.0	899.8	899.8	899.8	1.5	1.5	-151.93	0.0	40.0	46.0	43.0	3.03	15.198		
1,000.0	999.5	999.5	999.5	1.7	1.7	-156.23	0.0	40.0	53.9	50.5	3.38	15.962		
1,100.0	1,098.7	1,098.7	1,098.7	2.0	1.9	-160.47	0.0	40.0	65.2	61.5	3.72	17.539		
1,200.0	1,197.5	1,197.8	1,197.8	2.2	2.0	-162.92	-1.7	40.3	79.7	75.7	4.07	19.614		
1,300.0	1,296.2	1,297.0	1,296.8	2.5	2.2	-162.68	-6.7	41.2	94.6	90.2	4.43	21.356		
1,400.0	1,394.9	1,396.1	1,395.6	2.8	2.4	-160.78	-14.9	42.6	109.2	104.4	4.81	22.687		
1,500.0	1,493.6	1,494.9	1,494.0	3.1	2.6	-158.96	-23.9	44.2	123.9	118.7	5.21	23.767		
1,600.0	1,592.3	1,593.8	1,592.4	3.4	2.8	-157.52	-32.9	45.8	138.7	133.0	5.62	24.665		
1,700.0	1,691.0	1,692.6	1,690.8	3.7	3.0	-156.36	-41.9	47.4	153.5	147.5	6.04	25.418		
1,800.0	1,789.7	1,791.5	1,789.3	4.0	3.2	-155.41	-50.9	48.9	168.4	161.9	6.46	26.054		
1,900.0	1,888.4	1,890.3	1,887.7	4.3	3.4	-154.61	-59.9	50.5	183.3	176.4	6.89	26.595		
2,000.0	1,987.1	1,989.2	1,986.1	4.7	3.7	-153.93	-68.9	52.1	198.3	190.9	7.33	27.060		
2,100.0	2,085.8	2,088.0	2,084.5	5.0	3.9	-153.34	-77.9	53.7	213.2	205.5	7.77	27.462		
2,200.0	2,184.5	2,186.9	2,183.0	5.3	4.1	-152.84	-86.9	55.3	228.2	220.0	8.21	27.812		
2,300.0	2,283.2	2,285.7	2,281.4	5.6	4.3	-152.39	-95.9	56.9	243.3	234.6	8.65	28.120		
2,400.0	2,381.9	2,384.6	2,379.8	6.0	4.5	-152.00	-104.9	58.4	258.3	249.2	9.10	28.391		
2,500.0	2,480.6	2,483.4	2,478.2	6.3	4.8	-151.65	-113.9	60.0	273.3	263.8	9.55	28.632		
2,600.0	2,579.3	2,582.3	2,576.7	6.6	5.0	-151.33	-122.9	61.6	288.4	278.4	10.00	28.847		
2,700.0	2,678.0	2,681.1	2,675.1	6.9	5.2	-151.05	-132.0	63.2	303.4	293.0	10.45	29.041		
2,800.0	2,776.7	2,780.0	2,773.5	7.3	5.4	-150.80	-141.0	64.8	318.5	307.6	10.90	29.215		
2,900.0	2,875.4	2,878.8	2,872.0	7.6	5.7	-150.56	-150.0	66.3	333.5	322.2	11.36	29.373		
3,000.0	2,974.1	2,977.7	2,970.4	7.9	5.9	-150.35	-159.0	67.9	348.6	336.8	11.81	29.516		
3,100.0	3,072.8	3,076.5	3,068.8	8.2	6.1	-150.16	-168.0	69.5	363.7	351.4	12.27	29.647		
3,200.0	3,171.5	3,175.4	3,167.2	8.6	6.4	-149.98	-177.0	71.1	378.8	366.0	12.72	29.767		
3,300.0	3,270.2	3,274.2	3,265.7	8.9	6.6	-149.81	-186.0	72.7	393.9	380.7	13.18	29.877		
3,400.0	3,368.9	3,373.1	3,364.1	9.2	6.8	-149.66	-195.0	74.3	408.9	395.3	13.64	29.979		
3,500.0	3,467.6	3,471.9	3,462.5	9.6	7.0	-149.52	-204.0	75.8	424.0	409.9	14.10	30.073		
3,600.0	3,566.3	3,570.8	3,560.9	9.9	7.3	-149.38	-213.0	77.4	439.1	424.6	14.56	30.160		
3,700.0	3,665.0	3,669.6	3,659.4	10.2	7.5	-149.26	-222.0	79.0	454.2	439.2	15.02	30.240		
3,800.0	3,763.7	3,768.5	3,757.8	10.6	7.7	-149.14	-231.0	80.6	469.3	453.8	15.48	30.316		
3,900.0	3,862.4	3,867.3	3,856.2	10.9	8.0	-149.04	-240.0	82.2	484.4	468.5	15.94	30.386		
4,000.0	3,961.1	3,966.2	3,954.6	11.2	8.2	-148.93	-249.0	83.7	499.5	483.1	16.40	30.452		
4,100.0	4,059.8	4,065.0	4,053.1	11.5	8.4	-148.84	-258.0	85.3	514.6	497.7	16.86	30.513		
4,200.0	4,158.5	4,163.9	4,151.5	11.9	8.7	-148.75	-267.0	86.9	529.7	512.4	17.33	30.571		
4,300.0	4,257.2	4,262.7	4,249.9	12.2	8.9	-148.66	-276.0	88.5	544.8	527.0	17.79	30.625		
4,400.0	4,355.9	4,361.6	4,348.4	12.5	9.1	-148.58	-285.0	90.1	559.9	541.6	18.25	30.676		
4,500.0	4,454.6	4,460.4	4,446.8	12.9	9.4	-148.50	-294.0	91.7	575.0	556.3	18.71	30.725		
4,600.0	4,553.3	4,559.3	4,545.2	13.2	9.6	-148.43	-303.0	93.2	590.1	570.9	19.18	30.771		
4,700.0	4,652.0	4,658.1	4,643.6	13.5	9.8	-148.36	-312.0	94.8	605.2	585.6	19.64	30.814		
4,800.0	4,750.7	4,757.0	4,742.1	13.9	10.1	-148.30	-321.0	96.4	620.3	600.2	20.10	30.855		
4,900.0	4,849.4	4,855.8	4,840.5	14.2	10.3	-148.23	-330.0	98.0	635.4	614.9	20.57	30.894		
5,000.0	4,948.1	4,954.7	4,938.9	14.5	10.5	-148.17	-339.0	99.6	650.5	629.5	21.03	30.931		
5,100.0	5,046.8	5,053.5	5,037.3	14.9	10.8	-148.12	-348.0	101.1	665.6	644.1	21.50	30.966		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4J-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,145.5	5,152.4	5,135.8	15.2	11.0	-148.06	-357.0	102.7	680.8	658.8	21.96	30.999		
5,300.0	5,244.2	5,251.2	5,234.2	15.5	11.2	-148.01	-366.0	104.3	695.9	673.4	22.42	31.031		
5,400.0	5,342.9	5,350.1	5,332.6	15.9	11.5	-147.96	-375.0	105.9	711.0	688.1	22.89	31.062		
5,500.0	5,441.6	5,448.9	5,431.0	16.2	11.7	-147.91	-384.0	107.5	726.1	702.7	23.35	31.091		
5,600.0	5,540.3	5,547.8	5,529.5	16.5	11.9	-147.87	-393.0	109.1	741.2	717.4	23.82	31.119		
5,700.0	5,639.0	5,646.6	5,627.9	16.8	12.2	-147.82	-402.0	110.6	756.3	732.0	24.28	31.145		
5,800.0	5,737.7	5,745.5	5,726.3	17.2	12.4	-147.78	-411.0	112.2	771.4	746.7	24.75	31.171		
5,900.0	5,836.4	5,844.3	5,824.7	17.5	12.6	-147.74	-420.0	113.8	786.5	761.3	25.21	31.195		
6,000.0	5,935.1	5,943.2	5,923.2	17.8	12.9	-147.70	-429.0	115.4	801.6	776.0	25.68	31.219		
6,100.0	6,033.8	6,042.0	6,021.6	18.2	13.1	-147.66	-438.0	117.0	816.8	790.6	26.14	31.241		
6,200.0	6,132.5	6,140.9	6,120.0	18.5	13.3	-147.63	-447.0	118.5	831.9	805.3	26.61	31.263		
6,300.0	6,231.2	6,239.7	6,218.5	18.8	13.6	-147.59	-456.0	120.1	847.0	819.9	27.07	31.284		
6,400.0	6,329.9	6,338.6	6,316.9	19.2	13.8	-147.56	-465.0	121.7	862.1	834.6	27.54	31.304		
6,500.0	6,428.6	6,437.4	6,415.3	19.5	14.0	-147.52	-474.0	123.3	877.2	849.2	28.01	31.323		
6,600.0	6,527.3	6,536.3	6,513.7	19.8	14.3	-147.49	-483.0	124.9	892.3	863.9	28.47	31.342		
6,700.0	6,626.0	6,635.1	6,612.2	20.2	14.5	-147.46	-492.0	126.5	907.4	878.5	28.94	31.360		
6,800.0	6,724.7	6,734.0	6,710.6	20.5	14.7	-147.43	-501.0	128.0	922.6	893.2	29.40	31.377		
6,900.0	6,823.4	6,832.8	6,809.0	20.8	15.0	-169.57	-510.0	129.6	937.7	907.9	29.78	31.486		
7,000.0	6,922.2	6,931.0	6,906.9	21.0	15.2	132.32	-517.8	131.2	952.9	923.0	29.92	31.849		
7,100.0	7,018.3	7,031.7	7,007.3	21.1	15.2	112.52	-511.6	132.7	968.2	938.4	29.78	32.516		
7,200.0	7,109.0	7,135.9	7,108.3	21.0	15.1	104.75	-486.9	134.2	983.0	953.6	29.35	33.486		
7,300.0	7,191.4	7,243.7	7,206.4	20.9	14.8	100.75	-442.5	135.6	996.8	968.0	28.73	34.698		
7,400.0	7,263.1	7,355.5	7,297.4	20.8	14.4	98.37	-377.9	136.8	1,009.1	981.1	28.00	36.040		
7,500.0	7,321.8	7,471.0	7,376.5	20.7	14.0	96.85	-294.0	137.8	1,019.6	992.3	27.32	37.314		
7,600.0	7,365.8	7,589.8	7,438.6	20.6	13.6	95.88	-193.0	138.4	1,027.6	1,000.8	26.87	38.243		
7,700.0	7,393.8	7,711.1	7,479.1	20.7	13.5	95.29	-78.9	138.7	1,033.0	1,006.2	26.82	38.521		
7,800.0	7,404.8	7,833.6	7,494.9	20.8	13.8	95.00	42.4	138.5	1,035.4	1,008.1	27.27	37.973		
7,900.0	7,405.0	7,936.0	7,495.0	21.1	14.2	94.98	144.7	138.1	1,035.9	1,007.8	28.15	36.796		
8,000.0	7,405.0	8,036.0	7,495.0	21.5	14.8	94.98	244.7	137.8	1,036.5	1,007.0	29.41	35.245		
8,100.0	7,405.0	8,136.0	7,495.0	22.1	15.6	94.98	344.7	137.4	1,037.0	1,006.0	31.01	33.445		
8,200.0	7,405.0	8,236.0	7,495.0	22.8	16.6	94.98	444.7	137.1	1,037.5	1,004.6	32.90	31.536		
8,300.0	7,405.0	8,336.0	7,495.0	23.6	17.6	94.97	544.7	136.7	1,038.0	1,003.0	35.04	29.624		
8,400.0	7,405.0	8,436.0	7,495.0	24.4	18.8	94.97	644.7	136.4	1,038.5	1,001.2	37.38	27.780		
8,500.0	7,405.0	8,536.0	7,495.0	25.4	20.1	94.97	744.7	136.0	1,039.1	999.2	39.90	26.042		
8,600.0	7,405.0	8,636.0	7,495.0	26.5	21.4	94.97	844.7	135.7	1,039.6	997.0	42.55	24.431		
8,700.0	7,405.0	8,736.0	7,495.0	27.6	22.8	94.96	944.7	135.3	1,040.1	994.8	45.32	22.950		
8,800.0	7,405.0	8,836.0	7,495.0	28.8	24.2	94.96	1,044.7	135.0	1,040.6	992.4	48.18	21.597		
8,900.0	7,405.0	8,936.0	7,495.0	30.1	25.7	94.96	1,144.7	134.6	1,041.1	990.0	51.12	20.365		
9,000.0	7,405.0	9,036.0	7,495.0	31.4	27.2	94.96	1,244.7	134.3	1,041.7	987.5	54.13	19.243		
9,100.0	7,405.0	9,136.0	7,495.0	32.7	28.7	94.95	1,344.7	133.9	1,042.2	985.0	57.19	18.222		
9,200.0	7,405.0	9,236.0	7,495.0	34.1	30.3	94.95	1,444.7	133.6	1,042.7	982.4	60.30	17.291		
9,300.0	7,405.0	9,335.9	7,495.0	35.5	31.9	94.95	1,544.7	133.2	1,043.2	979.8	63.45	16.441		
9,400.0	7,405.0	9,435.9	7,495.0	36.9	33.4	94.95	1,644.7	132.9	1,043.8	977.1	66.64	15.663		
9,500.0	7,405.0	9,535.9	7,495.0	38.4	35.1	94.94	1,744.7	132.5	1,044.3	974.4	69.85	14.949		
9,600.0	7,405.0	9,635.9	7,495.0	39.9	36.7	94.94	1,844.7	132.2	1,044.8	971.7	73.09	14.294		
9,700.0	7,405.0	9,735.9	7,495.0	41.4	38.3	94.94	1,944.7	131.8	1,045.3	969.0	76.36	13.690		
9,800.0	7,405.0	9,835.9	7,495.0	42.9	40.0	94.94	2,044.7	131.5	1,045.8	966.2	79.64	13.132		
9,900.0	7,405.0	9,935.9	7,495.0	44.5	41.6	94.93	2,144.7	131.2	1,046.4	963.4	82.94	12.616		
10,000.0	7,405.0	10,035.9	7,495.0	46.0	43.3	94.93	2,244.7	130.8	1,046.9	960.6	86.26	12.137		
10,100.0	7,405.0	10,135.9	7,495.0	47.6	45.0	94.93	2,344.7	130.5	1,047.4	957.8	89.58	11.692		
10,200.0	7,405.0	10,235.9	7,495.0	49.2	46.6	94.93	2,444.7	130.1	1,047.9	955.0	92.93	11.277		
10,300.0	7,405.0	10,335.9	7,495.0	50.8	48.3	94.92	2,544.7	129.8	1,048.4	952.2	96.28	10.890		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4J-26H-P268 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,405.0	10,435.9	7,495.0	52.4	50.0	94.92	2,644.7	129.4	1,049.0	949.3	99.64	10.528		
10,500.0	7,405.0	10,535.9	7,495.0	54.0	51.7	94.92	2,744.7	129.1	1,049.5	946.5	103.01	10.188		
10,600.0	7,405.0	10,635.9	7,495.0	55.6	53.4	94.92	2,844.7	128.7	1,050.0	943.6	106.39	9.869		
10,700.0	7,405.0	10,735.9	7,495.0	57.3	55.1	94.91	2,944.7	128.4	1,050.5	940.8	109.78	9.570		
10,800.0	7,405.0	10,835.9	7,495.0	58.9	56.8	94.91	3,044.7	128.0	1,051.1	937.9	113.17	9.287		
10,900.0	7,405.0	10,935.9	7,495.0	60.6	58.5	94.91	3,144.7	127.7	1,051.6	935.0	116.57	9.021		
11,000.0	7,405.0	11,035.9	7,495.0	62.2	60.2	94.91	3,244.6	127.3	1,052.1	932.1	119.97	8.769		
11,100.0	7,405.0	11,135.9	7,495.0	63.9	61.9	94.90	3,344.6	127.0	1,052.6	929.2	123.38	8.531		
11,200.0	7,405.0	11,235.9	7,495.0	65.5	63.6	94.90	3,444.6	126.6	1,053.1	926.3	126.80	8.306		
11,300.0	7,405.0	11,335.9	7,495.0	67.2	65.3	94.90	3,544.6	126.3	1,053.7	923.4	130.22	8.091		
11,400.0	7,405.0	11,435.9	7,495.0	68.9	67.0	94.90	3,644.6	125.9	1,054.2	920.5	133.64	7.888		
11,500.0	7,405.0	11,535.9	7,495.0	70.6	68.8	94.90	3,744.6	125.6	1,054.7	917.6	137.07	7.695		
11,600.0	7,405.0	11,635.9	7,495.0	72.2	70.5	94.89	3,844.6	125.2	1,055.2	914.7	140.50	7.511		
11,700.0	7,405.0	11,735.9	7,495.0	73.9	72.2	94.89	3,944.6	124.9	1,055.7	911.8	143.93	7.335		
11,800.0	7,405.0	11,835.9	7,495.0	75.6	73.9	94.89	4,044.6	124.5	1,056.3	908.9	147.37	7.168		
11,900.0	7,405.0	11,935.9	7,495.0	77.3	75.7	94.89	4,144.6	124.2	1,056.8	906.0	150.81	7.008		
12,000.0	7,405.0	12,035.9	7,495.0	79.0	77.4	94.88	4,244.6	123.8	1,057.3	903.1	154.25	6.855		
12,100.0	7,405.0	12,135.9	7,495.0	80.7	79.1	94.88	4,344.6	123.5	1,057.8	900.1	157.69	6.708		
12,200.0	7,405.0	12,235.9	7,495.0	82.4	80.8	94.88	4,444.6	123.1	1,058.4	897.2	161.14	6.568		
12,300.0	7,405.0	12,335.9	7,495.0	84.1	82.6	94.88	4,544.6	122.8	1,058.9	894.3	164.59	6.433		
12,400.0	7,405.0	12,435.9	7,495.0	85.8	84.3	94.87	4,644.6	122.4	1,059.4	891.4	168.04	6.304		
12,500.0	7,405.0	12,535.9	7,495.0	87.5	86.0	94.87	4,744.6	122.1	1,059.9	888.4	171.49	6.181		
12,600.0	7,405.0	12,635.9	7,495.0	89.2	87.8	94.87	4,844.6	121.7	1,060.4	885.5	174.94	6.062		
12,700.0	7,405.0	12,735.9	7,495.0	90.9	89.5	94.87	4,944.6	121.4	1,061.0	882.6	178.40	5.947		
12,800.0	7,405.0	12,835.9	7,495.0	92.6	91.2	94.86	5,044.6	121.0	1,061.5	879.6	181.86	5.837		
12,900.0	7,405.0	12,935.9	7,495.0	94.3	93.0	94.86	5,144.6	120.7	1,062.0	876.7	185.32	5.731		
13,000.0	7,405.0	13,035.9	7,495.0	96.0	94.7	94.86	5,244.6	120.3	1,062.5	873.7	188.78	5.628		
13,100.0	7,405.0	13,136.9	7,495.0	97.7	96.5	94.86	5,345.7	120.0	1,063.0	870.8	192.26	5.529		
13,200.0	7,405.0	13,259.6	7,495.0	99.5	98.6	94.86	5,468.3	118.1	1,062.4	866.3	196.11	5.417		
13,300.0	7,405.0	13,382.2	7,495.0	101.2	100.7	94.88	5,590.8	113.6	1,059.6	859.7	199.96	5.299		
13,400.0	7,405.0	13,497.3	7,495.0	102.9	102.7	94.90	5,705.7	107.1	1,054.8	851.2	203.68	5.179		
13,500.0	7,405.0	13,597.1	7,495.0	104.6	104.4	94.93	5,805.4	101.0	1,049.6	842.4	207.13	5.067		
13,600.0	7,405.0	13,697.0	7,495.0	106.3	106.2	94.95	5,905.0	94.8	1,044.3	833.7	210.58	4.959		
13,700.0	7,405.0	13,796.9	7,495.0	108.1	107.9	94.98	6,004.7	88.6	1,039.0	825.0	214.04	4.854		
13,800.0	7,405.0	13,896.7	7,495.0	109.8	109.6	95.01	6,104.4	82.5	1,033.4	816.2	217.28	4.756		
13,900.0	7,405.0	13,996.3	7,495.0	111.5	111.4	95.06	6,203.8	76.3	1,025.0	805.0	220.01	4.659		
14,000.0	7,405.0	14,095.6	7,495.0	113.2	113.1	95.14	6,302.9	70.2	1,013.1	790.7	222.47	4.554		
14,100.0	7,405.0	14,194.4	7,495.0	114.9	114.8	95.25	6,401.5	64.1	997.8	773.2	224.63	4.442		
14,200.0	7,405.0	14,292.7	7,495.0	116.6	116.5	95.37	6,499.6	58.1	979.3	752.2	227.13	4.312		
14,300.0	7,405.0	14,390.8	7,495.0	118.2	118.2	95.48	6,597.6	52.0	960.3	729.8	230.50	4.166		
14,400.0	7,405.0	14,489.0	7,495.0	119.9	119.9	95.59	6,695.5	46.0	941.2	707.3	233.87	4.024		
14,500.0	7,405.0	14,587.1	7,495.0	121.6	121.7	95.71	6,793.5	39.9	922.1	684.9	237.23	3.887		
14,600.0	7,405.0	14,685.3	7,495.0	123.3	123.4	95.83	6,891.4	33.9	903.0	662.4	240.59	3.753		
14,685.3	7,405.0	14,713.3	7,495.0	124.7	123.9	95.86	6,919.5	32.1	888.5	646.0	242.54	3.663 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	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: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	50.1	50.1						
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	50.1	50.1	49.8	0.24	210.946			
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	50.1	50.1	49.5	0.59	85.383			
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	50.1	50.1	49.1	0.94	53.524			
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	50.1	50.1	48.8	1.28	38.979			
500.0	500.0	500.0	500.0	0.8	0.8	90.05	0.0	50.1	50.1	48.4	1.63	30.650			
600.0	600.0	600.0	600.0	1.0	1.0	90.05	0.0	50.1	50.1	48.1	1.98	25.254			
700.0	700.0	700.0	700.0	1.2	1.2	90.05	0.0	50.1	50.1	47.7	2.33	21.474 CC, ES			
800.0	800.0	800.0	800.0	1.3	1.3	-148.32	0.0	50.1	51.5	48.9	2.68	19.232			
900.0	899.8	899.8	899.8	1.5	1.5	-151.09	0.0	50.1	56.1	53.0	3.03	18.513 SF			
1,000.0	999.5	999.5	999.5	1.7	1.7	-154.80	0.0	50.1	63.8	60.5	3.38	18.909			
1,100.0	1,098.7	1,098.2	1,098.2	2.0	1.9	-157.39	-1.6	50.7	75.4	71.6	3.72	20.239			
1,200.0	1,197.5	1,196.6	1,196.4	2.2	2.0	-157.87	-6.3	52.5	90.5	86.5	4.08	22.183			
1,300.0	1,296.2	1,294.7	1,294.2	2.5	2.2	-156.67	-14.1	55.5	107.0	102.5	4.47	23.956			
1,400.0	1,394.9	1,393.3	1,392.4	2.8	2.4	-155.36	-22.7	58.8	123.6	118.8	4.86	25.418			
1,500.0	1,493.6	1,491.9	1,490.5	3.1	2.6	-154.36	-31.3	62.1	140.3	135.1	5.27	26.619			
1,600.0	1,592.3	1,590.4	1,588.6	3.4	2.8	-153.57	-39.9	65.4	157.1	151.4	5.69	27.615			
1,700.0	1,691.0	1,689.0	1,686.8	3.7	3.1	-152.94	-48.6	68.7	173.8	167.7	6.11	28.451			
1,800.0	1,789.7	1,787.6	1,784.9	4.0	3.3	-152.42	-57.2	72.0	190.6	184.1	6.54	29.160			
1,900.0	1,888.4	1,886.1	1,883.0	4.3	3.5	-151.98	-65.8	75.3	207.4	200.4	6.97	29.765			
2,000.0	1,987.1	1,984.7	1,981.2	4.7	3.7	-151.60	-74.4	78.6	224.2	216.8	7.40	30.288			
2,100.0	2,085.8	2,083.3	2,079.3	5.0	3.9	-151.28	-83.0	82.0	241.0	233.2	7.84	30.743			
2,200.0	2,184.5	2,181.9	2,177.4	5.3	4.2	-151.00	-91.7	85.3	257.8	249.5	8.28	31.142			
2,300.0	2,283.2	2,280.4	2,275.6	5.6	4.4	-150.76	-100.3	88.6	274.6	265.9	8.72	31.493			
2,400.0	2,381.9	2,379.0	2,373.7	6.0	4.6	-150.54	-108.9	91.9	291.5	282.3	9.16	31.806			
2,500.0	2,480.6	2,477.6	2,471.8	6.3	4.8	-150.35	-117.5	95.2	308.3	298.7	9.61	32.084			
2,600.0	2,579.3	2,576.1	2,570.0	6.6	5.1	-150.18	-126.2	98.5	325.1	315.1	10.05	32.335			
2,700.0	2,678.0	2,674.7	2,668.1	6.9	5.3	-150.02	-134.8	101.8	341.9	331.4	10.50	32.561			
2,800.0	2,776.7	2,773.3	2,766.3	7.3	5.5	-149.88	-143.4	105.1	358.8	347.8	10.95	32.765			
2,900.0	2,875.4	2,871.8	2,864.4	7.6	5.8	-149.75	-152.0	108.5	375.6	364.2	11.40	32.951			
3,000.0	2,974.1	2,970.4	2,962.5	7.9	6.0	-149.63	-160.6	111.8	392.5	380.6	11.85	33.121			
3,100.0	3,072.8	3,069.0	3,060.7	8.2	6.2	-149.53	-169.3	115.1	409.3	397.0	12.30	33.277			
3,200.0	3,171.5	3,167.5	3,158.8	8.6	6.4	-149.43	-177.9	118.4	426.1	413.4	12.75	33.421			
3,300.0	3,270.2	3,266.1	3,256.9	8.9	6.7	-149.34	-186.5	121.7	443.0	429.8	13.20	33.553			
3,400.0	3,368.9	3,364.7	3,355.1	9.2	6.9	-149.25	-195.1	125.0	459.8	446.2	13.65	33.675			
3,500.0	3,467.6	3,463.3	3,453.2	9.6	7.1	-149.17	-203.8	128.3	476.7	462.6	14.11	33.789			
3,600.0	3,566.3	3,561.8	3,551.3	9.9	7.4	-149.10	-212.4	131.6	493.5	479.0	14.56	33.894			
3,700.0	3,665.0	3,660.4	3,649.5	10.2	7.6	-149.03	-221.0	135.0	510.4	495.3	15.01	33.992			
3,800.0	3,763.7	3,759.0	3,747.6	10.6	7.8	-148.96	-229.6	138.3	527.2	511.7	15.47	34.084			
3,900.0	3,862.4	3,857.5	3,845.7	10.9	8.1	-148.90	-238.2	141.6	544.1	528.1	15.92	34.170			
4,000.0	3,961.1	3,956.1	3,943.9	11.2	8.3	-148.85	-246.9	144.9	560.9	544.5	16.38	34.251			
4,100.0	4,059.8	4,054.7	4,042.0	11.5	8.5	-148.79	-255.5	148.2	577.8	560.9	16.83	34.327			
4,200.0	4,158.5	4,153.2	4,140.1	11.9	8.8	-148.74	-264.1	151.5	594.6	577.3	17.29	34.398			
4,300.0	4,257.2	4,251.8	4,238.3	12.2	9.0	-148.70	-272.7	154.8	611.5	593.7	17.74	34.465			
4,400.0	4,355.9	4,350.4	4,336.4	12.5	9.2	-148.65	-281.3	158.1	628.3	610.1	18.20	34.529			
4,500.0	4,454.6	4,448.9	4,434.6	12.9	9.5	-148.61	-290.0	161.5	645.2	626.5	18.65	34.589			
4,600.0	4,553.3	4,547.5	4,532.7	13.2	9.7	-148.57	-298.6	164.8	662.0	642.9	19.11	34.646			
4,700.0	4,652.0	4,646.1	4,630.8	13.5	9.9	-148.53	-307.2	168.1	678.9	659.3	19.56	34.700			
4,800.0	4,750.7	4,744.6	4,729.0	13.9	10.2	-148.49	-315.8	171.4	695.7	675.7	20.02	34.752			
4,900.0	4,849.4	4,843.2	4,827.1	14.2	10.4	-148.46	-324.5	174.7	712.6	692.1	20.48	34.800			
5,000.0	4,948.1	4,941.8	4,925.2	14.5	10.6	-148.42	-333.1	178.0	729.4	708.5	20.93	34.847			
5,100.0	5,046.8	5,040.4	5,023.4	14.9	10.9	-148.39	-341.7	181.3	746.3	724.9	21.39	34.891			

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4K-26H-P268 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,145.5	5,138.9	5,121.5	15.2	11.1	-148.36	-350.3	184.6	763.1	741.3	21.84	34.933		
5,300.0	5,244.2	5,237.5	5,219.6	15.5	11.3	-148.33	-358.9	188.0	780.0	757.7	22.30	34.974		
5,400.0	5,342.9	5,336.1	5,317.8	15.9	11.6	-148.30	-367.6	191.3	796.8	774.1	22.76	35.012		
5,500.0	5,441.6	5,434.6	5,415.9	16.2	11.8	-148.28	-376.2	194.6	813.7	790.5	23.21	35.049		
5,600.0	5,540.3	5,533.2	5,514.0	16.5	12.0	-148.25	-384.8	197.9	830.5	806.8	23.67	35.085		
5,700.0	5,639.0	5,631.8	5,612.2	16.8	12.3	-148.23	-393.4	201.2	847.4	823.2	24.13	35.119		
5,800.0	5,737.7	5,730.3	5,710.3	17.2	12.5	-148.20	-402.0	204.5	864.2	839.6	24.59	35.151		
5,900.0	5,836.4	5,828.9	5,808.5	17.5	12.7	-148.18	-410.7	207.8	881.1	856.0	25.04	35.182		
6,000.0	5,935.1	5,927.5	5,906.6	17.8	13.0	-148.16	-419.3	211.1	897.9	872.4	25.50	35.212		
6,100.0	6,033.8	6,026.0	6,004.7	18.2	13.2	-148.14	-427.9	214.5	914.8	888.8	25.96	35.241		
6,200.0	6,132.5	6,124.6	6,102.9	18.5	13.5	-148.12	-436.5	217.8	931.6	905.2	26.42	35.269		
6,300.0	6,231.2	6,223.2	6,201.0	18.8	13.7	-148.10	-445.2	221.1	948.5	921.6	26.87	35.296		
6,400.0	6,329.9	6,321.8	6,299.1	19.2	13.9	-148.08	-453.8	224.4	965.3	938.0	27.33	35.322		
6,500.0	6,428.6	6,420.3	6,397.3	19.5	14.2	-148.06	-462.4	227.7	982.2	954.4	27.79	35.347		
6,600.0	6,527.3	6,518.9	6,495.4	19.8	14.4	-148.04	-471.0	231.0	999.1	970.8	28.25	35.371		
6,700.0	6,626.0	6,617.5	6,593.5	20.2	14.6	-148.03	-479.6	234.3	1,015.9	987.2	28.70	35.394		
6,800.0	6,724.7	6,716.0	6,691.7	20.5	14.9	-148.01	-488.3	237.6	1,032.8	1,003.6	29.16	35.416		
6,900.0	6,823.4	6,814.6	6,789.8	20.8	15.1	-170.23	-496.9	241.0	1,049.6	1,020.1	29.53	35.540		
7,000.0	6,922.2	6,911.9	6,886.7	21.0	15.3	131.46	-505.4	244.2	1,066.4	1,036.7	29.70	35.910		
7,100.0	7,018.3	7,005.1	6,979.5	21.1	15.6	112.02	-513.6	247.4	1,083.4	1,053.7	29.79	36.368		
7,200.0	7,109.0	7,099.8	7,074.0	21.0	15.7	105.12	-517.9	250.5	1,101.3	1,071.5	29.74	37.032		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.35	-0.4	59.9	59.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.35	-0.4	59.9	59.9	59.6	0.24	252.197		
200.0	200.0	200.0	200.0	0.3	0.3	90.35	-0.4	59.9	59.9	59.3	0.59	102.080		
300.0	300.0	300.0	300.0	0.5	0.5	90.35	-0.4	59.9	59.9	58.9	0.94	63.990		
400.0	400.0	400.0	400.0	0.6	0.6	90.35	-0.4	59.9	59.9	58.6	1.28	46.602		
500.0	500.0	500.0	500.0	0.8	0.8	90.35	-0.4	59.9	59.9	58.2	1.63	36.644		
600.0	600.0	600.0	600.0	1.0	1.0	90.35	-0.4	59.9	59.9	57.9	1.98	30.193		
700.0	700.0	700.0	700.0	1.2	1.2	90.35	-0.4	59.9	59.9	57.5	2.33	25.673 CC, ES		
800.0	800.0	800.0	800.0	1.3	1.3	-147.86	-0.4	59.9	61.3	58.7	2.68	22.882		
900.0	899.8	899.8	899.8	1.5	1.5	-150.24	-0.4	59.9	65.8	62.8	3.03	21.732 SF		
1,000.0	999.5	999.5	999.5	1.7	1.7	-153.54	-0.4	59.9	73.5	70.1	3.38	21.770		
1,100.0	1,098.7	1,097.0	1,097.0	2.0	1.9	-156.17	-1.5	61.0	85.6	81.9	3.72	22.997		
1,200.0	1,197.5	1,193.6	1,193.5	2.2	2.0	-157.28	-4.9	64.6	102.7	98.7	4.08	25.210		
1,300.0	1,296.2	1,289.5	1,289.0	2.5	2.2	-156.99	-10.5	70.4	122.4	118.0	4.45	27.531		
1,400.0	1,394.9	1,385.6	1,384.5	2.8	2.4	-155.81	-18.2	78.3	143.9	139.1	4.84	29.756		
1,500.0	1,493.6	1,483.2	1,481.4	3.1	2.6	-154.77	-26.3	86.6	165.8	160.5	5.24	31.638		
1,600.0	1,592.3	1,580.7	1,578.2	3.4	2.9	-153.98	-34.5	95.0	187.6	182.0	5.65	33.216		
1,700.0	1,691.0	1,678.3	1,675.0	3.7	3.1	-153.35	-42.6	103.4	209.6	203.5	6.06	34.551		
1,800.0	1,789.7	1,775.8	1,771.9	4.0	3.3	-152.84	-50.8	111.8	231.5	225.0	6.49	35.692		
1,900.0	1,888.4	1,873.4	1,868.7	4.3	3.6	-152.42	-58.9	120.2	253.4	246.5	6.91	36.676		
2,000.0	1,987.1	1,970.9	1,965.6	4.7	3.8	-152.07	-67.0	128.6	275.4	268.0	7.34	37.531		
2,100.0	2,085.8	2,068.5	2,062.4	5.0	4.1	-151.77	-75.2	137.0	297.3	289.6	7.77	38.280		
2,200.0	2,184.5	2,166.0	2,159.3	5.3	4.3	-151.51	-83.3	145.4	319.3	311.1	8.20	38.941		
2,300.0	2,283.2	2,263.6	2,256.1	5.6	4.6	-151.28	-91.5	153.8	341.3	332.7	8.63	39.528		
2,400.0	2,381.9	2,361.1	2,352.9	6.0	4.8	-151.08	-99.6	162.2	363.3	354.2	9.07	40.053		
2,500.0	2,480.6	2,458.7	2,449.8	6.3	5.1	-150.90	-107.7	170.6	385.3	375.7	9.51	40.524		
2,600.0	2,579.3	2,556.2	2,546.6	6.6	5.3	-150.75	-115.9	179.0	407.2	397.3	9.95	40.948		
2,700.0	2,678.0	2,653.7	2,643.5	6.9	5.6	-150.61	-124.0	187.4	429.2	418.8	10.38	41.334		
2,800.0	2,776.7	2,751.3	2,740.3	7.3	5.8	-150.48	-132.1	195.8	451.2	440.4	10.82	41.684		
2,900.0	2,875.4	2,848.8	2,837.2	7.6	6.1	-150.36	-140.3	204.2	473.2	462.0	11.27	42.005		
3,000.0	2,974.1	2,946.4	2,934.0	7.9	6.4	-150.26	-148.4	212.5	495.2	483.5	11.71	42.299		
3,100.0	3,072.8	3,043.9	3,030.9	8.2	6.6	-150.16	-156.6	220.9	517.2	505.1	12.15	42.569		
3,200.0	3,171.5	3,141.5	3,127.7	8.6	6.9	-150.07	-164.7	229.3	539.2	526.6	12.59	42.819		
3,300.0	3,270.2	3,239.0	3,224.5	8.9	7.1	-149.99	-172.8	237.7	561.2	548.2	13.04	43.050		
3,400.0	3,368.9	3,336.6	3,321.4	9.2	7.4	-149.92	-181.0	246.1	583.2	569.7	13.48	43.264		
3,500.0	3,467.6	3,434.1	3,418.2	9.6	7.7	-149.85	-189.1	254.5	605.2	591.3	13.92	43.464		
3,600.0	3,566.3	3,531.7	3,515.1	9.9	7.9	-149.78	-197.3	262.9	627.2	612.8	14.37	43.650		
3,700.0	3,665.0	3,629.2	3,611.9	10.2	8.2	-149.72	-205.4	271.3	649.2	634.4	14.81	43.824		
3,800.0	3,763.7	3,726.8	3,708.8	10.6	8.5	-149.66	-213.5	279.7	671.2	656.0	15.26	43.987		
3,900.0	3,862.4	3,824.3	3,805.6	10.9	8.7	-149.61	-221.7	288.1	693.2	677.5	15.70	44.140		
4,000.0	3,961.1	3,921.9	3,902.5	11.2	9.0	-149.56	-229.8	296.5	715.2	699.1	16.15	44.284		
4,100.0	4,059.8	4,019.4	3,999.3	11.5	9.2	-149.51	-238.0	304.9	737.2	720.6	16.60	44.420		
4,200.0	4,158.5	4,117.0	4,096.1	11.9	9.5	-149.47	-246.1	313.3	759.2	742.2	17.04	44.548		
4,300.0	4,257.2	4,214.5	4,193.0	12.2	9.8	-149.43	-254.2	321.7	781.2	763.8	17.49	44.669		
4,400.0	4,355.9	4,312.0	4,289.8	12.5	10.0	-149.39	-262.4	330.1	803.3	785.3	17.94	44.784		
4,500.0	4,454.6	4,409.6	4,386.7	12.9	10.3	-149.35	-270.5	338.4	825.3	806.9	18.38	44.892		
4,600.0	4,553.3	4,507.1	4,483.5	13.2	10.6	-149.32	-278.7	346.8	847.3	828.4	18.83	44.995		
4,700.0	4,652.0	4,604.7	4,580.4	13.5	10.8	-149.28	-286.8	355.2	869.3	850.0	19.28	45.093		
4,800.0	4,750.7	4,702.2	4,677.2	13.9	11.1	-149.25	-294.9	363.6	891.3	871.6	19.72	45.186		
4,900.0	4,849.4	4,799.8	4,774.0	14.2	11.3	-149.22	-303.1	372.0	913.3	893.1	20.17	45.275		
5,000.0	4,948.1	4,897.3	4,870.9	14.5	11.6	-149.19	-311.2	380.4	935.3	914.7	20.62	45.360		
5,100.0	5,046.8	4,994.9	4,967.7	14.9	11.9	-149.16	-319.4	388.8	957.3	936.2	21.07	45.440		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design												S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - HZ - Plan #2		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	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis						
5,200.0	5,145.5	5,092.4	5,064.6	15.2	12.1	-149.14	-327.5	397.2	979.3	957.8	21.52	45.518					
5,300.0	5,244.2	5,190.0	5,161.4	15.5	12.4	-149.11	-335.6	405.6	1,001.3	979.4	21.96	45.592					
5,400.0	5,342.9	5,287.5	5,258.3	15.9	12.7	-149.09	-343.8	414.0	1,023.3	1,000.9	22.41	45.662					
5,500.0	5,441.6	5,385.1	5,355.1	16.2	12.9	-149.06	-351.9	422.4	1,045.3	1,022.5	22.86	45.730					
5,600.0	5,540.3	5,482.6	5,452.0	16.5	13.2	-149.04	-360.0	430.8	1,067.4	1,044.0	23.31	45.795					
5,700.0	5,639.0	5,580.2	5,548.8	16.8	13.5	-149.02	-368.2	439.2	1,089.4	1,065.6	23.76	45.858					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 6-8-26 - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 165-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
2,600.0	2,579.3	2,849.5	2,768.7	6.6	12.4	25.81	-290.8	-1,262.4	1,071.3	1,058.2	13.03	82.196		
2,700.0	2,678.0	2,941.9	2,857.8	6.9	12.8	25.30	-303.2	-1,241.1	1,036.0	1,022.4	13.60	76.194		
2,800.0	2,776.7	3,032.9	2,945.5	7.3	13.3	24.76	-315.4	-1,220.2	1,001.0	986.9	14.15	70.733		
2,900.0	2,875.4	3,130.7	3,040.1	7.6	13.8	24.23	-327.1	-1,198.0	966.1	951.4	14.73	65.594		
3,000.0	2,974.1	3,227.7	3,133.5	7.9	14.3	23.62	-339.3	-1,175.3	930.7	915.4	15.31	60.802		
3,100.0	3,072.8	3,310.9	3,213.9	8.2	14.7	23.12	-348.9	-1,156.1	895.6	879.7	15.84	56.530		
3,200.0	3,171.5	3,415.2	3,314.7	8.6	15.2	22.39	-361.7	-1,132.5	861.1	844.7	16.45	52.347		
3,300.0	3,270.2	3,524.7	3,420.4	8.9	15.8	21.73	-372.4	-1,105.9	824.7	807.6	17.06	48.336		
3,400.0	3,368.9	3,624.3	3,516.1	9.2	16.3	20.99	-382.6	-1,080.2	787.0	769.3	17.67	44.541		
3,500.0	3,467.6	3,710.0	3,598.3	9.6	16.7	20.31	-391.3	-1,057.7	749.0	730.8	18.23	41.089		
3,600.0	3,566.3	3,777.0	3,663.0	9.9	17.1	19.69	-398.9	-1,041.9	713.8	695.1	18.74	38.101		
3,700.0	3,665.0	3,855.2	3,738.6	10.2	17.4	18.81	-409.4	-1,025.4	681.5	662.2	19.33	35.249		
3,800.0	3,763.7	3,936.8	3,818.0	10.6	17.8	17.86	-420.4	-1,009.7	651.2	631.3	19.92	32.697		
3,900.0	3,862.4	4,022.6	3,902.2	10.9	18.1	17.08	-429.3	-995.4	622.8	602.3	20.45	30.458		
4,000.0	3,961.1	4,109.7	3,988.0	11.2	18.3	16.48	-436.2	-982.7	595.8	574.9	20.93	28.460		
4,100.0	4,059.8	4,196.6	4,074.0	11.5	18.6	15.98	-442.1	-971.7	570.4	549.0	21.39	26.670		
4,200.0	4,158.5	4,283.2	4,160.0	11.9	18.8	15.57	-447.3	-962.6	546.8	524.9	21.81	25.067		
4,300.0	4,257.2	4,368.8	4,245.1	12.2	19.0	15.25	-452.0	-955.6	525.1	502.9	22.21	23.646		
4,400.0	4,355.9	4,464.5	4,340.5	12.5	19.2	14.98	-456.7	-949.4	505.0	482.4	22.61	22.340		
4,500.0	4,454.6	4,558.4	4,434.2	12.9	19.3	14.82	-460.4	-944.0	485.3	462.4	22.96	21.134		
4,600.0	4,553.3	4,652.0	4,527.7	13.2	19.4	14.89	-462.6	-940.1	466.5	443.3	23.27	20.053		
4,700.0	4,652.0	4,748.1	4,623.8	13.5	19.6	15.12	-464.0	-937.1	448.5	424.9	23.54	19.049		
4,800.0	4,750.7	4,846.0	4,721.6	13.9	19.7	15.45	-464.9	-934.5	430.8	407.0	23.80	18.097		
4,900.0	4,849.4	4,945.8	4,821.4	14.2	19.8	15.93	-465.0	-932.0	413.0	388.9	24.04	17.179		
5,000.0	4,948.1	5,046.7	4,922.2	14.5	19.9	16.54	-464.5	-929.1	394.7	370.4	24.26	16.269		
5,100.0	5,046.8	5,141.1	5,016.6	14.9	20.0	17.23	-463.6	-926.4	376.2	351.8	24.47	15.378		
5,200.0	5,145.5	5,232.1	5,107.6	15.2	20.0	17.95	-463.1	-925.4	359.7	335.0	24.67	14.579		
5,300.0	5,244.2	5,328.9	5,204.4	15.5	20.1	18.82	-462.8	-925.8	344.7	319.9	24.87	13.862		
5,400.0	5,342.9	5,428.1	5,303.6	15.9	20.2	19.86	-462.2	-926.2	329.8	304.8	25.06	13.162		
5,500.0	5,441.6	5,526.8	5,402.2	16.2	20.2	21.05	-461.1	-926.6	314.9	289.7	25.24	12.477		
5,600.0	5,540.3	5,625.9	5,501.3	16.5	20.3	22.40	-459.9	-927.1	300.2	274.8	25.43	11.807		
5,700.0	5,639.0	5,727.7	5,603.1	16.8	20.4	23.78	-459.3	-926.8	285.0	259.3	25.65	11.110		
5,800.0	5,737.7	5,826.4	5,701.8	17.2	20.5	25.08	-459.5	-925.5	269.0	243.2	25.88	10.395		
5,900.0	5,836.4	5,921.4	5,796.8	17.5	20.6	26.64	-459.0	-925.2	254.2	228.1	26.09	9.743		
6,000.0	5,935.1	6,017.9	5,893.3	17.8	20.6	28.65	-457.7	-926.3	240.8	214.6	26.29	9.160		
6,100.0	6,033.8	6,115.2	5,990.6	18.2	20.7	31.02	-456.0	-928.0	228.5	202.0	26.51	8.618		
6,200.0	6,132.5	6,213.5	6,088.8	18.5	20.7	33.76	-453.9	-930.1	217.0	190.3	26.76	8.111		
6,300.0	6,231.2	6,311.8	6,187.1	18.8	20.8	36.89	-451.4	-932.5	206.3	179.3	27.05	7.627		
6,400.0	6,329.9	6,410.2	6,285.5	19.2	20.8	40.40	-448.7	-935.0	196.5	169.1	27.42	7.166		
6,500.0	6,428.6	6,508.9	6,384.0	19.5	20.8	44.26	-446.1	-937.6	187.6	159.8	27.89	6.729		
6,600.0	6,527.3	6,608.1	6,483.1	19.8	20.9	48.52	-443.3	-940.1	179.6	151.1	28.48	6.306		
6,700.0	6,626.0	6,707.2	6,582.2	20.2	20.9	53.20	-440.5	-942.4	172.4	143.2	29.24	5.896		
6,800.0	6,724.7	6,806.4	6,681.4	20.5	21.0	58.31	-437.6	-944.3	166.2	136.0	30.20	5.503		
6,900.0	6,823.4	6,905.9	6,780.8	20.8	21.1	64.61	-434.8	-945.8	160.5	129.3	31.21	5.142		
7,000.0	6,922.2	7,005.8	6,880.7	21.0	21.1	-15.54	-432.2	-946.8	147.8	116.7	31.11	4.752		
7,100.0	7,018.3	7,102.7	6,977.6	21.1	21.2	-41.86	-429.8	-947.5	126.3	96.5	29.85	4.233		
7,200.0	7,109.0	7,194.5	7,069.3	21.0	21.3	-66.92	-427.6	-948.1	102.2	73.2	28.99	3.525		
7,273.5	7,170.6	7,257.0	7,131.8	20.9	21.3	-89.81	-426.2	-948.5	93.5	63.9	29.65	3.155 CC, ES, SF		
7,300.0	7,191.4	7,278.2	7,153.0	20.9	21.4	-98.13	-425.8	-948.7	95.0	65.0	29.98	3.169		
7,400.0	7,263.1	7,351.3	7,226.0	20.8	21.4	-123.33	-424.2	-949.1	127.9	97.9	30.02	4.260		
7,500.0	7,321.8	7,411.1	7,285.8	20.7	21.5	-136.55	-423.2	-949.4	193.2	165.3	27.89	6.925		
7,600.0	7,365.8	7,455.6	7,330.4	20.6	21.5	-140.88	-422.6	-949.4	276.1	250.8	25.34	10.897		

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 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 6-8-26 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 165-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,700.0	7,393.8	7,483.9	7,358.6	20.7	21.6	-135.93	-422.3	-949.3	368.9	344.5	24.42	15.109		
7,800.0	7,404.8	7,495.4	7,370.1	20.8	21.6	-103.77	-422.2	-949.3	466.7	438.5	28.27	16.508		
7,900.0	7,405.0	7,496.3	7,371.0	21.1	21.6	-94.37	-422.2	-949.3	566.0	536.9	29.16	19.410		
8,000.0	7,405.0	7,497.0	7,371.7	21.5	21.6	-95.06	-422.2	-949.3	665.5	635.8	29.78	22.349		
8,100.0	7,405.0	7,497.7	7,372.5	22.1	21.6	-95.74	-422.2	-949.3	765.2	734.6	30.57	25.031		
8,200.0	7,405.0	7,498.4	7,373.2	22.8	21.6	-96.40	-422.2	-949.2	864.9	833.4	31.50	27.455		
8,300.0	7,405.0	7,499.1	7,373.9	23.6	21.6	-97.05	-422.2	-949.2	964.7	932.1	32.55	29.633		
8,400.0	7,405.0	7,499.8	7,374.5	24.4	21.6	-97.69	-422.2	-949.2	1,064.5	1,030.8	33.70	31.585		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sullivan 4F-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 4F-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 #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 4996.0ft

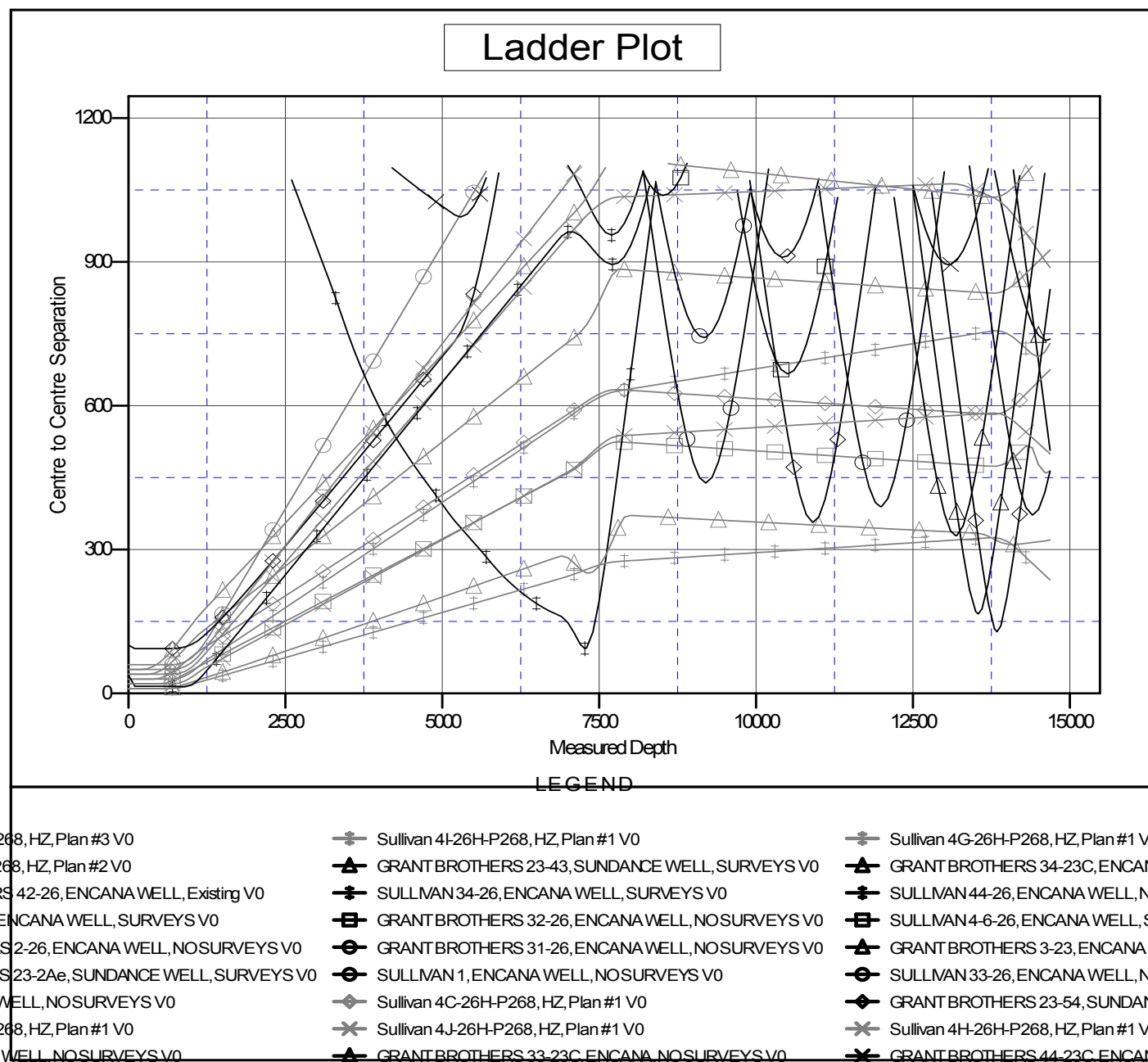
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.35°



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