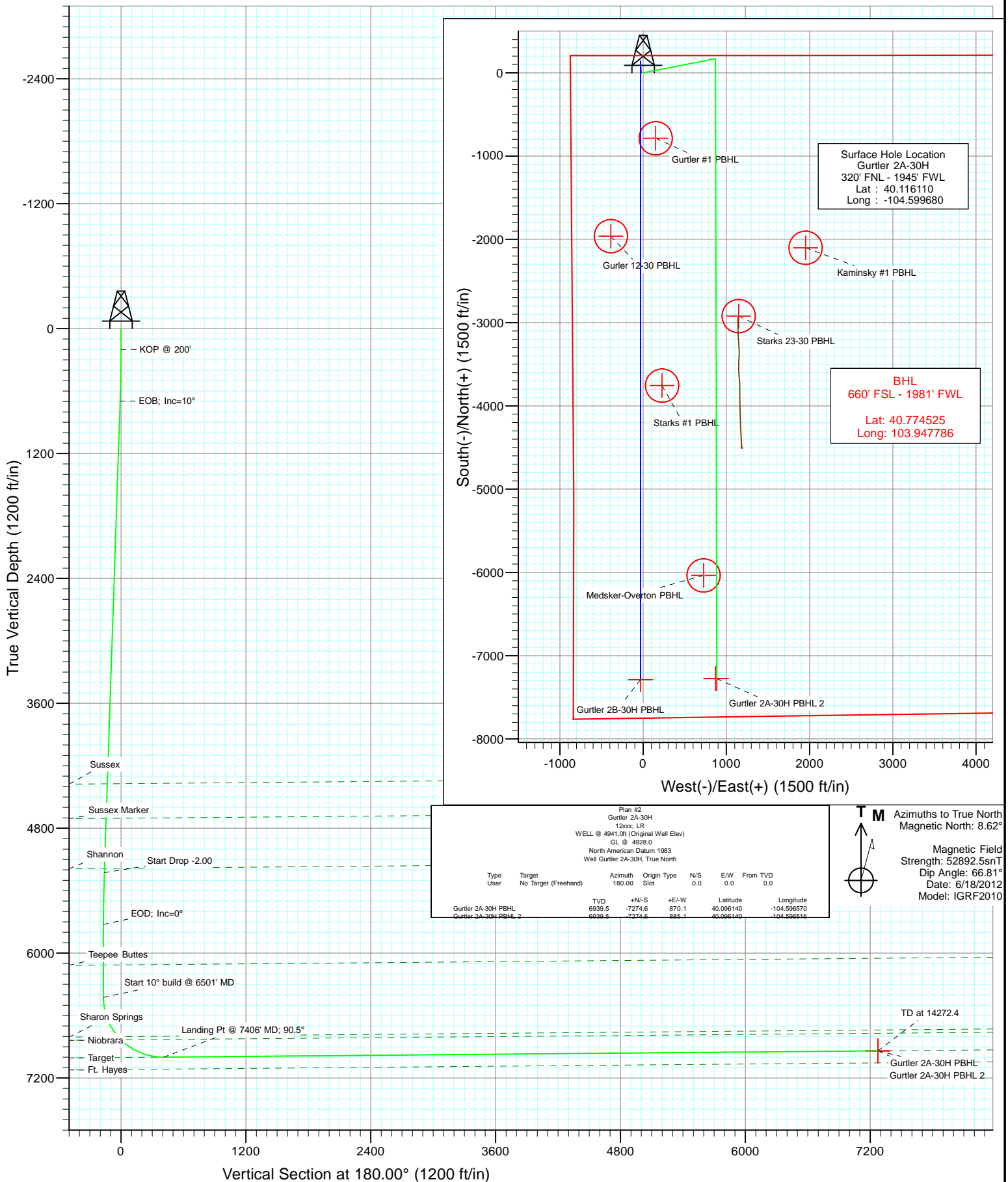




Project: DJ Wattenberg
 Site: NWNW S30-T2N-R64W (Gurtler)
 Well: Gurtler 2A-30H
 Wellbore: Hz
 Design: Plan #2



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Gurtler 2A-30H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site:	NWNW S30-T2N-R64W (Gurtler)	North Reference:	True
Well:	Gurtler 2A-30H	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					
NWNW S30-T2N-R64W (Gurtler)					
Site Position:		Northing:	1,286,423.76 ft	Latitude:	40.116110
From:	Lat/Long	Easting:	3,251,800.62 ft	Longitude:	-104.599680
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.58 °

Well	Gurtler 2A-30H					
Well Position	+N/-S	0.0 ft	Northing:	1,286,423.76 ft	Latitude:	40.116110
	+E/-W	0.0 ft	Easting:	3,251,800.62 ft	Longitude:	-104.599680
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,928.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/18/2012	8.62	66.81	52,893

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	180.00	

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	10.00	79.00	697.5	8.3	42.7	2.00	2.00	0.00	79.00	
5,300.0	10.00	79.00	5,227.6	160.7	826.8	0.00	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,725.0	169.0	869.6	2.00	-2.00	0.00	180.00	
6,501.4	0.00	0.00	6,426.5	169.0	869.6	0.00	0.00	0.00	0.00	
7,406.4	90.50	179.88	6,999.4	-408.9	870.8	10.00	10.00	0.00	179.88	
14,272.4	90.50	179.88	6,939.5	-7,274.6	885.1	0.00	0.00	0.00	0.00	Gurtler 2A-30H PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Gurtler 2A-30H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site:	NWNW S30-T2N-R64W (Gurtler)	North Reference:	True
Well:	Gurtler 2A-30H	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	2.00	79.00	300.0	0.3	1.7	-0.3	2.00	2.00	
400.0	4.00	79.00	399.8	1.3	6.9	-1.3	2.00	2.00	
500.0	6.00	79.00	499.5	3.0	15.4	-3.0	2.00	2.00	
600.0	8.00	79.00	598.7	5.3	27.4	-5.3	2.00	2.00	
700.0	10.00	79.00	697.5	8.3	42.7	-8.3	2.00	2.00	
800.0	10.00	79.00	795.9	11.6	59.8	-11.6	0.00	0.00	
900.0	10.00	79.00	894.4	14.9	76.8	-14.9	0.00	0.00	
1,000.0	10.00	79.00	992.9	18.2	93.9	-18.2	0.00	0.00	
1,100.0	10.00	79.00	1,091.4	21.6	110.9	-21.6	0.00	0.00	
1,200.0	10.00	79.00	1,189.9	24.9	128.0	-24.9	0.00	0.00	
1,300.0	10.00	79.00	1,288.4	28.2	145.0	-28.2	0.00	0.00	
1,400.0	10.00	79.00	1,386.8	31.5	162.0	-31.5	0.00	0.00	
1,500.0	10.00	79.00	1,485.3	34.8	179.1	-34.8	0.00	0.00	
1,600.0	10.00	79.00	1,583.8	38.1	196.1	-38.1	0.00	0.00	
1,700.0	10.00	79.00	1,682.3	41.4	213.2	-41.4	0.00	0.00	
1,800.0	10.00	79.00	1,780.8	44.8	230.2	-44.8	0.00	0.00	
1,900.0	10.00	79.00	1,879.2	48.1	247.3	-48.1	0.00	0.00	
2,000.0	10.00	79.00	1,977.7	51.4	264.3	-51.4	0.00	0.00	
2,100.0	10.00	79.00	2,076.2	54.7	281.4	-54.7	0.00	0.00	
2,200.0	10.00	79.00	2,174.7	58.0	298.4	-58.0	0.00	0.00	
2,300.0	10.00	79.00	2,273.2	61.3	315.5	-61.3	0.00	0.00	
2,400.0	10.00	79.00	2,371.6	64.6	332.5	-64.6	0.00	0.00	
2,500.0	10.00	79.00	2,470.1	67.9	349.5	-67.9	0.00	0.00	
2,600.0	10.00	79.00	2,568.6	71.3	366.6	-71.3	0.00	0.00	
2,700.0	10.00	79.00	2,667.1	74.6	383.6	-74.6	0.00	0.00	
2,800.0	10.00	79.00	2,765.6	77.9	400.7	-77.9	0.00	0.00	
2,900.0	10.00	79.00	2,864.0	81.2	417.7	-81.2	0.00	0.00	
3,000.0	10.00	79.00	2,962.5	84.5	434.8	-84.5	0.00	0.00	
3,100.0	10.00	79.00	3,061.0	87.8	451.8	-87.8	0.00	0.00	
3,200.0	10.00	79.00	3,159.5	91.1	468.9	-91.1	0.00	0.00	
3,300.0	10.00	79.00	3,258.0	94.5	485.9	-94.5	0.00	0.00	
3,400.0	10.00	79.00	3,356.4	97.8	503.0	-97.8	0.00	0.00	
3,500.0	10.00	79.00	3,454.9	101.1	520.0	-101.1	0.00	0.00	
3,600.0	10.00	79.00	3,553.4	104.4	537.1	-104.4	0.00	0.00	
3,700.0	10.00	79.00	3,651.9	107.7	554.1	-107.7	0.00	0.00	
3,800.0	10.00	79.00	3,750.4	111.0	571.1	-111.0	0.00	0.00	
3,900.0	10.00	79.00	3,848.9	114.3	588.2	-114.3	0.00	0.00	
4,000.0	10.00	79.00	3,947.3	117.6	605.2	-117.6	0.00	0.00	
4,100.0	10.00	79.00	4,045.8	121.0	622.3	-121.0	0.00	0.00	
4,200.0	10.00	79.00	4,144.3	124.3	639.3	-124.3	0.00	0.00	
4,300.0	10.00	79.00	4,242.8	127.6	656.4	-127.6	0.00	0.00	
4,400.0	10.00	79.00	4,341.3	130.9	673.4	-130.9	0.00	0.00	
4,500.0	10.00	79.00	4,439.7	134.2	690.5	-134.2	0.00	0.00	
4,600.0	10.00	79.00	4,538.2	137.5	707.5	-137.5	0.00	0.00	
4,700.0	10.00	79.00	4,636.7	140.8	724.6	-140.8	0.00	0.00	
4,800.0	10.00	79.00	4,735.2	144.2	741.6	-144.2	0.00	0.00	
4,900.0	10.00	79.00	4,833.7	147.5	758.6	-147.5	0.00	0.00	
5,000.0	10.00	79.00	4,932.1	150.8	775.7	-150.8	0.00	0.00	
5,100.0	10.00	79.00	5,030.6	154.1	792.7	-154.1	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Gurtler 2A-30H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site:	NWNW S30-T2N-R64W (Gurtler)	North Reference:	True
Well:	Gurtler 2A-30H	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
5,200.0	10.00	79.00	5,129.1	157.4	809.8	-157.4	0.00	0.00	
5,300.0	10.00	79.00	5,227.6	160.7	826.8	-160.7	0.00	0.00	
5,400.0	8.00	79.00	5,326.3	163.7	842.2	-163.7	2.00	-2.00	
5,500.0	6.00	79.00	5,425.6	166.0	854.1	-166.0	2.00	-2.00	
5,600.0	4.00	79.00	5,525.2	167.7	862.7	-167.7	2.00	-2.00	
5,700.0	2.00	79.00	5,625.1	168.7	867.8	-168.7	2.00	-2.00	
5,800.0	0.00	0.00	5,725.0	169.0	869.6	-169.0	2.00	-2.00	
5,900.0	0.00	0.00	5,825.0	169.0	869.6	-169.0	0.00	0.00	
6,000.0	0.00	0.00	5,925.0	169.0	869.6	-169.0	0.00	0.00	
6,100.0	0.00	0.00	6,025.0	169.0	869.6	-169.0	0.00	0.00	
6,200.0	0.00	0.00	6,125.0	169.0	869.6	-169.0	0.00	0.00	
6,300.0	0.00	0.00	6,225.0	169.0	869.6	-169.0	0.00	0.00	
6,400.0	0.00	0.00	6,325.0	169.0	869.6	-169.0	0.00	0.00	
6,500.0	0.00	0.00	6,425.0	169.0	869.6	-169.0	0.00	0.00	
6,501.4	0.00	0.00	6,426.5	169.0	869.6	-169.0	0.00	0.00	
6,600.0	9.86	179.88	6,524.6	160.6	869.6	-160.6	10.00	10.00	
6,700.0	19.86	179.88	6,621.1	135.0	869.6	-135.0	10.00	10.00	
6,800.0	29.86	179.88	6,711.7	93.0	869.7	-93.0	10.00	10.00	
6,900.0	39.86	179.88	6,793.7	35.9	869.8	-35.9	10.00	10.00	
7,000.0	49.86	179.88	6,864.5	-34.5	870.0	34.5	10.00	10.00	
7,100.0	59.86	179.88	6,922.0	-116.2	870.1	116.2	10.00	10.00	
7,200.0	69.86	179.88	6,964.4	-206.6	870.3	206.6	10.00	10.00	
7,300.0	79.86	179.88	6,990.5	-303.0	870.5	303.0	10.00	10.00	
7,400.0	89.86	179.88	6,999.4	-402.5	870.7	402.5	10.00	10.00	
7,406.4	90.50	179.88	6,999.4	-408.9	870.8	408.9	10.00	10.00	
7,500.0	90.50	179.88	6,998.6	-502.5	871.0	502.5	0.00	0.00	
7,600.0	90.50	179.88	6,997.7	-602.5	871.2	602.5	0.00	0.00	
7,700.0	90.50	179.88	6,996.9	-702.5	871.4	702.5	0.00	0.00	
7,800.0	90.50	179.88	6,996.0	-802.5	871.6	802.5	0.00	0.00	
7,900.0	90.50	179.88	6,995.1	-902.5	871.8	902.5	0.00	0.00	
8,000.0	90.50	179.88	6,994.2	-1,002.5	872.0	1,002.5	0.00	0.00	
8,100.0	90.50	179.88	6,993.4	-1,102.5	872.2	1,102.5	0.00	0.00	
8,200.0	90.50	179.88	6,992.5	-1,202.5	872.4	1,202.5	0.00	0.00	
8,300.0	90.50	179.88	6,991.6	-1,302.5	872.6	1,302.5	0.00	0.00	
8,400.0	90.50	179.88	6,990.7	-1,402.5	872.8	1,402.5	0.00	0.00	
8,500.0	90.50	179.88	6,989.9	-1,502.5	873.0	1,502.5	0.00	0.00	
8,600.0	90.50	179.88	6,989.0	-1,602.5	873.3	1,602.5	0.00	0.00	
8,700.0	90.50	179.88	6,988.1	-1,702.4	873.5	1,702.4	0.00	0.00	
8,800.0	90.50	179.88	6,987.3	-1,802.4	873.7	1,802.4	0.00	0.00	
8,900.0	90.50	179.88	6,986.4	-1,902.4	873.9	1,902.4	0.00	0.00	
9,000.0	90.50	179.88	6,985.5	-2,002.4	874.1	2,002.4	0.00	0.00	
9,100.0	90.50	179.88	6,984.6	-2,102.4	874.3	2,102.4	0.00	0.00	
9,200.0	90.50	179.88	6,983.8	-2,202.4	874.5	2,202.4	0.00	0.00	
9,300.0	90.50	179.88	6,982.9	-2,302.4	874.7	2,302.4	0.00	0.00	
9,400.0	90.50	179.88	6,982.0	-2,402.4	874.9	2,402.4	0.00	0.00	
9,500.0	90.50	179.88	6,981.1	-2,502.4	875.1	2,502.4	0.00	0.00	
9,600.0	90.50	179.88	6,980.3	-2,602.4	875.3	2,602.4	0.00	0.00	
9,700.0	90.50	179.88	6,979.4	-2,702.4	875.5	2,702.4	0.00	0.00	
9,800.0	90.50	179.88	6,978.5	-2,802.4	875.8	2,802.4	0.00	0.00	
9,900.0	90.50	179.88	6,977.7	-2,902.4	876.0	2,902.4	0.00	0.00	
10,000.0	90.50	179.88	6,976.8	-3,002.4	876.2	3,002.4	0.00	0.00	
10,100.0	90.50	179.88	6,975.9	-3,102.4	876.4	3,102.4	0.00	0.00	

Planning Report

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Project:	DJ Wattenberg	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site:	NWNW S30-T2N-R64W (Gurtler)	North Reference:	True
Well:	Gurtler 2A-30H	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
10,200.0	90.50	179.88	6,975.0	-3,202.4	876.6	3,202.4	0.00	0.00	
10,300.0	90.50	179.88	6,974.2	-3,302.4	876.8	3,302.4	0.00	0.00	
10,400.0	90.50	179.88	6,973.3	-3,402.4	877.0	3,402.4	0.00	0.00	
10,500.0	90.50	179.88	6,972.4	-3,502.4	877.2	3,502.4	0.00	0.00	
10,600.0	90.50	179.88	6,971.5	-3,602.4	877.4	3,602.4	0.00	0.00	
10,700.0	90.50	179.88	6,970.7	-3,702.4	877.6	3,702.4	0.00	0.00	
10,800.0	90.50	179.88	6,969.8	-3,802.4	877.8	3,802.4	0.00	0.00	
10,900.0	90.50	179.88	6,968.9	-3,902.4	878.1	3,902.4	0.00	0.00	
11,000.0	90.50	179.88	6,968.1	-4,002.4	878.3	4,002.4	0.00	0.00	
11,100.0	90.50	179.88	6,967.2	-4,102.4	878.5	4,102.4	0.00	0.00	
11,200.0	90.50	179.88	6,966.3	-4,202.3	878.7	4,202.3	0.00	0.00	
11,300.0	90.50	179.88	6,965.4	-4,302.3	878.9	4,302.3	0.00	0.00	
11,400.0	90.50	179.88	6,964.6	-4,402.3	879.1	4,402.3	0.00	0.00	
11,500.0	90.50	179.88	6,963.7	-4,502.3	879.3	4,502.3	0.00	0.00	
11,600.0	90.50	179.88	6,962.8	-4,602.3	879.5	4,602.3	0.00	0.00	
11,700.0	90.50	179.88	6,961.9	-4,702.3	879.7	4,702.3	0.00	0.00	
11,800.0	90.50	179.88	6,961.1	-4,802.3	879.9	4,802.3	0.00	0.00	
11,900.0	90.50	179.88	6,960.2	-4,902.3	880.1	4,902.3	0.00	0.00	
12,000.0	90.50	179.88	6,959.3	-5,002.3	880.4	5,002.3	0.00	0.00	
12,100.0	90.50	179.88	6,958.5	-5,102.3	880.6	5,102.3	0.00	0.00	
12,200.0	90.50	179.88	6,957.6	-5,202.3	880.8	5,202.3	0.00	0.00	
12,300.0	90.50	179.88	6,956.7	-5,302.3	881.0	5,302.3	0.00	0.00	
12,400.0	90.50	179.88	6,955.8	-5,402.3	881.2	5,402.3	0.00	0.00	
12,500.0	90.50	179.88	6,955.0	-5,502.3	881.4	5,502.3	0.00	0.00	
12,600.0	90.50	179.88	6,954.1	-5,602.3	881.6	5,602.3	0.00	0.00	
12,700.0	90.50	179.88	6,953.2	-5,702.3	881.8	5,702.3	0.00	0.00	
12,800.0	90.50	179.88	6,952.3	-5,802.3	882.0	5,802.3	0.00	0.00	
12,900.0	90.50	179.88	6,951.5	-5,902.3	882.2	5,902.3	0.00	0.00	
13,000.0	90.50	179.88	6,950.6	-6,002.3	882.4	6,002.3	0.00	0.00	
13,100.0	90.50	179.88	6,949.7	-6,102.3	882.7	6,102.3	0.00	0.00	
13,200.0	90.50	179.88	6,948.9	-6,202.3	882.9	6,202.3	0.00	0.00	
13,300.0	90.50	179.88	6,948.0	-6,302.3	883.1	6,302.3	0.00	0.00	
13,400.0	90.50	179.88	6,947.1	-6,402.3	883.3	6,402.3	0.00	0.00	
13,500.0	90.50	179.88	6,946.2	-6,502.3	883.5	6,502.3	0.00	0.00	
13,600.0	90.50	179.88	6,945.4	-6,602.2	883.7	6,602.2	0.00	0.00	
13,700.0	90.50	179.88	6,944.5	-6,702.2	883.9	6,702.2	0.00	0.00	
13,800.0	90.50	179.88	6,943.6	-6,802.2	884.1	6,802.2	0.00	0.00	
13,900.0	90.50	179.88	6,942.7	-6,902.2	884.3	6,902.2	0.00	0.00	
14,000.0	90.50	179.88	6,941.9	-7,002.2	884.5	7,002.2	0.00	0.00	
14,100.0	90.50	179.88	6,941.0	-7,102.2	884.7	7,102.2	0.00	0.00	
14,200.0	90.50	179.88	6,940.1	-7,202.2	884.9	7,202.2	0.00	0.00	
14,272.4	90.50	179.88	6,939.5	-7,274.6	885.1	7,274.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Gurtler 2A-30H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site:	NWNW S30-T2N-R64W (Gurtler)	North Reference:	True
Well:	Gurtler 2A-30H	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)		
Gurtler 2A-30H PBHL 2	0.00	0.00	6,939.5	-7,274.6	885.1	1,279,158.49	3,252,759.54	40.096140	-104.596516
- plan hits target center									
- Point									
Gurtler 2A-30H PBHL	0.00	0.00	6,939.5	-7,274.6	870.1	1,279,158.33	3,252,744.49	40.096140	-104.596570
- plan misses target center by 15.0ft at 14272.4ft MD (6939.5 TVD, -7274.6 N, 885.1 E)									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
4,432.4	4,372.0	Sussex		-0.50	180.00	
4,770.6	4,705.0	Sussex Marker		-0.50	180.00	
5,259.2	5,186.0	Shannon		-0.50	180.00	
6,189.4	6,113.0	Teepee Buttes		-0.50	180.00	
6,911.3	6,802.0	Sharon Springs		-0.50	180.00	
6,954.8	6,834.0	Niobrara		-0.50	180.00	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
200.0	200.0	0.0	0.0	KOP @ 200'	
700.0	697.5	8.3	42.7	EOB; Inc=10°	
5,300.0	5,227.6	160.7	826.8	Start Drop -2.00	
5,800.0	5,725.0	169.0	869.6	EOD; Inc=0°	
6,501.4	6,426.5	169.0	869.6	Start 10° build @ 6501' MD	
7,406.4	6,999.4	-408.9	870.8	Landing Pt @ 7406' MD; 90.5°	
14,272.4	6,939.5	-7,274.6	885.1	TD at 14272.4	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

NWNW S30-T2N-R64W (Gurtler)

Gurtler 2A-30H

Hz

Plan #2

Anticollision Report

20 June, 2012

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	6/20/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,272.4	Plan #2 (Hz)	MWD	Geolink MWD	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
Offset Well - Wellbore - Design			Between Centres (ft)	Between Ellipses (ft)		
NWNW S30-T2N-R64W (Gurtler)						
Gurtler #1 (Existing) - Existing - Existing	7,782.5	6,965.1	720.5	688.8	22.695	CC
Gurtler #1 (Existing) - Existing - Existing	7,800.0	6,965.0	720.7	688.7	22.533	ES
Gurtler #1 (Existing) - Existing - Existing	8,000.0	6,963.2	752.6	717.8	21.586	SF
Gurtler 12-30 (Existing) - Existing - Existing	8,956.6	6,939.9	1,261.1	1,211.0	25.168	CC, ES
Gurtler 12-30 (Existing) - Existing - Existing	9,500.0	6,935.1	1,373.2	1,314.0	23.183	SF
Gurtler 2B-30H - Hz - Plan #1	200.0	200.0	25.2	24.5	38.561	CC, ES
Gurtler 2B-30H - Hz - Plan #1	14,272.4	14,187.7	915.9	656.4	3.528	SF
Kaminsky #1 (Existing) - Existing - Existing	9,101.6	6,976.6	1,077.7	1,025.1	20.492	CC, ES
Kaminsky #1 (Existing) - Existing - Existing	9,500.0	6,973.1	1,149.0	1,089.7	19.375	SF
Medsker-Overton #1 (Existing) - Existing - Existing	13,033.9	6,969.3	156.3	35.9	1.298	Level 3, CC, ES, SF
Starks #1 (Existing) - Existing - Existing	10,753.1	6,949.2	650.1	569.3	8.051	CC, ES
Starks #1 (Existing) - Existing - Existing	10,800.0	6,948.8	651.7	570.2	7.992	SF
Starks 23-30 (Existing) - Existing - Existing	9,920.4	6,957.5	271.9	205.5	4.093	CC, ES, SF
Starks 24-30 (Existing) - Existing - Existing	11,506.2	7,152.7	306.9	195.3	2.749	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Gurtler #1 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	169.13	-786.5	151.0	801.5					
100.0	100.0	69.0	69.0	0.2	0.1	169.13	-786.5	151.0	800.9	800.6	0.27	2,940.722		
200.0	200.0	169.0	169.0	0.3	0.3	169.13	-786.5	151.0	800.9	800.2	0.62	1,288.925		
300.0	300.0	269.0	269.0	0.5	0.5	90.25	-786.5	151.0	800.9	799.9	0.97	822.189		
400.0	399.8	368.8	368.8	0.7	0.6	90.63	-786.5	151.0	800.9	799.6	1.34	596.122		
500.0	499.5	468.5	468.5	0.9	0.8	91.25	-786.5	151.0	801.0	799.3	1.74	459.554		
600.0	598.7	567.7	567.7	1.2	1.0	92.10	-786.5	151.0	801.4	799.2	2.18	367.016		
700.0	697.5	666.5	666.5	1.5	1.2	93.19	-786.5	151.0	802.1	799.5	2.67	300.145		
800.0	795.9	764.9	764.9	1.8	1.3	94.41	-786.5	151.0	803.3	800.1	3.17	253.145		
900.0	894.4	863.4	863.4	2.2	1.5	95.62	-786.5	151.0	804.8	801.2	3.68	218.702		
1,000.0	992.9	961.9	961.9	2.5	1.7	96.83	-786.5	151.0	806.8	802.6	4.19	192.561		
1,100.0	1,091.4	1,060.4	1,060.4	2.9	1.9	98.03	-786.5	151.0	809.0	804.3	4.70	172.135		
1,200.0	1,189.9	1,158.9	1,158.9	3.2	2.0	99.23	-786.5	151.0	811.7	806.5	5.21	155.792		
1,300.0	1,288.4	1,257.4	1,257.4	3.6	2.2	100.42	-786.5	151.0	814.7	809.0	5.72	142.458		
1,400.0	1,386.8	1,355.8	1,355.8	3.9	2.4	101.60	-786.5	151.0	818.1	811.8	6.23	131.399		
1,500.0	1,485.3	1,454.3	1,454.3	4.3	2.5	102.77	-786.5	151.0	821.8	815.0	6.73	122.101		
1,600.0	1,583.8	1,552.8	1,552.8	4.6	2.7	103.92	-786.5	151.0	825.8	818.6	7.23	114.192		
1,700.0	1,682.3	1,651.3	1,651.3	5.0	2.9	105.07	-786.5	151.0	830.3	822.5	7.73	107.397		
1,800.0	1,780.8	1,749.8	1,749.8	5.3	3.1	106.21	-786.5	151.0	835.0	826.8	8.23	101.509		
1,900.0	1,879.2	1,848.2	1,848.2	5.7	3.2	107.33	-786.5	151.0	840.1	831.4	8.72	96.368		
2,000.0	1,977.7	1,946.7	1,946.7	6.0	3.4	108.44	-786.5	151.0	845.5	836.3	9.21	91.851		
2,100.0	2,076.2	2,045.2	2,045.2	6.4	3.6	109.53	-786.5	151.0	851.2	841.5	9.69	87.857		
2,200.0	2,174.7	2,143.7	2,143.7	6.7	3.7	110.61	-786.5	151.0	857.3	847.1	10.17	84.310		
2,300.0	2,273.2	2,242.2	2,242.2	7.1	3.9	111.67	-786.5	151.0	863.6	853.0	10.64	81.143		
2,400.0	2,371.6	2,340.6	2,340.6	7.4	4.1	112.72	-786.5	151.0	870.2	859.1	11.11	78.305		
2,500.0	2,470.1	2,439.1	2,439.1	7.8	4.3	113.75	-786.5	151.0	877.2	865.6	11.58	75.753		
2,600.0	2,568.6	2,537.6	2,537.6	8.1	4.4	114.77	-786.5	151.0	884.4	872.4	12.04	73.450		
2,700.0	2,667.1	2,636.1	2,636.1	8.5	4.6	115.77	-786.5	151.0	891.9	879.4	12.50	71.365		
2,800.0	2,765.6	2,734.6	2,734.6	8.8	4.8	116.76	-786.5	151.0	899.7	886.8	12.95	69.472		
2,900.0	2,864.0	2,833.0	2,833.0	9.2	4.9	117.72	-786.5	151.0	907.7	894.3	13.40	67.751		
3,000.0	2,962.5	2,931.5	2,931.5	9.5	5.1	118.67	-786.5	151.0	916.1	902.2	13.84	66.181		
3,100.0	3,061.0	3,030.0	3,030.0	9.9	5.3	119.61	-786.5	151.0	924.6	910.3	14.28	64.747		
3,200.0	3,159.5	3,128.5	3,128.5	10.2	5.5	120.52	-786.5	151.0	933.4	918.7	14.71	63.434		
3,300.0	3,258.0	3,227.0	3,227.0	10.6	5.6	121.42	-786.5	151.0	942.4	927.3	15.14	62.230		
3,400.0	3,356.4	3,325.4	3,325.4	11.0	5.8	122.30	-786.5	151.0	951.7	936.1	15.57	61.124		
3,500.0	3,454.9	3,423.9	3,423.9	11.3	6.0	123.17	-786.5	151.0	961.2	945.2	15.99	60.107		
3,600.0	3,553.4	3,522.4	3,522.4	11.7	6.1	124.02	-786.5	151.0	970.9	954.5	16.41	59.170		
3,700.0	3,651.9	3,620.9	3,620.9	12.0	6.3	124.85	-786.5	151.0	980.8	964.0	16.82	58.307		
3,800.0	3,750.4	3,719.4	3,719.4	12.4	6.5	125.67	-786.5	151.0	991.0	973.7	17.23	57.510		
3,900.0	3,848.9	3,817.9	3,817.9	12.7	6.7	126.47	-786.5	151.0	1,001.3	983.7	17.64	56.773		
4,000.0	3,947.3	3,916.3	3,916.3	13.1	6.8	127.25	-786.5	151.0	1,011.8	993.8	18.04	56.092		
4,100.0	4,045.8	4,014.8	4,014.8	13.4	7.0	128.02	-786.5	151.0	1,022.5	1,004.1	18.44	55.462		
4,200.0	4,144.3	4,113.3	4,113.3	13.8	7.2	128.77	-786.5	151.0	1,033.4	1,014.6	18.83	54.878		
4,300.0	4,242.8	4,211.8	4,211.8	14.1	7.4	129.50	-786.5	151.0	1,044.5	1,025.2	19.22	54.337		
4,400.0	4,341.3	4,310.3	4,310.3	14.5	7.5	130.23	-786.5	151.0	1,055.7	1,036.1	19.61	53.835		
4,500.0	4,439.7	4,408.7	4,408.7	14.8	7.7	130.93	-786.5	151.0	1,067.1	1,047.1	19.99	53.369		
4,600.0	4,538.2	4,507.2	4,507.2	15.2	7.9	131.62	-786.5	151.0	1,078.6	1,058.3	20.38	52.937		
4,700.0	4,636.7	4,605.7	4,605.7	15.5	8.0	132.30	-786.5	151.0	1,090.4	1,069.6	20.75	52.535		
4,800.0	4,735.2	4,704.2	4,704.2	15.9	8.2	132.96	-786.5	151.0	1,102.2	1,081.1	21.13	52.162		
4,900.0	4,833.7	4,802.7	4,802.7	16.2	8.4	133.61	-786.5	151.0	1,114.2	1,092.7	21.50	51.814		
5,000.0	4,932.1	4,901.1	4,901.1	16.6	8.6	134.24	-786.5	151.0	1,126.4	1,104.5	21.87	51.492		
5,100.0	5,030.6	4,999.6	4,999.6	17.0	8.7	134.87	-786.5	151.0	1,138.6	1,116.4	22.24	51.191		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Gurtler #1 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: O-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	5,129.1	5,098.1	5,098.1	17.3	8.9	135.47	-786.5	151.0	1,151.0	1,128.4	22.61	50.912		
5,300.0	5,227.6	5,196.6	5,196.6	17.7	9.1	136.07	-786.5	151.0	1,163.6	1,140.6	22.97	50.652		
5,400.0	5,326.3	5,295.3	5,295.3	18.0	9.2	136.75	-786.5	151.0	1,175.0	1,151.7	23.30	50.418		
5,500.0	5,425.6	5,394.6	5,394.6	18.2	9.4	137.28	-786.5	151.0	1,183.9	1,160.3	23.62	50.120		
5,600.0	5,525.2	5,494.2	5,494.2	18.4	9.6	137.65	-786.5	151.0	1,190.4	1,166.4	23.92	49.756		
5,700.0	5,625.1	5,594.1	5,594.1	18.5	9.8	137.87	-786.5	151.0	1,194.2	1,170.0	24.21	49.325		
5,800.0	5,725.0	5,694.0	5,694.0	18.6	9.9	-143.06	-786.5	151.0	1,195.5	1,171.1	24.47	48.861		
5,900.0	5,825.0	5,794.0	5,794.0	18.7	10.1	-143.06	-786.5	151.0	1,195.5	1,170.8	24.76	48.276		
6,000.0	5,925.0	5,894.0	5,894.0	18.8	10.3	-143.06	-786.5	151.0	1,195.5	1,170.5	25.06	47.703		
6,100.0	6,025.0	5,994.0	5,994.0	18.9	10.5	-143.06	-786.5	151.0	1,195.5	1,170.2	25.36	47.141		
6,200.0	6,125.0	6,094.0	6,094.0	19.0	10.6	-143.06	-786.5	151.0	1,195.5	1,169.9	25.66	46.591		
6,300.0	6,225.0	6,194.0	6,194.0	19.1	10.8	-143.06	-786.5	151.0	1,195.5	1,169.6	25.96	46.052		
6,400.0	6,325.0	6,294.0	6,294.0	19.2	11.0	-143.06	-786.5	151.0	1,195.5	1,169.3	26.26	45.523		
6,501.4	6,426.5	6,395.5	6,395.5	19.3	11.2	-143.06	-786.5	151.0	1,195.5	1,169.0	26.57	44.998		
6,550.0	6,475.0	6,444.0	6,444.0	19.4	11.2	37.22	-786.5	151.0	1,193.9	1,167.2	26.64	44.813		
6,600.0	6,524.6	6,493.6	6,493.6	19.4	11.3	37.72	-786.5	151.0	1,188.8	1,162.2	26.56	44.755		
6,650.0	6,573.4	6,542.4	6,542.4	19.4	11.4	38.57	-786.5	151.0	1,180.3	1,153.9	26.35	44.788		
6,700.0	6,621.1	6,590.1	6,590.1	19.4	11.5	39.79	-786.5	151.0	1,168.5	1,142.5	26.03	44.888		
6,750.0	6,667.3	6,636.3	6,636.3	19.5	11.6	41.39	-786.5	151.0	1,153.6	1,128.0	25.63	45.018		
6,800.0	6,711.7	6,680.7	6,680.7	19.5	11.7	43.42	-786.5	151.0	1,135.8	1,110.6	25.17	45.122		
6,850.0	6,753.9	6,722.9	6,722.9	19.5	11.7	45.89	-786.5	151.0	1,115.2	1,090.5	24.71	45.123		
6,900.0	6,793.7	6,762.7	6,762.7	19.5	11.8	48.83	-786.5	151.0	1,092.2	1,067.9	24.31	44.927		
6,950.0	6,830.6	6,799.6	6,799.6	19.6	11.9	52.24	-786.5	151.0	1,067.2	1,043.1	24.02	44.434		
7,000.0	6,864.5	6,833.5	6,833.5	19.7	11.9	56.12	-786.5	151.0	1,040.3	1,016.5	23.88	43.568		
7,050.0	6,895.0	6,864.0	6,864.0	19.8	12.0	60.41	-786.5	151.0	1,012.2	988.2	23.92	42.308		
7,100.0	6,922.0	6,891.0	6,891.0	19.9	12.0	65.01	-786.5	151.0	983.1	958.9	24.15	40.710		
7,150.0	6,945.1	6,914.1	6,914.1	20.0	12.1	69.78	-786.5	151.0	953.5	929.0	24.51	38.895		
7,200.0	6,964.4	6,933.4	6,933.4	20.2	12.1	74.55	-786.5	151.0	923.9	899.0	24.97	36.999		
7,250.0	6,979.5	6,948.5	6,948.5	20.5	12.1	79.11	-786.5	151.0	894.9	869.4	25.47	35.134		
7,300.0	6,990.5	6,959.5	6,959.5	20.7	12.1	83.28	-786.5	151.0	866.8	840.9	25.98	33.362		
7,350.0	6,997.1	6,966.1	6,966.1	21.0	12.2	86.92	-786.5	151.0	840.3	813.8	26.50	31.706		
7,400.0	6,999.4	6,968.4	6,968.4	21.4	12.2	89.92	-786.5	151.0	815.7	788.7	27.04	30.164		
7,406.4	6,999.4	6,968.4	6,968.4	21.4	12.2	90.26	-786.5	151.0	812.7	785.6	27.12	29.974		
7,500.0	6,998.6	6,967.6	6,967.6	22.1	12.2	90.20	-786.5	151.0	773.9	745.8	28.14	27.504		
7,600.0	6,997.7	6,966.7	6,966.7	23.0	12.2	90.13	-786.5	151.0	743.3	713.9	29.34	25.335		
7,700.0	6,996.9	6,965.9	6,965.9	24.0	12.2	90.06	-786.5	151.0	725.2	694.6	30.63	23.680		
7,782.5	6,996.1	6,965.1	6,965.1	24.8	12.2	90.00	-786.5	151.0	720.5	688.8	31.75	22.695 CC		
7,800.0	6,996.0	6,965.0	6,965.0	25.0	12.2	89.99	-786.5	151.0	720.7	688.7	31.99	22.533 ES		
7,900.0	6,995.1	6,964.1	6,964.1	26.2	12.2	89.92	-786.5	151.0	730.0	696.6	33.40	21.855		
8,000.0	6,994.2	6,963.2	6,963.2	27.4	12.2	89.85	-786.5	151.0	752.6	717.8	34.87	21.586 SF		
8,100.0	6,993.4	6,962.4	6,962.4	28.6	12.2	89.78	-786.5	151.0	787.4	751.0	36.37	21.649		
8,200.0	6,992.5	6,961.5	6,961.5	29.9	12.2	89.71	-786.5	151.0	832.7	794.8	37.90	21.970		
8,300.0	6,991.6	6,960.6	6,960.6	31.3	12.1	89.64	-786.5	151.0	887.1	847.6	39.46	22.479		
8,400.0	6,990.7	6,959.7	6,959.7	32.7	12.1	89.57	-786.5	151.0	948.9	907.9	41.04	23.119		
8,500.0	6,989.9	6,958.9	6,958.9	34.1	12.1	89.50	-786.5	151.0	1,016.8	974.2	42.65	23.844		
8,600.0	6,989.0	6,958.0	6,958.0	35.6	12.1	89.43	-786.5	151.0	1,089.7	1,045.4	44.26	24.619		
8,700.0	6,988.1	6,957.1	6,957.1	37.0	12.1	89.36	-786.5	151.0	1,166.6	1,120.7	45.89	25.420		
8,800.0	6,987.3	6,956.3	6,956.3	38.5	12.1	89.29	-786.5	151.0	1,246.7	1,199.2	47.53	26.229		
8,900.0	6,986.4	6,955.4	6,955.4	40.1	12.1	89.22	-786.5	151.0	1,329.6	1,280.4	49.18	27.033		
9,000.0	6,985.5	6,954.5	6,954.5	41.6	12.1	89.16	-786.5	151.0	1,414.7	1,363.8	50.84	27.824		
9,100.0	6,984.6	6,953.6	6,953.6	43.2	12.1	89.09	-786.5	151.0	1,501.6	1,449.1	52.51	28.596		
9,200.0	6,983.8	6,952.8	6,952.8	44.7	12.1	89.02	-786.5	151.0	1,590.1	1,535.9	54.19	29.345		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Gurtler #1 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: O-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			
9,300.0	6,982.9	6,951.9	6,951.9	46.3	12.1	88.95	-786.5	151.0	1,679.8	1,623.9	55.87	30.069		
9,400.0	6,982.0	6,951.0	6,951.0	47.9	12.1	88.88	-786.5	151.0	1,770.7	1,713.1	57.55	30.767		
9,500.0	6,981.1	6,950.1	6,950.1	49.5	12.1	88.81	-786.5	151.0	1,862.5	1,803.2	59.24	31.438		
9,600.0	6,980.3	6,949.3	6,949.3	51.1	12.1	88.74	-786.5	151.0	1,955.0	1,894.1	60.94	32.084		
9,700.0	6,979.4	6,948.4	6,948.4	52.8	12.1	88.67	-786.5	151.0	2,048.3	1,985.7	62.63	32.704		
9,800.0	6,978.5	6,947.5	6,947.5	54.4	12.1	88.60	-786.5	151.0	2,142.2	2,077.9	64.33	33.298		
9,900.0	6,977.7	6,946.7	6,946.7	56.1	12.1	88.53	-786.5	151.0	2,236.7	2,170.6	66.04	33.869		
10,000.0	6,976.8	6,945.8	6,945.8	57.7	12.1	88.46	-786.5	151.0	2,331.5	2,263.8	67.75	34.416		
10,100.0	6,975.9	6,944.9	6,944.9	59.4	12.1	88.39	-786.5	151.0	2,426.8	2,357.4	69.45	34.942		
10,200.0	6,975.0	6,944.0	6,944.0	61.0	12.1	88.32	-786.5	151.0	2,522.5	2,451.3	71.17	35.446		
10,300.0	6,974.2	6,943.2	6,943.2	62.7	12.1	88.25	-786.5	151.0	2,618.5	2,545.6	72.88	35.929		
10,400.0	6,973.3	6,942.3	6,942.3	64.4	12.1	88.18	-786.5	151.0	2,714.8	2,640.2	74.59	36.394		
10,500.0	6,972.4	6,941.4	6,941.4	66.0	12.1	88.11	-786.5	151.0	2,811.3	2,735.0	76.31	36.840		
10,600.0	6,971.5	6,940.5	6,940.5	67.7	12.1	88.05	-786.5	151.0	2,908.1	2,830.0	78.03	37.269		
10,700.0	6,970.7	6,939.7	6,939.7	69.4	12.1	87.98	-786.5	151.0	3,005.0	2,925.3	79.75	37.682		
10,800.0	6,969.8	6,938.8	6,938.8	71.1	12.1	87.91	-786.5	151.0	3,102.2	3,020.8	81.47	38.079		
10,900.0	6,968.9	6,937.9	6,937.9	72.8	12.1	87.84	-786.5	151.0	3,199.6	3,116.4	83.19	38.461		
11,000.0	6,968.1	6,937.1	6,937.1	74.5	12.1	87.77	-786.5	151.0	3,297.1	3,212.2	84.91	38.829		
11,100.0	6,967.2	6,936.2	6,936.2	76.1	12.1	87.70	-786.5	151.0	3,394.7	3,308.1	86.64	39.184		
11,200.0	6,966.3	6,935.3	6,935.3	77.8	12.1	87.63	-786.5	151.0	3,492.5	3,404.1	88.36	39.526		
11,300.0	6,965.4	6,934.4	6,934.4	79.5	12.1	87.56	-786.5	151.0	3,590.4	3,500.3	90.09	39.855		
11,400.0	6,964.6	6,933.6	6,933.6	81.2	12.1	87.49	-786.5	151.0	3,688.4	3,596.6	91.81	40.174		
11,500.0	6,963.7	6,932.7	6,932.7	82.9	12.1	87.42	-786.5	151.0	3,786.5	3,693.0	93.54	40.481		
11,600.0	6,962.8	6,931.8	6,931.8	84.7	12.1	87.35	-786.5	151.0	3,884.8	3,789.5	95.26	40.779		
11,700.0	6,961.9	6,930.9	6,930.9	86.4	12.1	87.28	-786.5	151.0	3,983.1	3,886.1	96.99	41.066		
11,800.0	6,961.1	6,930.1	6,930.1	88.1	12.1	87.21	-786.5	151.0	4,081.4	3,982.7	98.72	41.344		
11,900.0	6,960.2	6,929.2	6,929.2	89.8	12.1	87.15	-786.5	151.0	4,179.9	4,079.5	100.45	41.613		
12,000.0	6,959.3	6,928.3	6,928.3	91.5	12.1	87.08	-786.5	151.0	4,278.4	4,176.3	102.18	41.873		
12,100.0	6,958.5	6,927.5	6,927.5	93.2	12.1	87.01	-786.5	151.0	4,377.0	4,273.1	103.90	42.126		
12,200.0	6,957.6	6,926.6	6,926.6	94.9	12.1	86.94	-786.5	151.0	4,475.7	4,370.1	105.63	42.370		
12,300.0	6,956.7	6,925.7	6,925.7	96.6	12.1	86.87	-786.5	151.0	4,574.4	4,467.1	107.36	42.608		
12,400.0	6,955.8	6,924.8	6,924.8	98.4	12.1	86.80	-786.5	151.0	4,673.2	4,564.1	109.09	42.838		
12,500.0	6,955.0	6,924.0	6,924.0	100.1	12.1	86.73	-786.5	151.0	4,772.0	4,661.2	110.82	43.061		
12,600.0	6,954.1	6,923.1	6,923.1	101.8	12.1	86.66	-786.5	151.0	4,870.9	4,758.4	112.55	43.278		
12,700.0	6,953.2	6,922.2	6,922.2	103.5	12.1	86.59	-786.5	151.0	4,969.8	4,855.5	114.28	43.489		
12,800.0	6,952.3	6,921.3	6,921.3	105.3	12.1	86.52	-786.5	151.0	5,068.8	4,952.8	116.01	43.693		
12,900.0	6,951.5	6,920.5	6,920.5	107.0	12.1	86.45	-786.5	151.0	5,167.8	5,050.0	117.74	43.892		
13,000.0	6,950.6	6,919.6	6,919.6	108.7	12.1	86.38	-786.5	151.0	5,266.8	5,147.4	119.47	44.086		
13,100.0	6,949.7	6,918.7	6,918.7	110.4	12.1	86.32	-786.5	151.0	5,365.9	5,244.7	121.20	44.275		
13,200.0	6,948.9	6,917.9	6,917.9	112.2	12.1	86.25	-786.5	151.0	5,465.0	5,342.1	122.93	44.458		
13,300.0	6,948.0	6,917.0	6,917.0	113.9	12.1	86.18	-786.5	151.0	5,564.1	5,439.5	124.65	44.637		
13,400.0	6,947.1	6,916.1	6,916.1	115.6	12.1	86.11	-786.5	151.0	5,663.3	5,536.9	126.38	44.811		
13,500.0	6,946.2	6,915.2	6,915.2	117.3	12.1	86.04	-786.5	151.0	5,762.5	5,634.4	128.11	44.980		
13,600.0	6,945.4	6,914.4	6,914.4	119.1	12.1	85.97	-786.5	151.0	5,861.7	5,731.9	129.84	45.146		
13,700.0	6,944.5	6,913.5	6,913.5	120.8	12.1	85.90	-786.5	151.0	5,961.0	5,829.4	131.57	45.307		
13,800.0	6,943.6	6,912.6	6,912.6	122.5	12.1	85.83	-786.5	151.0	6,060.3	5,927.0	133.30	45.464		
13,900.0	6,942.7	6,911.7	6,911.7	124.3	12.1	85.76	-786.5	151.0	6,159.6	6,024.5	135.02	45.618		
14,000.0	6,941.9	6,910.9	6,910.9	126.0	12.1	85.69	-786.5	151.0	6,258.9	6,122.1	136.75	45.768		
14,100.0	6,941.0	6,910.0	6,910.0	127.7	12.1	85.62	-786.5	151.0	6,358.2	6,219.7	138.48	45.914		
14,200.0	6,940.1	6,909.1	6,909.1	129.5	12.1	85.56	-786.5	151.0	6,457.6	6,317.4	140.21	46.057		
14,272.4	6,939.5	6,908.5	6,908.5	130.7	12.1	85.51	-786.5	151.0	6,529.5	6,388.1	141.46	46.159		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Gurtler 12-30 (Existing) - Existing - Existing														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-168.84	-1,961.6	-387.1	2,000.0						
100.0	100.0	54.0	54.0	0.2	0.1	-168.84	-1,961.6	-387.1	1,999.5	1,999.2	0.25	8,121.904			
200.0	200.0	154.0	154.0	0.3	0.3	-168.84	-1,961.6	-387.1	1,999.5	1,998.9	0.60	3,359.581			
300.0	300.0	254.0	254.0	0.5	0.4	112.20	-1,961.6	-387.1	2,000.1	1,999.2	0.95	2,111.391			
400.0	399.8	353.8	353.8	0.7	0.6	112.30	-1,961.6	-387.1	2,002.1	2,000.8	1.31	1,524.081			
500.0	499.5	453.5	453.5	0.9	0.8	112.47	-1,961.6	-387.1	2,005.5	2,003.7	1.71	1,175.750			
600.0	598.7	552.7	552.7	1.2	1.0	112.70	-1,961.6	-387.1	2,010.2	2,008.0	2.13	942.515			
700.0	697.5	651.5	651.5	1.5	1.1	112.99	-1,961.6	-387.1	2,016.3	2,013.7	2.60	774.992			
800.0	795.9	749.9	749.9	1.8	1.3	113.44	-1,961.6	-387.1	2,023.2	2,020.2	3.08	656.593			
900.0	894.4	848.4	848.4	2.2	1.5	113.88	-1,961.6	-387.1	2,030.3	2,026.7	3.57	569.303			
1,000.0	992.9	946.9	946.9	2.5	1.7	114.32	-1,961.6	-387.1	2,037.5	2,033.4	4.05	502.635			
1,100.0	1,091.4	1,045.4	1,045.4	2.9	1.8	114.76	-1,961.6	-387.1	2,044.8	2,040.2	4.54	450.207			
1,200.0	1,189.9	1,143.9	1,143.9	3.2	2.0	115.20	-1,961.6	-387.1	2,052.2	2,047.2	5.03	407.973			
1,300.0	1,288.4	1,242.4	1,242.4	3.6	2.2	115.63	-1,961.6	-387.1	2,059.8	2,054.2	5.52	373.266			
1,400.0	1,386.8	1,340.8	1,340.8	3.9	2.3	116.06	-1,961.6	-387.1	2,067.4	2,061.4	6.01	344.263			
1,500.0	1,485.3	1,439.3	1,439.3	4.3	2.5	116.48	-1,961.6	-387.1	2,075.2	2,068.7	6.49	319.683			
1,600.0	1,583.8	1,537.8	1,537.8	4.6	2.7	116.90	-1,961.6	-387.1	2,083.1	2,076.1	6.98	298.596			
1,700.0	1,682.3	1,636.3	1,636.3	5.0	2.9	117.32	-1,961.6	-387.1	2,091.1	2,083.6	7.46	280.315			
1,800.0	1,780.8	1,734.8	1,734.8	5.3	3.0	117.74	-1,961.6	-387.1	2,099.2	2,091.3	7.94	264.323			
1,900.0	1,879.2	1,833.2	1,833.2	5.7	3.2	118.15	-1,961.6	-387.1	2,107.5	2,099.0	8.42	250.220			
2,000.0	1,977.7	1,931.7	1,931.7	6.0	3.4	118.56	-1,961.6	-387.1	2,115.8	2,106.9	8.90	237.693			
2,100.0	2,076.2	2,030.2	2,030.2	6.4	3.5	118.97	-1,961.6	-387.1	2,124.3	2,114.9	9.38	226.497			
2,200.0	2,174.7	2,128.7	2,128.7	6.7	3.7	119.37	-1,961.6	-387.1	2,132.8	2,123.0	9.85	216.433			
2,300.0	2,273.2	2,227.2	2,227.2	7.1	3.9	119.77	-1,961.6	-387.1	2,141.5	2,131.2	10.33	207.340			
2,400.0	2,371.6	2,325.6	2,325.6	7.4	4.1	120.17	-1,961.6	-387.1	2,150.3	2,139.5	10.80	199.086			
2,500.0	2,470.1	2,424.1	2,424.1	7.8	4.2	120.56	-1,961.6	-387.1	2,159.1	2,147.9	11.27	191.562			
2,600.0	2,568.6	2,522.6	2,522.6	8.1	4.4	120.95	-1,961.6	-387.1	2,168.1	2,156.4	11.74	184.678			
2,700.0	2,667.1	2,621.1	2,621.1	8.5	4.6	121.34	-1,961.6	-387.1	2,177.2	2,165.0	12.21	178.356			
2,800.0	2,765.6	2,719.6	2,719.6	8.8	4.7	121.73	-1,961.6	-387.1	2,186.4	2,173.7	12.67	172.532			
2,900.0	2,864.0	2,818.0	2,818.0	9.2	4.9	122.11	-1,961.6	-387.1	2,195.7	2,182.5	13.14	167.151			
3,000.0	2,962.5	2,916.5	2,916.5	9.5	5.1	122.49	-1,961.6	-387.1	2,205.1	2,191.5	13.60	162.164			
3,100.0	3,061.0	3,015.0	3,015.0	9.9	5.3	122.86	-1,961.6	-387.1	2,214.5	2,200.5	14.06	157.532			
3,200.0	3,159.5	3,113.5	3,113.5	10.2	5.4	123.23	-1,961.6	-387.1	2,224.1	2,209.6	14.52	153.219			
3,300.0	3,258.0	3,212.0	3,212.0	10.6	5.6	123.60	-1,961.6	-387.1	2,233.8	2,218.8	14.97	149.194			
3,400.0	3,356.4	3,310.4	3,310.4	11.0	5.8	123.97	-1,961.6	-387.1	2,243.5	2,228.1	15.43	145.429			
3,500.0	3,454.9	3,408.9	3,408.9	11.3	5.9	124.33	-1,961.6	-387.1	2,253.4	2,237.5	15.88	141.902			
3,600.0	3,553.4	3,507.4	3,507.4	11.7	6.1	124.69	-1,961.6	-387.1	2,263.3	2,247.0	16.33	138.591			
3,700.0	3,651.9	3,605.9	3,605.9	12.0	6.3	125.04	-1,961.6	-387.1	2,273.3	2,256.6	16.78	135.477			
3,800.0	3,750.4	3,704.4	3,704.4	12.4	6.5	125.40	-1,961.6	-387.1	2,283.5	2,266.2	17.23	132.544			
3,900.0	3,848.9	3,802.9	3,802.9	12.7	6.6	125.75	-1,961.6	-387.1	2,293.7	2,276.0	17.67	129.777			
4,000.0	3,947.3	3,901.3	3,901.3	13.1	6.8	126.09	-1,961.6	-387.1	2,304.0	2,285.8	18.12	127.163			
4,100.0	4,045.8	3,999.8	3,999.8	13.4	7.0	126.44	-1,961.6	-387.1	2,314.3	2,295.8	18.56	124.691			
4,200.0	4,144.3	4,098.3	4,098.3	13.8	7.2	126.78	-1,961.6	-387.1	2,324.8	2,305.8	19.00	122.349			
4,300.0	4,242.8	4,196.8	4,196.8	14.1	7.3	127.12	-1,961.6	-387.1	2,335.3	2,315.9	19.44	120.127			
4,400.0	4,341.3	4,295.3	4,295.3	14.5	7.5	127.45	-1,961.6	-387.1	2,345.9	2,326.1	19.88	118.018			
4,500.0	4,439.7	4,393.7	4,393.7	14.8	7.7	127.78	-1,961.6	-387.1	2,356.6	2,336.3	20.31	116.013			
4,600.0	4,538.2	4,492.2	4,492.2	15.2	7.8	128.11	-1,961.6	-387.1	2,367.4	2,346.7	20.75	114.106			
4,700.0	4,636.7	4,590.7	4,590.7	15.5	8.0	128.44	-1,961.6	-387.1	2,378.3	2,357.1	21.18	112.289			
4,800.0	4,735.2	4,689.2	4,689.2	15.9	8.2	128.76	-1,961.6	-387.1	2,389.2	2,367.6	21.61	110.556			
4,900.0	4,833.7	4,787.7	4,787.7	16.2	8.4	129.08	-1,961.6	-387.1	2,400.2	2,378.2	22.04	108.903			
5,000.0	4,932.1	4,886.1	4,886.1	16.6	8.5	129.40	-1,961.6	-387.1	2,411.3	2,388.8	22.47	107.323			
5,100.0	5,030.6	4,984.6	4,984.6	17.0	8.7	129.71	-1,961.6	-387.1	2,422.5	2,399.6	22.89	105.813			

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Gurtler 12-30 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-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	5,129.1	5,083.1	5,083.1	17.3	8.9	130.03	-1,961.6	-387.1	2,433.7	2,410.4	23.32	104.369		
5,300.0	5,227.6	5,181.6	5,181.6	17.7	9.0	130.34	-1,961.6	-387.1	2,445.0	2,421.3	23.74	102.985		
5,400.0	5,326.3	5,280.3	5,280.3	18.0	9.2	130.77	-1,961.6	-387.1	2,455.3	2,431.1	24.12	101.780		
5,500.0	5,425.6	5,379.6	5,379.6	18.2	9.4	131.10	-1,961.6	-387.1	2,463.3	2,438.8	24.48	100.637		
5,600.0	5,525.2	5,479.2	5,479.2	18.4	9.6	131.34	-1,961.6	-387.1	2,469.0	2,444.2	24.80	99.545		
5,700.0	5,625.1	5,579.1	5,579.1	18.5	9.7	131.48	-1,961.6	-387.1	2,472.5	2,447.4	25.10	98.495		
5,800.0	5,725.0	5,679.0	5,679.0	18.6	9.9	-149.47	-1,961.6	-387.1	2,473.7	2,448.3	25.36	97.541		
5,900.0	5,825.0	5,779.0	5,779.0	18.7	10.1	-149.47	-1,961.6	-387.1	2,473.7	2,448.0	25.65	96.441		
6,000.0	5,925.0	5,879.0	5,879.0	18.8	10.3	-149.47	-1,961.6	-387.1	2,473.7	2,447.7	25.94	95.362		
6,100.0	6,025.0	5,979.0	5,979.0	18.9	10.4	-149.47	-1,961.6	-387.1	2,473.7	2,447.4	26.23	94.303		
6,200.0	6,125.0	6,079.0	6,079.0	19.0	10.6	-149.47	-1,961.6	-387.1	2,473.7	2,447.1	26.52	93.263		
6,300.0	6,225.0	6,179.0	6,179.0	19.1	10.8	-149.47	-1,961.6	-387.1	2,473.7	2,446.8	26.82	92.242		
6,400.0	6,325.0	6,279.0	6,279.0	19.2	11.0	-149.47	-1,961.6	-387.1	2,473.7	2,446.5	27.11	91.240		
6,501.4	6,426.5	6,380.5	6,380.5	19.3	11.1	-149.47	-1,961.6	-387.1	2,473.7	2,446.2	27.41	90.243		
6,550.0	6,475.0	6,429.0	6,429.0	19.4	11.2	30.77	-1,961.6	-387.1	2,471.9	2,444.4	27.48	89.956		
6,600.0	6,524.6	6,478.6	6,478.6	19.4	11.3	31.13	-1,961.6	-387.1	2,466.4	2,439.0	27.39	90.054		
6,650.0	6,573.4	6,527.4	6,527.4	19.4	11.4	31.74	-1,961.6	-387.1	2,457.2	2,430.0	27.16	90.481		
6,700.0	6,621.1	6,575.1	6,575.1	19.4	11.5	32.63	-1,961.6	-387.1	2,444.4	2,417.6	26.80	91.215		
6,750.0	6,667.3	6,621.3	6,621.3	19.5	11.6	33.82	-1,961.6	-387.1	2,428.1	2,401.8	26.33	92.212		
6,800.0	6,711.7	6,665.7	6,665.7	19.5	11.6	35.32	-1,961.6	-387.1	2,408.5	2,382.8	25.79	93.406		
6,850.0	6,753.9	6,707.9	6,707.9	19.5	11.7	37.19	-1,961.6	-387.1	2,385.8	2,360.6	25.20	94.687		
6,900.0	6,793.7	6,747.7	6,747.7	19.5	11.8	39.47	-1,961.6	-387.1	2,360.1	2,335.5	24.61	95.893		
6,950.0	6,830.6	6,784.6	6,784.6	19.6	11.8	42.21	-1,961.6	-387.1	2,331.7	2,307.6	24.09	96.798		
7,000.0	6,864.5	6,818.5	6,818.5	19.7	11.9	45.47	-1,961.6	-387.1	2,300.9	2,277.2	23.69	97.124		
7,050.0	6,895.0	6,849.0	6,849.0	19.8	12.0	49.29	-1,961.6	-387.1	2,267.9	2,244.4	23.48	96.591		
7,100.0	6,922.0	6,876.0	6,876.0	19.9	12.0	53.73	-1,961.6	-387.1	2,233.0	2,209.5	23.50	95.006		
7,150.0	6,945.1	6,899.1	6,899.1	20.0	12.0	58.79	-1,961.6	-387.1	2,196.6	2,172.8	23.78	92.367		
7,200.0	6,964.4	6,918.4	6,918.4	20.2	12.1	64.43	-1,961.6	-387.1	2,159.0	2,134.7	24.28	88.903		
7,250.0	6,979.5	6,933.5	6,933.5	20.5	12.1	70.55	-1,961.6	-387.1	2,120.5	2,095.6	24.94	85.009		
7,300.0	6,990.5	6,944.5	6,944.5	20.7	12.1	76.98	-1,961.6	-387.1	2,081.5	2,055.8	25.67	81.094		
7,350.0	6,997.1	6,951.1	6,951.1	21.0	12.1	83.49	-1,961.6	-387.1	2,042.3	2,015.9	26.37	77.441		
7,400.0	6,999.4	6,953.4	6,953.4	21.4	12.1	89.82	-1,961.6	-387.1	2,003.3	1,976.3	27.02	74.152		
7,406.4	6,999.4	6,953.4	6,953.4	21.4	12.1	90.61	-1,961.6	-387.1	1,998.3	1,971.2	27.09	73.755		
7,500.0	6,998.6	6,952.6	6,952.6	22.1	12.1	90.58	-1,961.6	-387.1	1,926.6	1,898.5	28.12	68.521		
7,600.0	6,997.7	6,951.7	6,951.7	23.0	12.1	90.54	-1,961.6	-387.1	1,852.2	1,822.9	29.32	63.178		
7,700.0	6,996.9	6,950.9	6,950.9	24.0	12.1	90.50	-1,961.6	-387.1	1,780.2	1,749.6	30.61	58.168		
7,800.0	6,996.0	6,950.0	6,950.0	25.0	12.1	90.46	-1,961.6	-387.1	1,711.1	1,679.2	31.96	53.531		
7,900.0	6,995.1	6,949.1	6,949.1	26.2	12.1	90.42	-1,961.6	-387.1	1,645.2	1,611.8	33.38	49.284		
8,000.0	6,994.2	6,948.2	6,948.2	27.4	12.1	90.38	-1,961.6	-387.1	1,582.8	1,548.0	34.85	45.423		
8,100.0	6,993.4	6,947.4	6,947.4	28.6	12.1	90.34	-1,961.6	-387.1	1,524.5	1,488.1	36.35	41.940		
8,200.0	6,992.5	6,946.5	6,946.5	29.9	12.1	90.30	-1,961.6	-387.1	1,470.6	1,432.7	37.88	38.820		
8,300.0	6,991.6	6,945.6	6,945.6	31.3	12.1	90.26	-1,961.6	-387.1	1,421.8	1,382.3	39.44	36.046		
8,400.0	6,990.7	6,944.7	6,944.7	32.7	12.1	90.22	-1,961.6	-387.1	1,378.5	1,337.4	41.03	33.600		
8,500.0	6,989.9	6,943.9	6,943.9	34.1	12.1	90.18	-1,961.6	-387.1	1,341.2	1,298.6	42.63	31.464		
8,600.0	6,989.0	6,943.0	6,943.0	35.6	12.1	90.14	-1,961.6	-387.1	1,310.5	1,266.3	44.24	29.621		
8,700.0	6,988.1	6,942.1	6,942.1	37.0	12.1	90.10	-1,961.6	-387.1	1,286.9	1,241.1	45.87	28.054		
8,800.0	6,987.3	6,941.3	6,941.3	38.5	12.1	90.06	-1,961.6	-387.1	1,270.8	1,223.3	47.52	26.744		
8,900.0	6,986.4	6,940.4	6,940.4	40.1	12.1	90.02	-1,961.6	-387.1	1,262.4	1,213.2	49.17	25.674		
8,956.6	6,985.9	6,939.9	6,939.9	40.9	12.1	90.00	-1,961.6	-387.1	1,261.1	1,211.0	50.11	25.168 CC, ES		
9,000.0	6,985.5	6,939.5	6,939.5	41.6	12.1	89.98	-1,961.6	-387.1	1,261.9	1,211.0	50.83	24.825		
9,100.0	6,984.6	6,938.6	6,938.6	43.2	12.1	89.94	-1,961.6	-387.1	1,269.2	1,216.7	52.50	24.177		
9,200.0	6,983.8	6,937.8	6,937.8	44.7	12.1	89.90	-1,961.6	-387.1	1,284.4	1,230.2	54.17	23.709		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Gurtler 12-30 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-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			
9,300.0	6,982.9	6,936.9	6,936.9	46.3	12.1	89.86	-1,961.6	-387.1	1,307.0	1,251.2	55.85	23.400		
9,400.0	6,982.0	6,936.0	6,936.0	47.9	12.1	89.82	-1,961.6	-387.1	1,336.8	1,279.2	57.54	23.232		
9,500.0	6,981.1	6,935.1	6,935.1	49.5	12.1	89.78	-1,961.6	-387.1	1,373.2	1,314.0	59.23	23.183 SF		
9,600.0	6,980.3	6,934.3	6,934.3	51.1	12.1	89.74	-1,961.6	-387.1	1,415.7	1,354.8	60.93	23.236		
9,700.0	6,979.4	6,933.4	6,933.4	52.8	12.1	89.71	-1,961.6	-387.1	1,463.9	1,401.3	62.63	23.374		
9,800.0	6,978.5	6,932.5	6,932.5	54.4	12.1	89.67	-1,961.6	-387.1	1,517.1	1,452.8	64.33	23.583		
9,900.0	6,977.7	6,931.7	6,931.7	56.1	12.1	89.63	-1,961.6	-387.1	1,574.9	1,508.9	66.04	23.849		
10,000.0	6,976.8	6,930.8	6,930.8	57.7	12.1	89.59	-1,961.6	-387.1	1,636.8	1,569.0	67.75	24.160		
10,100.0	6,975.9	6,929.9	6,929.9	59.4	12.1	89.55	-1,961.6	-387.1	1,702.3	1,632.8	69.46	24.508		
10,200.0	6,975.0	6,929.0	6,929.0	61.0	12.1	89.51	-1,961.6	-387.1	1,771.0	1,699.8	71.17	24.883		
10,300.0	6,974.2	6,928.2	6,928.2	62.7	12.1	89.47	-1,961.6	-387.1	1,842.6	1,769.7	72.89	25.279		
10,400.0	6,973.3	6,927.3	6,927.3	64.4	12.1	89.43	-1,961.6	-387.1	1,916.7	1,842.1	74.61	25.691		
10,500.0	6,972.4	6,926.4	6,926.4	66.0	12.1	89.39	-1,961.6	-387.1	1,993.1	1,916.7	76.33	26.113		
10,600.0	6,971.5	6,925.5	6,925.5	67.7	12.1	89.35	-1,961.6	-387.1	2,071.5	1,993.4	78.05	26.541		
10,700.0	6,970.7	6,924.7	6,924.7	69.4	12.1	89.31	-1,961.6	-387.1	2,151.7	2,071.9	79.77	26.974		
10,800.0	6,969.8	6,923.8	6,923.8	71.1	12.1	89.27	-1,961.6	-387.1	2,233.5	2,152.0	81.49	27.406		
10,900.0	6,968.9	6,922.9	6,922.9	72.8	12.1	89.23	-1,961.6	-387.1	2,316.7	2,233.5	83.22	27.838		
11,000.0	6,968.1	6,922.1	6,922.1	74.5	12.1	89.19	-1,961.6	-387.1	2,401.2	2,316.2	84.95	28.267		
11,100.0	6,967.2	6,921.2	6,921.2	76.1	12.1	89.15	-1,961.6	-387.1	2,486.8	2,400.1	86.67	28.692		
11,200.0	6,966.3	6,920.3	6,920.3	77.8	12.1	89.11	-1,961.6	-387.1	2,573.5	2,485.1	88.40	29.111		
11,300.0	6,965.4	6,919.4	6,919.4	79.5	12.1	89.07	-1,961.6	-387.1	2,661.1	2,571.0	90.13	29.525		
11,400.0	6,964.6	6,918.6	6,918.6	81.2	12.1	89.03	-1,961.6	-387.1	2,749.6	2,657.7	91.86	29.932		
11,500.0	6,963.7	6,917.7	6,917.7	82.9	12.1	88.99	-1,961.6	-387.1	2,838.8	2,745.2	93.59	30.331		
11,600.0	6,962.8	6,916.8	6,916.8	84.7	12.1	88.95	-1,961.6	-387.1	2,928.7	2,833.4	95.33	30.723		
11,700.0	6,961.9	6,915.9	6,915.9	86.4	12.1	88.91	-1,961.6	-387.1	3,019.3	2,922.2	97.06	31.108		
11,800.0	6,961.1	6,915.1	6,915.1	88.1	12.1	88.87	-1,961.6	-387.1	3,110.4	3,011.6	98.79	31.485		
11,900.0	6,960.2	6,914.2	6,914.2	89.8	12.1	88.83	-1,961.6	-387.1	3,202.1	3,101.6	100.53	31.853		
12,000.0	6,959.3	6,913.3	6,913.3	91.5	12.1	88.79	-1,961.6	-387.1	3,294.3	3,192.0	102.26	32.214		
12,100.0	6,958.5	6,912.5	6,912.5	93.2	12.1	88.75	-1,961.6	-387.1	3,386.8	3,282.9	104.00	32.567		
12,200.0	6,957.6	6,911.6	6,911.6	94.9	12.1	88.71	-1,961.6	-387.1	3,479.9	3,374.1	105.73	32.912		
12,300.0	6,956.7	6,910.7	6,910.7	96.6	12.1	88.67	-1,961.6	-387.1	3,573.2	3,465.8	107.47	33.250		
12,400.0	6,955.8	6,909.8	6,909.8	98.4	12.1	88.64	-1,961.6	-387.1	3,667.0	3,557.8	109.20	33.579		
12,500.0	6,955.0	6,909.0	6,909.0	100.1	12.1	88.60	-1,961.6	-387.1	3,761.0	3,650.1	110.94	33.901		
12,600.0	6,954.1	6,908.1	6,908.1	101.8	12.1	88.56	-1,961.6	-387.1	3,855.4	3,742.7	112.68	34.216		
12,700.0	6,953.2	6,907.2	6,907.2	103.5	12.1	88.52	-1,961.6	-387.1	3,950.0	3,835.6	114.41	34.523		
12,800.0	6,952.3	6,906.3	6,906.3	105.3	12.1	88.48	-1,961.6	-387.1	4,044.9	3,928.7	116.15	34.824		
12,900.0	6,951.5	6,905.5	6,905.5	107.0	12.1	88.44	-1,961.6	-387.1	4,140.0	4,022.1	117.89	35.117		
13,000.0	6,950.6	6,904.6	6,904.6	108.7	12.1	88.40	-1,961.6	-387.1	4,235.4	4,115.7	119.63	35.404		
13,100.0	6,949.7	6,903.7	6,903.7	110.4	12.0	88.36	-1,961.6	-387.1	4,330.9	4,209.6	121.37	35.684		
13,200.0	6,948.9	6,902.9	6,902.9	112.2	12.0	88.32	-1,961.6	-387.1	4,426.7	4,303.6	123.11	35.958		
13,300.0	6,948.0	6,902.0	6,902.0	113.9	12.0	88.28	-1,961.6	-387.1	4,522.6	4,397.8	124.85	36.226		
13,400.0	6,947.1	6,901.1	6,901.1	115.6	12.0	88.24	-1,961.6	-387.1	4,618.8	4,492.2	126.58	36.487		
13,500.0	6,946.2	6,900.2	6,900.2	117.3	12.0	88.20	-1,961.6	-387.1	4,715.0	4,586.7	128.32	36.743		
13,600.0	6,945.4	6,899.4	6,899.4	119.1	12.0	88.16	-1,961.6	-387.1	4,811.5	4,681.4	130.06	36.993		
13,700.0	6,944.5	6,898.5	6,898.5	120.8	12.0	88.12	-1,961.6	-387.1	4,908.0	4,776.2	131.80	37.238		
13,800.0	6,943.6	6,897.6	6,897.6	122.5	12.0	88.08	-1,961.6	-387.1	5,004.7	4,871.2	133.54	37.477		
13,900.0	6,942.7	6,896.7	6,896.7	124.3	12.0	88.04	-1,961.6	-387.1	5,101.6	4,966.3	135.28	37.710		
14,000.0	6,941.9	6,895.9	6,895.9	126.0	12.0	88.00	-1,961.6	-387.1	5,198.5	5,061.5	137.02	37.939		
14,100.0	6,941.0	6,895.0	6,895.0	127.7	12.0	87.96	-1,961.6	-387.1	5,295.6	5,156.8	138.76	38.163		
14,200.0	6,940.1	6,894.1	6,894.1	129.5	12.0	87.92	-1,961.6	-387.1	5,392.8	5,252.2	140.50	38.382		
14,272.4	6,939.5	6,893.5	6,893.5	130.7	12.0	87.89	-1,961.6	-387.1	5,463.2	5,321.4	141.76	38.537		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Gurtler 2B-30H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.02	0.0	-25.2	25.2					
100.0	100.0	100.0	100.0	0.2	0.2	-90.02	0.0	-25.2	25.2	24.9	0.30	82.884		
200.0	200.0	200.0	200.0	0.3	0.3	-90.02	0.0	-25.2	25.2	24.5	0.65	38.561 CC, ES		
300.0	300.0	299.9	299.9	0.5	0.5	-166.02	1.7	-25.2	27.0	26.0	1.01	26.857		
400.0	399.8	399.5	399.3	0.7	0.7	-159.11	6.9	-25.5	32.8	31.4	1.37	23.868		
500.0	499.5	498.5	498.0	0.9	0.9	-151.89	15.5	-25.8	43.1	41.4	1.78	24.283		
600.0	598.7	597.0	595.7	1.2	1.2	-146.50	27.0	-26.4	58.0	55.8	2.21	26.223		
700.0	697.5	695.3	693.3	1.5	1.4	-144.46	39.0	-26.9	76.2	73.5	2.67	28.486		
800.0	795.9	793.3	790.7	1.8	1.7	-143.97	51.0	-27.4	95.8	92.6	3.15	30.387		
900.0	894.4	891.4	888.0	2.2	1.9	-143.65	62.9	-27.9	115.4	111.7	3.64	31.726		
1,000.0	992.9	989.5	985.3	2.5	2.2	-143.42	74.8	-28.4	135.0	130.8	4.13	32.715		
1,100.0	1,091.4	1,087.5	1,082.6	2.9	2.5	-143.24	86.8	-29.0	154.6	150.0	4.62	33.471		
1,200.0	1,189.9	1,185.6	1,180.0	3.2	2.7	-143.11	98.7	-29.5	174.2	169.1	5.11	34.067		
1,300.0	1,288.4	1,283.6	1,277.3	3.6	3.0	-143.00	110.6	-30.0	193.8	188.2	5.61	34.548		
1,400.0	1,386.8	1,382.8	1,375.8	3.9	3.3	-142.96	122.5	-30.5	213.3	207.2	6.10	34.948		
1,500.0	1,485.3	1,484.8	1,477.3	4.3	3.5	-143.55	132.0	-30.9	231.6	225.0	6.55	35.325		
1,600.0	1,583.8	1,587.1	1,579.5	4.6	3.7	-144.80	137.8	-31.2	248.3	241.3	6.96	35.686		
1,700.0	1,682.3	1,689.6	1,681.9	5.0	3.8	-146.62	140.0	-31.3	263.6	256.3	7.31	36.085		
1,800.0	1,780.8	1,788.5	1,780.8	5.3	3.9	-148.59	140.1	-31.3	278.3	270.7	7.63	36.478		
1,900.0	1,879.2	1,886.9	1,879.2	5.7	4.1	-150.35	140.1	-31.3	293.4	285.4	7.95	36.898		
2,000.0	1,977.7	1,985.4	1,977.7	6.0	4.2	-151.94	140.1	-31.3	308.6	300.4	8.27	37.329		
2,100.0	2,076.2	2,083.9	2,076.2	6.4	4.4	-153.38	140.1	-31.3	324.1	315.5	8.58	37.761		
2,200.0	2,174.7	2,182.4	2,174.7	6.7	4.5	-154.69	140.1	-31.3	339.8	330.9	8.90	38.187		
2,300.0	2,273.2	2,280.9	2,273.2	7.1	4.7	-155.88	140.1	-31.3	355.6	346.4	9.21	38.604		
2,400.0	2,371.6	2,379.3	2,371.6	7.4	4.8	-156.97	140.1	-31.3	371.5	362.0	9.52	39.008		
2,500.0	2,470.1	2,477.8	2,470.1	7.8	4.9	-157.97	140.1	-31.3	387.6	377.8	9.84	39.397		
2,600.0	2,568.6	2,576.3	2,568.6	8.1	5.1	-158.90	140.1	-31.3	403.8	393.6	10.15	39.771		
2,700.0	2,667.1	2,674.8	2,667.1	8.5	5.3	-159.75	140.1	-31.3	420.1	409.6	10.47	40.129		
2,800.0	2,765.6	2,773.3	2,765.6	8.8	5.4	-160.54	140.1	-31.3	436.4	425.6	10.78	40.470		
2,900.0	2,864.0	2,871.7	2,864.0	9.2	5.6	-161.27	140.1	-31.3	452.9	441.8	11.10	40.796		
3,000.0	2,962.5	2,970.2	2,962.5	9.5	5.7	-161.95	140.1	-31.3	469.4	457.9	11.42	41.106		
3,100.0	3,061.0	3,068.7	3,061.0	9.9	5.9	-162.58	140.1	-31.3	485.9	474.2	11.74	41.401		
3,200.0	3,159.5	3,167.2	3,159.5	10.2	6.0	-163.17	140.1	-31.3	502.5	490.5	12.06	41.682		
3,300.0	3,258.0	3,265.7	3,258.0	10.6	6.2	-163.73	140.1	-31.3	519.2	506.8	12.38	41.949		
3,400.0	3,356.4	3,364.1	3,356.4	11.0	6.3	-164.25	140.1	-31.3	535.9	523.2	12.70	42.203		
3,500.0	3,454.9	3,462.6	3,454.9	11.3	6.5	-164.73	140.1	-31.3	552.7	539.6	13.02	42.445		
3,600.0	3,553.4	3,561.1	3,553.4	11.7	6.7	-165.19	140.1	-31.3	569.5	556.1	13.34	42.675		
3,700.0	3,651.9	3,659.6	3,651.9	12.0	6.8	-165.63	140.1	-31.3	586.3	572.6	13.67	42.894		
3,800.0	3,750.4	3,758.1	3,750.4	12.4	7.0	-166.04	140.1	-31.3	603.1	589.1	13.99	43.102		
3,900.0	3,848.9	3,856.6	3,848.9	12.7	7.1	-166.42	140.1	-31.3	620.0	605.7	14.32	43.301		
4,000.0	3,947.3	3,955.0	3,947.3	13.1	7.3	-166.79	140.1	-31.3	636.9	622.3	14.65	43.490		
4,100.0	4,045.8	4,053.5	4,045.8	13.4	7.5	-167.14	140.1	-31.3	653.8	638.9	14.97	43.671		
4,200.0	4,144.3	4,152.0	4,144.3	13.8	7.6	-167.47	140.1	-31.3	670.8	655.5	15.30	43.843		
4,300.0	4,242.8	4,250.5	4,242.8	14.1	7.8	-167.78	140.1	-31.3	687.8	672.1	15.63	44.008		
4,400.0	4,341.3	4,349.0	4,341.3	14.5	8.0	-168.08	140.1	-31.3	704.8	688.8	15.96	44.165		
4,500.0	4,439.7	4,447.4	4,439.7	14.8	8.1	-168.36	140.1	-31.3	721.8	705.5	16.29	44.316		
4,600.0	4,538.2	4,545.9	4,538.2	15.2	8.3	-168.64	140.1	-31.3	738.8	722.2	16.62	44.460		
4,700.0	4,636.7	4,644.4	4,636.7	15.5	8.4	-168.89	140.1	-31.3	755.8	738.9	16.95	44.598		
4,800.0	4,735.2	4,742.9	4,735.2	15.9	8.6	-169.14	140.1	-31.3	772.9	755.6	17.28	44.730		
4,900.0	4,833.7	4,841.4	4,833.7	16.2	8.8	-169.38	140.1	-31.3	790.0	772.4	17.61	44.857		
5,000.0	4,932.1	4,939.8	4,932.1	16.6	8.9	-169.61	140.1	-31.3	807.0	789.1	17.94	44.978		
5,100.0	5,030.6	5,038.3	5,030.6	17.0	9.1	-169.82	140.1	-31.3	824.1	805.9	18.28	45.095		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Gurtler 2B-30H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-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	5,129.1	5,136.8	5,129.1	17.3	9.3	-170.03	140.1	-31.3	841.2	822.6	18.61	45.207		
5,300.0	5,227.6	5,235.3	5,227.6	17.7	9.4	-170.23	140.1	-31.3	858.4	839.4	18.94	45.315		
5,400.0	5,326.3	5,334.0	5,326.3	18.0	9.6	-170.46	140.1	-31.3	873.8	854.5	19.31	45.260		
5,500.0	5,425.6	5,433.3	5,425.6	18.2	9.8	-170.63	140.1	-31.3	885.8	866.2	19.66	45.061		
5,600.0	5,525.2	5,532.9	5,525.2	18.4	9.9	-170.75	140.1	-31.3	894.4	874.4	20.00	44.727		
5,700.0	5,625.1	5,632.8	5,625.1	18.5	10.1	-170.82	140.1	-31.3	899.6	879.3	20.32	44.265		
5,800.0	5,725.0	5,732.7	5,725.0	18.6	10.3	-91.84	140.1	-31.3	901.3	880.7	20.64	43.664		
5,900.0	5,825.0	5,832.7	5,825.0	18.7	10.4	-91.84	140.1	-31.3	901.3	880.3	20.98	42.957		
6,000.0	5,925.0	5,932.7	5,925.0	18.8	10.6	-91.84	140.1	-31.3	901.3	880.0	21.32	42.272		
6,100.0	6,025.0	6,032.7	6,025.0	18.9	10.8	-91.84	140.1	-31.3	901.3	879.6	21.66	41.608		
6,200.0	6,125.0	6,132.7	6,125.0	19.0	11.0	-91.84	140.1	-31.3	901.3	879.3	22.00	40.964		
6,300.0	6,225.0	6,232.7	6,225.0	19.1	11.1	-91.84	140.1	-31.3	901.3	879.0	22.34	40.339		
6,400.0	6,325.0	6,332.7	6,325.0	19.2	11.3	-91.84	140.1	-31.3	901.3	878.6	22.68	39.732		
6,501.4	6,426.5	6,434.2	6,426.5	19.3	11.5	-91.84	140.1	-31.3	901.3	878.3	23.03	39.135		
6,550.0	6,475.0	6,481.0	6,473.3	19.4	11.5	88.34	139.0	-31.3	901.3	878.1	23.16	38.912		
6,600.0	6,524.6	6,528.7	6,520.7	19.4	11.6	88.41	134.0	-31.3	901.3	878.0	23.28	38.717		
6,650.0	6,573.4	6,576.5	6,567.7	19.4	11.6	88.50	125.2	-31.3	901.2	877.9	23.37	38.560		
6,700.0	6,621.1	6,624.4	6,613.8	19.4	11.7	88.60	112.4	-31.3	901.2	877.8	23.45	38.426		
6,750.0	6,667.3	6,672.5	6,658.9	19.5	11.7	88.72	95.7	-31.3	901.2	877.7	23.53	38.300		
6,770.7	6,685.9	6,692.4	6,677.1	19.5	11.7	88.76	87.7	-31.3	901.2	877.6	23.56	38.245		
6,800.0	6,711.7	6,720.7	6,702.5	19.5	11.8	88.84	75.3	-31.3	901.2	877.6	23.61	38.164		
6,850.0	6,753.9	6,769.0	6,744.4	19.5	11.8	88.97	51.1	-31.3	901.2	877.5	23.72	37.997		
6,900.0	6,793.7	6,817.6	6,784.3	19.5	11.9	89.10	23.5	-31.3	901.2	877.4	23.86	37.776		
6,950.0	6,830.6	6,866.3	6,821.8	19.6	12.0	89.25	-7.6	-31.3	901.3	877.2	24.05	37.482		
7,000.0	6,864.5	6,915.2	6,856.7	19.7	12.1	89.40	-41.9	-31.3	901.3	877.0	24.30	37.096		
7,050.0	6,895.0	6,964.4	6,888.6	19.8	12.3	89.55	-79.2	-31.3	901.4	876.7	24.63	36.602		
7,100.0	6,922.0	7,013.7	6,917.4	19.9	12.5	89.71	-119.3	-31.3	901.4	876.4	25.04	35.995		
7,150.0	6,945.1	7,063.3	6,942.7	20.0	12.7	89.87	-161.9	-31.3	901.5	876.0	25.56	35.272		
7,200.0	6,964.4	7,113.1	6,964.3	20.2	13.0	90.03	-206.7	-31.3	901.6	875.4	26.18	34.443		
7,250.0	6,979.5	7,163.1	6,982.0	20.5	13.4	90.19	-253.5	-31.3	901.7	874.8	26.90	33.522		
7,300.0	6,990.5	7,213.4	6,995.6	20.7	13.8	90.36	-301.9	-31.3	901.8	874.1	27.72	32.529		
7,350.0	6,997.1	7,263.9	7,005.0	21.0	14.3	90.51	-351.5	-31.3	901.9	873.3	28.64	31.487		
7,400.0	6,999.4	7,314.6	7,010.0	21.4	14.8	90.67	-402.0	-31.2	902.1	872.4	29.65	30.421		
7,406.4	6,999.4	7,321.2	7,010.3	21.4	14.8	90.69	-408.5	-31.2	902.1	872.3	29.79	30.283		
7,500.0	6,998.6	7,415.3	7,010.2	22.1	15.9	90.74	-502.7	-31.2	902.3	870.4	31.85	28.328		
7,600.0	6,997.7	7,515.3	7,009.4	23.0	17.1	90.74	-602.7	-31.2	902.5	868.2	34.26	26.344		
7,700.0	6,996.9	7,615.3	7,008.5	24.0	18.4	90.74	-702.7	-31.2	902.7	865.8	36.84	24.503		
7,800.0	6,996.0	7,715.3	7,007.6	25.0	19.7	90.74	-802.6	-31.2	902.9	863.3	39.57	22.820		
7,900.0	6,995.1	7,815.3	7,006.7	26.2	21.2	90.74	-902.6	-31.2	903.1	860.7	42.41	21.296		
8,000.0	6,994.2	7,915.3	7,005.9	27.4	22.6	90.74	-1,002.6	-31.2	903.3	857.9	45.34	19.922		
8,100.0	6,993.4	8,015.3	7,005.0	28.6	24.1	90.74	-1,102.6	-31.2	903.5	855.1	48.35	18.685		
8,200.0	6,992.5	8,115.3	7,004.1	29.9	25.7	90.74	-1,202.6	-31.2	903.7	852.3	51.43	17.572		
8,300.0	6,991.6	8,215.3	7,003.2	31.3	27.2	90.74	-1,302.6	-31.2	903.9	849.3	54.55	16.569		
8,400.0	6,990.7	8,315.3	7,002.4	32.7	28.8	90.74	-1,402.6	-31.2	904.1	846.4	57.72	15.663		
8,500.0	6,989.9	8,415.3	7,001.5	34.1	30.4	90.74	-1,502.6	-31.2	904.3	843.4	60.93	14.841		
8,600.0	6,989.0	8,515.3	7,000.6	35.6	32.0	90.74	-1,602.6	-31.2	904.5	840.3	64.17	14.096		
8,700.0	6,988.1	8,615.3	6,999.8	37.0	33.7	90.74	-1,702.6	-31.2	904.7	837.3	67.43	13.416		
8,800.0	6,987.3	8,715.3	6,998.9	38.5	35.3	90.74	-1,802.6	-31.2	904.9	834.2	70.72	12.795		
8,900.0	6,986.4	8,815.3	6,998.0	40.1	37.0	90.73	-1,902.6	-31.1	905.1	831.1	74.03	12.226		
9,000.0	6,985.5	8,915.3	6,997.1	41.6	38.6	90.73	-2,002.6	-31.1	905.3	827.9	77.36	11.703		
9,100.0	6,984.6	9,015.3	6,996.3	43.2	40.3	90.73	-2,102.6	-31.1	905.5	824.8	80.70	11.221		
9,200.0	6,983.8	9,115.3	6,995.4	44.7	42.0	90.73	-2,202.6	-31.1	905.7	821.6	84.06	10.775		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Gurtler 2B-30H - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor	
9,300.0	6,982.9	9,215.3	6,994.5	46.3	43.7	90.73	-2,302.6	-31.1	905.9	818.5	87.42	10.362	
9,400.0	6,982.0	9,315.3	6,993.6	47.9	45.4	90.73	-2,402.6	-31.1	906.1	815.3	90.80	9.979	
9,500.0	6,981.1	9,415.3	6,992.8	49.5	47.1	90.73	-2,502.6	-31.1	906.3	812.1	94.19	9.622	
9,600.0	6,980.3	9,515.3	6,991.9	51.1	48.8	90.73	-2,602.6	-31.1	906.5	808.9	97.58	9.290	
9,700.0	6,979.4	9,615.3	6,991.0	52.8	50.5	90.73	-2,702.6	-31.1	906.7	805.7	100.99	8.978	
9,800.0	6,978.5	9,715.3	6,990.2	54.4	52.2	90.73	-2,802.6	-31.1	906.9	802.5	104.40	8.687	
9,900.0	6,977.7	9,815.3	6,989.3	56.1	53.9	90.73	-2,902.6	-31.1	907.1	799.3	107.81	8.414	
10,000.0	6,976.8	9,915.3	6,988.4	57.7	55.6	90.73	-3,002.6	-31.1	907.3	796.1	111.24	8.157	
10,100.0	6,975.9	10,015.3	6,987.5	59.4	57.3	90.73	-3,102.6	-31.1	907.5	792.9	114.66	7.915	
10,200.0	6,975.0	10,115.3	6,986.7	61.0	59.0	90.73	-3,202.6	-31.1	907.7	789.6	118.10	7.686	
10,300.0	6,974.2	10,215.3	6,985.8	62.7	60.7	90.73	-3,302.5	-31.0	907.9	786.4	121.53	7.471	
10,400.0	6,973.3	10,315.3	6,984.9	64.4	62.5	90.73	-3,402.5	-31.0	908.1	783.2	124.97	7.267	
10,500.0	6,972.4	10,415.3	6,984.0	66.0	64.2	90.73	-3,502.5	-31.0	908.3	779.9	128.42	7.073	
10,600.0	6,971.5	10,515.3	6,983.2	67.7	65.9	90.73	-3,602.5	-31.0	908.5	776.7	131.87	6.890	
10,700.0	6,970.7	10,615.3	6,982.3	69.4	67.6	90.73	-3,702.5	-31.0	908.7	773.4	135.32	6.716	
10,800.0	6,969.8	10,715.3	6,981.4	71.1	69.4	90.73	-3,802.5	-31.0	908.9	770.2	138.77	6.550	
10,900.0	6,968.9	10,815.3	6,980.6	72.8	71.1	90.73	-3,902.5	-31.0	909.1	766.9	142.23	6.392	
11,000.0	6,968.1	10,915.3	6,979.7	74.5	72.8	90.73	-4,002.5	-31.0	909.3	763.7	145.68	6.242	
11,100.0	6,967.2	11,015.3	6,978.8	76.1	74.5	90.73	-4,102.5	-31.0	909.5	760.4	149.14	6.098	
11,200.0	6,966.3	11,115.3	6,977.9	77.8	76.3	90.73	-4,202.5	-31.0	909.7	757.1	152.61	5.961	
11,300.0	6,965.4	11,215.3	6,977.1	79.5	78.0	90.73	-4,302.5	-31.0	909.9	753.9	156.07	5.830	
11,400.0	6,964.6	11,315.3	6,976.2	81.2	79.7	90.73	-4,402.5	-31.0	910.1	750.6	159.54	5.705	
11,500.0	6,963.7	11,415.3	6,975.3	82.9	81.5	90.73	-4,502.5	-31.0	910.3	747.3	163.01	5.585	
11,600.0	6,962.8	11,515.3	6,974.4	84.7	83.2	90.73	-4,602.5	-31.0	910.6	744.1	166.48	5.469	
11,700.0	6,961.9	11,615.3	6,973.6	86.4	84.9	90.73	-4,702.5	-31.0	910.8	740.8	169.95	5.359	
11,800.0	6,961.1	11,715.3	6,972.7	88.1	86.7	90.73	-4,802.5	-30.9	911.0	737.5	173.42	5.253	
11,900.0	6,960.2	11,815.3	6,971.8	89.8	88.4	90.73	-4,902.5	-30.9	911.2	734.3	176.90	5.151	
12,000.0	6,959.3	11,915.3	6,971.0	91.5	90.2	90.73	-5,002.5	-30.9	911.4	731.0	180.37	5.053	
12,100.0	6,958.5	12,015.3	6,970.1	93.2	91.9	90.73	-5,102.5	-30.9	911.6	727.7	183.85	4.958	
12,200.0	6,957.6	12,115.3	6,969.2	94.9	93.6	90.73	-5,202.5	-30.9	911.8	724.4	187.33	4.867	
12,300.0	6,956.7	12,215.3	6,968.3	96.6	95.4	90.73	-5,302.5	-30.9	912.0	721.2	190.81	4.779	
12,400.0	6,955.8	12,315.3	6,967.5	98.4	97.1	90.73	-5,402.5	-30.9	912.2	717.9	194.29	4.695	
12,500.0	6,955.0	12,415.3	6,966.6	100.1	98.9	90.73	-5,502.5	-30.9	912.4	714.6	197.77	4.613	
12,600.0	6,954.1	12,515.3	6,965.7	101.8	100.6	90.73	-5,602.5	-30.9	912.6	711.3	201.25	4.534	
12,700.0	6,953.2	12,615.3	6,964.8	103.5	102.3	90.73	-5,702.5	-30.9	912.8	708.0	204.73	4.458	
12,800.0	6,952.3	12,715.3	6,964.0	105.3	104.1	90.73	-5,802.4	-30.9	913.0	704.8	208.22	4.385	
12,900.0	6,951.5	12,815.3	6,963.1	107.0	105.8	90.73	-5,902.4	-30.9	913.2	701.5	211.70	4.313	
13,000.0	6,950.6	12,915.3	6,962.2	108.7	107.6	90.73	-6,002.4	-30.9	913.4	698.2	215.19	4.245	
13,100.0	6,949.7	13,015.3	6,961.4	110.4	109.3	90.73	-6,102.4	-30.9	913.6	694.9	218.67	4.178	
13,200.0	6,948.9	13,115.3	6,960.5	112.2	111.1	90.73	-6,202.4	-30.8	913.8	691.6	222.16	4.113	
13,300.0	6,948.0	13,215.3	6,959.6	113.9	112.8	90.73	-6,302.4	-30.8	914.0	688.3	225.65	4.050	
13,400.0	6,947.1	13,315.3	6,958.7	115.6	114.5	90.73	-6,402.4	-30.8	914.2	685.0	229.14	3.990	
13,500.0	6,946.2	13,415.3	6,957.9	117.3	116.3	90.73	-6,502.4	-30.8	914.4	681.8	232.63	3.931	
13,600.0	6,945.4	13,515.3	6,957.0	119.1	118.0	90.73	-6,602.4	-30.8	914.6	678.5	236.11	3.873	
13,700.0	6,944.5	13,615.3	6,956.1	120.8	119.8	90.73	-6,702.4	-30.8	914.8	675.2	239.60	3.818	
13,800.0	6,943.6	13,715.3	6,955.2	122.5	121.5	90.73	-6,802.4	-30.8	915.0	671.9	243.09	3.764	
13,900.0	6,942.7	13,815.3	6,954.4	124.3	123.3	90.73	-6,902.4	-30.8	915.2	668.6	246.59	3.711	
14,000.0	6,941.9	13,915.3	6,953.5	126.0	125.0	90.73	-7,002.4	-30.8	915.4	665.3	250.08	3.660	
14,100.0	6,941.0	14,015.3	6,952.6	127.7	126.8	90.73	-7,102.4	-30.8	915.6	662.0	253.57	3.611	
14,200.0	6,940.1	14,115.3	6,951.8	129.5	128.5	90.73	-7,202.4	-30.8	915.8	658.7	257.06	3.563	
14,272.4	6,939.5	14,187.7	6,951.1	130.7	129.8	90.73	-7,274.8	-30.8	915.9	656.4	259.59	3.528 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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Kaminsky #1 (Existing) - Existing - Existing														Offset Site Error:	0.0 ft
Survey Program: 0-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	137.12	-2,101.8	1,952.0	2,868.5						
100.0	100.0	92.0	92.0	0.2	0.2	137.12	-2,101.8	1,952.0	2,868.5	2,868.2	0.31	9,181.141			
200.0	200.0	192.0	192.0	0.3	0.3	137.12	-2,101.8	1,952.0	2,868.5	2,867.8	0.66	4,336.435			
300.0	300.0	292.0	292.0	0.5	0.5	58.16	-2,101.8	1,952.0	2,867.5	2,866.5	1.01	2,830.526			
400.0	399.8	391.8	391.8	0.7	0.7	58.30	-2,101.8	1,952.0	2,864.8	2,863.4	1.38	2,081.133			
500.0	499.5	491.5	491.5	0.9	0.9	58.52	-2,101.8	1,952.0	2,860.2	2,858.4	1.76	1,623.220			
600.0	598.7	590.7	590.7	1.2	1.0	58.84	-2,101.8	1,952.0	2,853.8	2,851.7	2.18	1,309.827			
700.0	697.5	689.5	689.5	1.5	1.2	59.25	-2,101.8	1,952.0	2,845.7	2,843.1	2.63	1,080.160			
800.0	795.9	787.9	787.9	1.8	1.4	59.55	-2,101.8	1,952.0	2,836.8	2,833.7	3.10	913.990			
900.0	894.4	886.4	886.4	2.2	1.5	59.84	-2,101.8	1,952.0	2,827.9	2,824.3	3.58	789.790			
1,000.0	992.9	984.9	984.9	2.5	1.7	60.15	-2,101.8	1,952.0	2,819.1	2,815.1	4.06	693.909			
1,100.0	1,091.4	1,083.4	1,083.4	2.9	1.9	60.45	-2,101.8	1,952.0	2,810.4	2,805.9	4.55	617.858			
1,200.0	1,189.9	1,181.9	1,181.9	3.2	2.1	60.76	-2,101.8	1,952.0	2,801.8	2,796.8	5.04	556.163			
1,300.0	1,288.4	1,280.4	1,280.4	3.6	2.2	61.06	-2,101.8	1,952.0	2,793.3	2,787.7	5.53	505.164			
1,400.0	1,386.8	1,378.8	1,378.8	3.9	2.4	61.37	-2,101.8	1,952.0	2,784.8	2,778.8	6.02	462.334			
1,500.0	1,485.3	1,477.3	1,477.3	4.3	2.6	61.68	-2,101.8	1,952.0	2,776.4	2,769.9	6.52	425.876			
1,600.0	1,583.8	1,575.8	1,575.8	4.6	2.8	62.00	-2,101.8	1,952.0	2,768.1	2,761.1	7.02	394.480			
1,700.0	1,682.3	1,674.3	1,674.3	5.0	2.9	62.31	-2,101.8	1,952.0	2,759.9	2,752.4	7.52	367.169			
1,800.0	1,780.8	1,772.8	1,772.8	5.3	3.1	62.63	-2,101.8	1,952.0	2,751.8	2,743.8	8.02	343.202			
1,900.0	1,879.2	1,871.2	1,871.2	5.7	3.3	62.94	-2,101.8	1,952.0	2,743.8	2,735.2	8.52	322.006			
2,000.0	1,977.7	1,969.7	1,969.7	6.0	3.4	63.26	-2,101.8	1,952.0	2,735.8	2,726.8	9.03	303.130			
2,100.0	2,076.2	2,068.2	2,068.2	6.4	3.6	63.59	-2,101.8	1,952.0	2,727.9	2,718.4	9.53	286.217			
2,200.0	2,174.7	2,166.7	2,166.7	6.7	3.8	63.91	-2,101.8	1,952.0	2,720.2	2,710.1	10.04	270.979			
2,300.0	2,273.2	2,265.2	2,265.2	7.1	4.0	64.23	-2,101.8	1,952.0	2,712.5	2,701.9	10.55	257.182			
2,400.0	2,371.6	2,363.6	2,363.6	7.4	4.1	64.56	-2,101.8	1,952.0	2,704.9	2,693.8	11.06	244.632			
2,500.0	2,470.1	2,462.1	2,462.1	7.8	4.3	64.89	-2,101.8	1,952.0	2,697.4	2,685.8	11.57	233.170			
2,600.0	2,568.6	2,560.6	2,560.6	8.1	4.5	65.22	-2,101.8	1,952.0	2,690.0	2,677.9	12.08	222.661			
2,700.0	2,667.1	2,659.1	2,659.1	8.5	4.6	65.55	-2,101.8	1,952.0	2,682.6	2,670.0	12.59	212.994			
2,800.0	2,765.6	2,757.6	2,757.6	8.8	4.8	65.89	-2,101.8	1,952.0	2,675.4	2,662.3	13.11	204.073			
2,900.0	2,864.0	2,856.0	2,856.0	9.2	5.0	66.22	-2,101.8	1,952.0	2,668.3	2,654.6	13.63	195.816			
3,000.0	2,962.5	2,954.5	2,954.5	9.5	5.2	66.56	-2,101.8	1,952.0	2,661.2	2,647.1	14.14	188.152			
3,100.0	3,061.0	3,053.0	3,053.0	9.9	5.3	66.90	-2,101.8	1,952.0	2,654.3	2,639.6	14.66	181.021			
3,200.0	3,159.5	3,151.5	3,151.5	10.2	5.5	67.24	-2,101.8	1,952.0	2,647.4	2,632.2	15.18	174.371			
3,300.0	3,258.0	3,250.0	3,250.0	10.6	5.7	67.59	-2,101.8	1,952.0	2,640.7	2,625.0	15.70	168.155			
3,400.0	3,356.4	3,348.4	3,348.4	11.0	5.8	67.93	-2,101.8	1,952.0	2,634.0	2,617.8	16.23	162.334			
3,500.0	3,454.9	3,446.9	3,446.9	11.3	6.0	68.28	-2,101.8	1,952.0	2,627.4	2,610.7	16.75	156.871			
3,600.0	3,553.4	3,545.4	3,545.4	11.7	6.2	68.62	-2,101.8	1,952.0	2,621.0	2,603.7	17.27	151.736			
3,700.0	3,651.9	3,643.9	3,643.9	12.0	6.4	68.97	-2,101.8	1,952.0	2,614.6	2,596.8	17.80	146.900			
3,800.0	3,750.4	3,742.4	3,742.4	12.4	6.5	69.33	-2,101.8	1,952.0	2,608.4	2,590.0	18.32	142.340			
3,900.0	3,848.9	3,840.9	3,840.9	12.7	6.7	69.68	-2,101.8	1,952.0	2,602.2	2,583.3	18.85	138.032			
4,000.0	3,947.3	3,939.3	3,939.3	13.1	6.9	70.03	-2,101.8	1,952.0	2,596.1	2,576.8	19.38	133.957			
4,100.0	4,045.8	4,037.8	4,037.8	13.4	7.0	70.39	-2,101.8	1,952.0	2,590.2	2,570.3	19.91	130.098			
4,200.0	4,144.3	4,136.3	4,136.3	13.8	7.2	70.75	-2,101.8	1,952.0	2,584.3	2,563.9	20.44	126.438			
4,300.0	4,242.8	4,234.8	4,234.8	14.1	7.4	71.11	-2,101.8	1,952.0	2,578.6	2,557.6	20.97	122.963			
4,400.0	4,341.3	4,333.3	4,333.3	14.5	7.6	71.47	-2,101.8	1,952.0	2,572.9	2,551.4	21.50	119.660			
4,500.0	4,439.7	4,431.7	4,431.7	14.8	7.7	71.83	-2,101.8	1,952.0	2,567.4	2,545.3	22.03	116.517			
4,600.0	4,538.2	4,530.2	4,530.2	15.2	7.9	72.19	-2,101.8	1,952.0	2,561.9	2,539.4	22.57	113.523			
4,700.0	4,636.7	4,628.7	4,628.7	15.5	8.1	72.56	-2,101.8	1,952.0	2,556.6	2,533.5	23.10	110.669			
4,800.0	4,735.2	4,727.2	4,727.2	15.9	8.3	72.93	-2,101.8	1,952.0	2,551.4	2,527.7	23.64	107.944			
4,900.0	4,833.7	4,825.7	4,825.7	16.2	8.4	73.29	-2,101.8	1,952.0	2,546.3	2,522.1	24.17	105.342			
5,000.0	4,932.1	4,924.1	4,924.1	16.6	8.6	73.66	-2,101.8	1,952.0	2,541.3	2,516.6	24.71	102.855			
5,100.0	5,030.6	5,022.6	5,022.6	17.0	8.8	74.04	-2,101.8	1,952.0	2,536.4	2,511.1	25.24	100.475			

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Kaminsky #1 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: O-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	5,129.1	5,121.1	5,121.1	17.3	8.9	74.41	-2,101.8	1,952.0	2,531.6	2,505.8	25.78	98.196		
5,300.0	5,227.6	5,219.6	5,219.6	17.7	9.1	74.78	-2,101.8	1,952.0	2,526.9	2,500.6	26.32	96.012		
5,400.0	5,326.3	5,318.3	5,318.3	18.0	9.3	75.04	-2,101.8	1,952.0	2,522.8	2,496.0	26.80	94.128		
5,500.0	5,425.6	5,417.6	5,417.6	18.2	9.5	75.25	-2,101.8	1,952.0	2,519.6	2,492.4	27.23	92.527		
5,600.0	5,525.2	5,517.2	5,517.2	18.4	9.6	75.39	-2,101.8	1,952.0	2,517.4	2,489.8	27.61	91.186		
5,700.0	5,625.1	5,617.1	5,617.1	18.5	9.8	75.48	-2,101.8	1,952.0	2,516.1	2,488.2	27.93	90.082		
5,800.0	5,725.0	5,717.0	5,717.0	18.6	10.0	154.51	-2,101.8	1,952.0	2,515.7	2,487.4	28.21	89.178		
5,900.0	5,825.0	5,817.0	5,817.0	18.7	10.2	154.51	-2,101.8	1,952.0	2,515.7	2,487.2	28.48	88.327		
6,000.0	5,925.0	5,917.0	5,917.0	18.8	10.3	154.51	-2,101.8	1,952.0	2,515.7	2,486.9	28.75	87.489		
6,100.0	6,025.0	6,017.0	6,017.0	18.9	10.5	154.51	-2,101.8	1,952.0	2,515.7	2,486.6	29.03	86.663		
6,200.0	6,125.0	6,117.0	6,117.0	19.0	10.7	154.51	-2,101.8	1,952.0	2,515.7	2,486.3	29.30	85.849		
6,300.0	6,225.0	6,217.0	6,217.0	19.1	10.9	154.51	-2,101.8	1,952.0	2,515.7	2,486.1	29.58	85.047		
6,400.0	6,325.0	6,317.0	6,317.0	19.2	11.0	154.51	-2,101.8	1,952.0	2,515.7	2,485.8	29.86	84.257		
6,501.4	6,426.5	6,418.5	6,418.5	19.3	11.2	154.51	-2,101.8	1,952.0	2,515.7	2,485.5	30.14	83.468		
6,550.0	6,475.0	6,467.0	6,467.0	19.4	11.3	-25.47	-2,101.8	1,952.0	2,513.8	2,483.6	30.18	83.307		
6,600.0	6,524.6	6,516.6	6,516.6	19.4	11.4	-25.78	-2,101.8	1,952.0	2,508.0	2,478.0	30.03	83.527		
6,650.0	6,573.4	6,565.4	6,565.4	19.4	11.5	-26.32	-2,101.8	1,952.0	2,498.4	2,468.7	29.69	84.156		
6,700.0	6,621.1	6,613.1	6,613.1	19.4	11.5	-27.10	-2,101.8	1,952.0	2,484.9	2,455.7	29.17	85.199		
6,750.0	6,667.3	6,659.3	6,659.3	19.5	11.6	-28.15	-2,101.8	1,952.0	2,467.8	2,439.3	28.48	86.658		
6,800.0	6,711.7	6,703.7	6,703.7	19.5	11.7	-29.49	-2,101.8	1,952.0	2,447.2	2,419.5	27.64	88.530		
6,850.0	6,753.9	6,745.9	6,745.9	19.5	11.8	-31.18	-2,101.8	1,952.0	2,423.2	2,396.5	26.69	90.785		
6,900.0	6,793.7	6,785.7	6,785.7	19.5	11.8	-33.27	-2,101.8	1,952.0	2,396.0	2,370.4	25.67	93.344		
6,950.0	6,830.6	6,822.6	6,822.6	19.6	11.9	-35.82	-2,101.8	1,952.0	2,366.0	2,341.4	24.64	96.028		
7,000.0	6,864.5	6,856.5	6,856.5	19.7	12.0	-38.93	-2,101.8	1,952.0	2,333.3	2,309.7	23.69	98.494		
7,050.0	6,895.0	6,887.0	6,887.0	19.8	12.0	-42.69	-2,101.8	1,952.0	2,298.3	2,275.4	22.94	100.181		
7,100.0	6,922.0	6,914.0	6,914.0	19.9	12.1	-47.19	-2,101.8	1,952.0	2,261.2	2,238.7	22.53	100.343		
7,150.0	6,945.1	6,937.1	6,937.1	20.0	12.1	-52.54	-2,101.8	1,952.0	2,222.4	2,199.8	22.60	98.331		
7,200.0	6,964.4	6,956.4	6,956.4	20.2	12.1	-58.77	-2,101.8	1,952.0	2,182.2	2,159.0	23.19	94.093		
7,250.0	6,979.5	6,971.5	6,971.5	20.5	12.2	-65.85	-2,101.8	1,952.0	2,140.9	2,116.7	24.21	88.443		
7,300.0	6,990.5	6,982.5	6,982.5	20.7	12.2	-73.60	-2,101.8	1,952.0	2,098.9	2,073.5	25.39	82.656		
7,350.0	6,997.1	6,989.1	6,989.1	21.0	12.2	-81.71	-2,101.8	1,952.0	2,056.5	2,030.1	26.44	77.792		
7,400.0	6,999.4	6,991.4	6,991.4	21.4	12.2	-89.77	-2,101.8	1,952.0	2,014.2	1,987.1	27.09	74.357		
7,406.4	6,999.4	6,991.4	6,991.4	21.4	12.2	-90.79	-2,101.8	1,952.0	2,008.7	1,981.6	27.14	74.023		
7,500.0	6,998.6	6,990.6	6,990.6	22.1	12.2	-90.74	-2,101.8	1,952.0	1,930.4	1,902.3	28.16	68.547		
7,600.0	6,997.7	6,989.7	6,989.7	23.0	12.2	-90.70	-2,101.8	1,952.0	1,848.3	1,819.0	29.36	62.944		
7,700.0	6,996.9	6,988.9	6,988.9	24.0	12.2	-90.65	-2,101.8	1,952.0	1,768.0	1,737.4	30.65	57.676		
7,800.0	6,996.0	6,988.0	6,988.0	25.0	12.2	-90.60	-2,101.8	1,952.0	1,689.9	1,657.9	32.02	52.781		
7,900.0	6,995.1	6,987.1	6,987.1	26.2	12.2	-90.56	-2,101.8	1,952.0	1,614.1	1,580.7	33.44	48.275		
8,000.0	6,994.2	6,986.2	6,986.2	27.4	12.2	-90.51	-2,101.8	1,952.0	1,541.1	1,506.2	34.90	44.156		
8,100.0	6,993.4	6,985.4	6,985.4	28.6	12.2	-90.46	-2,101.8	1,952.0	1,471.3	1,434.9	36.41	40.414		
8,200.0	6,992.5	6,984.5	6,984.5	29.9	12.2	-90.42	-2,101.8	1,952.0	1,405.1	1,367.2	37.94	37.035		
8,300.0	6,991.6	6,983.6	6,983.6	31.3	12.2	-90.37	-2,101.8	1,952.0	1,343.2	1,303.7	39.50	34.002		
8,400.0	6,990.7	6,982.7	6,982.7	32.7	12.2	-90.33	-2,101.8	1,952.0	1,286.0	1,244.9	41.09	31.300		
8,500.0	6,989.9	6,981.9	6,981.9	34.1	12.2	-90.28	-2,101.8	1,952.0	1,234.3	1,191.6	42.69	28.914		
8,600.0	6,989.0	6,981.0	6,981.0	35.6	12.2	-90.23	-2,101.8	1,952.0	1,188.8	1,144.4	44.31	26.830		
8,700.0	6,988.1	6,980.1	6,980.1	37.0	12.2	-90.19	-2,101.8	1,952.0	1,150.1	1,104.2	45.94	25.037		
8,800.0	6,987.3	6,979.3	6,979.3	38.5	12.2	-90.14	-2,101.8	1,952.0	1,119.1	1,071.6	47.58	23.521		
8,900.0	6,986.4	6,978.4	6,978.4	40.1	12.2	-90.09	-2,101.8	1,952.0	1,096.4	1,047.2	49.23	22.270		
9,000.0	6,985.5	6,977.5	6,977.5	41.6	12.2	-90.05	-2,101.8	1,952.0	1,082.5	1,031.6	50.90	21.269		
9,100.0	6,984.6	6,976.6	6,976.6	43.2	12.2	-90.00	-2,101.8	1,952.0	1,077.7	1,025.2	52.56	20.503		
9,101.6	6,984.6	6,976.6	6,976.6	43.2	12.2	-90.00	-2,101.8	1,952.0	1,077.7	1,025.1	52.59	20.492 CC, ES		
9,200.0	6,983.8	6,975.8	6,975.8	44.7	12.2	-89.95	-2,101.8	1,952.0	1,082.2	1,028.0	54.24	19.952		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Kaminsky #1 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft			
Survey Program: 0-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			
9,300.0	6,982.9	6,974.9	6,974.9	46.3	12.2	-89.91	-2,101.8	1,952.0	1,095.8	1,039.9	55.92	19.595				
9,400.0	6,982.0	6,974.0	6,974.0	47.9	12.2	-89.86	-2,101.8	1,952.0	1,118.3	1,060.7	57.61	19.411				
9,500.0	6,981.1	6,973.1	6,973.1	49.5	12.2	-89.82	-2,101.8	1,952.0	1,149.0	1,089.7	59.30	19.375 SF				
9,600.0	6,980.3	6,972.3	6,972.3	51.1	12.2	-89.77	-2,101.8	1,952.0	1,187.4	1,126.4	61.00	19.465				
9,700.0	6,979.4	6,971.4	6,971.4	52.8	12.2	-89.72	-2,101.8	1,952.0	1,232.7	1,170.0	62.70	19.660				
9,800.0	6,978.5	6,970.5	6,970.5	54.4	12.2	-89.68	-2,101.8	1,952.0	1,284.2	1,219.8	64.40	19.940				
9,900.0	6,977.7	6,969.7	6,969.7	56.1	12.2	-89.63	-2,101.8	1,952.0	1,341.2	1,275.1	66.11	20.288				
10,000.0	6,976.8	6,968.8	6,968.8	57.7	12.2	-89.58	-2,101.8	1,952.0	1,403.0	1,335.2	67.82	20.688				
10,100.0	6,975.9	6,967.9	6,967.9	59.4	12.2	-89.54	-2,101.8	1,952.0	1,469.1	1,399.5	69.53	21.128				
10,200.0	6,975.0	6,967.0	6,967.0	61.0	12.2	-89.49	-2,101.8	1,952.0	1,538.8	1,467.5	71.24	21.598				
10,300.0	6,974.2	6,966.2	6,966.2	62.7	12.2	-89.44	-2,101.8	1,952.0	1,611.7	1,538.7	72.96	22.089				
10,400.0	6,973.3	6,965.3	6,965.3	64.4	12.2	-89.40	-2,101.8	1,952.0	1,687.3	1,612.7	74.68	22.595				
10,500.0	6,972.4	6,964.4	6,964.4	66.0	12.2	-89.35	-2,101.8	1,952.0	1,765.4	1,689.0	76.40	23.108				
10,600.0	6,971.5	6,963.5	6,963.5	67.7	12.2	-89.30	-2,101.8	1,952.0	1,845.6	1,767.5	78.12	23.626				
10,700.0	6,970.7	6,962.7	6,962.7	69.4	12.2	-89.26	-2,101.8	1,952.0	1,927.7	1,847.9	79.84	24.144				
10,800.0	6,969.8	6,961.8	6,961.8	71.1	12.2	-89.21	-2,101.8	1,952.0	2,011.4	1,929.8	81.57	24.659				
10,900.0	6,968.9	6,960.9	6,960.9	72.8	12.1	-89.17	-2,101.8	1,952.0	2,096.5	2,013.2	83.29	25.170				
11,000.0	6,968.1	6,960.1	6,960.1	74.5	12.1	-89.12	-2,101.8	1,952.0	2,182.9	2,097.9	85.02	25.675				
11,100.0	6,967.2	6,959.2	6,959.2	76.1	12.1	-89.07	-2,101.8	1,952.0	2,270.4	2,183.6	86.75	26.172				
11,200.0	6,966.3	6,958.3	6,958.3	77.8	12.1	-89.03	-2,101.8	1,952.0	2,358.9	2,270.4	88.48	26.661				
11,300.0	6,965.4	6,957.4	6,957.4	79.5	12.1	-88.98	-2,101.8	1,952.0	2,448.2	2,358.0	90.21	27.140				
11,400.0	6,964.6	6,956.6	6,956.6	81.2	12.1	-88.93	-2,101.8	1,952.0	2,538.4	2,446.5	91.94	27.610				
11,500.0	6,963.7	6,955.7	6,955.7	82.9	12.1	-88.89	-2,101.8	1,952.0	2,629.3	2,535.6	93.67	28.070				
11,600.0	6,962.8	6,954.8	6,954.8	84.7	12.1	-88.84	-2,101.8	1,952.0	2,720.8	2,625.4	95.40	28.520				
11,700.0	6,961.9	6,953.9	6,953.9	86.4	12.1	-88.79	-2,101.8	1,952.0	2,812.9	2,715.8	97.13	28.959				
11,800.0	6,961.1	6,953.1	6,953.1	88.1	12.1	-88.75	-2,101.8	1,952.0	2,905.5	2,806.7	98.87	29.388				
11,900.0	6,960.2	6,952.2	6,952.2	89.8	12.1	-88.70	-2,101.8	1,952.0	2,998.6	2,898.0	100.60	29.807				
12,000.0	6,959.3	6,951.3	6,951.3	91.5	12.1	-88.66	-2,101.8	1,952.0	3,092.1	2,989.8	102.34	30.216				
12,100.0	6,958.5	6,950.5	6,950.5	93.2	12.1	-88.61	-2,101.8	1,952.0	3,186.1	3,082.0	104.07	30.615				
12,200.0	6,957.6	6,949.6	6,949.6	94.9	12.1	-88.56	-2,101.8	1,952.0	3,280.3	3,174.5	105.81	31.003				
12,300.0	6,956.7	6,948.7	6,948.7	96.6	12.1	-88.52	-2,101.8	1,952.0	3,374.9	3,267.4	107.54	31.383				
12,400.0	6,955.8	6,947.8	6,947.8	98.4	12.1	-88.47	-2,101.8	1,952.0	3,469.8	3,360.6	109.28	31.753				
12,500.0	6,955.0	6,947.0	6,947.0	100.1	12.1	-88.42	-2,101.8	1,952.0	3,565.0	3,454.0	111.01	32.113				
12,600.0	6,954.1	6,946.1	6,946.1	101.8	12.1	-88.38	-2,101.8	1,952.0	3,660.5	3,547.7	112.75	32.465				
12,700.0	6,953.2	6,945.2	6,945.2	103.5	12.1	-88.33	-2,101.8	1,952.0	3,756.2	3,641.7	114.49	32.808				
12,800.0	6,952.3	6,944.3	6,944.3	105.3	12.1	-88.28	-2,101.8	1,952.0	3,852.1	3,735.8	116.22	33.143				
12,900.0	6,951.5	6,943.5	6,943.5	107.0	12.1	-88.24	-2,101.8	1,952.0	3,948.2	3,830.2	117.96	33.470				
13,000.0	6,950.6	6,942.6	6,942.6	108.7	12.1	-88.19	-2,101.8	1,952.0	4,044.4	3,924.7	119.70	33.788				
13,100.0	6,949.7	6,941.7	6,941.7	110.4	12.1	-88.15	-2,101.8	1,952.0	4,140.9	4,019.5	121.44	34.099				
13,200.0	6,948.9	6,940.9	6,940.9	112.2	12.1	-88.10	-2,101.8	1,952.0	4,237.5	4,114.4	123.18	34.402				
13,300.0	6,948.0	6,940.0	6,940.0	113.9	12.1	-88.05	-2,101.8	1,952.0	4,334.3	4,209.4	124.91	34.698				
13,400.0	6,947.1	6,939.1	6,939.1	115.6	12.1	-88.01	-2,101.8	1,952.0	4,431.2	4,304.6	126.65	34.987				
13,500.0	6,946.2	6,938.2	6,938.2	117.3	12.1	-87.96	-2,101.8	1,952.0	4,528.3	4,399.9	128.39	35.269				
13,600.0	6,945.4	6,937.4	6,937.4	119.1	12.1	-87.91	-2,101.8	1,952.0	4,625.5	4,495.4	130.13	35.545				
13,700.0	6,944.5	6,936.5	6,936.5	120.8	12.1	-87.87	-2,101.8	1,952.0	4,722.8	4,590.9	131.87	35.814				
13,800.0	6,943.6	6,935.6	6,935.6	122.5	12.1	-87.82	-2,101.8	1,952.0	4,820.2	4,686.6	133.61	36.077				
13,900.0	6,942.7	6,934.7	6,934.7	124.3	12.1	-87.78	-2,101.8	1,952.0	4,917.7	4,782.4	135.35	36.334				
14,000.0	6,941.9	6,933.9	6,933.9	126.0	12.1	-87.73	-2,101.8	1,952.0	5,015.3	4,878.2	137.09	36.585				
14,100.0	6,941.0	6,933.0	6,933.0	127.7	12.1	-87.68	-2,101.8	1,952.0	5,113.0	4,974.2	138.82	36.831				
14,200.0	6,940.1	6,932.1	6,932.1	129.5	12.1	-87.64	-2,101.8	1,952.0	5,210.8	5,070.3	140.56	37.071				
14,272.4	6,939.5	6,931.5	6,931.5	130.7	12.1	-87.60	-2,101.8	1,952.0	5,281.7	5,139.9	141.82	37.241				

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Medsker-Overton #1 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft			
Survey Program: 0-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	19.0	19.0	0.0	0.0	173.14	-6,036.5	726.2	6,080.0							
100.0	100.0	119.0	119.0	0.2	0.2	173.14	-6,036.5	726.2	6,080.0	6,079.6	0.36	N/A				
200.0	200.0	219.0	219.0	0.3	0.4	173.14	-6,036.5	726.2	6,080.0	6,079.3	0.71	8,580.243				
300.0	300.0	319.0	319.0	0.5	0.6	94.15	-6,036.5	726.2	6,080.1	6,079.1	1.06	5,728.897				
400.0	399.8	418.8	418.8	0.7	0.7	94.20	-6,036.5	726.2	6,080.5	6,079.1	1.43	4,250.154				
500.0	499.5	518.5	518.5	0.9	0.9	94.26	-6,036.5	726.2	6,081.1	6,079.3	1.83	3,323.083				
600.0	598.7	617.7	617.7	1.2	1.1	94.36	-6,036.5	726.2	6,082.1	6,079.8	2.27	2,679.210				
700.0	697.5	716.5	716.5	1.5	1.3	94.48	-6,036.5	726.2	6,083.3	6,080.5	2.76	2,204.987				
800.0	795.9	814.9	814.9	1.8	1.4	94.64	-6,036.5	726.2	6,084.7	6,081.4	3.26	1,866.299				
900.0	894.4	913.4	913.4	2.2	1.6	94.80	-6,036.5	726.2	6,086.1	6,082.4	3.77	1,614.870				
1,000.0	992.9	1,011.9	1,011.9	2.5	1.8	94.96	-6,036.5	726.2	6,087.6	6,083.4	4.28	1,421.842				
1,100.0	1,091.4	1,110.4	1,110.4	2.9	1.9	95.12	-6,036.5	726.2	6,089.2	6,084.4	4.80	1,269.414				
1,200.0	1,189.9	1,208.9	1,208.9	3.2	2.1	95.28	-6,036.5	726.2	6,090.8	6,085.5	5.31	1,146.194				
1,300.0	1,288.4	1,307.4	1,307.4	3.6	2.3	95.44	-6,036.5	726.2	6,092.4	6,086.6	5.83	1,044.625				
1,400.0	1,386.8	1,405.8	1,405.8	3.9	2.5	95.60	-6,036.5	726.2	6,094.1	6,087.8	6.35	959.518				
1,500.0	1,485.3	1,504.3	1,504.3	4.3	2.6	95.76	-6,036.5	726.2	6,095.9	6,089.0	6.87	887.204				
1,600.0	1,583.8	1,602.8	1,602.8	4.6	2.8	95.92	-6,036.5	726.2	6,097.7	6,090.3	7.39	825.022				
1,700.0	1,682.3	1,701.3	1,701.3	5.0	3.0	96.08	-6,036.5	726.2	6,099.5	6,091.6	7.91	770.995				
1,800.0	1,780.8	1,799.8	1,799.8	5.3	3.1	96.24	-6,036.5	726.2	6,101.4	6,093.0	8.43	723.626				
1,900.0	1,879.2	1,898.2	1,898.2	5.7	3.3	96.40	-6,036.5	726.2	6,103.4	6,094.4	8.95	681.764				
2,000.0	1,977.7	1,996.7	1,996.7	6.0	3.5	96.56	-6,036.5	726.2	6,105.3	6,095.9	9.47	644.504				
2,100.0	2,076.2	2,095.2	2,095.2	6.4	3.7	96.72	-6,036.5	726.2	6,107.4	6,097.4	9.99	611.132				
2,200.0	2,174.7	2,193.7	2,193.7	6.7	3.8	96.88	-6,036.5	726.2	6,109.5	6,099.0	10.51	581.071				
2,300.0	2,273.2	2,292.2	2,292.2	7.1	4.0	97.04	-6,036.5	726.2	6,111.6	6,100.6	11.03	553.854				
2,400.0	2,371.6	2,390.6	2,390.6	7.4	4.2	97.20	-6,036.5	726.2	6,113.8	6,102.2	11.56	529.099				
2,500.0	2,470.1	2,489.1	2,489.1	7.8	4.3	97.36	-6,036.5	726.2	6,116.0	6,103.9	12.08	506.485				
2,600.0	2,568.6	2,587.6	2,587.6	8.1	4.5	97.52	-6,036.5	726.2	6,118.3	6,105.7	12.60	485.750				
2,700.0	2,667.1	2,686.1	2,686.1	8.5	4.7	97.67	-6,036.5	726.2	6,120.6	6,107.5	13.12	466.668				
2,800.0	2,765.6	2,784.6	2,784.6	8.8	4.9	97.83	-6,036.5	726.2	6,123.0	6,109.4	13.64	449.051				
2,900.0	2,864.0	2,883.0	2,883.0	9.2	5.0	97.99	-6,036.5	726.2	6,125.4	6,111.3	14.16	432.737				
3,000.0	2,962.5	2,981.5	2,981.5	9.5	5.2	98.15	-6,036.5	726.2	6,127.9	6,113.2	14.67	417.587				
3,100.0	3,061.0	3,080.0	3,080.0	9.9	5.4	98.31	-6,036.5	726.2	6,130.4	6,115.2	15.19	403.482				
3,200.0	3,159.5	3,178.5	3,178.5	10.2	5.5	98.47	-6,036.5	726.2	6,133.0	6,117.3	15.71	390.318				
3,300.0	3,258.0	3,277.0	3,277.0	10.6	5.7	98.62	-6,036.5	726.2	6,135.6	6,119.4	16.23	378.004				
3,400.0	3,356.4	3,375.4	3,375.4	11.0	5.9	98.78	-6,036.5	726.2	6,138.3	6,121.5	16.75	366.461				
3,500.0	3,454.9	3,473.9	3,473.9	11.3	6.1	98.94	-6,036.5	726.2	6,141.0	6,123.7	17.27	355.619				
3,600.0	3,553.4	3,572.4	3,572.4	11.7	6.2	99.10	-6,036.5	726.2	6,143.8	6,126.0	17.79	345.416				
3,700.0	3,651.9	3,670.9	3,670.9	12.0	6.4	99.26	-6,036.5	726.2	6,146.6	6,128.3	18.30	335.799				
3,800.0	3,750.4	3,769.4	3,769.4	12.4	6.6	99.41	-6,036.5	726.2	6,149.4	6,130.6	18.82	326.718				
3,900.0	3,848.9	3,867.9	3,867.9	12.7	6.8	99.57	-6,036.5	726.2	6,152.3	6,133.0	19.34	318.130				
4,000.0	3,947.3	3,966.3	3,966.3	13.1	6.9	99.73	-6,036.5	726.2	6,155.3	6,135.4	19.86	309.996				
4,100.0	4,045.8	4,064.8	4,064.8	13.4	7.1	99.88	-6,036.5	726.2	6,158.3	6,137.9	20.37	302.282				
4,200.0	4,144.3	4,163.3	4,163.3	13.8	7.3	100.04	-6,036.5	726.2	6,161.4	6,140.5	20.89	294.956				
4,300.0	4,242.8	4,261.8	4,261.8	14.1	7.4	100.20	-6,036.5	726.2	6,164.4	6,143.0	21.41	287.989				
4,400.0	4,341.3	4,360.3	4,360.3	14.5	7.6	100.35	-6,036.5	726.2	6,167.6	6,145.7	21.92	281.357				
4,500.0	4,439.7	4,458.7	4,458.7	14.8	7.8	100.51	-6,036.5	726.2	6,170.8	6,148.3	22.44	275.036				
4,600.0	4,538.2	4,557.2	4,557.2	15.2	8.0	100.67	-6,036.5	726.2	6,174.0	6,151.1	22.95	269.005				
4,700.0	4,636.7	4,655.7	4,655.7	15.5	8.1	100.82	-6,036.5	726.2	6,177.3	6,153.8	23.47	263.244				
4,800.0	4,735.2	4,754.2	4,754.2	15.9	8.3	100.98	-6,036.5	726.2	6,180.6	6,156.7	23.98	257.736				
4,900.0	4,833.7	4,852.7	4,852.7	16.2	8.5	101.13	-6,036.5	726.2	6,184.0	6,159.5	24.49	252.465				
5,000.0	4,932.1	4,951.1	4,951.1	16.6	8.6	101.29	-6,036.5	726.2	6,187.4	6,162.4	25.01	247.416				
5,100.0	5,030.6	5,049.6	5,049.6	17.0	8.8	101.44	-6,036.5	726.2	6,190.9	6,165.4	25.52	242.575				

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Medsker-Overton #1 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program:		0-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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,129.1	5,148.1	5,148.1	17.3	9.0	101.60	-6,036.5	726.2	6,194.4	6,168.4	26.03	237.930		
5,300.0	5,227.6	5,246.6	5,246.6	17.7	9.2	101.75	-6,036.5	726.2	6,198.0	6,171.5	26.55	233.470		
5,400.0	5,326.3	5,345.3	5,345.3	18.0	9.3	101.96	-6,036.5	726.2	6,201.3	6,174.2	27.01	229.613		
5,500.0	5,425.6	5,444.6	5,444.6	18.2	9.5	102.12	-6,036.5	726.2	6,203.8	6,176.4	27.42	226.264		
5,600.0	5,525.2	5,544.2	5,544.2	18.4	9.7	102.23	-6,036.5	726.2	6,205.7	6,177.9	27.78	223.377		
5,700.0	5,625.1	5,644.1	5,644.1	18.5	9.9	102.30	-6,036.5	726.2	6,206.8	6,178.7	28.10	220.912		
5,800.0	5,725.0	5,744.0	5,744.0	18.6	10.0	-178.68	-6,036.5	726.2	6,207.1	6,178.8	28.36	218.881		
5,900.0	5,825.0	5,844.0	5,844.0	18.7	10.2	-178.68	-6,036.5	726.2	6,207.1	6,178.5	28.63	216.807		
6,000.0	5,925.0	5,944.0	5,944.0	18.8	10.4	-178.68	-6,036.5	726.2	6,207.1	6,178.2	28.90	214.764		
6,100.0	6,025.0	6,044.0	6,044.0	18.9	10.5	-178.68	-6,036.5	726.2	6,207.1	6,178.0	29.18	212.750		
6,200.0	6,125.0	6,144.0	6,144.0	19.0	10.7	-178.68	-6,036.5	726.2	6,207.1	6,177.7	29.45	210.766		
6,300.0	6,225.0	6,244.0	6,244.0	19.1	10.9	-178.68	-6,036.5	726.2	6,207.1	6,177.4	29.73	208.812		
6,400.0	6,325.0	6,344.0	6,344.0	19.2	11.1	-178.68	-6,036.5	726.2	6,207.1	6,177.1	30.00	206.885		
6,501.4	6,426.5	6,445.5	6,445.5	19.3	11.2	-178.68	-6,036.5	726.2	6,207.1	6,176.9	30.28	204.960		
6,550.0	6,475.0	6,494.0	6,494.0	19.4	11.3	1.45	-6,036.5	726.2	6,205.1	6,174.8	30.33	204.600		
6,600.0	6,524.6	6,543.6	6,543.6	19.4	11.4	1.47	-6,036.5	726.2	6,198.7	6,168.5	30.18	205.359		
6,650.0	6,573.4	6,592.4	6,592.4	19.4	11.5	1.50	-6,036.5	726.2	6,188.0	6,158.1	29.86	207.244		
6,700.0	6,621.1	6,640.1	6,640.1	19.4	11.6	1.54	-6,036.5	726.2	6,173.1	6,143.7	29.35	210.299		
6,750.0	6,667.3	6,686.3	6,686.3	19.5	11.7	1.60	-6,036.5	726.2	6,154.1	6,125.4	28.68	214.596		
6,800.0	6,711.7	6,730.7	6,730.7	19.5	11.7	1.68	-6,036.5	726.2	6,131.1	6,103.3	27.84	220.231		
6,850.0	6,753.9	6,772.9	6,772.9	19.5	11.8	1.79	-6,036.5	726.2	6,104.4	6,077.5	26.85	227.324		
6,900.0	6,793.7	6,812.7	6,812.7	19.5	11.9	1.92	-6,036.5	726.2	6,074.1	6,048.3	25.74	236.019		
6,950.0	6,830.6	6,849.6	6,849.6	19.6	12.0	2.09	-6,036.5	726.2	6,040.4	6,015.9	24.51	246.470		
7,000.0	6,864.5	6,883.5	6,883.5	19.7	12.0	2.31	-6,036.5	726.2	6,003.6	5,980.4	23.20	258.818		
7,050.0	6,895.0	6,914.0	6,914.0	19.8	12.1	2.61	-6,036.5	726.2	5,964.1	5,942.2	21.83	273.149		
7,100.0	6,922.0	6,941.0	6,941.0	19.9	12.1	3.01	-6,036.5	726.2	5,922.0	5,901.5	20.46	289.399		
7,150.0	6,945.1	6,964.1	6,964.1	20.0	12.2	3.58	-6,036.5	726.2	5,877.7	5,858.6	19.13	307.198		
7,200.0	6,964.4	6,983.4	6,983.4	20.2	12.2	4.45	-6,036.5	726.2	5,831.6	5,813.7	17.91	325.601		
7,250.0	6,979.5	6,998.5	6,998.5	20.5	12.2	5.91	-6,036.5	726.2	5,784.0	5,767.1	16.88	342.641		
7,300.0	6,990.5	7,009.5	7,009.5	20.7	12.2	8.80	-6,036.5	726.2	5,735.3	5,719.1	16.19	354.219		
7,350.0	6,997.1	7,016.1	7,016.1	21.0	12.2	17.05	-6,036.5	726.2	5,685.7	5,669.3	16.46	345.403		
7,400.0	6,999.4	7,018.4	7,018.4	21.4	12.2	84.85	-6,036.5	726.2	5,635.8	5,608.8	26.98	208.886		
7,406.4	6,999.4	7,018.4	7,018.4	21.4	12.2	107.44	-6,036.5	726.2	5,629.4	5,602.8	26.62	211.511		
7,500.0	6,998.6	7,017.6	7,017.6	22.1	12.2	107.17	-6,036.5	726.2	5,535.9	5,508.3	27.60	200.548		
7,600.0	6,997.7	7,016.7	7,016.7	23.0	12.2	106.88	-6,036.5	726.2	5,435.9	5,407.1	28.76	188.983		
7,700.0	6,996.9	7,015.9	7,015.9	24.0	12.2	106.58	-6,036.5	726.2	5,336.0	5,305.9	30.01	177.790		
7,800.0	6,996.0	7,015.0	7,015.0	25.0	12.2	106.29	-6,036.5	726.2	5,236.0	5,204.7	31.33	167.103		
7,900.0	6,995.1	7,014.1	7,014.1	26.2	12.2	105.99	-6,036.5	726.2	5,136.1	5,103.3	32.72	156.992		
8,000.0	6,994.2	7,013.2	7,013.2	27.4	12.2	105.70	-6,036.5	726.2	5,036.1	5,002.0	34.15	147.485		
8,100.0	6,993.4	7,012.4	7,012.4	28.6	12.2	105.40	-6,036.5	726.2	4,936.2	4,900.5	35.62	138.580		
8,200.0	6,992.5	7,011.5	7,011.5	29.9	12.2	105.10	-6,036.5	726.2	4,836.2	4,799.1	37.13	130.259		
8,300.0	6,991.6	7,010.6	7,010.6	31.3	12.2	104.80	-6,036.5	726.2	4,736.3	4,697.6	38.67	122.492		
8,400.0	6,990.7	7,009.7	7,009.7	32.7	12.2	104.51	-6,036.5	726.2	4,636.3	4,596.1	40.23	115.246		
8,500.0	6,989.9	7,008.9	7,008.9	34.1	12.2	104.21	-6,036.5	726.2	4,536.4	4,494.6	41.82	108.484		
8,600.0	6,989.0	7,008.0	7,008.0	35.6	12.2	103.90	-6,036.5	726.2	4,436.5	4,393.0	43.42	102.171		
8,700.0	6,988.1	7,007.1	7,007.1	37.0	12.2	103.60	-6,036.5	726.2	4,336.5	4,291.5	45.04	96.271		
8,800.0	6,987.3	7,006.3	7,006.3	38.5	12.2	103.30	-6,036.5	726.2	4,236.6	4,189.9	46.68	90.753		
8,900.0	6,986.4	7,005.4	7,005.4	40.1	12.2	103.00	-6,036.5	726.2	4,136.7	4,088.3	48.33	85.585		
9,000.0	6,985.5	7,004.5	7,004.5	41.6	12.2	102.69	-6,036.5	726.2	4,036.7	3,986.7	50.00	80.739		
9,100.0	6,984.6	7,003.6	7,003.6	43.2	12.2	102.39	-6,036.5	726.2	3,936.8	3,885.1	51.67	76.189		
9,200.0	6,983.8	7,002.8	7,002.8	44.7	12.2	102.08	-6,036.5	726.2	3,836.9	3,783.6	53.36	71.912		
9,300.0	6,982.9	7,001.9	7,001.9	46.3	12.2	101.78	-6,036.5	726.2	3,737.0	3,681.9	55.05	67.886		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Medsker-Overton #1 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
9,400.0	6,982.0	7,001.0	7,001.0	47.9	12.2	101.47	-6,036.5	726.2	3,637.1	3,580.3	56.75	64.091		
9,500.0	6,981.1	7,000.1	7,000.1	49.5	12.2	101.16	-6,036.5	726.2	3,537.2	3,478.7	58.46	60.509		
9,600.0	6,980.3	6,999.3	6,999.3	51.1	12.2	100.85	-6,036.5	726.2	3,437.3	3,377.1	60.17	57.124		
9,700.0	6,979.4	6,998.4	6,998.4	52.8	12.2	100.54	-6,036.5	726.2	3,337.4	3,275.5	61.89	53.922		
9,800.0	6,978.5	6,997.5	6,997.5	54.4	12.2	100.23	-6,036.5	726.2	3,237.5	3,173.9	63.62	50.889		
9,900.0	6,977.7	6,996.7	6,996.7	56.1	12.2	99.92	-6,036.5	726.2	3,137.6	3,072.3	65.35	48.013		
10,000.0	6,976.8	6,995.8	6,995.8	57.7	12.2	99.61	-6,036.5	726.2	3,037.8	2,970.7	67.09	45.282		
10,100.0	6,975.9	6,994.9	6,994.9	59.4	12.2	99.30	-6,036.5	726.2	2,937.9	2,869.1	68.83	42.686		
10,200.0	6,975.0	6,994.0	6,994.0	61.0	12.2	98.99	-6,036.5	726.2	2,838.1	2,767.5	70.57	40.216		
10,300.0	6,974.2	6,993.2	6,993.2	62.7	12.2	98.68	-6,036.5	726.2	2,738.2	2,665.9	72.32	37.864		
10,400.0	6,973.3	6,992.3	6,992.3	64.4	12.2	98.37	-6,036.5	726.2	2,638.4	2,564.3	74.07	35.622		
10,500.0	6,972.4	6,991.4	6,991.4	66.0	12.2	98.05	-6,036.5	726.2	2,538.6	2,462.8	75.82	33.482		
10,600.0	6,971.5	6,990.5	6,990.5	67.7	12.2	97.74	-6,036.5	726.2	2,438.8	2,361.2	77.58	31.437		
10,700.0	6,970.7	6,989.7	6,989.7	69.4	12.2	97.42	-6,036.5	726.2	2,339.0	2,259.7	79.33	29.483		
10,800.0	6,969.8	6,988.8	6,988.8	71.1	12.2	97.11	-6,036.5	726.2	2,239.2	2,158.2	81.09	27.613		
10,900.0	6,968.9	6,987.9	6,987.9	72.8	12.2	96.79	-6,036.5	726.2	2,139.5	2,056.6	82.85	25.822		
11,000.0	6,968.1	6,987.1	6,987.1	74.5	12.2	96.48	-6,036.5	726.2	2,039.8	1,955.2	84.62	24.106		
11,100.0	6,967.2	6,986.2	6,986.2	76.1	12.2	96.16	-6,036.5	726.2	1,940.1	1,853.7	86.38	22.460		
11,200.0	6,966.3	6,985.3	6,985.3	77.8	12.2	95.85	-6,036.5	726.2	1,840.4	1,752.3	88.14	20.880		
11,300.0	6,965.4	6,984.4	6,984.4	79.5	12.2	95.53	-6,036.5	726.2	1,740.8	1,650.9	89.91	19.362		
11,400.0	6,964.6	6,983.6	6,983.6	81.2	12.2	95.21	-6,036.5	726.2	1,641.3	1,549.6	91.67	17.903		
11,500.0	6,963.7	6,982.7	6,982.7	82.9	12.2	94.89	-6,036.5	726.2	1,541.8	1,448.3	93.44	16.500		
11,600.0	6,962.8	6,981.8	6,981.8	84.7	12.2	94.58	-6,036.5	726.2	1,442.3	1,347.1	95.21	15.149		
11,700.0	6,961.9	6,980.9	6,980.9	86.4	12.2	94.26	-6,036.5	726.2	1,342.9	1,246.0	96.97	13.849		
11,800.0	6,961.1	6,980.1	6,980.1	88.1	12.2	93.94	-6,036.5	726.2	1,243.7	1,144.9	98.74	12.596		
11,900.0	6,960.2	6,979.2	6,979.2	89.8	12.2	93.62	-6,036.5	726.2	1,144.5	1,044.0	100.50	11.389		
12,000.0	6,959.3	6,978.3	6,978.3	91.5	12.2	93.30	-6,036.5	726.2	1,045.6	943.3	102.26	10.224		
12,100.0	6,958.5	6,977.5	6,977.5	93.2	12.2	92.98	-6,036.5	726.2	946.8	842.8	104.02	9.102		
12,200.0	6,957.6	6,976.6	6,976.6	94.9	12.2	92.67	-6,036.5	726.2	848.4	742.6	105.78	8.020		
12,300.0	6,956.7	6,975.7	6,975.7	96.6	12.2	92.35	-6,036.5	726.2	750.3	642.8	107.54	6.977		
12,400.0	6,955.8	6,974.8	6,974.8	98.4	12.2	92.03	-6,036.5	726.2	652.8	543.5	109.30	5.973		
12,500.0	6,955.0	6,974.0	6,974.0	100.1	12.2	91.71	-6,036.5	726.2	556.3	445.2	111.05	5.009		
12,600.0	6,954.1	6,973.1	6,973.1	101.8	12.2	91.39	-6,036.5	726.2	461.1	348.3	112.81	4.088		
12,700.0	6,953.2	6,972.2	6,972.2	103.5	12.2	91.07	-6,036.5	726.2	368.6	254.1	114.56	3.218		
12,800.0	6,952.3	6,971.3	6,971.3	105.3	12.2	90.75	-6,036.5	726.2	281.3	165.0	116.31	2.418		
12,900.0	6,951.5	6,970.5	6,970.5	107.0	12.2	90.43	-6,036.5	726.2	205.8	87.7	118.05	1.743		
13,000.0	6,950.6	6,969.6	6,969.6	108.7	12.2	90.11	-6,036.5	726.2	159.9	40.1	119.79	1.335 Level 3		
13,033.9	6,950.3	6,969.3	6,969.3	109.3	12.2	90.00	-6,036.5	726.2	156.3	35.9	120.38	1.298 Level 3, CC, ES, SF		
13,100.0	6,949.7	6,968.7	6,968.7	110.4	12.2	89.79	-6,036.5	726.2	169.7	48.2	121.53	1.396 Level 3		
13,200.0	6,948.9	6,967.9	6,967.9	112.2	12.2	89.47	-6,036.5	726.2	228.1	104.8	123.27	1.850		
13,300.0	6,948.0	6,967.0	6,967.0	113.9	12.2	89.15	-6,036.5	726.2	308.6	183.6	125.00	2.469		
13,400.0	6,947.1	6,966.1	6,966.1	115.6	12.2	88.83	-6,036.5	726.2	398.1	271.4	126.73	3.141		
13,500.0	6,946.2	6,965.2	6,965.2	117.3	12.2	88.51	-6,036.5	726.2	491.6	363.2	128.46	3.827		
13,600.0	6,945.4	6,964.4	6,964.4	119.1	12.2	88.19	-6,036.5	726.2	587.3	457.1	130.18	4.511		
13,700.0	6,944.5	6,963.5	6,963.5	120.8	12.2	87.87	-6,036.5	726.2	684.2	552.3	131.90	5.187		
13,800.0	6,943.6	6,962.6	6,962.6	122.5	12.2	87.55	-6,036.5	726.2	781.9	648.3	133.61	5.852		
13,900.0	6,942.7	6,961.7	6,961.7	124.3	12.2	87.23	-6,036.5	726.2	880.1	744.8	135.32	6.504		
14,000.0	6,941.9	6,960.9	6,960.9	126.0	12.1	86.91	-6,036.5	726.2	978.7	841.6	137.02	7.142		
14,100.0	6,941.0	6,960.0	6,960.0	127.7	12.1	86.59	-6,036.5	726.2	1,077.5	938.8	138.72	7.767		
14,200.0	6,940.1	6,959.1	6,959.1	129.5	12.1	86.27	-6,036.5	726.2	1,176.5	1,036.1	140.42	8.379		
14,272.4	6,939.5	6,958.5	6,958.5	130.7	12.1	86.04	-6,036.5	726.2	1,248.3	1,106.7	141.64	8.813		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Starks #1 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft			
Survey Program: 0-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 +N/-S (ft)	Centre +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	176.53	-3,756.8	227.7	3,763.8							
100.0	100.0	79.0	79.0	0.2	0.1	176.53	-3,756.8	227.7	3,763.7	3,763.4	0.29	N/A				
200.0	200.0	179.0	179.0	0.3	0.3	176.53	-3,756.8	227.7	3,763.7	3,763.1	0.64	5,891.934				
300.0	300.0	279.0	279.0	0.5	0.5	97.55	-3,756.8	227.7	3,763.9	3,763.0	0.99	3,796.418				
400.0	399.8	378.8	378.8	0.7	0.7	97.62	-3,756.8	227.7	3,764.6	3,763.3	1.36	2,767.037				
500.0	499.5	478.5	478.5	0.9	0.8	97.73	-3,756.8	227.7	3,765.8	3,764.0	1.76	2,140.641				
600.0	598.7	577.7	577.7	1.2	1.0	97.88	-3,756.8	227.7	3,767.5	3,765.3	2.20	1,713.940				
700.0	697.5	676.5	676.5	1.5	1.2	98.06	-3,756.8	227.7	3,769.7	3,767.0	2.69	1,403.942				
800.0	795.9	774.9	774.9	1.8	1.4	98.32	-3,756.8	227.7	3,772.2	3,769.0	3.18	1,184.594				
900.0	894.4	873.4	873.4	2.2	1.5	98.58	-3,756.8	227.7	3,774.8	3,771.1	3.69	1,022.835				
1,000.0	992.9	971.9	971.9	2.5	1.7	98.84	-3,756.8	227.7	3,777.4	3,773.2	4.20	899.272				
1,100.0	1,091.4	1,070.4	1,070.4	2.9	1.9	99.09	-3,756.8	227.7	3,780.2	3,775.5	4.71	802.079				
1,200.0	1,189.9	1,168.9	1,168.9	3.2	2.0	99.35	-3,756.8	227.7	3,783.0	3,777.8	5.23	723.761				
1,300.0	1,288.4	1,267.4	1,267.4	3.6	2.2	99.60	-3,756.8	227.7	3,785.9	3,780.2	5.74	659.374				
1,400.0	1,386.8	1,365.8	1,365.8	3.9	2.4	99.86	-3,756.8	227.7	3,788.9	3,782.6	6.26	605.543				
1,500.0	1,485.3	1,464.3	1,464.3	4.3	2.6	100.11	-3,756.8	227.7	3,791.9	3,785.2	6.77	559.893				
1,600.0	1,583.8	1,562.8	1,562.8	4.6	2.7	100.37	-3,756.8	227.7	3,795.1	3,787.8	7.29	520.706				
1,700.0	1,682.3	1,661.3	1,661.3	5.0	2.9	100.62	-3,756.8	227.7	3,798.3	3,790.5	7.80	486.709				
1,800.0	1,780.8	1,759.8	1,759.8	5.3	3.1	100.87	-3,756.8	227.7	3,801.6	3,793.3	8.32	456.944				
1,900.0	1,879.2	1,858.2	1,858.2	5.7	3.2	101.13	-3,756.8	227.7	3,804.9	3,796.1	8.83	430.672				
2,000.0	1,977.7	1,956.7	1,956.7	6.0	3.4	101.38	-3,756.8	227.7	3,808.4	3,799.0	9.35	407.316				
2,100.0	2,076.2	2,055.2	2,055.2	6.4	3.6	101.63	-3,756.8	227.7	3,811.9	3,802.0	9.86	386.420				
2,200.0	2,174.7	2,153.7	2,153.7	6.7	3.8	101.88	-3,756.8	227.7	3,815.5	3,805.1	10.38	367.617				
2,300.0	2,273.2	2,252.2	2,252.2	7.1	3.9	102.14	-3,756.8	227.7	3,819.1	3,808.3	10.89	350.610				
2,400.0	2,371.6	2,350.6	2,350.6	7.4	4.1	102.39	-3,756.8	227.7	3,822.9	3,811.5	11.41	335.155				
2,500.0	2,470.1	2,449.1	2,449.1	7.8	4.3	102.64	-3,756.8	227.7	3,826.7	3,814.8	11.92	321.051				
2,600.0	2,568.6	2,547.6	2,547.6	8.1	4.4	102.89	-3,756.8	227.7	3,830.6	3,818.2	12.43	308.130				
2,700.0	2,667.1	2,646.1	2,646.1	8.5	4.6	103.14	-3,756.8	227.7	3,834.6	3,821.6	12.94	296.250				
2,800.0	2,765.6	2,744.6	2,744.6	8.8	4.8	103.38	-3,756.8	227.7	3,838.6	3,825.1	13.46	285.291				
2,900.0	2,864.0	2,843.0	2,843.0	9.2	5.0	103.63	-3,756.8	227.7	3,842.7	3,828.8	13.97	275.151				
3,000.0	2,962.5	2,941.5	2,941.5	9.5	5.1	103.88	-3,756.8	227.7	3,846.9	3,832.4	14.48	265.742				
3,100.0	3,061.0	3,040.0	3,040.0	9.9	5.3	104.13	-3,756.8	227.7	3,851.2	3,836.2	14.99	256.990				
3,200.0	3,159.5	3,138.5	3,138.5	10.2	5.5	104.37	-3,756.8	227.7	3,855.5	3,840.0	15.49	248.828				
3,300.0	3,258.0	3,237.0	3,237.0	10.6	5.6	104.62	-3,756.8	227.7	3,859.9	3,843.9	16.00	241.200				
3,400.0	3,356.4	3,335.4	3,335.4	11.0	5.8	104.87	-3,756.8	227.7	3,864.4	3,847.9	16.51	234.054				
3,500.0	3,454.9	3,433.9	3,433.9	11.3	6.0	105.11	-3,756.8	227.7	3,869.0	3,851.9	17.02	227.349				
3,600.0	3,553.4	3,532.4	3,532.4	11.7	6.2	105.36	-3,756.8	227.7	3,873.6	3,856.1	17.52	221.044				
3,700.0	3,651.9	3,630.9	3,630.9	12.0	6.3	105.60	-3,756.8	227.7	3,878.3	3,860.3	18.03	215.106				
3,800.0	3,750.4	3,729.4	3,729.4	12.4	6.5	105.84	-3,756.8	227.7	3,883.1	3,864.5	18.53	209.503				
3,900.0	3,848.9	3,827.9	3,827.9	12.7	6.7	106.09	-3,756.8	227.7	3,887.9	3,868.9	19.04	204.210				
4,000.0	3,947.3	3,926.3	3,926.3	13.1	6.9	106.33	-3,756.8	227.7	3,892.8	3,873.3	19.54	199.200				
4,100.0	4,045.8	4,024.8	4,024.8	13.4	7.0	106.57	-3,756.8	227.7	3,897.8	3,877.8	20.04	194.453				
4,200.0	4,144.3	4,123.3	4,123.3	13.8	7.2	106.81	-3,756.8	227.7	3,902.9	3,882.3	20.55	189.948				
4,300.0	4,242.8	4,221.8	4,221.8	14.1	7.4	107.05	-3,756.8	227.7	3,908.0	3,886.9	21.05	185.669				
4,400.0	4,341.3	4,320.3	4,320.3	14.5	7.5	107.29	-3,756.8	227.7	3,913.2	3,891.6	21.55	181.598				
4,500.0	4,439.7	4,418.7	4,418.7	14.8	7.7	107.53	-3,756.8	227.7	3,918.5	3,896.4	22.05	177.722				
4,600.0	4,538.2	4,517.2	4,517.2	15.2	7.9	107.77	-3,756.8	227.7	3,923.8	3,901.2	22.55	174.027				
4,700.0	4,636.7	4,615.7	4,615.7	15.5	8.1	108.01	-3,756.8	227.7	3,929.2	3,906.2	23.05	170.500				
4,800.0	4,735.2	4,714.2	4,714.2	15.9	8.2	108.24	-3,756.8	227.7	3,934.7	3,911.1	23.54	167.132				
4,900.0	4,833.7	4,812.7	4,812.7	16.2	8.4	108.48	-3,756.8	227.7	3,940.2	3,916.2	24.04	163.911				
5,000.0	4,932.1	4,911.1	4,911.1	16.6	8.6	108.71	-3,756.8	227.7	3,945.8	3,921.3	24.53	160.829				
5,100.0	5,030.6	5,009.6	5,009.6	17.0	8.7	108.95	-3,756.8	227.7	3,951.5	3,926.5	25.03	157.876				

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Starks #1 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft			
Survey Program: O-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	5,129.1	5,108.1	5,108.1	17.3	8.9	109.18	-3,756.8	227.7	3,957.3	3,931.7	25.52	155.047				
5,300.0	5,227.6	5,206.6	5,206.6	17.7	9.1	109.42	-3,756.8	227.7	3,963.1	3,937.1	26.02	152.332				
5,400.0	5,326.3	5,305.3	5,305.3	18.0	9.3	109.73	-3,756.8	227.7	3,968.4	3,941.9	26.46	149.991				
5,500.0	5,425.6	5,404.6	5,404.6	18.2	9.4	109.97	-3,756.8	227.7	3,972.6	3,945.7	26.85	147.930				
5,600.0	5,525.2	5,504.2	5,504.2	18.4	9.6	110.15	-3,756.8	227.7	3,975.6	3,948.3	27.21	146.121				
5,700.0	5,625.1	5,604.1	5,604.1	18.5	9.8	110.25	-3,756.8	227.7	3,977.4	3,949.8	27.52	144.540				
5,800.0	5,725.0	5,704.0	5,704.0	18.6	10.0	-170.71	-3,756.8	227.7	3,978.0	3,950.2	27.78	143.214				
5,900.0	5,825.0	5,804.0	5,804.0	18.7	10.1	-170.71	-3,756.8	227.7	3,978.0	3,949.9	28.05	141.815				
6,000.0	5,925.0	5,904.0	5,904.0	18.8	10.3	-170.71	-3,756.8	227.7	3,978.0	3,949.6	28.33	140.438				
6,100.0	6,025.0	6,004.0	6,004.0	18.9	10.5	-170.71	-3,756.8	227.7	3,978.0	3,949.4	28.60	139.081				
6,200.0	6,125.0	6,104.0	6,104.0	19.0	10.7	-170.71	-3,756.8	227.7	3,978.0	3,949.1	28.88	137.745				
6,300.0	6,225.0	6,204.0	6,204.0	19.1	10.8	-170.71	-3,756.8	227.7	3,978.0	3,948.8	29.16	136.430				
6,400.0	6,325.0	6,304.0	6,304.0	19.2	11.0	-170.71	-3,756.8	227.7	3,978.0	3,948.5	29.44	135.134				
6,501.4	6,426.5	6,405.5	6,405.5	19.3	11.2	-170.71	-3,756.8	227.7	3,978.0	3,948.2	29.72	133.840				
6,550.0	6,475.0	6,454.0	6,454.0	19.4	11.3	9.44	-3,756.8	227.7	3,975.9	3,946.2	29.77	133.556				
6,600.0	6,524.6	6,503.6	6,503.6	19.4	11.4	9.56	-3,756.8	227.7	3,969.6	3,940.0	29.64	133.950				
6,650.0	6,573.4	6,552.4	6,552.4	19.4	11.4	9.77	-3,756.8	227.7	3,959.1	3,929.7	29.33	135.005				
6,700.0	6,621.1	6,600.1	6,600.1	19.4	11.5	10.07	-3,756.8	227.7	3,944.4	3,915.5	28.85	136.740				
6,750.0	6,667.3	6,646.3	6,646.3	19.5	11.6	10.48	-3,756.8	227.7	3,925.6	3,897.4	28.20	139.182				
6,800.0	6,711.7	6,690.7	6,690.7	19.5	11.7	11.02	-3,756.8	227.7	3,903.0	3,875.5	27.42	142.361				
6,850.0	6,753.9	6,732.9	6,732.9	19.5	11.8	11.71	-3,756.8	227.7	3,876.6	3,850.1	26.50	146.309				
6,900.0	6,793.7	6,772.7	6,772.7	19.5	11.8	12.59	-3,756.8	227.7	3,846.7	3,821.2	25.47	151.038				
6,950.0	6,830.6	6,809.6	6,809.6	19.6	11.9	13.71	-3,756.8	227.7	3,813.5	3,789.1	24.36	156.521				
7,000.0	6,864.5	6,843.5	6,843.5	19.7	11.9	15.16	-3,756.8	227.7	3,777.3	3,754.1	23.23	162.633				
7,050.0	6,895.0	6,874.0	6,874.0	19.8	12.0	17.05	-3,756.8	227.7	3,738.3	3,716.2	22.11	169.064				
7,100.0	6,922.0	6,901.0	6,901.0	19.9	12.0	19.58	-3,756.8	227.7	3,696.9	3,675.8	21.11	175.151				
7,150.0	6,945.1	6,924.1	6,924.1	20.0	12.1	23.05	-3,756.8	227.7	3,653.3	3,632.9	20.34	179.627				
7,200.0	6,964.4	6,943.4	6,943.4	20.2	12.1	28.01	-3,756.8	227.7	3,607.9	3,587.9	20.01	180.338				
7,250.0	6,979.5	6,958.5	6,958.5	20.5	12.1	35.40	-3,756.8	227.7	3,561.0	3,540.6	20.43	174.343				
7,300.0	6,990.5	6,969.5	6,969.5	20.7	12.2	46.91	-3,756.8	227.7	3,513.1	3,491.1	22.01	159.628				
7,350.0	6,997.1	6,976.1	6,976.1	21.0	12.2	64.86	-3,756.8	227.7	3,464.4	3,439.6	24.79	139.729				
7,400.0	6,999.4	6,978.4	6,978.4	21.4	12.2	89.26	-3,756.8	227.7	3,415.4	3,388.4	27.05	126.265				
7,406.4	6,999.4	6,978.4	6,978.4	21.4	12.2	92.57	-3,756.8	227.7	3,409.1	3,381.9	27.15	125.559				
7,500.0	6,998.6	6,977.6	6,977.6	22.1	12.2	92.50	-3,756.8	227.7	3,317.3	3,289.1	28.17	117.749				
7,600.0	6,997.7	6,976.7	6,976.7	23.0	12.2	92.42	-3,756.8	227.7	3,219.3	3,189.9	29.37	109.611				
7,700.0	6,996.9	6,975.9	6,975.9	24.0	12.2	92.35	-3,756.8	227.7	3,121.4	3,090.8	30.66	101.819				
7,800.0	6,996.0	6,975.0	6,975.0	25.0	12.2	92.27	-3,756.8	227.7	3,023.7	2,991.7	32.01	94.447				
7,900.0	6,995.1	6,974.1	6,974.1	26.2	12.2	92.19	-3,756.8	227.7	2,926.1	2,892.7	33.43	87.528				
8,000.0	6,994.2	6,973.2	6,973.2	27.4	12.2	92.12	-3,756.8	227.7	2,828.7	2,793.8	34.89	81.067				
8,100.0	6,993.4	6,972.4	6,972.4	28.6	12.2	92.04	-3,756.8	227.7	2,731.5	2,695.1	36.39	75.052				
8,200.0	6,992.5	6,971.5	6,971.5	29.9	12.2	91.96	-3,756.8	227.7	2,634.5	2,596.5	37.93	69.460				
8,300.0	6,991.6	6,970.6	6,970.6	31.3	12.2	91.89	-3,756.8	227.7	2,537.7	2,498.2	39.49	64.265				
8,400.0	6,990.7	6,969.7	6,969.7	32.7	12.2	91.81	-3,756.8	227.7	2,441.2	2,400.1	41.07	59.440				
8,500.0	6,989.9	6,968.9	6,968.9	34.1	12.2	91.73	-3,756.8	227.7	2,344.9	2,302.2	42.67	54.955				
8,600.0	6,989.0	6,968.0	6,968.0	35.6	12.2	91.66	-3,756.8	227.7	2,249.0	2,204.7	44.29	50.783				
8,700.0	6,988.1	6,967.1	6,967.1	37.0	12.2	91.58	-3,756.8	227.7	2,153.5	2,107.6	45.92	46.899				
8,800.0	6,987.3	6,966.3	6,966.3	38.5	12.2	91.50	-3,756.8	227.7	2,058.4	2,010.8	47.56	43.280				
8,900.0	6,986.4	6,965.4	6,965.4	40.1	12.2	91.42	-3,756.8	227.7	1,963.7	1,914.5	49.21	39.904				
9,000.0	6,985.5	6,964.5	6,964.5	41.6	12.2	91.35	-3,756.8	227.7	1,869.7	1,818.8	50.87	36.752				
9,100.0	6,984.6	6,963.6	6,963.6	43.2	12.2	91.27	-3,756.8	227.7	1,776.3	1,723.7	52.54	33.807				
9,200.0	6,983.8	6,962.8	6,962.8	44.7	12.2	91.19	-3,756.8	227.7	1,683.6	1,629.4	54.22	31.053				
9,300.0	6,982.9	6,961.9	6,961.9	46.3	12.2	91.12	-3,756.8	227.7	1,591.8	1,535.9	55.90	28.477				

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Starks #1 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft			
Survey Program: 0-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				
9,400.0	6,982.0	6,961.0	6,961.0	47.9	12.1	91.04	-3,756.8	227.7	1,501.1	1,443.5	57.59	26.067				
9,500.0	6,981.1	6,960.1	6,960.1	49.5	12.1	90.96	-3,756.8	227.7	1,411.6	1,352.4	59.28	23.814				
9,600.0	6,980.3	6,959.3	6,959.3	51.1	12.1	90.89	-3,756.8	227.7	1,323.7	1,262.7	60.97	21.708				
9,700.0	6,979.4	6,958.4	6,958.4	52.8	12.1	90.81	-3,756.8	227.7	1,237.5	1,174.9	62.68	19.745				
9,800.0	6,978.5	6,957.5	6,957.5	54.4	12.1	90.73	-3,756.8	227.7	1,153.6	1,089.3	64.38	17.920				
9,900.0	6,977.7	6,956.7	6,956.7	56.1	12.1	90.66	-3,756.8	227.7	1,072.5	1,006.4	66.09	16.229				
10,000.0	6,976.8	6,955.8	6,955.8	57.7	12.1	90.58	-3,756.8	227.7	994.8	927.0	67.80	14.674				
10,100.0	6,975.9	6,954.9	6,954.9	59.4	12.1	90.50	-3,756.8	227.7	921.5	851.9	69.51	13.257				
10,200.0	6,975.0	6,954.0	6,954.0	61.0	12.1	90.43	-3,756.8	227.7	853.5	782.3	71.22	11.984				
10,300.0	6,974.2	6,953.2	6,953.2	62.7	12.1	90.35	-3,756.8	227.7	792.4	719.4	72.94	10.864				
10,400.0	6,973.3	6,952.3	6,952.3	64.4	12.1	90.27	-3,756.8	227.7	739.8	665.1	74.66	9.909				
10,500.0	6,972.4	6,951.4	6,951.4	66.0	12.1	90.19	-3,756.8	227.7	697.6	621.2	76.38	9.133				
10,600.0	6,971.5	6,950.5	6,950.5	67.7	12.1	90.12	-3,756.8	227.7	667.8	589.7	78.10	8.551				
10,700.0	6,970.7	6,949.7	6,949.7	69.4	12.1	90.04	-3,756.8	227.7	652.2	572.4	79.82	8.171				
10,753.1	6,970.2	6,949.2	6,949.2	70.3	12.1	90.00	-3,756.8	227.7	650.1	569.3	80.74	8.051 CC, ES				
10,800.0	6,969.8	6,948.8	6,948.8	71.1	12.1	89.96	-3,756.8	227.7	651.7	570.2	81.55	7.992 SF				
10,900.0	6,968.9	6,947.9	6,947.9	72.8	12.1	89.89	-3,756.8	227.7	666.4	583.2	83.27	8.003				
11,000.0	6,968.1	6,947.1	6,947.1	74.5	12.1	89.81	-3,756.8	227.7	695.4	610.4	85.00	8.181				
11,100.0	6,967.2	6,946.2	6,946.2	76.1	12.1	89.73	-3,756.8	227.7	736.8	650.1	86.73	8.496				
11,200.0	6,966.3	6,945.3	6,945.3	77.8	12.1	89.66	-3,756.8	227.7	788.8	700.4	88.46	8.918				
11,300.0	6,965.4	6,944.4	6,944.4	79.5	12.1	89.58	-3,756.8	227.7	849.5	759.3	90.19	9.419				
11,400.0	6,964.6	6,943.6	6,943.6	81.2	12.1	89.50	-3,756.8	227.7	917.1	825.2	91.92	9.977				
11,500.0	6,963.7	6,942.7	6,942.7	82.9	12.1	89.43	-3,756.8	227.7	990.2	896.5	93.65	10.573				
11,600.0	6,962.8	6,941.8	6,941.8	84.7	12.1	89.35	-3,756.8	227.7	1,067.6	972.2	95.38	11.193				
11,700.0	6,961.9	6,940.9	6,940.9	86.4	12.1	89.27	-3,756.8	227.7	1,148.5	1,051.4	97.11	11.827				
11,800.0	6,961.1	6,940.1	6,940.1	88.1	12.1	89.19	-3,756.8	227.7	1,232.3	1,133.4	98.85	12.467				
11,900.0	6,960.2	6,939.2	6,939.2	89.8	12.1	89.12	-3,756.8	227.7	1,318.3	1,217.7	100.58	13.107				
12,000.0	6,959.3	6,938.3	6,938.3	91.5	12.1	89.04	-3,756.8	227.7	1,406.1	1,303.8	102.31	13.743				
12,100.0	6,958.5	6,937.5	6,937.5	93.2	12.1	88.96	-3,756.8	227.7	1,495.5	1,391.5	104.05	14.373				
12,200.0	6,957.6	6,936.6	6,936.6	94.9	12.1	88.89	-3,756.8	227.7	1,586.2	1,480.4	105.78	14.995				
12,300.0	6,956.7	6,935.7	6,935.7	96.6	12.1	88.81	-3,756.8	227.7	1,677.9	1,570.4	107.52	15.606				
12,400.0	6,955.8	6,934.8	6,934.8	98.4	12.1	88.73	-3,756.8	227.7	1,770.5	1,661.2	109.25	16.206				
12,500.0	6,955.0	6,934.0	6,934.0	100.1	12.1	88.66	-3,756.8	227.7	1,863.9	1,752.9	110.99	16.794				
12,600.0	6,954.1	6,933.1	6,933.1	101.8	12.1	88.58	-3,756.8	227.7	1,957.9	1,845.2	112.72	17.369				
12,700.0	6,953.2	6,932.2	6,932.2	103.5	12.1	88.50	-3,756.8	227.7	2,052.5	1,938.0	114.46	17.932				
12,800.0	6,952.3	6,931.3	6,931.3	105.3	12.1	88.43	-3,756.8	227.7	2,147.6	2,031.4	116.19	18.483				
12,900.0	6,951.5	6,930.5	6,930.5	107.0	12.1	88.35	-3,756.8	227.7	2,243.1	2,125.2	117.93	19.021				
13,000.0	6,950.6	6,929.6	6,929.6	108.7	12.1	88.27	-3,756.8	227.7	2,339.0	2,219.3	119.66	19.546				
13,100.0	6,949.7	6,928.7	6,928.7	110.4	12.1	88.20	-3,756.8	227.7	2,435.2	2,313.8	121.40	20.059				
13,200.0	6,948.9	6,927.9	6,927.9	112.2	12.1	88.12	-3,756.8	227.7	2,531.7	2,408.6	123.14	20.560				
13,300.0	6,948.0	6,927.0	6,927.0	113.9	12.1	88.04	-3,756.8	227.7	2,628.5	2,503.6	124.87	21.049				
13,400.0	6,947.1	6,926.1	6,926.1	115.6	12.1	87.97	-3,756.8	227.7	2,725.5	2,598.9	126.61	21.527				
13,500.0	6,946.2	6,925.2	6,925.2	117.3	12.1	87.89	-3,756.8	227.7	2,822.7	2,694.3	128.34	21.993				
13,600.0	6,945.4	6,924.4	6,924.4	119.1	12.1	87.81	-3,756.8	227.7	2,920.1	2,790.0	130.08	22.448				
13,700.0	6,944.5	6,923.5	6,923.5	120.8	12.1	87.73	-3,756.8	227.7	3,017.6	2,885.8	131.81	22.893				
13,800.0	6,943.6	6,922.6	6,922.6	122.5	12.1	87.66	-3,756.8	227.7	3,115.4	2,981.8	133.55	23.327				
13,900.0	6,942.7	6,921.7	6,921.7	124.3	12.1	87.58	-3,756.8	227.7	3,213.2	3,077.9	135.29	23.752				
14,000.0	6,941.9	6,920.9	6,920.9	126.0	12.1	87.50	-3,756.8	227.7	3,311.2	3,174.2	137.02	24.166				
14,100.0	6,941.0	6,920.0	6,920.0	127.7	12.1	87.43	-3,756.8	227.7	3,409.3	3,270.6	138.75	24.571				
14,200.0	6,940.1	6,919.1	6,919.1	129.5	12.1	87.35	-3,756.8	227.7	3,507.5	3,367.0	140.49	24.967				
14,272.4	6,939.5	6,918.5	6,918.5	130.7	12.1	87.30	-3,756.8	227.7	3,578.7	3,437.0	141.74	25.248				

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Starks 23-30 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft			
Survey Program: 0-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)	Centre +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	158.55	-2,922.2	1,147.9	3,139.7							
100.0	100.0	80.0	80.0	0.2	0.1	158.55	-2,922.2	1,147.9	3,139.6	3,139.3	0.29	N/A				
200.0	200.0	180.0	180.0	0.3	0.3	158.55	-2,922.2	1,147.9	3,139.6	3,139.0	0.64	4,901.541				
300.0	300.0	280.0	280.0	0.5	0.5	79.59	-2,922.2	1,147.9	3,139.3	3,138.3	0.99	3,161.017				
400.0	399.8	379.8	379.8	0.7	0.7	79.70	-2,922.2	1,147.9	3,138.4	3,137.0	1.36	2,304.386				
500.0	499.5	479.5	479.5	0.9	0.8	79.89	-2,922.2	1,147.9	3,136.8	3,135.0	1.76	1,782.320				
600.0	598.7	578.7	578.7	1.2	1.0	80.15	-2,922.2	1,147.9	3,134.7	3,132.5	2.20	1,426.062				
700.0	697.5	677.5	677.5	1.5	1.2	80.48	-2,922.2	1,147.9	3,132.0	3,129.3	2.68	1,166.689				
800.0	795.9	775.9	775.9	1.8	1.4	80.79	-2,922.2	1,147.9	3,129.1	3,126.0	3.18	982.736				
900.0	894.4	874.4	874.4	2.2	1.5	81.10	-2,922.2	1,147.9	3,126.4	3,122.7	3.69	846.958				
1,000.0	992.9	972.9	972.9	2.5	1.7	81.41	-2,922.2	1,147.9	3,123.7	3,119.5	4.20	743.173				
1,100.0	1,091.4	1,071.4	1,071.4	2.9	1.9	81.72	-2,922.2	1,147.9	3,121.1	3,116.4	4.72	661.500				
1,200.0	1,189.9	1,169.9	1,169.9	3.2	2.0	82.03	-2,922.2	1,147.9	3,118.6	3,113.4	5.24	595.664				
1,300.0	1,288.4	1,268.4	1,268.4	3.6	2.2	82.34	-2,922.2	1,147.9	3,116.2	3,110.5	5.75	541.527				
1,400.0	1,386.8	1,366.8	1,366.8	3.9	2.4	82.65	-2,922.2	1,147.9	3,113.9	3,107.6	6.27	496.259				
1,500.0	1,485.3	1,465.3	1,465.3	4.3	2.6	82.97	-2,922.2	1,147.9	3,111.7	3,104.9	6.80	457.867				
1,600.0	1,583.8	1,563.8	1,563.8	4.6	2.7	83.28	-2,922.2	1,147.9	3,109.6	3,102.3	7.32	424.909				
1,700.0	1,682.3	1,662.3	1,662.3	5.0	2.9	83.59	-2,922.2	1,147.9	3,107.6	3,099.7	7.84	396.317				
1,800.0	1,780.8	1,760.8	1,760.8	5.3	3.1	83.91	-2,922.2	1,147.9	3,105.7	3,097.3	8.36	371.285				
1,900.0	1,879.2	1,859.2	1,859.2	5.7	3.2	84.22	-2,922.2	1,147.9	3,103.8	3,095.0	8.89	349.193				
2,000.0	1,977.7	1,957.7	1,957.7	6.0	3.4	84.53	-2,922.2	1,147.9	3,102.1	3,092.7	9.41	329.556				
2,100.0	2,076.2	2,056.2	2,056.2	6.4	3.6	84.85	-2,922.2	1,147.9	3,100.5	3,090.5	9.94	311.989				
2,200.0	2,174.7	2,154.7	2,154.7	6.7	3.8	85.16	-2,922.2	1,147.9	3,098.9	3,088.5	10.46	296.185				
2,300.0	2,273.2	2,253.2	2,253.2	7.1	3.9	85.48	-2,922.2	1,147.9	3,097.5	3,086.5	10.99	281.894				
2,400.0	2,371.6	2,351.6	2,351.6	7.4	4.1	85.79	-2,922.2	1,147.9	3,096.2	3,084.7	11.51	268.910				
2,500.0	2,470.1	2,450.1	2,450.1	7.8	4.3	86.11	-2,922.2	1,147.9	3,094.9	3,082.9	12.04	257.065				
2,600.0	2,568.6	2,548.6	2,548.6	8.1	4.4	86.43	-2,922.2	1,147.9	3,093.8	3,081.2	12.57	246.215				
2,700.0	2,667.1	2,647.1	2,647.1	8.5	4.6	86.74	-2,922.2	1,147.9	3,092.7	3,079.6	13.09	236.243				
2,800.0	2,765.6	2,745.6	2,745.6	8.8	4.8	87.06	-2,922.2	1,147.9	3,091.8	3,078.2	13.62	227.048				
2,900.0	2,864.0	2,844.0	2,844.0	9.2	5.0	87.38	-2,922.2	1,147.9	3,090.9	3,076.8	14.14	218.542				
3,000.0	2,962.5	2,942.5	2,942.5	9.5	5.1	87.69	-2,922.2	1,147.9	3,090.2	3,075.5	14.67	210.654				
3,100.0	3,061.0	3,041.0	3,041.0	9.9	5.3	88.01	-2,922.2	1,147.9	3,089.5	3,074.3	15.20	203.318				
3,200.0	3,159.5	3,139.5	3,139.5	10.2	5.5	88.33	-2,922.2	1,147.9	3,088.9	3,073.2	15.72	196.481				
3,300.0	3,258.0	3,238.0	3,238.0	10.6	5.7	88.64	-2,922.2	1,147.9	3,088.5	3,072.2	16.25	190.093				
3,400.0	3,356.4	3,336.4	3,336.4	11.0	5.8	88.96	-2,922.2	1,147.9	3,088.1	3,071.3	16.77	184.113				
3,500.0	3,454.9	3,434.9	3,434.9	11.3	6.0	89.28	-2,922.2	1,147.9	3,087.8	3,070.5	17.30	178.504				
3,600.0	3,553.4	3,533.4	3,533.4	11.7	6.2	89.60	-2,922.2	1,147.9	3,087.7	3,069.8	17.82	173.232				
3,700.0	3,651.9	3,631.9	3,631.9	12.0	6.3	89.91	-2,922.2	1,147.9	3,087.6	3,069.2	18.35	168.270				
3,727.6	3,679.0	3,659.0	3,659.0	12.1	6.4	90.00	-2,922.2	1,147.9	3,087.6	3,069.1	18.49	166.953				
3,800.0	3,750.4	3,730.4	3,730.4	12.4	6.5	90.23	-2,922.2	1,147.9	3,087.6	3,068.7	18.87	163.591				
3,900.0	3,848.9	3,828.9	3,828.9	12.7	6.7	90.55	-2,922.2	1,147.9	3,087.7	3,068.3	19.40	159.173				
4,000.0	3,947.3	3,927.3	3,927.3	13.1	6.9	90.86	-2,922.2	1,147.9	3,087.9	3,068.0	19.92	154.994				
4,100.0	4,045.8	4,025.8	4,025.8	13.4	7.0	91.18	-2,922.2	1,147.9	3,088.3	3,067.8	20.45	151.037				
4,200.0	4,144.3	4,124.3	4,124.3	13.8	7.2	91.50	-2,922.2	1,147.9	3,088.7	3,067.7	20.97	147.285				
4,300.0	4,242.8	4,222.8	4,222.8	14.1	7.4	91.82	-2,922.2	1,147.9	3,089.2	3,067.7	21.49	143.722				
4,400.0	4,341.3	4,321.3	4,321.3	14.5	7.5	92.13	-2,922.2	1,147.9	3,089.8	3,067.8	22.02	140.336				
4,500.0	4,439.7	4,419.7	4,419.7	14.8	7.7	92.45	-2,922.2	1,147.9	3,090.5	3,067.9	22.54	137.114				
4,600.0	4,538.2	4,518.2	4,518.2	15.2	7.9	92.77	-2,922.2	1,147.9	3,091.3	3,068.2	23.06	134.044				
4,700.0	4,636.7	4,616.7	4,616.7	15.5	8.1	93.08	-2,922.2	1,147.9	3,092.2	3,068.6	23.58	131.118				
4,800.0	4,735.2	4,715.2	4,715.2	15.9	8.2	93.40	-2,922.2	1,147.9	3,093.2	3,069.1	24.10	128.324				
4,900.0	4,833.7	4,813.7	4,813.7	16.2	8.4	93.72	-2,922.2	1,147.9	3,094.3	3,069.7	24.63	125.656				
5,000.0	4,932.1	4,912.1	4,912.1	16.6	8.6	94.03	-2,922.2	1,147.9	3,095.5	3,070.3	25.15	123.104				

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Starks 23-30 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,030.6	5,010.6	5,010.6	17.0	8.7	94.35	-2,922.2	1,147.9	3,096.8	3,071.1	25.66	120.662		
5,200.0	5,129.1	5,109.1	5,109.1	17.3	8.9	94.66	-2,922.2	1,147.9	3,098.1	3,072.0	26.18	118.324		
5,300.0	5,227.6	5,207.6	5,207.6	17.7	9.1	94.98	-2,922.2	1,147.9	3,099.6	3,072.9	26.70	116.082		
5,400.0	5,326.3	5,306.3	5,306.3	18.0	9.3	95.29	-2,922.2	1,147.9	3,101.0	3,073.9	27.17	114.145		
5,500.0	5,425.6	5,405.6	5,405.6	18.2	9.4	95.54	-2,922.2	1,147.9	3,102.2	3,074.6	27.58	112.470		
5,600.0	5,525.2	5,505.2	5,505.2	18.4	9.6	95.71	-2,922.2	1,147.9	3,103.1	3,075.1	27.95	111.032		
5,700.0	5,625.1	5,605.1	5,605.1	18.5	9.8	95.82	-2,922.2	1,147.9	3,103.6	3,075.3	28.26	109.810		
5,800.0	5,725.0	5,705.0	5,705.0	18.6	10.0	174.85	-2,922.2	1,147.9	3,103.8	3,075.2	28.53	108.796		
5,900.0	5,825.0	5,805.0	5,805.0	18.7	10.1	174.85	-2,922.2	1,147.9	3,103.8	3,075.0	28.80	107.776		
6,000.0	5,925.0	5,905.0	5,905.0	18.8	10.3	174.85	-2,922.2	1,147.9	3,103.8	3,074.7	29.07	106.771		
6,100.0	6,025.0	6,005.0	6,005.0	18.9	10.5	174.85	-2,922.2	1,147.9	3,103.8	3,074.4	29.34	105.780		
6,200.0	6,125.0	6,105.0	6,105.0	19.0	10.7	174.85	-2,922.2	1,147.9	3,103.8	3,074.1	29.62	104.803		
6,300.0	6,225.0	6,205.0	6,205.0	19.1	10.8	174.85	-2,922.2	1,147.9	3,103.8	3,073.9	29.89	103.841		
6,400.0	6,325.0	6,305.0	6,305.0	19.2	11.0	174.85	-2,922.2	1,147.9	3,103.8	3,073.6	30.17	102.892		
6,501.4	6,426.5	6,406.5	6,406.5	19.3	11.2	174.85	-2,922.2	1,147.9	3,103.8	3,073.3	30.45	101.944		
6,550.0	6,475.0	6,455.0	6,455.0	19.4	11.3	-5.05	-2,922.2	1,147.9	3,101.7	3,071.2	30.49	101.741		
6,600.0	6,524.6	6,504.6	6,504.6	19.4	11.4	-5.11	-2,922.2	1,147.9	3,095.3	3,065.0	30.34	102.024		
6,650.0	6,573.4	6,553.4	6,553.4	19.4	11.4	-5.23	-2,922.2	1,147.9	3,084.7	3,054.7	30.01	102.804		
6,700.0	6,621.1	6,601.1	6,601.1	19.4	11.5	-5.40	-2,922.2	1,147.9	3,069.8	3,040.3	29.49	104.101		
6,750.0	6,667.3	6,647.3	6,647.3	19.5	11.6	-5.63	-2,922.2	1,147.9	3,050.9	3,022.1	28.80	105.946		
6,800.0	6,711.7	6,691.7	6,691.7	19.5	11.7	-5.94	-2,922.2	1,147.9	3,028.0	3,000.1	27.94	108.382		
6,850.0	6,753.9	6,733.9	6,733.9	19.5	11.8	-6.33	-2,922.2	1,147.9	3,001.4	2,974.4	26.93	111.461		
6,900.0	6,793.7	6,773.7	6,773.7	19.5	11.8	-6.83	-2,922.2	1,147.9	2,971.2	2,945.4	25.78	115.245		
6,950.0	6,830.6	6,810.6	6,810.6	19.6	11.9	-7.47	-2,922.2	1,147.9	2,937.6	2,913.1	24.52	119.792		
7,000.0	6,864.5	6,844.5	6,844.5	19.7	11.9	-8.31	-2,922.2	1,147.9	2,901.0	2,877.8	23.18	125.144		
7,050.0	6,895.0	6,875.0	6,875.0	19.8	12.0	-9.42	-2,922.2	1,147.9	2,861.6	2,839.8	21.80	131.273		
7,100.0	6,922.0	6,902.0	6,902.0	19.9	12.0	-10.92	-2,922.2	1,147.9	2,819.7	2,799.3	20.44	137.985		
7,150.0	6,945.1	6,925.1	6,925.1	20.0	12.1	-13.04	-2,922.2	1,147.9	2,775.7	2,756.5	19.18	144.687		
7,200.0	6,964.4	6,944.4	6,944.4	20.2	12.1	-16.21	-2,922.2	1,147.9	2,729.8	2,711.5	18.21	149.882		
7,250.0	6,979.5	6,959.5	6,959.5	20.5	12.1	-21.31	-2,922.2	1,147.9	2,682.4	2,664.5	17.86	150.198		
7,300.0	6,990.5	6,970.5	6,970.5	20.7	12.2	-30.51	-2,922.2	1,147.9	2,633.8	2,615.0	18.87	139.543		
7,350.0	6,997.1	6,977.1	6,977.1	21.0	12.2	-49.72	-2,922.2	1,147.9	2,584.6	2,561.9	22.69	113.890		
7,400.0	6,999.4	6,979.4	6,979.4	21.4	12.2	-88.67	-2,922.2	1,147.9	2,534.9	2,507.9	27.08	93.615		
7,406.4	6,999.4	6,979.4	6,979.4	21.4	12.2	-94.61	-2,922.2	1,147.9	2,528.5	2,501.5	27.00	93.667		
7,500.0	6,998.6	6,978.6	6,978.6	22.1	12.2	-94.44	-2,922.2	1,147.9	2,435.5	2,407.5	28.03	86.901		
7,600.0	6,997.7	6,977.7	6,977.7	23.0	12.2	-94.26	-2,922.2	1,147.9	2,336.2	2,307.0	29.23	79.911		
7,700.0	6,996.9	6,976.9	6,976.9	24.0	12.2	-94.08	-2,922.2	1,147.9	2,236.9	2,206.4	30.53	73.266		
7,800.0	6,996.0	6,976.0	6,976.0	25.0	12.2	-93.89	-2,922.2	1,147.9	2,137.7	2,105.8	31.90	67.015		
7,900.0	6,995.1	6,975.1	6,975.1	26.2	12.2	-93.71	-2,922.2	1,147.9	2,038.5	2,005.2	33.32	61.174		
8,000.0	6,994.2	6,974.2	6,974.2	27.4	12.2	-93.53	-2,922.2	1,147.9	1,939.5	1,904.7	34.79	55.741		
8,100.0	6,993.4	6,973.4	6,973.4	28.6	12.2	-93.34	-2,922.2	1,147.9	1,840.5	1,804.2	36.30	50.697		
8,200.0	6,992.5	6,972.5	6,972.5	29.9	12.2	-93.16	-2,922.2	1,147.9	1,741.7	1,703.8	37.85	46.021		
8,300.0	6,991.6	6,971.6	6,971.6	31.3	12.2	-92.98	-2,922.2	1,147.9	1,643.0	1,603.6	39.41	41.687		
8,400.0	6,990.7	6,970.7	6,970.7	32.7	12.2	-92.79	-2,922.2	1,147.9	1,544.5	1,503.5	41.00	37.668		
8,500.0	6,989.9	6,969.9	6,969.9	34.1	12.2	-92.61	-2,922.2	1,147.9	1,446.1	1,403.5	42.61	33.940		
8,600.0	6,989.0	6,969.0	6,969.0	35.6	12.2	-92.43	-2,922.2	1,147.9	1,348.1	1,303.8	44.23	30.477		
8,700.0	6,988.1	6,968.1	6,968.1	37.0	12.2	-92.24	-2,922.2	1,147.9	1,250.3	1,204.4	45.87	27.258		
8,800.0	6,987.3	6,967.3	6,967.3	38.5	12.2	-92.06	-2,922.2	1,147.9	1,152.9	1,105.4	47.52	24.262		
8,900.0	6,986.4	6,966.4	6,966.4	40.1	12.2	-91.88	-2,922.2	1,147.9	1,056.0	1,006.8	49.18	21.474		
9,000.0	6,985.5	6,965.5	6,965.5	41.6	12.2	-91.69	-2,922.2	1,147.9	959.7	908.9	50.84	18.876		
9,100.0	6,984.6	6,964.6	6,964.6	43.2	12.2	-91.51	-2,922.2	1,147.9	864.3	811.7	52.52	16.457		
9,200.0	6,983.8	6,963.8	6,963.8	44.7	12.2	-91.32	-2,922.2	1,147.9	770.0	715.8	54.20	14.207		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Starks 23-30 (Existing) - Existing - Existing												Offset Site Error:	0.0 ft
Survey Program: O-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor	
9,300.0	6,982.9	6,962.9	6,962.9	46.3	12.2	-91.14	-2,922.2	1,147.9	677.4	621.5	55.88	12.121	
9,400.0	6,982.0	6,962.0	6,962.0	47.9	12.2	-90.96	-2,922.2	1,147.9	587.1	529.6	57.57	10.198	
9,500.0	6,981.1	6,961.1	6,961.1	49.5	12.1	-90.77	-2,922.2	1,147.9	500.7	441.4	59.27	8.447	
9,600.0	6,980.3	6,960.3	6,960.3	51.1	12.1	-90.59	-2,922.2	1,147.9	420.2	359.3	60.97	6.892	
9,700.0	6,979.4	6,959.4	6,959.4	52.8	12.1	-90.41	-2,922.2	1,147.9	350.0	287.3	62.67	5.585	
9,800.0	6,978.5	6,958.5	6,958.5	54.4	12.1	-90.22	-2,922.2	1,147.9	297.4	233.0	64.38	4.619	
9,900.0	6,977.7	6,957.7	6,957.7	56.1	12.1	-90.04	-2,922.2	1,147.9	272.7	206.6	66.09	4.126	
9,920.4	6,977.5	6,957.5	6,957.5	56.4	12.1	-90.00	-2,922.2	1,147.9	271.9	205.5	66.44	4.093 CC, ES, SF	
10,000.0	6,976.8	6,956.8	6,956.8	57.7	12.1	-89.85	-2,922.2	1,147.9	283.3	215.5	67.80	4.179	
10,100.0	6,975.9	6,955.9	6,955.9	59.4	12.1	-89.67	-2,922.2	1,147.9	325.9	256.4	69.51	4.688	
10,200.0	6,975.0	6,955.0	6,955.0	61.0	12.1	-89.49	-2,922.2	1,147.9	390.0	318.8	71.22	5.476	
10,300.0	6,974.2	6,954.2	6,954.2	62.7	12.1	-89.30	-2,922.2	1,147.9	466.9	394.0	72.94	6.402	
10,400.0	6,973.3	6,953.3	6,953.3	64.4	12.1	-89.12	-2,922.2	1,147.9	551.3	476.7	74.66	7.385	
10,500.0	6,972.4	6,952.4	6,952.4	66.0	12.1	-88.93	-2,922.2	1,147.9	640.2	563.8	76.37	8.382	
10,600.0	6,971.5	6,951.5	6,951.5	67.7	12.1	-88.75	-2,922.2	1,147.9	732.0	653.9	78.09	9.373	
10,700.0	6,970.7	6,950.7	6,950.7	69.4	12.1	-88.57	-2,922.2	1,147.9	825.6	745.8	79.81	10.345	
10,800.0	6,969.8	6,949.8	6,949.8	71.1	12.1	-88.38	-2,922.2	1,147.9	920.6	839.1	81.53	11.292	
10,900.0	6,968.9	6,948.9	6,948.9	72.8	12.1	-88.20	-2,922.2	1,147.9	1,016.6	933.4	83.25	12.212	
11,000.0	6,968.1	6,948.1	6,948.1	74.5	12.1	-88.02	-2,922.2	1,147.9	1,113.3	1,028.3	84.97	13.102	
11,100.0	6,967.2	6,947.2	6,947.2	76.1	12.1	-87.83	-2,922.2	1,147.9	1,210.5	1,123.8	86.69	13.964	
11,200.0	6,966.3	6,946.3	6,946.3	77.8	12.1	-87.65	-2,922.2	1,147.9	1,308.1	1,219.7	88.41	14.796	
11,300.0	6,965.4	6,945.4	6,945.4	79.5	12.1	-87.47	-2,922.2	1,147.9	1,406.1	1,316.0	90.13	15.601	
11,400.0	6,964.6	6,944.6	6,944.6	81.2	12.1	-87.28	-2,922.2	1,147.9	1,504.3	1,412.5	91.85	16.379	
11,500.0	6,963.7	6,943.7	6,943.7	82.9	12.1	-87.10	-2,922.2	1,147.9	1,602.8	1,509.2	93.56	17.130	
11,600.0	6,962.8	6,942.8	6,942.8	84.7	12.1	-86.91	-2,922.2	1,147.9	1,701.4	1,606.1	95.28	17.857	
11,700.0	6,961.9	6,941.9	6,941.9	86.4	12.1	-86.73	-2,922.2	1,147.9	1,800.2	1,703.2	97.00	18.559	
11,800.0	6,961.1	6,941.1	6,941.1	88.1	12.1	-86.55	-2,922.2	1,147.9	1,899.1	1,800.4	98.71	19.238	
11,900.0	6,960.2	6,940.2	6,940.2	89.8	12.1	-86.37	-2,922.2	1,147.9	1,998.1	1,897.7	100.43	19.896	
12,000.0	6,959.3	6,939.3	6,939.3	91.5	12.1	-86.18	-2,922.2	1,147.9	2,097.2	1,995.1	102.14	20.532	
12,100.0	6,958.5	6,938.5	6,938.5	93.2	12.1	-86.00	-2,922.2	1,147.9	2,196.4	2,092.6	103.86	21.148	
12,200.0	6,957.6	6,937.6	6,937.6	94.9	12.1	-85.82	-2,922.2	1,147.9	2,295.7	2,190.1	105.57	21.746	
12,300.0	6,956.7	6,936.7	6,936.7	96.6	12.1	-85.63	-2,922.2	1,147.9	2,395.0	2,287.7	107.28	22.325	
12,400.0	6,955.8	6,935.8	6,935.8	98.4	12.1	-85.45	-2,922.2	1,147.9	2,494.4	2,385.4	108.99	22.886	
12,500.0	6,955.0	6,935.0	6,935.0	100.1	12.1	-85.27	-2,922.2	1,147.9	2,593.8	2,483.1	110.70	23.432	
12,600.0	6,954.1	6,934.1	6,934.1	101.8	12.1	-85.09	-2,922.2	1,147.9	2,693.3	2,580.9	112.40	23.961	
12,700.0	6,953.2	6,933.2	6,933.2	103.5	12.1	-84.90	-2,922.2	1,147.9	2,792.8	2,678.7	114.11	24.475	
12,800.0	6,952.3	6,932.3	6,932.3	105.3	12.1	-84.72	-2,922.2	1,147.9	2,892.3	2,776.5	115.81	24.974	
12,900.0	6,951.5	6,931.5	6,931.5	107.0	12.1	-84.54	-2,922.2	1,147.9	2,991.9	2,874.4	117.51	25.460	
13,000.0	6,950.6	6,930.6	6,930.6	108.7	12.1	-84.36	-2,922.2	1,147.9	3,091.5	2,972.3	119.21	25.932	
13,100.0	6,949.7	6,929.7	6,929.7	110.4	12.1	-84.17	-2,922.2	1,147.9	3,191.1	3,070.2	120.91	26.392	
13,200.0	6,948.9	6,928.9	6,928.9	112.2	12.1	-83.99	-2,922.2	1,147.9	3,290.7	3,168.1	122.61	26.840	
13,300.0	6,948.0	6,928.0	6,928.0	113.9	12.1	-83.81	-2,922.2	1,147.9	3,390.4	3,266.1	124.30	27.276	
13,400.0	6,947.1	6,927.1	6,927.1	115.6	12.1	-83.63	-2,922.2	1,147.9	3,490.1	3,364.1	125.99	27.701	
13,500.0	6,946.2	6,926.2	6,926.2	117.3	12.1	-83.45	-2,922.2	1,147.9	3,589.8	3,462.1	127.68	28.115	
13,600.0	6,945.4	6,925.4	6,925.4	119.1	12.1	-83.27	-2,922.2	1,147.9	3,689.5	3,560.1	129.37	28.519	
13,700.0	6,944.5	6,924.5	6,924.5	120.8	12.1	-83.08	-2,922.2	1,147.9	3,789.2	3,658.2	131.06	28.913	
13,800.0	6,943.6	6,923.6	6,923.6	122.5	12.1	-82.90	-2,922.2	1,147.9	3,889.0	3,756.2	132.74	29.298	
13,900.0	6,942.7	6,922.7	6,922.7	124.3	12.1	-82.72	-2,922.2	1,147.9	3,988.7	3,854.3	134.42	29.673	
14,000.0	6,941.9	6,921.9	6,921.9	126.0	12.1	-82.54	-2,922.2	1,147.9	4,088.5	3,952.4	136.10	30.040	
14,100.0	6,941.0	6,921.0	6,921.0	127.7	12.1	-82.36	-2,922.2	1,147.9	4,188.3	4,050.5	137.78	30.399	
14,200.0	6,940.1	6,920.1	6,920.1	129.5	12.1	-82.18	-2,922.2	1,147.9	4,288.1	4,148.6	139.45	30.750	
14,272.4	6,939.5	6,919.5	6,919.5	130.7	12.1	-82.05	-2,922.2	1,147.9	4,360.3	4,219.7	140.66	30.999	

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Starks 24-30 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 61-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)	Centre +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	158.79	-2,937.2	1,140.1	3,150.7					
100.0	100.0	45.9	45.9	0.2	0.1	158.79	-2,937.4	1,140.1	3,151.1	3,150.9	0.23	N/A		
200.0	200.0	117.0	117.0	0.3	0.2	158.79	-2,938.5	1,140.2	3,152.6	3,152.1	0.53	5,908.216		
300.0	300.0	175.0	175.0	0.5	0.3	79.78	-2,940.2	1,140.0	3,155.0	3,154.2	0.81	3,888.907		
400.0	399.8	220.7	220.6	0.7	0.4	79.77	-2,942.3	1,139.9	3,158.2	3,157.1	1.09	2,905.862		
500.0	499.5	274.7	274.5	0.9	0.5	79.80	-2,945.7	1,139.7	3,162.5	3,161.1	1.41	2,245.899		
600.0	598.7	322.0	321.6	1.2	0.6	79.83	-2,949.6	1,139.4	3,167.7	3,165.9	1.76	1,800.048		
700.0	697.5	363.5	363.0	1.5	0.7	79.86	-2,953.7	1,138.9	3,174.0	3,171.8	2.15	1,475.177		
800.0	795.9	413.0	412.1	1.8	0.8	80.06	-2,959.8	1,138.1	3,181.9	3,179.3	2.58	1,235.646		
900.0	894.4	456.8	455.5	2.2	1.0	80.24	-2,965.8	1,137.5	3,191.4	3,188.4	3.00	1,065.511		
1,000.0	992.9	503.0	501.1	2.5	1.1	80.43	-2,972.7	1,137.0	3,202.6	3,199.2	3.43	934.758		
1,100.0	1,091.4	550.8	548.3	2.9	1.3	80.64	-2,980.7	1,136.6	3,215.4	3,211.6	3.86	832.115		
1,200.0	1,189.9	594.0	590.7	3.2	1.4	80.82	-2,988.5	1,136.5	3,230.0	3,225.7	4.29	752.053		
1,300.0	1,288.4	625.0	621.1	3.6	1.5	80.95	-2,994.6	1,136.6	3,246.4	3,241.7	4.70	690.352		
1,400.0	1,386.8	669.7	664.8	3.9	1.7	81.13	-3,004.1	1,137.0	3,264.7	3,259.6	5.14	635.319		
1,500.0	1,485.3	718.0	711.8	4.3	1.9	81.33	-3,015.2	1,137.6	3,284.7	3,279.1	5.58	588.219		
1,600.0	1,583.8	750.0	742.8	4.6	2.0	81.47	-3,023.1	1,138.0	3,306.4	3,300.4	6.00	551.238		
1,700.0	1,682.3	801.4	792.4	5.0	2.3	81.68	-3,036.6	1,138.8	3,329.9	3,323.4	6.45	515.960		
1,800.0	1,780.8	867.5	856.0	5.3	2.6	81.97	-3,054.7	1,139.6	3,354.4	3,347.5	6.94	483.189		
1,900.0	1,879.2	942.5	927.9	5.7	3.0	82.29	-3,075.7	1,140.4	3,379.8	3,372.3	7.45	453.537		
2,000.0	1,977.7	1,038.9	1,020.6	6.0	3.5	82.71	-3,102.6	1,140.7	3,405.0	3,397.0	8.01	424.944		
2,100.0	2,076.2	1,091.0	1,070.4	6.4	3.8	82.94	-3,117.8	1,140.7	3,431.5	3,423.0	8.48	404.739		
2,200.0	2,174.7	1,148.7	1,125.3	6.7	4.1	83.19	-3,135.2	1,141.1	3,459.2	3,450.2	8.95	386.598		
2,300.0	2,273.2	1,241.3	1,213.6	7.1	4.6	83.57	-3,163.4	1,143.0	3,487.7	3,478.2	9.48	367.761		
2,400.0	2,371.6	1,392.0	1,357.6	7.4	5.4	84.16	-3,207.4	1,146.3	3,515.2	3,505.1	10.13	347.158		
2,500.0	2,470.1	1,471.0	1,433.2	7.8	5.8	84.46	-3,230.4	1,147.9	3,542.7	3,532.1	10.63	333.183		
2,600.0	2,568.6	1,550.9	1,509.5	8.1	6.2	84.77	-3,254.0	1,149.3	3,570.7	3,559.6	11.14	320.647		
2,700.0	2,667.1	1,614.2	1,569.9	8.5	6.6	85.01	-3,272.8	1,150.7	3,599.1	3,587.5	11.61	310.064		
2,800.0	2,765.6	1,729.7	1,679.9	8.8	7.2	85.45	-3,308.0	1,152.7	3,628.4	3,616.2	12.18	297.857		
2,900.0	2,864.0	1,910.4	1,852.8	9.2	8.2	86.14	-3,360.4	1,154.3	3,656.5	3,643.6	12.87	283.998		
3,000.0	2,962.5	1,991.5	1,930.8	9.5	8.6	86.45	-3,383.0	1,154.0	3,683.0	3,669.7	13.39	275.155		
3,100.0	3,061.0	2,074.0	2,009.8	9.9	9.0	86.78	-3,406.5	1,153.2	3,710.2	3,696.3	13.90	266.919		
3,200.0	3,159.5	2,225.9	2,155.9	10.2	9.8	87.37	-3,448.1	1,151.4	3,736.2	3,721.7	14.54	256.905		
3,300.0	3,258.0	2,303.5	2,230.5	10.6	10.2	87.67	-3,469.3	1,150.0	3,762.5	3,747.4	15.04	250.116		
3,400.0	3,356.4	2,431.4	2,353.7	11.0	10.8	88.15	-3,503.7	1,148.6	3,788.6	3,772.9	15.63	242.410		
3,500.0	3,454.9	2,519.4	2,438.6	11.3	11.3	88.47	-3,526.9	1,147.8	3,814.3	3,798.2	16.14	236.361		
3,600.0	3,553.4	2,583.2	2,500.0	11.7	11.6	88.70	-3,544.1	1,147.8	3,840.8	3,824.2	16.60	231.399		
3,700.0	3,651.9	2,650.9	2,565.2	12.0	11.9	88.92	-3,562.7	1,148.3	3,868.2	3,851.1	17.06	226.700		
3,800.0	3,750.4	2,732.9	2,643.9	12.4	12.4	89.19	-3,585.5	1,149.3	3,896.1	3,878.5	17.55	221.996		
3,900.0	3,848.9	2,829.8	2,736.9	12.7	12.9	89.49	-3,612.6	1,150.9	3,924.2	3,906.1	18.06	217.336		
4,000.0	3,947.3	2,922.4	2,825.8	13.1	13.3	89.77	-3,638.4	1,153.0	3,952.3	3,933.8	18.55	213.069		
4,100.0	4,045.8	2,994.3	2,894.8	13.4	13.7	89.98	-3,658.5	1,154.8	3,980.8	3,961.8	19.02	209.344		
4,200.0	4,144.3	3,137.2	3,032.1	13.8	14.5	90.42	-3,698.1	1,157.3	4,008.9	3,989.3	19.59	204.618		
4,300.0	4,242.8	3,222.2	3,113.9	14.1	14.9	90.67	-3,721.5	1,158.7	4,037.0	4,016.9	20.08	201.075		
4,400.0	4,341.3	3,404.8	3,289.9	14.5	15.8	91.21	-3,769.7	1,160.5	4,063.9	4,043.2	20.72	196.135		
4,500.0	4,439.7	3,469.0	3,351.9	14.8	16.1	91.41	-3,786.4	1,160.1	4,090.5	4,069.3	21.18	193.134		
4,600.0	4,538.2	3,533.0	3,413.6	15.2	16.4	91.62	-3,803.4	1,159.5	4,117.7	4,096.1	21.64	190.315		
4,700.0	4,636.7	3,597.0	3,475.2	15.5	16.7	91.82	-3,820.9	1,159.3	4,145.8	4,123.7	22.09	187.671		
4,800.0	4,735.2	3,686.6	3,561.2	15.9	17.2	92.08	-3,845.6	1,159.7	4,174.3	4,151.7	22.58	184.861		
4,900.0	4,833.7	3,770.6	3,641.9	16.2	17.6	92.31	-3,869.0	1,161.2	4,203.2	4,180.1	23.06	182.275		
5,000.0	4,932.1	3,897.6	3,764.0	16.6	18.3	92.67	-3,903.9	1,162.3	4,231.8	4,208.1	23.61	179.244		
5,100.0	5,030.6	4,003.3	3,865.9	17.0	18.8	92.97	-3,932.3	1,162.4	4,259.8	4,235.7	24.13	176.569		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Starks 24-30 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 61-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)						
5,200.0	5,129.1	4,075.5	3,935.3	17.3	19.2	93.18	-3,952.1	1,162.4	4,288.4	4,263.8	24.59	174.394		
5,300.0	5,227.6	4,149.7	4,006.6	17.7	19.6	93.38	-3,972.5	1,162.4	4,317.3	4,292.2	25.06	172.304		
5,400.0	5,326.3	4,203.1	4,057.8	18.0	19.8	94.13	-3,987.6	1,162.9	4,346.8	4,321.5	25.38	171.299		
5,500.0	5,425.6	4,436.6	4,282.0	18.2	21.0	95.16	-4,052.8	1,165.3	4,376.9	4,351.0	25.94	168.753		
5,600.0	5,525.2	4,514.6	4,357.4	18.4	21.4	95.82	-4,072.9	1,165.7	4,403.6	4,377.4	26.21	167.986		
5,700.0	5,625.1	4,582.0	4,422.4	18.5	21.8	96.44	-4,090.7	1,165.8	4,430.6	4,404.2	26.43	167.636		
5,800.0	5,725.0	4,704.5	4,540.4	18.6	22.4	176.04	-4,123.4	1,166.7	4,457.5	4,430.8	26.69	167.022		
5,900.0	5,825.0	4,772.1	4,605.6	18.7	22.7	176.05	-4,141.1	1,167.4	4,483.8	4,456.9	26.90	166.686		
6,000.0	5,925.0	4,867.5	4,697.5	18.8	23.2	176.06	-4,166.9	1,168.3	4,510.9	4,483.7	27.16	166.078		
6,100.0	6,025.0	5,069.0	4,892.2	18.9	24.1	176.10	-4,219.0	1,168.6	4,536.8	4,509.2	27.60	164.349		
6,200.0	6,125.0	5,157.9	4,978.4	19.0	24.6	176.10	-4,240.5	1,170.3	4,561.1	4,533.3	27.86	163.745		
6,300.0	6,225.0	5,215.0	5,033.7	19.1	24.8	176.09	-4,254.9	1,171.6	4,586.3	4,558.3	28.05	163.488		
6,400.0	6,325.0	5,278.0	5,094.6	19.2	25.1	176.09	-4,271.0	1,172.7	4,612.0	4,583.8	28.26	163.186		
6,501.4	6,426.5	5,334.3	5,148.9	19.3	25.4	176.10	-4,285.8	1,173.2	4,638.9	4,610.4	28.46	162.975		
6,550.0	6,475.0	5,373.0	5,186.1	19.4	25.6	-3.70	-4,296.5	1,173.3	4,650.3	4,621.6	28.63	162.446		
6,600.0	6,524.6	5,539.1	5,346.3	19.4	26.4	-3.64	-4,340.1	1,173.5	4,657.3	4,628.5	28.84	161.503		
6,650.0	6,573.4	5,600.5	5,405.8	19.4	26.7	-3.63	-4,355.4	1,174.3	4,659.1	4,630.4	28.69	162.383		
6,700.0	6,621.1	6,742.6	6,534.1	19.4	29.8	-3.99	-4,508.6	1,185.6	4,654.7	4,624.5	30.25	153.859		
6,750.0	6,667.3	6,799.7	6,591.2	19.5	29.8	-4.15	-4,509.3	1,185.6	4,636.4	4,606.6	29.74	155.912		
6,800.0	6,711.7	6,901.2	6,692.7	19.5	29.9	-4.39	-4,509.9	1,185.7	4,613.7	4,584.6	29.12	158.412		
6,850.0	6,753.9	6,952.7	6,744.1	19.5	29.9	-4.67	-4,509.8	1,185.8	4,587.0	4,558.7	28.27	162.250		
6,900.0	6,793.7	7,004.6	6,796.0	19.5	30.0	-5.04	-4,509.6	1,186.0	4,556.6	4,529.3	27.28	167.039		
6,950.0	6,830.6	7,065.4	6,856.8	19.6	30.0	-5.54	-4,509.2	1,186.2	4,522.7	4,496.5	26.18	172.726		
7,000.0	6,864.5	7,128.0	6,919.5	19.7	30.0	-6.20	-4,508.3	1,186.3	4,485.6	4,460.6	25.01	179.345		
7,050.0	6,895.0	7,187.1	6,978.5	19.8	30.0	-7.09	-4,507.1	1,186.2	4,445.5	4,421.7	23.80	186.768		
7,100.0	6,922.0	7,236.0	7,027.4	19.9	30.0	-8.32	-4,505.9	1,186.0	4,402.8	4,380.2	22.63	194.544		
7,150.0	6,945.1	7,276.9	7,068.4	20.0	30.1	-10.12	-4,504.7	1,185.7	4,358.0	4,336.3	21.65	201.284		
7,200.0	6,964.4	7,298.7	7,090.1	20.2	30.1	-12.84	-4,503.9	1,185.6	4,311.3	4,290.2	21.12	204.094		
7,250.0	6,979.5	7,315.3	7,106.7	20.5	30.1	-17.55	-4,503.4	1,185.4	4,263.3	4,241.6	21.75	196.001		
7,300.0	6,990.5	7,326.6	7,118.0	20.7	30.1	-27.23	-4,503.0	1,185.3	4,214.3	4,188.9	25.44	165.688		
7,350.0	6,997.1	7,332.6	7,124.0	21.0	30.1	-53.56	-4,502.8	1,185.3	4,164.7	4,127.4	37.33	111.553		
7,400.0	6,999.4	7,333.3	7,124.7	21.4	30.1	-113.81	-4,502.8	1,185.2	4,114.9	4,073.5	41.34	99.540		
7,406.4	6,999.4	7,333.0	7,124.4	21.4	30.1	-120.57	-4,502.8	1,185.2	4,108.5	4,069.2	39.23	104.734		
7,500.0	6,998.6	7,328.1	7,119.5	22.1	30.1	-119.88	-4,502.9	1,185.3	4,015.2	3,974.9	40.37	99.457		
7,600.0	6,997.7	7,322.9	7,114.3	23.0	30.1	-119.14	-4,503.1	1,185.4	3,915.6	3,874.0	41.69	93.916		
7,700.0	6,996.9	7,317.8	7,109.2	24.0	30.1	-118.40	-4,503.3	1,185.4	3,816.1	3,773.0	43.10	88.538		
7,800.0	6,996.0	7,312.7	7,104.1	25.0	30.1	-117.65	-4,503.5	1,185.4	3,716.5	3,671.9	44.58	83.366		
7,900.0	6,995.1	7,307.6	7,099.0	26.2	30.1	-116.90	-4,503.6	1,185.5	3,616.9	3,570.8	46.12	78.422		
8,000.0	6,994.2	7,302.6	7,094.0	27.4	30.1	-116.15	-4,503.8	1,185.5	3,517.4	3,469.7	47.71	73.717		
8,100.0	6,993.4	7,297.7	7,089.1	28.6	30.1	-115.39	-4,504.0	1,185.6	3,417.9	3,368.5	49.35	69.255		
8,200.0	6,992.5	7,292.7	7,084.2	29.9	30.1	-114.64	-4,504.1	1,185.6	3,318.4	3,267.3	51.03	65.030		
8,300.0	6,991.6	7,287.9	7,079.3	31.3	30.1	-113.88	-4,504.3	1,185.7	3,218.9	3,166.2	52.74	61.035		
8,400.0	6,990.7	7,283.0	7,074.5	32.7	30.1	-113.12	-4,504.5	1,185.7	3,119.5	3,065.0	54.48	57.262		
8,500.0	6,989.9	7,278.3	7,069.7	34.1	30.1	-112.35	-4,504.6	1,185.7	3,020.0	2,963.8	56.24	53.698		
8,600.0	6,989.0	7,272.6	7,064.0	35.6	30.1	-111.44	-4,504.8	1,185.8	2,920.7	2,862.6	58.08	50.284		
8,700.0	6,988.1	7,266.7	7,058.1	37.0	30.1	-110.48	-4,505.0	1,185.8	2,821.3	2,761.4	59.96	47.055		
8,800.0	6,987.3	7,261.0	7,052.5	38.5	30.1	-109.54	-4,505.2	1,185.8	2,722.0	2,660.2	61.84	44.017		
8,900.0	6,986.4	7,255.5	7,047.0	40.1	30.0	-108.62	-4,505.3	1,185.9	2,622.8	2,559.0	63.73	41.154		
9,000.0	6,985.5	7,250.2	7,041.6	41.6	30.0	-107.72	-4,505.5	1,185.9	2,523.5	2,457.9	65.62	38.455		
9,100.0	6,984.6	7,245.0	7,036.4	43.2	30.0	-106.83	-4,505.6	1,185.9	2,424.4	2,356.9	67.52	35.906		
9,200.0	6,983.8	7,239.9	7,031.3	44.7	30.0	-105.96	-4,505.8	1,186.0	2,325.3	2,255.9	69.42	33.497		
9,300.0	6,982.9	7,235.0	7,026.4	46.3	30.0	-105.10	-4,505.9	1,186.0	2,226.3	2,155.0	71.32	31.217		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 NWNW S30-T2N-R64W (Gurtler) - Starks 24-30 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 61-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)				
9,400.0	6,982.0	7,230.2	7,021.6	47.9	30.0	-104.27	-4,506.1	1,186.0	2,127.3	2,054.1	73.21	29.058		
9,500.0	6,981.1	7,225.5	7,017.0	49.5	30.0	-103.44	-4,506.2	1,186.0	2,028.5	1,953.4	75.10	27.009		
9,600.0	6,980.3	7,221.0	7,012.4	51.1	30.0	-102.64	-4,506.3	1,186.0	1,929.8	1,852.8	76.99	25.064		
9,700.0	6,979.4	7,216.6	7,008.0	52.8	30.0	-101.85	-4,506.4	1,186.1	1,831.2	1,752.3	78.88	23.215		
9,800.0	6,978.5	7,212.3	7,003.7	54.4	30.0	-101.08	-4,506.5	1,186.1	1,732.7	1,652.0	80.76	21.456		
9,900.0	6,977.7	7,208.1	6,999.5	56.1	30.0	-100.32	-4,506.6	1,186.1	1,634.5	1,551.8	82.63	19.780		
10,000.0	6,976.8	7,204.0	6,995.4	57.7	30.0	-99.58	-4,506.7	1,186.1	1,536.4	1,451.9	84.50	18.183		
10,100.0	6,975.9	7,200.0	6,991.4	59.4	30.0	-98.85	-4,506.8	1,186.1	1,438.6	1,352.3	86.36	16.659		
10,200.0	6,975.0	7,196.1	6,987.5	61.0	30.0	-98.14	-4,506.9	1,186.2	1,341.2	1,253.0	88.21	15.204		
10,300.0	6,974.2	7,192.3	6,983.7	62.7	30.0	-97.44	-4,507.0	1,186.2	1,244.1	1,154.0	90.06	13.814		
10,400.0	6,973.3	7,188.6	6,980.0	64.4	30.0	-96.76	-4,507.1	1,186.2	1,147.5	1,055.6	91.90	12.487		
10,500.0	6,972.4	7,185.0	6,976.4	66.0	30.0	-96.09	-4,507.2	1,186.2	1,051.5	957.8	93.73	11.219		
10,600.0	6,971.5	7,181.4	6,972.9	67.7	30.0	-95.44	-4,507.3	1,186.2	956.4	860.8	95.55	10.009		
10,700.0	6,970.7	7,177.9	6,969.4	69.4	30.0	-94.80	-4,507.4	1,186.2	862.3	764.9	97.36	8.857		
10,800.0	6,969.8	7,174.5	6,966.0	71.1	30.0	-94.17	-4,507.4	1,186.2	769.7	670.6	99.17	7.762		
10,900.0	6,968.9	7,171.2	6,962.7	72.8	30.0	-93.55	-4,507.5	1,186.2	679.2	578.3	100.96	6.728		
11,000.0	6,968.1	7,168.0	6,959.4	74.5	30.0	-92.95	-4,507.6	1,186.2	591.8	489.0	102.75	5.760		
11,100.0	6,967.2	7,164.8	6,956.3	76.1	30.0	-92.36	-4,507.6	1,186.2	509.0	404.5	104.53	4.869		
11,200.0	6,966.3	7,161.7	6,953.2	77.8	30.0	-91.78	-4,507.7	1,186.2	433.5	327.2	106.30	4.078		
11,300.0	6,965.4	7,158.7	6,950.2	79.5	30.0	-91.22	-4,507.8	1,186.3	369.7	261.7	108.06	3.422		
11,400.0	6,964.6	7,155.8	6,947.2	81.2	30.0	-90.67	-4,507.8	1,186.3	324.8	215.0	109.81	2.958		
11,500.0	6,963.7	7,152.9	6,944.3	82.9	30.0	-90.13	-4,507.9	1,186.3	307.0	195.5	111.55	2.752		
11,506.2	6,963.6	7,152.7	6,944.2	83.1	30.0	-90.10	-4,507.9	1,186.3	306.9	195.3	111.66	2.749	CC, ES, SF	
11,600.0	6,962.8	7,150.0	6,941.5	84.7	30.0	-89.60	-4,507.9	1,186.3	321.0	207.7	113.29	2.833		
11,700.0	6,961.9	7,147.3	6,938.7	86.4	30.0	-89.09	-4,508.0	1,186.3	363.0	248.0	115.01	3.156		
11,800.0	6,961.1	7,144.6	6,936.0	88.1	30.0	-88.58	-4,508.0	1,186.3	424.8	308.1	116.73	3.639		
11,900.0	6,960.2	7,141.9	6,933.4	89.8	30.0	-88.09	-4,508.1	1,186.3	499.2	380.7	118.44	4.215		
12,000.0	6,959.3	7,139.3	6,930.8	91.5	30.0	-87.60	-4,508.1	1,186.3	581.3	461.1	120.14	4.838		
12,100.0	6,958.5	7,136.8	6,928.3	93.2	30.0	-87.13	-4,508.2	1,186.3	668.3	546.4	121.84	5.485		
12,200.0	6,957.6	7,134.3	6,925.8	94.9	30.0	-86.67	-4,508.2	1,186.3	758.4	634.9	123.53	6.140		
12,300.0	6,956.7	7,131.9	6,923.3	96.6	30.0	-86.22	-4,508.3	1,186.3	850.8	725.6	125.21	6.795		
12,400.0	6,955.8	7,129.5	6,920.9	98.4	30.0	-85.77	-4,508.3	1,186.3	944.7	817.9	126.88	7.446		
12,500.0	6,955.0	7,127.1	6,918.6	100.1	30.0	-85.34	-4,508.3	1,186.3	1,039.8	911.3	128.54	8.089		
12,600.0	6,954.1	7,124.9	6,916.3	101.8	30.0	-84.91	-4,508.4	1,186.3	1,135.7	1,005.5	130.20	8.723		
12,700.0	6,953.2	7,122.6	6,914.1	103.5	30.0	-84.50	-4,508.4	1,186.3	1,232.2	1,100.4	131.85	9.346		
12,800.0	6,952.3	7,120.4	6,911.9	105.3	30.0	-84.09	-4,508.4	1,186.3	1,329.3	1,195.8	133.50	9.957		
12,900.0	6,951.5	7,118.2	6,909.7	107.0	30.0	-83.69	-4,508.5	1,186.3	1,426.7	1,291.6	135.14	10.558		
13,000.0	6,950.6	7,116.1	6,907.6	108.7	30.0	-83.30	-4,508.5	1,186.3	1,524.5	1,387.8	136.77	11.147		
13,100.0	6,949.7	7,114.0	6,905.5	110.4	30.0	-82.92	-4,508.5	1,186.3	1,622.6	1,484.2	138.39	11.724		
13,200.0	6,948.9	7,112.0	6,903.5	112.2	30.0	-82.54	-4,508.6	1,186.3	1,720.8	1,580.8	140.01	12.291		
13,300.0	6,948.0	7,110.0	6,901.4	113.9	30.0	-82.18	-4,508.6	1,186.3	1,819.3	1,677.7	141.63	12.846		
13,400.0	6,947.1	7,108.0	6,899.5	115.6	30.0	-81.81	-4,508.6	1,186.3	1,917.9	1,774.7	143.23	13.390		
13,500.0	6,946.2	7,106.1	6,897.5	117.3	30.0	-81.46	-4,508.7	1,186.3	2,016.7	1,871.8	144.84	13.924		
13,600.0	6,945.4	7,104.2	6,895.6	119.1	30.0	-81.12	-4,508.7	1,186.3	2,115.5	1,969.1	146.43	14.447		
13,700.0	6,944.5	7,102.3	6,893.8	120.8	30.0	-80.78	-4,508.7	1,186.3	2,214.5	2,066.5	148.02	14.960		
13,800.0	6,943.6	7,100.5	6,891.9	122.5	30.0	-80.44	-4,508.7	1,186.3	2,313.5	2,163.9	149.61	15.464		
13,900.0	6,942.7	7,098.7	6,890.1	124.3	30.0	-80.12	-4,508.8	1,186.3	2,412.7	2,261.5	151.19	15.958		
14,000.0	6,941.9	7,096.9	6,888.4	126.0	30.0	-79.80	-4,508.8	1,186.3	2,511.9	2,359.1	152.77	16.443		
14,100.0	6,941.0	7,086.0	6,877.5	127.7	30.0	-77.84	-4,508.9	1,186.3	2,611.1	2,457.6	153.49	17.012		
14,200.0	6,940.1	7,086.0	6,877.5	129.5	30.0	-77.84	-4,508.9	1,186.3	2,710.4	2,555.2	155.20	17.464		
14,272.4	6,939.5	7,086.0	6,877.5	130.7	30.0	-77.84	-4,508.9	1,186.3	2,782.4	2,625.9	156.43	17.786		

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 Gurtler 2A-30H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4941.0ft (Original Well Elev)
Reference Site:	NWNW S30-T2N-R64W (Gurtler)	MD Reference:	WELL @ 4941.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Gurtler 2A-30H	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 @ 4941.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Gurtler 2A-30H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.58°

