



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>North Reference:</b>	True
<b>Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

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

Site	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)				
Site Position:		Northing:	1,295,686.81 ft	Latitude:	40.143850
From:	Lat/Long	Easting:	3,147,060.98 ft	Longitude:	-104.973980
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.34 °

Well	Grant-Hurt 1G-14H-G268					
Well Position	+N/-S	0.0 ft	Northing:	1,294,034.52 ft	Latitude:	40.139280
	+E/-W	0.0 ft	Easting:	3,149,156.50 ft	Longitude:	-104.966520
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,888.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	6/24/2013	8.68	66.74	52,759

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

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,194.4	8.94	95.20	1,190.7	-6.3	69.4	1.00	1.00	0.00	95.20	
6,899.0	8.94	95.20	6,826.0	-86.7	952.6	0.00	0.00	0.00	0.00	
7,807.0	90.00	0.00	7,400.0	486.2	1,042.5	10.00	8.93	-10.48	-95.14	
14,621.0	90.00	0.00	7,400.0	7,300.2	1,042.5	0.00	0.00	0.00	0.00	Grant-Hurt 1G-14H-G

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<b>Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>North Reference:</b>	True
<b>Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
263.0	0.00	0.00	263.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300'
400.0	1.00	95.20	400.0	-0.1	0.9	-0.1	1.00	1.00	
500.0	2.00	95.20	500.0	-0.3	3.5	-0.3	1.00	1.00	
600.0	3.00	95.20	599.9	-0.7	7.8	-0.7	1.00	1.00	
700.0	4.00	95.20	699.7	-1.3	13.9	-1.3	1.00	1.00	
800.0	5.00	95.20	799.4	-2.0	21.7	-2.0	1.00	1.00	
900.0	6.00	95.20	898.9	-2.8	31.3	-2.8	1.00	1.00	
1,000.0	7.00	95.20	998.3	-3.9	42.5	-3.9	1.00	1.00	
1,100.0	8.00	95.20	1,097.4	-5.1	55.5	-5.1	1.00	1.00	
1,194.4	8.94	95.20	1,190.7	-6.3	69.4	-6.3	1.00	1.00	EOB; Inc=8.94°
1,200.0	8.94	95.20	1,196.3	-6.4	70.2	-6.4	0.00	0.00	
1,300.0	8.94	95.20	1,295.1	-7.8	85.7	-7.8	0.00	0.00	
1,400.0	8.94	95.20	1,393.9	-9.2	101.2	-9.2	0.00	0.00	
1,500.0	8.94	95.20	1,492.7	-10.6	116.7	-10.6	0.00	0.00	
1,600.0	8.94	95.20	1,591.4	-12.0	132.2	-12.0	0.00	0.00	
1,700.0	8.94	95.20	1,690.2	-13.4	147.7	-13.4	0.00	0.00	
1,800.0	8.94	95.20	1,789.0	-14.8	163.1	-14.8	0.00	0.00	
1,900.0	8.94	95.20	1,887.8	-16.3	178.6	-16.3	0.00	0.00	
2,000.0	8.94	95.20	1,986.6	-17.7	194.1	-17.7	0.00	0.00	
2,100.0	8.94	95.20	2,085.4	-19.1	209.6	-19.1	0.00	0.00	
2,200.0	8.94	95.20	2,184.1	-20.5	225.1	-20.5	0.00	0.00	
2,300.0	8.94	95.20	2,282.9	-21.9	240.6	-21.9	0.00	0.00	
2,400.0	8.94	95.20	2,381.7	-23.3	256.0	-23.3	0.00	0.00	
2,500.0	8.94	95.20	2,480.5	-24.7	271.5	-24.7	0.00	0.00	
2,600.0	8.94	95.20	2,579.3	-26.1	287.0	-26.1	0.00	0.00	
2,700.0	8.94	95.20	2,678.1	-27.5	302.5	-27.5	0.00	0.00	
2,800.0	8.94	95.20	2,776.9	-28.9	318.0	-28.9	0.00	0.00	
2,900.0	8.94	95.20	2,875.6	-30.3	333.4	-30.3	0.00	0.00	
3,000.0	8.94	95.20	2,974.4	-31.7	348.9	-31.7	0.00	0.00	
3,100.0	8.94	95.20	3,073.2	-33.2	364.4	-33.2	0.00	0.00	
3,200.0	8.94	95.20	3,172.0	-34.6	379.9	-34.6	0.00	0.00	
3,300.0	8.94	95.20	3,270.8	-36.0	395.4	-36.0	0.00	0.00	
3,400.0	8.94	95.20	3,369.6	-37.4	410.9	-37.4	0.00	0.00	
3,500.0	8.94	95.20	3,468.3	-38.8	426.3	-38.8	0.00	0.00	
3,600.0	8.94	95.20	3,567.1	-40.2	441.8	-40.2	0.00	0.00	
3,700.0	8.94	95.20	3,665.9	-41.6	457.3	-41.6	0.00	0.00	
3,800.0	8.94	95.20	3,764.7	-43.0	472.8	-43.0	0.00	0.00	
3,900.0	8.94	95.20	3,863.5	-44.4	488.3	-44.4	0.00	0.00	
4,000.0	8.94	95.20	3,962.3	-45.8	503.7	-45.8	0.00	0.00	
4,064.5	8.94	95.20	4,026.0	-46.7	513.7	-46.7	0.00	0.00	Sussex
4,100.0	8.94	95.20	4,061.0	-47.2	519.2	-47.2	0.00	0.00	
4,200.0	8.94	95.20	4,159.8	-48.7	534.7	-48.7	0.00	0.00	
4,220.4	8.94	95.20	4,180.0	-48.9	537.9	-48.9	0.00	0.00	Sussex Marker
4,300.0	8.94	95.20	4,258.6	-50.1	550.2	-50.1	0.00	0.00	
4,400.0	8.94	95.20	4,357.4	-51.5	565.7	-51.5	0.00	0.00	
4,500.0	8.94	95.20	4,456.2	-52.9	581.2	-52.9	0.00	0.00	
4,600.0	8.94	95.20	4,555.0	-54.3	596.6	-54.3	0.00	0.00	
4,700.0	8.94	95.20	4,653.8	-55.7	612.1	-55.7	0.00	0.00	

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<b>Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,763.0	8.94	95.20	4,716.0	-56.6	621.9	-56.6	0.00	0.00	Shannon
4,800.0	8.94	95.20	4,752.5	-57.1	627.6	-57.1	0.00	0.00	
4,900.0	8.94	95.20	4,851.3	-58.5	643.1	-58.5	0.00	0.00	
5,000.0	8.94	95.20	4,950.1	-59.9	658.6	-59.9	0.00	0.00	
5,100.0	8.94	95.20	5,048.9	-61.3	674.1	-61.3	0.00	0.00	
5,200.0	8.94	95.20	5,147.7	-62.7	689.5	-62.7	0.00	0.00	
5,300.0	8.94	95.20	5,246.5	-64.1	705.0	-64.1	0.00	0.00	
5,400.0	8.94	95.20	5,345.2	-65.6	720.5	-65.6	0.00	0.00	
5,500.0	8.94	95.20	5,444.0	-67.0	736.0	-67.0	0.00	0.00	
5,600.0	8.94	95.20	5,542.8	-68.4	751.5	-68.4	0.00	0.00	
5,700.0	8.94	95.20	5,641.6	-69.8	766.9	-69.8	0.00	0.00	Teepee Buttes (*if present)
5,800.0	8.94	95.20	5,740.4	-71.2	782.4	-71.2	0.00	0.00	
5,900.0	8.94	95.20	5,839.2	-72.6	797.9	-72.6	0.00	0.00	
6,000.0	8.94	95.20	5,937.9	-74.0	813.4	-74.0	0.00	0.00	
6,062.8	8.94	95.20	6,000.0	-74.9	823.1	-74.9	0.00	0.00	
6,100.0	8.94	95.20	6,036.7	-75.4	828.9	-75.4	0.00	0.00	
6,200.0	8.94	95.20	6,135.5	-76.8	844.4	-76.8	0.00	0.00	
6,300.0	8.94	95.20	6,234.3	-78.2	859.8	-78.2	0.00	0.00	
6,400.0	8.94	95.20	6,333.1	-79.6	875.3	-79.6	0.00	0.00	
6,500.0	8.94	95.20	6,431.9	-81.1	890.8	-81.1	0.00	0.00	Start build/turn @ 6899' MD
6,600.0	8.94	95.20	6,530.7	-82.5	906.3	-82.5	0.00	0.00	
6,700.0	8.94	95.20	6,629.4	-83.9	921.8	-83.9	0.00	0.00	
6,800.0	8.94	95.20	6,728.2	-85.3	937.2	-85.3	0.00	0.00	
6,899.0	8.94	95.20	6,826.0	-86.7	952.6	-86.7	0.00	0.00	
6,900.0	8.93	94.53	6,827.0	-86.7	952.7	-86.7	10.00	-0.84	
7,000.0	12.85	43.41	6,925.4	-79.2	968.2	-79.2	10.00	3.91	
7,100.0	21.18	23.86	7,021.0	-54.5	983.1	-54.5	10.00	8.33	
7,141.3	24.97	19.66	7,059.0	-39.5	989.1	-39.5	10.00	9.18	
7,200.0	30.51	15.43	7,110.9	-13.4	997.2	-13.4	10.00	9.42	Niobrara B Chalk B Marl C Chalk C Marl
7,208.2	31.29	14.94	7,118.0	-9.4	998.3	-9.4	10.00	9.53	
7,271.2	37.34	11.85	7,170.0	25.2	1,006.5	25.2	10.00	9.61	
7,300.0	40.13	10.71	7,192.5	42.8	1,010.0	42.8	10.00	9.69	
7,302.0	40.33	10.64	7,194.0	44.1	1,010.2	44.1	10.00	9.71	
7,374.2	47.36	8.30	7,246.0	93.4	1,018.4	93.4	10.00	9.75	
7,400.0	49.89	7.59	7,263.1	112.6	1,021.1	112.6	10.00	9.78	
7,412.5	51.11	7.26	7,271.0	122.1	1,022.3	122.1	10.00	9.80	
7,500.0	59.71	5.25	7,320.7	193.7	1,030.1	193.7	10.00	9.82	
7,600.0	69.56	3.35	7,363.4	283.7	1,036.8	283.7	10.00	9.85	Ft. Hayes Codell LP @ 7400' TVD; 90°
7,619.7	71.50	3.01	7,370.0	302.2	1,037.8	302.2	10.00	9.86	
7,699.2	79.35	1.69	7,390.0	379.0	1,041.0	379.0	10.00	9.87	
7,700.0	79.43	1.68	7,390.2	379.8	1,041.0	379.8	10.00	9.88	
7,800.0	89.31	0.11	7,400.0	479.2	1,042.5	479.2	10.00	9.88	
7,807.0	90.00	0.00	7,400.0	486.2	1,042.5	486.2	10.00	9.88	
7,900.0	90.00	0.00	7,400.0	579.2	1,042.5	579.2	0.00	0.00	
8,000.0	90.00	0.00	7,400.0	679.2	1,042.5	679.2	0.00	0.00	
8,100.0	90.00	0.00	7,400.0	779.2	1,042.5	779.2	0.00	0.00	
8,200.0	90.00	0.00	7,400.0	879.2	1,042.5	879.2	0.00	0.00	
8,300.0	90.00	0.00	7,400.0	979.2	1,042.5	979.2	0.00	0.00	
8,400.0	90.00	0.00	7,400.0	1,079.2	1,042.5	1,079.2	0.00	0.00	
8,500.0	90.00	0.00	7,400.0	1,179.2	1,042.5	1,179.2	0.00	0.00	
8,600.0	90.00	0.00	7,400.0	1,279.2	1,042.5	1,279.2	0.00	0.00	
8,700.0	90.00	0.00	7,400.0	1,379.2	1,042.5	1,379.2	0.00	0.00	

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<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	0.00	7,400.0	1,479.2	1,042.5	1,479.2	0.00	0.00	
8,900.0	90.00	0.00	7,400.0	1,579.2	1,042.5	1,579.2	0.00	0.00	
9,000.0	90.00	0.00	7,400.0	1,679.2	1,042.5	1,679.2	0.00	0.00	
9,100.0	90.00	0.00	7,400.0	1,779.2	1,042.5	1,779.2	0.00	0.00	
9,200.0	90.00	0.00	7,400.0	1,879.2	1,042.5	1,879.2	0.00	0.00	
9,300.0	90.00	0.00	7,400.0	1,979.2	1,042.5	1,979.2	0.00	0.00	
9,400.0	90.00	0.00	7,400.0	2,079.2	1,042.5	2,079.2	0.00	0.00	
9,500.0	90.00	0.00	7,400.0	2,179.2	1,042.5	2,179.2	0.00	0.00	
9,600.0	90.00	0.00	7,400.0	2,279.2	1,042.5	2,279.2	0.00	0.00	
9,700.0	90.00	0.00	7,400.0	2,379.2	1,042.5	2,379.2	0.00	0.00	
9,800.0	90.00	0.00	7,400.0	2,479.2	1,042.5	2,479.2	0.00	0.00	
9,900.0	90.00	0.00	7,400.0	2,579.2	1,042.5	2,579.2	0.00	0.00	
10,000.0	90.00	0.00	7,400.0	2,679.2	1,042.5	2,679.2	0.00	0.00	
10,100.0	90.00	0.00	7,400.0	2,779.2	1,042.5	2,779.2	0.00	0.00	
10,200.0	90.00	0.00	7,400.0	2,879.2	1,042.5	2,879.2	0.00	0.00	
10,300.0	90.00	0.00	7,400.0	2,979.2	1,042.5	2,979.2	0.00	0.00	
10,400.0	90.00	0.00	7,400.0	3,079.2	1,042.5	3,079.2	0.00	0.00	
10,500.0	90.00	0.00	7,400.0	3,179.2	1,042.5	3,179.2	0.00	0.00	
10,600.0	90.00	0.00	7,400.0	3,279.2	1,042.5	3,279.2	0.00	0.00	
10,700.0	90.00	0.00	7,400.0	3,379.2	1,042.5	3,379.2	0.00	0.00	
10,800.0	90.00	0.00	7,400.0	3,479.2	1,042.5	3,479.2	0.00	0.00	
10,900.0	90.00	0.00	7,400.0	3,579.2	1,042.5	3,579.2	0.00	0.00	
11,000.0	90.00	0.00	7,400.0	3,679.2	1,042.5	3,679.2	0.00	0.00	
11,100.0	90.00	0.00	7,400.0	3,779.2	1,042.5	3,779.2	0.00	0.00	
11,200.0	90.00	0.00	7,400.0	3,879.2	1,042.5	3,879.2	0.00	0.00	
11,300.0	90.00	0.00	7,400.0	3,979.2	1,042.5	3,979.2	0.00	0.00	
11,400.0	90.00	0.00	7,400.0	4,079.2	1,042.5	4,079.2	0.00	0.00	
11,500.0	90.00	0.00	7,400.0	4,179.2	1,042.5	4,179.2	0.00	0.00	
11,600.0	90.00	0.00	7,400.0	4,279.2	1,042.5	4,279.2	0.00	0.00	
11,700.0	90.00	0.00	7,400.0	4,379.2	1,042.5	4,379.2	0.00	0.00	
11,800.0	90.00	0.00	7,400.0	4,479.2	1,042.5	4,479.2	0.00	0.00	
11,900.0	90.00	0.00	7,400.0	4,579.2	1,042.5	4,579.2	0.00	0.00	
12,000.0	90.00	0.00	7,400.0	4,679.2	1,042.5	4,679.2	0.00	0.00	
12,100.0	90.00	0.00	7,400.0	4,779.2	1,042.5	4,779.2	0.00	0.00	
12,200.0	90.00	0.00	7,400.0	4,879.2	1,042.5	4,879.2	0.00	0.00	
12,300.0	90.00	0.00	7,400.0	4,979.2	1,042.5	4,979.2	0.00	0.00	
12,400.0	90.00	0.00	7,400.0	5,079.2	1,042.5	5,079.2	0.00	0.00	
12,500.0	90.00	0.00	7,400.0	5,179.2	1,042.5	5,179.2	0.00	0.00	
12,600.0	90.00	0.00	7,400.0	5,279.2	1,042.5	5,279.2	0.00	0.00	
12,700.0	90.00	0.00	7,400.0	5,379.2	1,042.5	5,379.2	0.00	0.00	
12,800.0	90.00	0.00	7,400.0	5,479.2	1,042.5	5,479.2	0.00	0.00	
12,900.0	90.00	0.00	7,400.0	5,579.2	1,042.5	5,579.2	0.00	0.00	
13,000.0	90.00	0.00	7,400.0	5,679.2	1,042.5	5,679.2	0.00	0.00	
13,100.0	90.00	0.00	7,400.0	5,779.2	1,042.5	5,779.2	0.00	0.00	
13,200.0	90.00	0.00	7,400.0	5,879.2	1,042.5	5,879.2	0.00	0.00	
13,300.0	90.00	0.00	7,400.0	5,979.2	1,042.5	5,979.2	0.00	0.00	
13,400.0	90.00	0.00	7,400.0	6,079.2	1,042.5	6,079.2	0.00	0.00	
13,500.0	90.00	0.00	7,400.0	6,179.2	1,042.5	6,179.2	0.00	0.00	
13,600.0	90.00	0.00	7,400.0	6,279.2	1,042.5	6,279.2	0.00	0.00	
13,700.0	90.00	0.00	7,400.0	6,379.2	1,042.5	6,379.2	0.00	0.00	
13,800.0	90.00	0.00	7,400.0	6,479.2	1,042.5	6,479.2	0.00	0.00	
13,900.0	90.00	0.00	7,400.0	6,579.2	1,042.5	6,579.2	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>North Reference:</b>	True
<b>Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,000.0	90.00	0.00	7,400.0	6,679.2	1,042.5	6,679.2	0.00	0.00	
14,100.0	90.00	0.00	7,400.0	6,779.2	1,042.5	6,779.2	0.00	0.00	
14,200.0	90.00	0.00	7,400.0	6,879.2	1,042.5	6,879.2	0.00	0.00	
14,300.0	90.00	0.00	7,400.0	6,979.2	1,042.5	6,979.2	0.00	0.00	
14,400.0	90.00	0.00	7,400.0	7,079.2	1,042.5	7,079.2	0.00	0.00	
14,500.0	90.00	0.00	7,400.0	7,179.2	1,042.5	7,179.2	0.00	0.00	
14,600.0	90.00	0.00	7,400.0	7,279.2	1,042.5	7,279.2	0.00	0.00	
14,621.0	90.00	0.00	7,400.0	7,300.2	1,042.5	7,300.2	0.00	0.00	TD at 14621.0 - Grant-Hurt 1G-14H-G268 PBHI

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Grant-Hurt 1G-14H-G26	0.00	0.00	7,400.0	7,300.2	1,042.5	1,301,340.89	3,150,155.10	40.159320	-104.962790
- plan hits target center									
- Point									

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
263.0	263.0	Fox Hills - BASE			
4,064.5	4,026.0	Sussex			
4,220.4	4,180.0	Sussex Marker			
4,763.0	4,716.0	Shannon			
6,062.8	6,000.0	Teepee Buttes (*if present)			
7,141.3	7,059.0	Sharon Springs			
7,208.2	7,118.0	Niobrara			
7,271.2	7,170.0	B Chalk			
7,302.0	7,194.0	B Marl			
7,374.2	7,246.0	C Chalk			
7,412.5	7,271.0	C Marl			
7,619.7	7,370.0	Ft. Hayes			
7,699.2	7,390.0	Codell			

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
300.0	300.0	0.0	0.0	KOP @ 300'
1,194.4	1,190.7	-6.3	69.4	EOB; Inc=8.94°
6,899.0	6,826.0	-86.7	952.6	Start build/turn @ 6899' MD
7,807.0	7,400.0	486.2	1,042.5	LP @ 7400' TVD; 90°
14,621.0	7,400.0	7,300.2	1,042.5	TD at 14621.0

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

**DJ Wattenberg**

**S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)**

**Grant-Hurt 1G-14H-G268**

**Hz**

**Plan #1**

## **Anticollision Report**

**09 July, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	Systematic Ellipse
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 500.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>		<b>Date</b>	7/9/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	14,621.0	Plan #1 (Hz)	Geolink MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)						
BERGER 32-23 (EXISTING) - EXISTING - NO SURVEY						Out of range
BUTCHER-TULL 1 (EXISTING) - VESSELS WELL - NO						Out of range
DEL CAMINO 11-14 (EXISTING) - EXISTING - NO SURV						Out of range
ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 1 (EXISTING) - EXISTING - GYRO						Out of range
ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO						Out of range
ELMQUIST 12-23 (EXISTING) - EXISTING - NO SURVE						Out of range
ELMQUIST 21-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 2-4-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 4-2-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 4-4-23 (EXISTING) - EXISTING - SURVEYS						Out of range
EVERIST 26-15 (EXISTING) - KMG WELL - PLAN ONLY						Out of range
EVERIST 39-10 (EXISTING) - EXISTING - NO SURVEY						Out of range
GRANT 23-11 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
GRANT 2-8-11 (EXISTING) - ENCANA WELL - SURVEY						Out of range
GRANT 3-6-11 (EXISTING) - ENCANA WELL - SURVEY						Out of range
GRANT BROTHERS 1 (EXISTING) - PDC WELL - NO S						Out of range
Grant Elmquist 2A-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2B-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2C-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2D-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2E-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2F-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2G-14H-C268 - Hz - Plan #2						Out of range
Grant Salisbury 2A-14H-C268 - Hz - Plan #2						Out of range
Grant Salisbury 2B-14H-C268 - Hz - Plan #1						Out of range
Grant Salisbury 2C-14H-C268 - Hz - Plan #1						Out of range
Grant Salisbury 2D-14H-C268 - Hz - Plan #1						Out of range
Grant Salisbury 2E-14H-C268 - Hz - Plan #1						Out of range
Grant Salisbury 2F-14H-C268 - Hz - Plan #1						Out of range
Grant-Hurt 1A-14H-G268 - Hz - Plan #1	200.0	200.0	58.7	58.1	96.113	CC, ES
Grant-Hurt 1A-14H-G268 - Hz - Plan #1	700.0	692.4	93.5	91.2	39.923	SF
Grant-Hurt 1B-14H-G268 - Hz - Plan #1	300.0	300.0	50.3	49.4	52.425	CC, ES
Grant-Hurt 1B-14H-G268 - Hz - Plan #1	600.0	596.6	65.9	63.9	32.931	SF
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	300.0	300.0	39.1	38.2	40.775	CC, ES
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	600.0	598.2	50.3	48.3	25.101	SF
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	300.0	300.0	30.8	29.8	32.038	CC, ES
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	700.0	699.7	44.7	42.3	18.986	SF
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	300.0	300.0	19.6	18.6	20.388	CC, ES
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	900.0	901.2	37.9	34.8	12.404	SF
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.650	CC, ES
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	14,621.0	14,352.6	412.9	191.0	1.861	SF
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	200.0	200.0	11.2	10.6	18.307	CC, ES
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	14,621.0	14,460.3	405.8	185.1	1.839	SF
HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 1 (EXISTING) - ENCANA WELL - NO SURVEYS						Out of range
HURT 33-11 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
HURT 34-11 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
HURT 43-11 (EXISTING) - ENCANA WELL - SURVEYS	11,710.0	7,719.5	302.9	194.6	2.797	CC, ES, SF
HURT 7-8-11 (EXISTING) - ENCANA WELL - SURVEYS	9,883.0	7,640.0	145.6	82.1	2.294	CC, ES, SF
MDM 33-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
MDM 34-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)						
NELSON 23-23C (EXISTING) - EXISTING - NO SURVEY						Out of range
OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS						Out of range
OLANDER U 14-11 (EXISTING) - EXISTING - NO SURV						Out of range
OLANDER U 14-14 (EXISTING) - EXISTING - NO SURV						Out of range
OLSON 1 (EXISTING) - PLAN ONLY - PLAN #1						Out of range
SALISBURY 1 (EXISTING) - EXISTING - GYRO						Out of range
SALISBURY 13-11 (EXISTING) - EXISTING - SURVEYS						Out of range
SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS						Out of range
SALISBURY 2-4-11 (EXISTING) - EXISTING - SURVEYS						Out of range
STANLEY OLSON 1 (EXISTING) - WHITEWING WELL						Out of range
STANLEY OLSON 2 (EXISTING) - WHITEWING WELL	7,986.8	7,419.0	204.4	174.3	6.792	CC, ES
STANLEY OLSON 2 (EXISTING) - WHITEWING WELL	8,000.0	7,419.0	204.8	174.5	6.770	SF

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1A-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-58.7	58.7					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-58.7	58.7	58.5	0.26	224.264		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-58.7	58.7	58.1	0.61	96.113 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	-89.77	0.2	-59.5	59.5	58.6	0.96	62.084		
400.0	400.0	397.9	397.9	0.7	0.7	175.75	1.0	-62.0	62.9	61.6	1.31	48.177		
500.0	500.0	496.6	496.5	0.8	0.8	176.84	2.2	-66.1	69.7	68.0	1.65	42.166		
600.0	599.9	594.8	594.5	1.0	1.0	178.07	3.8	-71.8	79.9	77.9	2.00	39.977		
700.0	699.7	692.4	691.8	1.2	1.2	179.25	6.0	-79.0	93.5	91.2	2.34	39.923 SF		
800.0	799.4	789.3	788.2	1.4	1.5	-179.70	8.6	-87.8	110.5	107.8	2.68	41.186		
900.0	898.9	885.2	883.5	1.7	1.7	-178.81	11.6	-98.0	130.9	127.9	3.02	43.316		
1,000.0	998.3	980.4	978.0	1.9	2.0	-178.08	15.0	-109.6	154.6	151.3	3.36	46.034		
1,100.0	1,097.4	1,077.0	1,073.7	2.2	2.2	-177.53	18.6	-121.9	180.5	176.8	3.70	48.850		
1,200.0	1,196.3	1,173.1	1,169.0	2.5	2.5	-177.13	22.2	-134.1	208.1	204.1	4.03	51.638		
1,300.0	1,295.1	1,269.0	1,264.1	2.8	2.8	-176.85	25.8	-146.3	236.5	232.1	4.37	54.096		
1,400.0	1,393.9	1,364.9	1,359.1	3.1	3.0	-176.63	29.4	-158.5	264.8	260.1	4.71	56.198		
1,500.0	1,492.7	1,460.8	1,454.1	3.4	3.3	-176.45	33.0	-170.7	293.2	288.1	5.05	58.017		
1,600.0	1,591.4	1,556.7	1,549.2	3.7	3.6	-176.30	36.6	-182.9	321.6	316.2	5.39	59.605		
1,700.0	1,690.2	1,652.6	1,644.2	4.0	3.9	-176.18	40.2	-195.1	349.9	344.2	5.74	61.005		
1,800.0	1,789.0	1,748.5	1,739.3	4.3	4.1	-176.07	43.8	-207.2	378.3	372.2	6.08	62.247		
1,900.0	1,887.8	1,844.4	1,834.3	4.6	4.4	-175.98	47.4	-219.4	406.6	400.2	6.42	63.357		
2,000.0	1,986.6	1,940.2	1,929.4	5.0	4.7	-175.90	51.0	-231.6	435.0	428.3	6.76	64.355		
2,100.0	2,085.4	2,036.1	2,024.4	5.3	5.0	-175.84	54.6	-243.8	463.4	456.3	7.10	65.256		
2,200.0	2,184.1	2,132.0	2,119.5	5.6	5.2	-175.77	58.2	-256.0	491.8	484.3	7.44	66.075		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1B-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-50.3	50.3					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-50.3	50.3	50.1	0.26	192.226		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-50.3	50.3	49.7	0.61	82.383		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-50.3	50.3	49.4	0.96	52.425 CC, ES		
400.0	400.0	399.1	399.1	0.7	0.7	174.78	-0.1	-51.2	52.1	50.7	1.31	39.816		
500.0	500.0	498.0	498.0	0.8	0.8	174.71	-0.4	-53.7	57.2	55.6	1.65	34.601		
600.0	599.9	596.6	596.5	1.0	1.0	174.62	-0.9	-57.9	65.9	63.9	2.00	32.931 SF		
700.0	699.7	694.7	694.3	1.2	1.2	174.52	-1.6	-63.8	77.9	75.6	2.34	33.236		
800.0	799.4	792.0	791.4	1.4	1.4	174.43	-2.5	-71.3	93.3	90.7	2.69	34.752		
900.0	898.9	888.5	887.5	1.7	1.6	174.35	-3.5	-80.3	112.2	109.1	3.03	37.068		
1,000.0	998.3	984.0	982.4	1.9	1.9	174.29	-4.8	-90.8	134.3	130.9	3.36	39.938		
1,100.0	1,097.4	1,080.1	1,077.7	2.2	2.1	174.24	-6.2	-102.6	159.4	155.7	3.70	43.080		
1,200.0	1,196.3	1,176.4	1,173.3	2.5	2.4	174.26	-7.6	-114.5	186.2	182.2	4.04	46.137		
1,300.0	1,295.1	1,272.5	1,268.7	2.8	2.6	174.31	-9.0	-126.4	213.8	209.4	4.38	48.830		
1,400.0	1,393.9	1,368.6	1,364.0	3.1	2.9	174.35	-10.4	-138.3	241.3	236.6	4.72	51.132		
1,500.0	1,492.7	1,464.8	1,459.4	3.4	3.1	174.38	-11.8	-150.1	268.9	263.8	5.06	53.123		
1,600.0	1,591.4	1,560.9	1,554.8	3.7	3.4	174.40	-13.2	-162.0	296.5	291.0	5.40	54.861		
1,700.0	1,690.2	1,657.0	1,650.2	4.0	3.7	174.42	-14.6	-173.9	324.0	318.3	5.75	56.392		
1,800.0	1,789.0	1,753.1	1,745.6	4.3	3.9	174.44	-16.0	-185.7	351.6	345.5	6.09	57.751		
1,900.0	1,887.8	1,849.3	1,840.9	4.6	4.2	174.46	-17.4	-197.6	379.1	372.7	6.43	58.965		
2,000.0	1,986.6	1,945.4	1,936.3	5.0	4.4	174.47	-18.8	-209.5	406.7	399.9	6.77	60.056		
2,100.0	2,085.4	2,041.5	2,031.7	5.3	4.7	174.48	-20.2	-221.4	434.3	427.2	7.11	61.042		
2,200.0	2,184.1	2,137.6	2,127.1	5.6	5.0	174.49	-21.6	-233.2	461.8	454.4	7.46	61.937		
2,300.0	2,282.9	2,233.8	2,222.5	5.9	5.2	174.50	-23.0	-245.1	489.4	481.6	7.80	62.754		

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<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1C-14H-G268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-39.1	39.1						
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-39.1	39.1	38.9	0.26	149.509			
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-39.1	39.1	38.5	0.61	64.075			
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-39.1	39.1	38.2	0.96	40.775 CC, ES			
400.0	400.0	400.0	400.0	0.7	0.7	174.91	0.0	-39.1	40.0	38.7	1.31	30.569			
500.0	500.0	499.2	499.2	0.8	0.8	174.89	-0.2	-40.0	43.4	41.8	1.66	26.232			
600.0	599.9	598.2	598.2	1.0	1.0	174.48	-1.0	-42.4	50.3	48.3	2.00	25.101 SF			
700.0	699.7	697.6	697.5	1.2	1.2	174.02	-2.0	-46.0	60.0	57.6	2.35	25.518			
800.0	799.4	796.9	796.7	1.4	1.4	173.83	-3.1	-49.6	71.4	68.7	2.70	26.486			
900.0	898.9	896.1	895.8	1.7	1.5	173.82	-4.2	-53.3	84.6	81.5	3.04	27.809			
1,000.0	998.3	994.9	994.6	1.9	1.7	173.92	-5.3	-56.9	99.5	96.1	3.39	29.380			
1,100.0	1,097.4	1,093.6	1,093.2	2.2	1.9	174.07	-6.3	-60.5	116.1	112.3	3.73	31.133			
1,200.0	1,196.3	1,191.9	1,191.4	2.5	2.1	174.26	-7.4	-64.0	134.4	130.3	4.07	33.020			
1,300.0	1,295.1	1,290.0	1,289.5	2.8	2.3	174.45	-8.5	-67.6	153.5	149.0	4.42	34.746			
1,400.0	1,393.9	1,388.2	1,387.6	3.1	2.5	174.59	-9.5	-71.2	172.5	167.8	4.76	36.221			
1,500.0	1,492.7	1,486.4	1,485.7	3.4	2.6	174.71	-10.6	-74.8	191.6	186.5	5.11	37.496			
1,600.0	1,591.4	1,584.5	1,583.8	3.7	2.8	174.80	-11.7	-78.4	210.7	205.2	5.46	38.610			
1,700.0	1,690.2	1,682.7	1,681.9	4.0	3.0	174.88	-12.7	-81.9	229.7	223.9	5.80	39.590			
1,800.0	1,789.0	1,780.8	1,779.9	4.3	3.2	174.95	-13.8	-85.5	248.8	242.7	6.15	40.461			
1,900.0	1,887.8	1,879.0	1,878.0	4.6	3.4	175.01	-14.9	-89.1	267.9	261.4	6.50	41.238			
2,000.0	1,986.6	1,977.2	1,976.1	5.0	3.6	175.06	-15.9	-92.7	287.0	280.1	6.84	41.937			
2,100.0	2,085.4	2,075.3	2,074.2	5.3	3.7	175.10	-17.0	-96.3	306.1	298.9	7.19	42.568			
2,200.0	2,184.1	2,173.5	2,172.3	5.6	3.9	175.14	-18.1	-99.8	325.1	317.6	7.54	43.141			
2,300.0	2,282.9	2,271.7	2,270.4	5.9	4.1	175.17	-19.1	-103.4	344.2	336.3	7.88	43.664			
2,400.0	2,381.7	2,369.8	2,368.5	6.2	4.3	175.20	-20.2	-107.0	363.3	355.0	8.23	44.143			
2,500.0	2,480.5	2,468.0	2,466.6	6.6	4.5	175.23	-21.3	-110.6	382.4	373.8	8.58	44.583			
2,600.0	2,579.3	2,566.1	2,564.7	6.9	4.7	175.26	-22.3	-114.2	401.4	392.5	8.92	44.989			
2,700.0	2,678.1	2,664.3	2,662.8	7.2	4.8	175.28	-23.4	-117.7	420.5	411.2	9.27	45.365			
2,800.0	2,776.9	2,762.5	2,760.9	7.5	5.0	175.30	-24.5	-121.3	439.6	430.0	9.62	45.714			
2,900.0	2,875.6	2,860.6	2,859.0	7.9	5.2	175.32	-25.5	-124.9	458.7	448.7	9.96	46.038			
3,000.0	2,974.4	2,958.8	2,957.1	8.2	5.4	175.33	-26.6	-128.5	477.7	467.4	10.31	46.341			
3,100.0	3,073.2	3,057.0	3,055.1	8.5	5.6	175.35	-27.7	-132.1	496.8	486.2	10.66	46.623			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1D-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-30.8	30.8					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-30.8	30.8	30.5	0.26	117.472		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-30.8	30.8	30.1	0.61	50.345		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-30.8	30.8	29.8	0.96	32.038 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	174.94	0.0	-30.8	31.6	30.3	1.31	24.161		
500.0	500.0	500.0	500.0	0.8	0.8	175.33	0.0	-30.8	34.2	32.6	1.66	20.653		
600.0	599.9	599.9	599.9	1.0	1.0	175.85	0.0	-30.8	38.6	36.6	2.01	19.237		
700.0	699.7	699.7	699.7	1.2	1.2	176.41	0.0	-30.8	44.7	42.3	2.35	18.986 SF		
800.0	799.4	799.4	799.4	1.4	1.4	176.95	0.0	-30.8	52.5	49.8	2.70	19.450		
900.0	898.9	898.9	898.9	1.7	1.5	177.41	0.0	-30.8	62.1	59.0	3.04	20.388		
1,000.0	998.3	998.3	998.3	1.9	1.7	177.81	0.0	-30.8	73.4	70.0	3.39	21.655		
1,100.0	1,097.4	1,097.4	1,097.4	2.2	1.9	178.13	0.0	-30.8	86.4	82.7	3.73	23.162		
1,200.0	1,196.3	1,196.3	1,196.3	2.5	2.0	178.40	0.0	-30.8	101.2	97.1	4.07	24.846		
1,300.0	1,295.1	1,295.1	1,295.1	2.8	2.2	178.62	0.0	-30.8	116.7	112.3	4.42	26.415		
1,400.0	1,393.9	1,393.9	1,393.9	3.1	2.4	178.78	0.0	-30.8	132.3	127.5	4.77	27.756		
1,500.0	1,492.7	1,492.7	1,492.7	3.4	2.6	178.91	0.0	-30.8	147.8	142.7	5.11	28.916		
1,600.0	1,591.4	1,591.4	1,591.4	3.7	2.7	179.01	0.0	-30.8	163.4	157.9	5.46	29.929		
1,700.0	1,690.2	1,690.2	1,690.2	4.0	2.9	179.10	0.0	-30.8	178.9	173.1	5.80	30.822		
1,800.0	1,789.0	1,789.0	1,789.0	4.3	3.1	179.17	0.0	-30.8	194.5	188.3	6.15	31.614		
1,900.0	1,887.8	1,887.8	1,887.8	4.6	3.3	179.23	0.0	-30.8	210.0	203.5	6.50	32.321		
2,000.0	1,986.6	1,986.6	1,986.6	5.0	3.4	179.28	0.0	-30.8	225.5	218.7	6.84	32.958		
2,100.0	2,085.4	2,085.4	2,085.4	5.3	3.6	179.33	0.0	-30.8	241.1	233.9	7.19	33.533		
2,200.0	2,184.1	2,184.1	2,184.1	5.6	3.8	179.37	0.0	-30.8	256.6	249.1	7.54	34.055		
2,300.0	2,282.9	2,282.9	2,282.9	5.9	3.9	179.41	0.0	-30.8	272.2	264.3	7.88	34.532		
2,400.0	2,381.7	2,381.7	2,381.7	6.2	4.1	179.44	0.0	-30.8	287.7	279.5	8.23	34.968		
2,500.0	2,480.5	2,480.5	2,480.5	6.6	4.3	179.47	0.0	-30.8	303.3	294.7	8.57	35.370		
2,600.0	2,579.3	2,579.3	2,579.3	6.9	4.5	179.49	0.0	-30.8	318.8	309.9	8.92	35.740		
2,700.0	2,678.1	2,678.1	2,678.1	7.2	4.6	179.52	0.0	-30.8	334.4	325.1	9.27	36.082		
2,800.0	2,776.9	2,776.9	2,776.9	7.5	4.8	179.54	0.0	-30.8	349.9	340.3	9.61	36.400		
2,900.0	2,875.6	2,875.6	2,875.6	7.9	5.0	179.56	0.0	-30.8	365.5	355.5	9.96	36.696		
3,000.0	2,974.4	2,974.4	2,974.4	8.2	5.1	179.58	0.0	-30.8	381.0	370.7	10.31	36.972		
3,100.0	3,073.2	3,070.0	3,070.0	8.5	5.3	179.54	-0.3	-31.1	396.8	386.2	10.65	37.277		
3,200.0	3,172.0	3,164.2	3,164.1	8.8	5.5	179.36	-1.6	-32.4	413.7	402.7	10.98	37.665		
3,300.0	3,270.8	3,260.7	3,260.6	9.1	5.6	179.05	-3.9	-34.8	431.5	420.2	11.33	38.093		
3,400.0	3,369.6	3,359.0	3,358.9	9.5	5.8	178.74	-6.3	-37.3	449.4	437.7	11.67	38.493		
3,500.0	3,468.3	3,457.4	3,457.2	9.8	6.0	178.46	-8.8	-39.8	467.3	455.2	12.02	38.869		
3,600.0	3,567.1	3,555.7	3,555.5	10.1	6.2	178.20	-11.2	-42.3	485.2	472.8	12.37	39.223		

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<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1E-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.01	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.1	0.1	-90.01	0.0	-19.6	19.6	19.3	0.26	74.755		
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	0.0	-19.6	19.6	19.0	0.61	32.038		
300.0	300.0	300.0	300.0	0.5	0.5	-90.01	0.0	-19.6	19.6	18.6	0.96	20.388	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	175.01	0.0	-19.6	20.4	19.1	1.31	15.616		
500.0	500.0	500.0	500.0	0.8	0.8	175.57	0.0	-19.6	23.0	21.4	1.66	13.906		
600.0	599.9	600.3	600.3	1.0	1.0	175.85	-0.2	-18.7	26.5	24.5	2.01	13.232		
700.0	699.7	700.7	700.7	1.2	1.2	175.50	-0.9	-16.2	30.1	27.7	2.36	12.775		
800.0	799.4	801.2	801.1	1.4	1.4	174.74	-2.0	-11.9	33.7	31.0	2.70	12.449		
900.0	898.9	901.2	900.9	1.7	1.6	173.94	-3.4	-6.6	37.9	34.8	3.05	12.404	SF	
1,000.0	998.3	1,001.0	1,000.6	1.9	1.7	173.55	-4.8	-1.2	43.8	40.4	3.40	12.872		
1,100.0	1,097.4	1,100.8	1,100.2	2.2	1.9	173.47	-6.2	4.2	51.4	47.7	3.75	13.718		
1,200.0	1,196.3	1,200.3	1,199.6	2.5	2.1	173.60	-7.6	9.5	60.8	56.7	4.10	14.844		
1,300.0	1,295.1	1,299.8	1,298.9	2.8	2.3	173.78	-9.0	14.9	70.9	66.5	4.45	15.951		
1,400.0	1,393.9	1,399.3	1,398.2	3.1	2.5	173.91	-10.4	20.2	81.1	76.3	4.80	16.896		
1,500.0	1,492.7	1,498.8	1,497.5	3.4	2.7	174.01	-11.8	25.6	91.2	86.1	5.15	17.712		
1,600.0	1,591.4	1,598.3	1,596.9	3.7	2.9	174.09	-13.2	31.0	101.4	95.9	5.50	18.424		
1,700.0	1,690.2	1,697.7	1,696.2	4.0	3.1	174.15	-14.7	36.3	111.5	105.7	5.85	19.050		
1,800.0	1,789.0	1,797.2	1,795.5	4.3	3.3	174.21	-16.1	41.7	121.7	115.5	6.21	19.606		
1,900.0	1,887.8	1,896.7	1,894.9	4.6	3.5	174.25	-17.5	47.0	131.8	125.2	6.56	20.101		
2,000.0	1,986.6	1,996.2	1,994.2	5.0	3.7	174.29	-18.9	52.4	141.9	135.0	6.91	20.547		
2,100.0	2,085.4	2,095.7	2,093.5	5.3	3.9	174.33	-20.3	57.7	152.1	144.8	7.26	20.949		
2,200.0	2,184.1	2,195.2	2,192.9	5.6	4.1	174.36	-21.7	63.1	162.2	154.6	7.61	21.314		
2,300.0	2,282.9	2,294.6	2,292.2	5.9	4.3	174.38	-23.1	68.4	172.4	164.4	7.96	21.647		
2,400.0	2,381.7	2,394.1	2,391.5	6.2	4.5	174.41	-24.5	73.8	182.5	174.2	8.31	21.951		
2,500.0	2,480.5	2,493.6	2,490.9	6.6	4.7	174.43	-25.9	79.1	192.7	184.0	8.67	22.231		
2,600.0	2,579.3	2,593.1	2,590.2	6.9	4.9	174.45	-27.3	84.5	202.8	193.8	9.02	22.489		
2,700.0	2,678.1	2,692.6	2,689.5	7.2	5.1	174.47	-28.7	89.9	212.9	203.6	9.37	22.728		
2,800.0	2,776.9	2,792.1	2,788.8	7.5	5.3	174.48	-30.1	95.2	223.1	213.4	9.72	22.949		
2,900.0	2,875.6	2,891.5	2,888.2	7.9	5.5	174.50	-31.5	100.6	233.2	223.1	10.07	23.155		
3,000.0	2,974.4	2,991.0	2,987.5	8.2	5.7	174.51	-32.9	105.9	243.4	232.9	10.42	23.347		
3,100.0	3,073.2	3,090.5	3,086.8	8.5	5.9	174.52	-34.3	111.3	253.5	242.7	10.78	23.527		
3,200.0	3,172.0	3,190.0	3,186.2	8.8	6.1	174.53	-35.7	116.6	263.6	252.5	11.13	23.695		
3,300.0	3,270.8	3,289.5	3,285.5	9.1	6.3	174.54	-37.1	122.0	273.8	262.3	11.48	23.853		
3,400.0	3,369.6	3,389.0	3,384.8	9.5	6.5	174.55	-38.5	127.3	283.9	272.1	11.83	24.001		
3,500.0	3,468.3	3,488.5	3,484.2	9.8	6.7	174.56	-39.9	132.7	294.1	281.9	12.18	24.141		
3,600.0	3,567.1	3,587.9	3,583.5	10.1	6.9	174.57	-41.3	138.0	304.2	291.7	12.53	24.273		
3,700.0	3,665.9	3,687.4	3,682.8	10.4	7.1	174.58	-42.7	143.4	314.4	301.5	12.88	24.398		
3,800.0	3,764.7	3,786.9	3,782.1	10.8	7.3	174.58	-44.1	148.7	324.5	311.3	13.24	24.516		
3,900.0	3,863.5	3,886.4	3,881.5	11.1	7.5	174.59	-45.5	154.1	334.6	321.1	13.59	24.628		
4,000.0	3,962.3	3,985.9	3,980.8	11.4	7.7	174.60	-46.9	159.5	344.8	330.8	13.94	24.735		
4,100.0	4,061.0	4,085.4	4,080.1	11.7	7.9	174.60	-48.3	164.8	354.9	340.6	14.29	24.836		
4,200.0	4,159.8	4,184.8	4,179.5	12.1	8.0	174.61	-49.7	170.2	365.1	350.4	14.64	24.932		
4,300.0	4,258.6	4,284.3	4,278.8	12.4	8.2	174.61	-51.1	175.5	375.2	360.2	14.99	25.024		
4,400.0	4,357.4	4,383.8	4,378.1	12.7	8.4	174.62	-52.6	180.9	385.4	370.0	15.35	25.111		
4,500.0	4,456.2	4,483.3	4,477.5	13.0	8.6	174.62	-54.0	186.2	395.5	379.8	15.70	25.195		
4,600.0	4,555.0	4,582.8	4,576.8	13.4	8.8	174.63	-55.4	191.6	405.6	389.6	16.05	25.275		
4,700.0	4,653.8	4,682.3	4,676.1	13.7	9.0	174.63	-56.8	196.9	415.8	399.4	16.40	25.352		
4,800.0	4,752.5	4,781.7	4,775.4	14.0	9.2	174.64	-58.2	202.3	425.9	409.2	16.75	25.425		
4,900.0	4,851.3	4,881.2	4,874.8	14.3	9.4	174.64	-59.6	207.6	436.1	419.0	17.10	25.495		
5,000.0	4,950.1	4,980.7	4,974.1	14.7	9.6	174.65	-61.0	213.0	446.2	428.8	17.46	25.563		
5,100.0	5,048.9	5,080.2	5,073.4	15.0	9.8	174.65	-62.4	218.3	456.4	438.5	17.81	25.628		

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1E-14H-G268 - Hz - Plan #1													<b>Offset Site Error:</b> 0.0 ft
Survey Program: 0-Geolink MWD													<b>Offset Well Error:</b> 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	5,147.7	5,179.7	5,172.8	15.3	10.0	174.65	-63.8	223.7	466.5	448.3	18.16	25.690	
5,300.0	5,246.5	5,279.2	5,272.1	15.6	10.2	174.66	-65.2	229.1	476.6	458.1	18.51	25.750	
5,400.0	5,345.2	5,378.7	5,371.4	16.0	10.4	174.66	-66.6	234.4	486.8	467.9	18.86	25.808	
5,500.0	5,444.0	5,478.1	5,470.8	16.3	10.6	174.66	-68.0	239.8	496.9	477.7	19.21	25.863	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1F-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-90.02	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	-90.02	0.0	-11.2	11.2	10.9	0.26	42.717		
200.0	200.0	200.0	200.0	0.3	0.3	-90.02	0.0	-11.2	11.2	10.6	0.61	18.307		
300.0	300.0	300.0	300.0	0.5	0.5	-90.02	0.0	-11.2	11.2	10.2	0.96	11.650	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	175.16	0.0	-11.2	12.1	10.7	1.31	9.208		
500.0	500.0	500.2	500.2	0.8	0.8	175.57	-0.1	-10.3	13.8	12.1	1.66	8.321		
600.0	599.9	600.4	600.4	1.0	1.0	175.53	-0.5	-7.7	15.5	13.5	2.01	7.746		
700.0	699.7	700.7	700.6	1.2	1.2	175.17	-1.2	-3.4	17.3	14.9	2.36	7.345		
800.0	799.4	801.0	800.7	1.4	1.4	174.59	-2.0	2.7	19.1	16.4	2.70	7.048		
900.0	898.9	901.3	900.7	1.7	1.6	173.84	-3.2	10.5	20.8	17.8	3.05	6.822		
1,000.0	998.3	1,001.6	1,000.5	1.9	1.8	173.00	-4.6	19.9	22.7	19.3	3.41	6.670		
1,100.0	1,097.4	1,101.5	1,099.9	2.2	2.0	172.65	-6.0	29.7	25.9	22.2	3.76	6.907		
1,200.0	1,196.3	1,201.4	1,199.3	2.5	2.3	172.80	-7.5	39.5	30.9	26.8	4.10	7.525		
1,300.0	1,295.1	1,301.2	1,298.7	2.8	2.5	173.06	-8.9	49.3	36.6	32.2	4.46	8.213		
1,400.0	1,393.9	1,401.1	1,398.0	3.1	2.7	173.25	-10.4	59.1	42.3	37.5	4.81	8.800		
1,500.0	1,492.7	1,500.9	1,497.3	3.4	3.0	173.40	-11.8	68.9	48.1	42.9	5.16	9.306		
1,600.0	1,591.4	1,600.7	1,596.7	3.7	3.2	173.52	-13.2	78.7	53.8	48.3	5.52	9.748		
1,700.0	1,690.2	1,700.6	1,696.0	4.0	3.5	173.61	-14.7	88.4	59.5	53.6	5.87	10.136		
1,800.0	1,789.0	1,800.4	1,795.4	4.3	3.7	173.68	-16.1	98.2	65.2	59.0	6.22	10.481		
1,900.0	1,887.8	1,900.2	1,894.7	4.6	3.9	173.75	-17.6	108.0	71.0	64.4	6.58	10.788		
2,000.0	1,986.6	2,000.1	1,994.1	5.0	4.2	173.80	-19.0	117.8	76.7	69.7	6.93	11.065		
2,100.0	2,085.4	2,099.9	2,093.4	5.3	4.4	173.85	-20.5	127.6	82.4	75.1	7.28	11.314		
2,200.0	2,184.1	2,199.8	2,192.8	5.6	4.7	173.89	-21.9	137.4	88.1	80.5	7.64	11.540		
2,300.0	2,282.9	2,299.6	2,292.1	5.9	4.9	173.93	-23.3	147.2	93.8	85.9	7.99	11.746		
2,400.0	2,381.7	2,399.4	2,391.5	6.2	5.2	173.96	-24.8	156.9	99.6	91.2	8.34	11.935		
2,500.0	2,480.5	2,499.3	2,490.8	6.6	5.4	173.99	-26.2	166.7	105.3	96.6	8.70	12.109		
2,600.0	2,579.3	2,599.1	2,590.1	6.9	5.6	174.01	-27.7	176.5	111.0	102.0	9.05	12.269		
2,700.0	2,678.1	2,698.9	2,689.5	7.2	5.9	174.04	-29.1	186.3	116.7	107.3	9.40	12.417		
2,800.0	2,776.9	2,798.8	2,788.8	7.5	6.1	174.06	-30.6	196.1	122.5	112.7	9.76	12.554		
2,900.0	2,875.6	2,898.6	2,888.2	7.9	6.4	174.08	-32.0	205.9	128.2	118.1	10.11	12.681		
3,000.0	2,974.4	2,998.4	2,987.5	8.2	6.6	174.09	-33.4	215.7	133.9	123.5	10.46	12.800		
3,100.0	3,073.2	3,098.3	3,086.9	8.5	6.9	174.11	-34.9	225.4	139.6	128.8	10.82	12.912		
3,200.0	3,172.0	3,198.1	3,186.2	8.8	7.1	174.12	-36.3	235.2	145.4	134.2	11.17	13.016		
3,300.0	3,270.8	3,297.9	3,285.6	9.1	7.3	174.14	-37.8	245.0	151.1	139.6	11.52	13.113		
3,400.0	3,369.6	3,397.8	3,384.9	9.5	7.6	174.15	-39.2	254.8	156.8	144.9	11.87	13.205		
3,500.0	3,468.3	3,497.6	3,484.2	9.8	7.8	174.16	-40.6	264.6	162.5	150.3	12.23	13.292		
3,600.0	3,567.1	3,597.5	3,583.6	10.1	8.1	174.17	-42.1	274.4	168.3	155.7	12.58	13.374		
3,700.0	3,665.9	3,697.3	3,682.9	10.4	8.3	174.18	-43.5	284.2	174.0	161.1	12.93	13.451		
3,800.0	3,764.7	3,797.1	3,782.3	10.8	8.6	174.19	-45.0	293.9	179.7	166.4	13.29	13.524		
3,900.0	3,863.5	3,897.0	3,881.6	11.1	8.8	174.20	-46.4	303.7	185.4	171.8	13.64	13.594		
4,000.0	3,962.3	3,996.8	3,981.0	11.4	9.1	174.21	-47.9	313.5	191.2	177.2	13.99	13.660		
4,100.0	4,061.0	4,096.6	4,080.3	11.7	9.3	174.22	-49.3	323.3	196.9	182.5	14.35	13.722		
4,200.0	4,159.8	4,196.5	4,179.7	12.1	9.6	174.22	-50.7	333.1	202.6	187.9	14.70	13.782		
4,300.0	4,258.6	4,296.3	4,279.0	12.4	9.8	174.23	-52.2	342.9	208.3	193.3	15.05	13.839		
4,400.0	4,357.4	4,396.1	4,378.4	12.7	10.0	174.24	-53.6	352.6	214.1	198.6	15.41	13.893		
4,500.0	4,456.2	4,496.0	4,477.7	13.0	10.3	174.24	-55.1	362.4	219.8	204.0	15.76	13.945		
4,600.0	4,555.0	4,595.8	4,577.0	13.4	10.5	174.25	-56.5	372.2	225.5	209.4	16.11	13.995		
4,700.0	4,653.8	4,695.7	4,676.4	13.7	10.8	174.26	-58.0	382.0	231.2	214.8	16.47	14.042		
4,800.0	4,752.5	4,795.5	4,775.7	14.0	11.0	174.26	-59.4	391.8	237.0	220.1	16.82	14.087		
4,900.0	4,851.3	4,895.3	4,875.1	14.3	11.3	174.27	-60.8	401.6	242.7	225.5	17.17	14.131		
5,000.0	4,950.1	4,995.2	4,974.4	14.7	11.5	174.27	-62.3	411.4	248.4	230.9	17.53	14.173		
5,100.0	5,048.9	5,095.0	5,073.8	15.0	11.8	174.28	-63.7	421.1	254.1	236.2	17.88	14.213		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1F-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor	
5,200.0	5,147.7	5,194.8	5,173.1	15.3	12.0	174.28	-65.2	430.9	259.8	241.6	18.23	14.251		
5,300.0	5,246.5	5,294.7	5,272.5	15.6	12.3	174.29	-66.6	440.7	265.6	247.0	18.59	14.289		
5,400.0	5,345.2	5,394.5	5,371.8	16.0	12.5	174.29	-68.1	450.5	271.3	252.4	18.94	14.324		
5,500.0	5,444.0	5,494.3	5,471.1	16.3	12.7	174.29	-69.5	460.3	277.0	257.7	19.29	14.359		
5,600.0	5,542.8	5,594.2	5,570.5	16.6	13.0	174.30	-70.9	470.1	282.7	263.1	19.65	14.392		
5,700.0	5,641.6	5,694.0	5,669.8	16.9	13.2	174.30	-72.4	479.9	288.5	268.5	20.00	14.424		
5,800.0	5,740.4	5,793.9	5,769.2	17.3	13.5	174.30	-73.8	489.6	294.2	273.8	20.35	14.455		
5,900.0	5,839.2	5,893.7	5,868.5	17.6	13.7	174.31	-75.3	499.4	299.9	279.2	20.71	14.485		
6,000.0	5,937.9	5,993.5	5,967.9	17.9	14.0	174.31	-76.7	509.2	305.6	284.6	21.06	14.514		
6,100.0	6,036.7	6,093.4	6,067.2	18.2	14.2	174.31	-78.1	519.0	311.4	290.0	21.41	14.542		
6,200.0	6,135.5	6,193.2	6,166.6	18.6	14.5	174.32	-79.6	528.8	317.1	295.3	21.77	14.569		
6,300.0	6,234.3	6,293.0	6,265.9	18.9	14.7	174.32	-81.0	538.6	322.8	300.7	22.12	14.595		
6,400.0	6,333.1	6,392.9	6,365.2	19.2	15.0	174.32	-82.5	548.4	328.5	306.1	22.47	14.620		
6,500.0	6,431.9	6,492.7	6,464.6	19.5	15.2	174.33	-83.9	558.1	334.3	311.4	22.83	14.644		
6,600.0	6,530.7	6,592.5	6,563.9	19.9	15.4	174.33	-85.4	567.9	340.0	316.8	23.18	14.668		
6,700.0	6,629.4	6,692.8	6,663.6	20.2	15.7	174.89	-83.5	577.8	345.7	322.2	23.49	14.718		
6,800.0	6,728.2	6,789.7	6,758.4	20.5	15.9	177.91	-66.3	587.3	351.8	328.1	23.68	14.856		
6,900.0	6,827.0	6,878.2	6,841.4	20.8	16.1	-176.56	-36.8	595.7	360.8	336.7	24.06	14.996		
7,000.0	6,925.4	6,959.6	6,912.7	21.1	16.3	-119.95	1.3	603.1	374.0	349.1	24.97	14.977		
7,100.0	7,021.0	7,037.4	6,975.4	21.4	16.5	-95.64	47.0	609.7	389.7	363.4	26.28	14.827		
7,200.0	7,110.9	7,112.7	7,029.6	21.7	16.7	-83.25	98.9	615.5	406.2	378.6	27.59	14.723		
7,300.0	7,192.5	7,186.0	7,075.3	22.0	17.0	-75.43	155.8	620.5	422.1	393.5	28.59	14.766		
7,400.0	7,263.1	7,257.7	7,112.8	22.4	17.4	-70.04	216.7	624.7	436.5	407.3	29.14	14.978		
7,500.0	7,320.7	7,328.2	7,142.0	22.8	17.8	-66.27	280.8	628.1	448.4	419.1	29.27	15.318		
7,600.0	7,363.4	7,400.0	7,163.4	23.3	18.3	-63.72	349.2	630.8	457.3	428.2	29.12	15.704		
7,700.0	7,390.2	7,467.2	7,175.6	23.9	18.9	-62.26	415.2	632.6	462.7	433.8	28.81	16.057		
7,800.0	7,400.0	7,538.6	7,180.0	24.5	19.5	-61.71	486.5	633.7	464.3	435.7	28.63	16.220		
7,900.0	7,400.0	7,634.9	7,180.0	25.3	20.4	-61.67	582.8	634.5	463.5	433.0	30.55	15.172		
8,000.0	7,400.0	7,734.9	7,180.0	26.2	21.5	-61.61	682.8	635.4	462.8	430.0	32.79	14.114		
8,100.0	7,400.0	7,834.9	7,180.0	27.1	22.7	-61.56	782.7	636.3	462.0	426.9	35.15	13.143		
8,200.0	7,400.0	7,934.9	7,180.0	28.1	23.9	-61.51	882.7	637.1	461.2	423.6	37.62	12.262		
8,300.0	7,400.0	8,034.9	7,180.0	29.2	25.2	-61.46	982.7	638.0	460.5	420.3	40.16	11.465		
8,400.0	7,400.0	8,134.9	7,180.0	30.4	26.5	-61.41	1,082.7	638.9	459.7	416.9	42.78	10.747		
8,500.0	7,400.0	8,234.9	7,180.0	31.6	27.9	-61.36	1,182.7	639.7	458.9	413.5	45.44	10.099		
8,600.0	7,400.0	8,334.9	7,180.0	32.9	29.4	-61.30	1,282.7	640.6	458.2	410.0	48.16	9.514		
8,700.0	7,400.0	8,434.9	7,180.0	34.2	30.8	-61.25	1,382.7	641.5	457.4	406.5	50.91	8.985		
8,800.0	7,400.0	8,534.9	7,180.0	35.5	32.3	-61.20	1,482.7	642.4	456.6	403.0	53.69	8.505		
8,900.0	7,400.0	8,634.9	7,180.0	36.9	33.8	-61.15	1,582.7	643.2	455.9	399.4	56.50	8.069		
9,000.0	7,400.0	8,734.9	7,180.0	38.3	35.4	-61.09	1,682.7	644.1	455.1	395.8	59.33	7.672		
9,100.0	7,400.0	8,834.9	7,180.0	39.7	36.9	-61.04	1,782.7	645.0	454.4	392.2	62.17	7.308		
9,200.0	7,400.0	8,934.9	7,180.0	41.2	38.5	-60.99	1,882.7	645.9	453.6	388.6	65.04	6.975		
9,300.0	7,400.0	9,034.9	7,180.0	42.7	40.1	-60.93	1,982.7	646.7	452.8	384.9	67.91	6.668		
9,400.0	7,400.0	9,134.9	7,180.0	44.2	41.7	-60.88	2,082.6	647.6	452.1	381.3	70.80	6.385		
9,500.0	7,400.0	9,234.9	7,180.0	45.7	43.3	-60.82	2,182.6	648.5	451.3	377.6	73.69	6.124		
9,600.0	7,400.0	9,334.9	7,180.0	47.2	44.9	-60.77	2,282.6	649.3	450.5	373.9	76.60	5.882		
9,700.0	7,400.0	9,434.9	7,180.0	48.8	46.6	-60.72	2,382.6	650.2	449.8	370.3	79.51	5.657		
9,800.0	7,400.0	9,534.9	7,180.0	50.4	48.2	-60.66	2,482.6	651.1	449.0	366.6	82.42	5.448		
9,900.0	7,400.0	9,634.8	7,180.0	51.9	49.9	-60.61	2,582.6	652.0	448.3	362.9	85.34	5.253		
10,000.0	7,400.0	9,734.8	7,180.0	53.5	51.5	-60.55	2,682.6	652.8	447.5	359.2	88.26	5.070		
10,100.0	7,400.0	9,834.8	7,180.0	55.1	53.2	-60.50	2,782.6	653.7	446.7	355.6	91.19	4.899		
10,200.0	7,400.0	9,934.8	7,180.0	56.7	54.9	-60.44	2,882.6	654.6	446.0	351.9	94.12	4.739		
10,300.0	7,400.0	10,034.8	7,180.0	58.4	56.5	-60.39	2,982.6	655.5	445.2	348.2	97.05	4.588		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1F-14H-G268 - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,400.0	7,400.0	10,134.8	7,180.0	60.0	58.2	-60.33	3,082.6	656.3	444.5	344.5	99.98	4.446	
10,500.0	7,400.0	10,234.8	7,180.0	61.6	59.9	-60.27	3,182.6	657.2	443.7	340.8	102.91	4.312	
10,600.0	7,400.0	10,334.8	7,180.0	63.3	61.6	-60.22	3,282.6	658.1	442.9	337.1	105.84	4.185	
10,700.0	7,400.0	10,434.8	7,180.0	64.9	63.3	-60.16	3,382.5	658.9	442.2	333.4	108.78	4.065	
10,800.0	7,400.0	10,534.8	7,180.0	66.5	65.0	-60.11	3,482.5	659.8	441.4	329.7	111.71	3.952	
10,900.0	7,400.0	10,634.8	7,180.0	68.2	66.7	-60.05	3,582.5	660.7	440.7	326.0	114.64	3.844	
11,000.0	7,400.0	10,734.8	7,180.0	69.9	68.4	-59.99	3,682.5	661.6	439.9	322.4	117.57	3.742	
11,100.0	7,400.0	10,834.8	7,180.0	71.5	70.1	-59.94	3,782.5	662.4	439.2	318.7	120.50	3.644	
11,200.0	7,400.0	10,934.8	7,180.0	73.2	71.8	-59.88	3,882.5	663.3	438.4	315.0	123.43	3.552	
11,300.0	7,400.0	11,034.8	7,180.0	74.9	73.5	-59.82	3,982.5	664.2	437.7	311.3	126.36	3.464	
11,400.0	7,400.0	11,134.8	7,180.0	76.5	75.2	-59.76	4,082.5	665.1	436.9	307.6	129.28	3.379	
11,500.0	7,400.0	11,234.8	7,180.0	78.2	76.9	-59.71	4,182.5	665.9	436.1	303.9	132.21	3.299	
11,600.0	7,400.0	11,334.8	7,180.0	79.9	78.6	-59.65	4,282.5	666.8	435.4	300.3	135.13	3.222	
11,700.0	7,400.0	11,434.8	7,180.0	81.6	80.3	-59.59	4,382.5	667.7	434.6	296.6	138.05	3.149	
11,800.0	7,400.0	11,534.8	7,180.0	83.3	82.1	-59.53	4,482.5	668.5	433.9	292.9	140.96	3.078	
11,900.0	7,400.0	11,634.8	7,180.0	85.0	83.8	-59.47	4,582.5	669.4	433.1	289.3	143.88	3.010	
12,000.0	7,400.0	11,734.8	7,180.0	86.7	85.5	-59.41	4,682.4	670.3	432.4	285.6	146.79	2.946	
12,100.0	7,400.0	11,834.8	7,180.0	88.4	87.2	-59.36	4,782.4	671.2	431.6	281.9	149.70	2.883	
12,200.0	7,400.0	11,934.8	7,180.0	90.1	88.9	-59.30	4,882.4	672.0	430.9	278.3	152.60	2.824	
12,300.0	7,400.0	12,034.8	7,180.0	91.8	90.7	-59.24	4,982.4	672.9	430.1	274.6	155.51	2.766	
12,400.0	7,400.0	12,134.8	7,180.0	93.5	92.4	-59.18	5,082.4	673.8	429.4	271.0	158.41	2.711	
12,500.0	7,400.0	12,234.7	7,180.0	95.2	94.1	-59.12	5,182.4	674.7	428.6	267.3	161.30	2.657	
12,600.0	7,400.0	12,334.7	7,180.0	96.9	95.8	-59.06	5,282.4	675.5	427.9	263.7	164.20	2.606	
12,700.0	7,400.0	12,434.7	7,180.0	98.6	97.6	-59.00	5,382.4	676.4	427.1	260.0	167.09	2.556	
12,800.0	7,400.0	12,534.7	7,180.0	100.3	99.3	-58.94	5,482.4	677.3	426.4	256.4	169.98	2.509	
12,900.0	7,400.0	12,634.7	7,180.0	102.0	101.0	-58.88	5,582.4	678.1	425.6	252.8	172.86	2.462	
13,000.0	7,400.0	12,734.7	7,180.0	103.7	102.8	-58.82	5,682.4	679.0	424.9	249.2	175.74	2.418	
13,100.0	7,400.0	12,834.7	7,180.0	105.4	104.5	-58.76	5,782.4	679.9	424.2	245.5	178.62	2.375	
13,200.0	7,400.0	12,934.7	7,180.0	107.1	106.2	-58.69	5,882.4	680.8	423.4	241.9	181.49	2.333	
13,300.0	7,400.0	13,034.7	7,180.0	108.9	108.0	-58.63	5,982.3	681.6	422.7	238.3	184.36	2.293	
13,400.0	7,400.0	13,134.7	7,180.0	110.6	109.7	-58.57	6,082.3	682.5	421.9	234.7	187.23	2.254	
13,500.0	7,400.0	13,234.7	7,180.0	112.3	111.4	-58.51	6,182.3	683.4	421.2	231.1	190.09	2.216	
13,600.0	7,400.0	13,334.7	7,180.0	114.0	113.2	-58.45	6,282.3	684.3	420.4	227.5	192.95	2.179	
13,700.0	7,400.0	13,434.7	7,180.0	115.7	114.9	-58.38	6,382.3	685.1	419.7	223.9	195.80	2.143	
13,800.0	7,400.0	13,534.7	7,180.0	117.5	116.6	-58.32	6,482.3	686.0	418.9	220.3	198.65	2.109	
13,900.0	7,400.0	13,634.7	7,180.0	119.2	118.4	-58.26	6,582.3	686.9	418.2	216.7	201.49	2.075	
14,000.0	7,400.0	13,734.7	7,180.0	120.9	120.1	-58.20	6,682.3	687.7	417.5	213.1	204.34	2.043	
14,100.0	7,400.0	13,834.7	7,180.0	122.6	121.8	-58.13	6,782.3	688.6	416.7	209.5	207.17	2.011	
14,200.0	7,400.0	13,934.7	7,180.0	124.4	123.6	-58.07	6,882.3	689.5	416.0	206.0	210.01	1.981	
14,300.0	7,400.0	14,034.7	7,180.0	126.1	125.3	-58.01	6,982.3	690.4	415.2	202.4	212.83	1.951	
14,400.0	7,400.0	14,134.7	7,180.0	127.8	127.1	-57.94	7,082.3	691.2	414.5	198.8	215.66	1.922	
14,500.0	7,400.0	14,234.7	7,180.0	129.5	128.8	-57.88	7,182.3	692.1	413.8	195.3	218.48	1.894	
14,600.0	7,400.0	14,334.7	7,180.0	131.3	130.5	-57.81	7,282.2	693.0	413.0	191.7	221.29	1.866	
14,621.0	7,400.0	14,352.6	7,180.0	131.6	130.8	-57.80	7,300.2	693.1	412.9	191.0	221.84	1.861	
14,621.0	7,400.0	14,352.6	7,180.0	131.6	130.8	-57.80	7,300.2	693.1	412.9	191.0	221.84	1.861 SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1H-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	11.2	11.2	10.9	0.26	42.717		
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	11.2	11.2	10.6	0.61	18.307 CC, ES		
300.0	300.0	299.8	299.8	0.5	0.5	90.31	-0.1	12.1	12.1	11.1	0.96	12.548		
400.0	400.0	399.6	399.5	0.7	0.7	-4.50	-0.2	14.6	13.8	12.5	1.31	10.541		
500.0	500.0	499.3	499.1	0.8	0.8	-4.34	-0.5	19.0	15.5	13.9	1.66	9.372		
600.0	599.9	599.0	598.7	1.0	1.0	-4.32	-1.0	25.0	17.3	15.3	2.00	8.609		
700.0	699.7	698.7	698.0	1.2	1.3	-4.42	-1.5	32.8	19.0	16.6	2.35	8.071		
800.0	799.4	798.3	797.2	1.4	1.5	-4.61	-2.2	42.3	20.7	18.0	2.70	7.670		
900.0	898.9	897.9	896.2	1.7	1.7	-4.86	-3.0	53.5	22.4	19.4	3.05	7.360		
1,000.0	998.3	997.5	994.9	1.9	2.0	-5.16	-3.9	66.5	24.2	20.8	3.40	7.111		
1,100.0	1,097.4	1,097.0	1,093.4	2.2	2.3	-5.50	-4.9	81.1	25.9	22.1	3.75	6.907		
1,200.0	1,196.3	1,196.6	1,191.5	2.5	2.6	-5.88	-6.0	97.4	27.6	23.5	4.10	6.736		
1,300.0	1,295.1	1,296.0	1,289.4	2.8	3.0	-6.08	-7.3	115.4	30.3	25.8	4.45	6.800		
1,400.0	1,393.9	1,395.4	1,386.7	3.1	3.4	-6.00	-8.7	135.1	34.7	29.9	4.80	7.216		
1,500.0	1,492.7	1,495.1	1,484.2	3.4	3.8	-5.79	-10.1	156.1	40.3	35.1	5.16	7.813		
1,600.0	1,591.4	1,594.9	1,581.8	3.7	4.2	-5.63	-11.6	177.1	46.0	40.5	5.51	8.342		
1,700.0	1,690.2	1,694.7	1,679.4	4.0	4.6	-5.51	-13.1	198.1	51.6	45.8	5.86	8.808		
1,800.0	1,789.0	1,794.6	1,776.9	4.3	5.0	-5.41	-14.5	219.2	57.3	51.1	6.22	9.221		
1,900.0	1,887.8	1,894.4	1,874.5	4.6	5.4	-5.32	-16.0	240.2	63.0	56.4	6.57	9.589		
2,000.0	1,986.6	1,994.3	1,972.1	5.0	5.8	-5.25	-17.5	261.2	68.7	61.7	6.92	9.920		
2,100.0	2,085.4	2,094.1	2,069.7	5.3	6.2	-5.19	-18.9	282.3	74.3	67.1	7.28	10.219		
2,200.0	2,184.1	2,193.9	2,167.3	5.6	6.6	-5.14	-20.4	303.3	80.0	72.4	7.63	10.490		
2,300.0	2,282.9	2,293.8	2,264.9	5.9	7.0	-5.10	-21.9	324.3	85.7	77.7	7.98	10.737		
2,400.0	2,381.7	2,393.6	2,362.5	6.2	7.4	-5.06	-23.3	345.3	91.4	83.0	8.33	10.963		
2,500.0	2,480.5	2,493.5	2,460.1	6.6	7.8	-5.03	-24.8	366.4	97.0	88.4	8.69	11.171		
2,600.0	2,579.3	2,593.3	2,557.6	6.9	8.2	-5.00	-26.3	387.4	102.7	93.7	9.04	11.363		
2,700.0	2,678.1	2,693.1	2,655.2	7.2	8.6	-4.97	-27.7	408.4	108.4	99.0	9.39	11.540		
2,800.0	2,776.9	2,793.0	2,752.8	7.5	9.0	-4.95	-29.2	429.5	114.1	104.3	9.75	11.705		
2,900.0	2,875.6	2,892.8	2,850.4	7.9	9.4	-4.92	-30.7	450.5	119.7	109.6	10.10	11.858		
3,000.0	2,974.4	2,992.6	2,948.0	8.2	9.9	-4.90	-32.2	471.5	125.4	115.0	10.45	12.001		
3,100.0	3,073.2	3,092.5	3,045.6	8.5	10.3	-4.89	-33.6	492.6	131.1	120.3	10.80	12.134		
3,200.0	3,172.0	3,192.3	3,143.2	8.8	10.7	-4.87	-35.1	513.6	136.8	125.6	11.16	12.259		
3,300.0	3,270.8	3,292.2	3,240.8	9.1	11.1	-4.85	-36.6	534.6	142.4	130.9	11.51	12.376		
3,400.0	3,369.6	3,392.0	3,338.3	9.5	11.5	-4.84	-38.0	555.6	148.1	136.3	11.86	12.487		
3,500.0	3,468.3	3,491.8	3,435.9	9.8	11.9	-4.83	-39.5	576.7	153.8	141.6	12.22	12.591		
3,600.0	3,567.1	3,591.7	3,533.5	10.1	12.3	-4.81	-41.0	597.7	159.5	146.9	12.57	12.689		
3,700.0	3,665.9	3,691.5	3,631.1	10.4	12.7	-4.80	-42.4	618.7	165.2	152.2	12.92	12.782		
3,800.0	3,764.7	3,791.4	3,728.7	10.8	13.2	-4.79	-43.9	639.8	170.8	157.6	13.27	12.870		
3,900.0	3,863.5	3,891.2	3,826.3	11.1	13.6	-4.78	-45.4	660.8	176.5	162.9	13.63	12.953		
4,000.0	3,962.3	3,991.0	3,923.9	11.4	14.0	-4.77	-46.8	681.8	182.2	168.2	13.98	13.032		
4,100.0	4,061.0	4,090.9	4,021.5	11.7	14.4	-4.76	-48.3	702.9	187.9	173.5	14.33	13.107		
4,200.0	4,159.8	4,190.7	4,119.0	12.1	14.8	-4.76	-49.8	723.9	193.5	178.8	14.68	13.179		
4,300.0	4,258.6	4,290.6	4,216.6	12.4	15.2	-4.75	-51.2	744.9	199.2	184.2	15.04	13.247		
4,400.0	4,357.4	4,390.4	4,314.2	12.7	15.6	-4.74	-52.7	765.9	204.9	189.5	15.39	13.312		
4,500.0	4,456.2	4,490.2	4,411.8	13.0	16.0	-4.73	-54.2	787.0	210.6	194.8	15.74	13.375		
4,600.0	4,555.0	4,590.1	4,509.4	13.4	16.5	-4.73	-55.7	808.0	216.2	200.1	16.10	13.434		
4,700.0	4,653.8	4,689.9	4,607.0	13.7	16.9	-4.72	-57.1	829.0	221.9	205.5	16.45	13.491		
4,800.0	4,752.5	4,789.7	4,704.6	14.0	17.3	-4.72	-58.6	850.1	227.6	210.8	16.80	13.546		
4,900.0	4,851.3	4,889.6	4,802.2	14.3	17.7	-4.71	-60.1	871.1	233.3	216.1	17.15	13.598		
5,000.0	4,950.1	4,989.4	4,899.7	14.7	18.1	-4.70	-61.5	892.1	238.9	221.4	17.51	13.648		
5,100.0	5,048.9	5,089.3	4,997.3	15.0	18.5	-4.70	-63.0	913.1	244.6	226.8	17.86	13.696		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1H-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,200.0	5,147.7	5,189.1	5,094.9	15.3	18.9	-4.69	-64.5	934.2	250.3	232.1	18.21	13.743		
5,300.0	5,246.5	5,288.9	5,192.5	15.6	19.4	-4.69	-65.9	955.2	256.0	237.4	18.57	13.787		
5,400.0	5,345.2	5,388.8	5,290.1	16.0	19.8	-4.69	-67.4	976.2	261.6	242.7	18.92	13.830		
5,500.0	5,444.0	5,488.6	5,387.7	16.3	20.2	-4.68	-68.9	997.3	267.3	248.0	19.27	13.871		
5,600.0	5,542.8	5,588.5	5,485.3	16.6	20.6	-4.68	-70.3	1,018.3	273.0	253.4	19.62	13.911		
5,700.0	5,641.6	5,688.3	5,582.9	16.9	21.0	-4.67	-71.8	1,039.3	278.7	258.7	19.98	13.950		
5,800.0	5,740.4	5,788.1	5,680.5	17.3	21.4	-4.67	-73.3	1,060.4	284.3	264.0	20.33	13.987		
5,900.0	5,839.2	5,888.0	5,778.0	17.6	21.8	-4.67	-74.7	1,081.4	290.0	269.3	20.68	14.023		
6,000.0	5,937.9	5,987.8	5,875.6	17.9	22.2	-4.66	-76.2	1,102.4	295.7	274.7	21.03	14.058		
6,100.0	6,036.7	6,087.7	5,973.2	18.2	22.7	-4.66	-77.7	1,123.4	301.4	280.0	21.39	14.091		
6,200.0	6,135.5	6,187.5	6,070.8	18.6	23.1	-4.66	-79.2	1,144.5	307.0	285.3	21.74	14.123		
6,300.0	6,234.3	6,287.3	6,168.4	18.9	23.5	-4.65	-80.6	1,165.5	312.7	290.6	22.09	14.155		
6,400.0	6,333.1	6,387.2	6,266.0	19.2	23.9	-4.65	-82.1	1,186.5	318.4	296.0	22.45	14.185		
6,500.0	6,431.9	6,487.0	6,363.6	19.5	24.3	-4.65	-83.6	1,207.6	324.1	301.3	22.80	14.215		
6,600.0	6,530.7	6,586.8	6,461.2	19.9	24.7	-4.64	-85.0	1,228.6	329.7	306.6	23.15	14.243		
6,700.0	6,629.4	6,686.7	6,558.7	20.2	25.1	-4.64	-86.5	1,249.6	335.4	311.9	23.50	14.271		
6,800.0	6,728.2	6,786.6	6,656.4	20.5	25.6	-4.95	-86.1	1,270.7	341.1	317.2	23.87	14.287		
6,900.0	6,827.0	6,884.0	6,750.4	20.8	25.9	-6.93	-71.6	1,290.9	347.1	322.7	24.44	14.200		
7,000.0	6,925.4	6,976.5	6,836.3	21.1	26.3	39.12	-42.9	1,309.4	354.6	329.4	25.25	14.042		
7,100.0	7,021.0	7,065.9	6,914.0	21.4	26.6	53.96	-2.0	1,326.2	363.2	337.3	25.91	14.016		
7,200.0	7,110.9	7,150.0	6,980.5	21.7	26.9	58.19	47.2	1,340.5	372.2	346.1	26.12	14.248		
7,300.0	7,192.5	7,237.6	7,041.6	22.0	27.2	59.02	108.5	1,353.7	381.0	355.1	25.96	14.679		
7,400.0	7,263.1	7,320.8	7,090.5	22.4	27.6	58.81	174.8	1,364.2	389.1	363.6	25.54	15.236		
7,500.0	7,320.7	7,400.0	7,127.8	22.8	27.9	58.29	244.1	1,372.3	396.0	370.8	25.25	15.683		
7,600.0	7,363.4	7,483.7	7,156.8	23.3	28.4	57.71	322.3	1,378.5	401.2	375.6	25.60	15.670		
7,700.0	7,390.2	7,564.1	7,173.8	23.9	28.8	57.33	400.7	1,382.2	404.5	377.6	26.98	14.994		
7,800.0	7,400.0	7,644.1	7,180.0	24.5	29.2	57.17	480.5	1,383.5	405.8	376.3	29.50	13.754		
7,900.0	7,400.0	7,742.8	7,180.0	25.3	29.9	57.17	579.2	1,383.5	405.8	374.3	31.48	12.891		
8,000.0	7,400.0	7,842.8	7,180.0	26.2	30.6	57.17	679.2	1,383.5	405.8	372.3	33.51	12.110		
8,100.0	7,400.0	7,942.8	7,180.0	27.1	31.4	57.17	779.2	1,383.5	405.8	370.1	35.67	11.377		
8,200.0	7,400.0	8,042.8	7,180.0	28.1	32.3	57.17	879.2	1,383.5	405.8	367.9	37.94	10.697		
8,300.0	7,400.0	8,142.8	7,180.0	29.2	33.2	57.17	979.2	1,383.5	405.8	365.5	40.29	10.071		
8,400.0	7,400.0	8,242.8	7,180.0	30.4	34.2	57.17	1,079.2	1,383.5	405.8	363.1	42.73	9.498		
8,500.0	7,400.0	8,342.8	7,180.0	31.6	35.3	57.17	1,179.2	1,383.5	405.8	360.6	45.22	8.974		
8,600.0	7,400.0	8,442.8	7,180.0	32.9	36.4	57.17	1,279.2	1,383.5	405.8	358.0	47.77	8.496		
8,700.0	7,400.0	8,542.8	7,180.0	34.2	37.6	57.17	1,379.2	1,383.5	405.8	355.4	50.36	8.059		
8,800.0	7,400.0	8,642.8	7,180.0	35.5	38.8	57.17	1,479.2	1,383.5	405.8	352.8	52.99	7.659		
8,900.0	7,400.0	8,742.8	7,180.0	36.9	40.1	57.17	1,579.2	1,383.5	405.8	350.2	55.65	7.292		
9,000.0	7,400.0	8,842.8	7,180.0	38.3	41.4	57.17	1,679.2	1,383.5	405.8	347.5	58.34	6.956		
9,100.0	7,400.0	8,942.8	7,180.0	39.7	42.7	57.17	1,779.2	1,383.5	405.8	344.7	61.05	6.647		
9,200.0	7,400.0	9,042.8	7,180.0	41.2	44.1	57.17	1,879.2	1,383.5	405.8	342.0	63.79	6.362		
9,300.0	7,400.0	9,142.8	7,180.0	42.7	45.4	57.17	1,979.2	1,383.5	405.8	339.3	66.55	6.098		
9,400.0	7,400.0	9,242.8	7,180.0	44.2	46.9	57.17	2,079.2	1,383.5	405.8	336.5	69.32	5.854		
9,500.0	7,400.0	9,342.8	7,180.0	45.7	48.3	57.17	2,179.2	1,383.5	405.8	333.7	72.10	5.628		
9,600.0	7,400.0	9,442.8	7,180.0	47.2	49.7	57.17	2,279.2	1,383.5	405.8	330.9	74.90	5.418		
9,700.0	7,400.0	9,542.8	7,180.0	48.8	51.2	57.17	2,379.2	1,383.5	405.8	328.1	77.71	5.222		
9,800.0	7,400.0	9,642.8	7,180.0	50.4	52.7	57.17	2,479.2	1,383.5	405.8	325.3	80.53	5.039		
9,900.0	7,400.0	9,742.8	7,180.0	51.9	54.2	57.17	2,579.2	1,383.5	405.8	322.4	83.36	4.868		
10,000.0	7,400.0	9,842.8	7,180.0	53.5	55.7	57.17	2,679.2	1,383.5	405.8	319.6	86.20	4.707		
10,100.0	7,400.0	9,942.8	7,180.0	55.1	57.3	57.17	2,779.2	1,383.5	405.8	316.8	89.05	4.557		
10,200.0	7,400.0	10,042.8	7,180.0	56.7	58.8	57.17	2,879.2	1,383.5	405.8	313.9	91.90	4.416		
10,300.0	7,400.0	10,142.8	7,180.0	58.4	60.4	57.17	2,979.2	1,383.5	405.8	311.0	94.76	4.282		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1H-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,400.0	10,242.8	7,180.0	60.0	61.9	57.17	3,079.2	1,383.5	405.8	308.2	97.63	4.157		
10,500.0	7,400.0	10,342.8	7,180.0	61.6	63.5	57.17	3,179.2	1,383.5	405.8	305.3	100.50	4.038		
10,600.0	7,400.0	10,442.8	7,180.0	63.3	65.1	57.17	3,279.2	1,383.5	405.8	302.4	103.37	3.926		
10,700.0	7,400.0	10,542.8	7,180.0	64.9	66.7	57.17	3,379.2	1,383.5	405.8	299.5	106.25	3.819		
10,800.0	7,400.0	10,642.8	7,180.0	66.5	68.3	57.17	3,479.2	1,383.5	405.8	296.7	109.14	3.718		
10,900.0	7,400.0	10,742.8	7,180.0	68.2	69.9	57.17	3,579.2	1,383.5	405.8	293.8	112.02	3.622		
11,000.0	7,400.0	10,842.8	7,180.0	69.9	71.5	57.17	3,679.2	1,383.5	405.8	290.9	114.92	3.531		
11,100.0	7,400.0	10,942.8	7,180.0	71.5	73.2	57.17	3,779.2	1,383.5	405.8	288.0	117.81	3.445		
11,200.0	7,400.0	11,042.8	7,180.0	73.2	74.8	57.17	3,879.2	1,383.5	405.8	285.1	120.71	3.362		
11,300.0	7,400.0	11,142.8	7,180.0	74.9	76.4	57.17	3,979.2	1,383.5	405.8	282.2	123.61	3.283		
11,400.0	7,400.0	11,242.8	7,180.0	76.5	78.1	57.17	4,079.2	1,383.5	405.8	279.3	126.51	3.208		
11,500.0	7,400.0	11,342.8	7,180.0	78.2	79.7	57.17	4,179.2	1,383.5	405.8	276.4	129.41	3.136		
11,600.0	7,400.0	11,442.8	7,180.0	79.9	81.4	57.17	4,279.2	1,383.5	405.8	273.5	132.32	3.067		
11,700.0	7,400.0	11,542.8	7,180.0	81.6	83.0	57.17	4,379.2	1,383.5	405.8	270.6	135.23	3.001		
11,800.0	7,400.0	11,642.8	7,180.0	83.3	84.7	57.17	4,479.2	1,383.5	405.8	267.7	138.14	2.938		
11,900.0	7,400.0	11,742.8	7,180.0	85.0	86.3	57.17	4,579.2	1,383.5	405.8	264.7	141.05	2.877		
12,000.0	7,400.0	11,842.8	7,180.0	86.7	88.0	57.17	4,679.2	1,383.5	405.8	261.8	143.97	2.819		
12,100.0	7,400.0	11,942.8	7,180.0	88.4	89.7	57.17	4,779.2	1,383.5	405.8	258.9	146.88	2.763		
12,200.0	7,400.0	12,042.8	7,180.0	90.1	91.4	57.17	4,879.2	1,383.5	405.8	256.0	149.80	2.709		
12,300.0	7,400.0	12,142.8	7,180.0	91.8	93.0	57.17	4,979.2	1,383.5	405.8	253.1	152.72	2.657		
12,400.0	7,400.0	12,242.8	7,180.0	93.5	94.7	57.17	5,079.2	1,383.5	405.8	250.2	155.64	2.607		
12,500.0	7,400.0	12,342.8	7,180.0	95.2	96.4	57.17	5,179.2	1,383.5	405.8	247.2	158.56	2.559		
12,600.0	7,400.0	12,442.8	7,180.0	96.9	98.1	57.17	5,279.2	1,383.5	405.8	244.3	161.49	2.513		
12,700.0	7,400.0	12,542.8	7,180.0	98.6	99.8	57.17	5,379.2	1,383.5	405.8	241.4	164.41	2.468		
12,800.0	7,400.0	12,642.8	7,180.0	100.3	101.5	57.17	5,479.2	1,383.5	405.8	238.5	167.34	2.425		
12,900.0	7,400.0	12,742.8	7,180.0	102.0	103.1	57.17	5,579.2	1,383.5	405.8	235.5	170.26	2.383		
13,000.0	7,400.0	12,842.8	7,180.0	103.7	104.8	57.17	5,679.2	1,383.5	405.8	232.6	173.19	2.343		
13,100.0	7,400.0	12,942.8	7,180.0	105.4	106.5	57.17	5,779.2	1,383.5	405.8	229.7	176.12	2.304		
13,200.0	7,400.0	13,042.8	7,180.0	107.1	108.2	57.17	5,879.2	1,383.5	405.8	226.8	179.05	2.266		
13,300.0	7,400.0	13,142.8	7,180.0	108.9	109.9	57.17	5,979.2	1,383.5	405.8	223.8	181.98	2.230		
13,400.0	7,400.0	13,242.8	7,180.0	110.6	111.6	57.17	6,079.2	1,383.5	405.8	220.9	184.91	2.195		
13,500.0	7,400.0	13,342.8	7,180.0	112.3	113.3	57.17	6,179.2	1,383.5	405.8	218.0	187.84	2.160		
13,600.0	7,400.0	13,442.8	7,180.0	114.0	115.0	57.17	6,279.2	1,383.5	405.8	215.0	190.77	2.127		
13,700.0	7,400.0	13,542.8	7,180.0	115.7	116.7	57.17	6,379.2	1,383.5	405.8	212.1	193.71	2.095		
13,800.0	7,400.0	13,642.8	7,180.0	117.5	118.4	57.17	6,479.2	1,383.5	405.8	209.2	196.64	2.064		
13,900.0	7,400.0	13,742.8	7,180.0	119.2	120.2	57.17	6,579.2	1,383.5	405.8	206.2	199.57	2.033		
14,000.0	7,400.0	13,842.8	7,180.0	120.9	121.9	57.17	6,679.2	1,383.5	405.8	203.3	202.51	2.004		
14,100.0	7,400.0	13,942.8	7,180.0	122.6	123.6	57.17	6,779.2	1,383.5	405.8	200.4	205.45	1.975		
14,200.0	7,400.0	14,042.8	7,180.0	124.4	125.3	57.17	6,879.2	1,383.5	405.8	197.4	208.38	1.947		
14,300.0	7,400.0	14,142.8	7,180.0	126.1	127.0	57.17	6,979.2	1,383.5	405.8	194.5	211.32	1.920		
14,400.0	7,400.0	14,242.8	7,180.0	127.8	128.7	57.17	7,079.2	1,383.5	405.8	191.5	214.26	1.894		
14,500.0	7,400.0	14,342.8	7,180.0	129.5	130.4	57.17	7,179.2	1,383.5	405.8	188.6	217.19	1.868		
14,600.0	7,400.0	14,442.8	7,180.0	131.3	132.1	57.17	7,279.2	1,383.5	405.8	185.7	220.13	1.843		
14,617.0	7,400.0	14,459.8	7,180.0	131.6	132.4	57.17	7,296.2	1,383.5	405.8	185.2	220.63	1.839		
14,621.0	7,400.0	14,460.3	7,180.0	131.6	132.4	57.17	7,296.6	1,383.5	405.8	185.1	220.70	1.839 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - HURT 43-11 (EXISTING) - ENCANA WELL - SURVEY													Offset Site Error:	0.0 ft
Survey Program: 70-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,400.0	7,400.0	7,693.5	7,341.1	76.5	37.8	-85.38	4,386.9	739.4	432.6	330.1	102.50	4.220		
11,500.0	7,400.0	7,701.6	7,349.2	78.2	37.8	-86.90	4,387.6	739.5	368.1	263.7	104.45	3.524		
11,600.0	7,400.0	7,710.0	7,357.5	79.9	37.8	-88.47	4,388.3	739.5	322.1	215.8	106.33	3.029		
11,700.0	7,400.0	7,718.6	7,366.1	81.6	37.8	-90.10	4,389.1	739.6	303.1	194.9	108.15	2.803		
11,710.0	7,400.0	7,719.5	7,367.0	81.8	37.8	-90.26	4,389.2	739.6	302.9	194.6	108.32	2.797 CC, ES, SF		
11,800.0	7,400.0	7,727.5	7,375.0	83.3	37.8	-91.78	4,389.9	739.6	315.9	206.0	109.88	2.875		
11,900.0	7,400.0	7,736.7	7,384.2	85.0	37.8	-93.51	4,390.7	739.6	357.2	245.7	111.51	3.203		
12,000.0	7,400.0	7,746.3	7,393.7	86.7	37.8	-95.31	4,391.6	739.7	418.6	305.5	113.04	3.703		
12,100.0	7,400.0	7,756.3	7,403.6	88.4	37.9	-97.16	4,392.6	739.7	492.5	378.1	114.44	4.304		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - HURT 7-8-11 (EXISTING) - ENCANA WELL - SURVE										Offset Site Error:		0.0 ft
Survey Program:		70-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		
9,500.0	7,400.0	7,634.9	7,364.4	45.7	31.8	-88.24	2,562.2	896.9	409.7	352.8	56.91	7.200		
9,600.0	7,400.0	7,636.2	7,365.8	47.2	31.8	-88.76	2,562.2	896.9	318.3	259.6	58.61	5.430		
9,700.0	7,400.0	7,637.6	7,367.1	48.8	31.8	-89.29	2,562.2	896.9	233.9	173.5	60.32	3.877		
9,800.0	7,400.0	7,638.9	7,368.4	50.4	31.8	-89.81	2,562.2	896.9	167.6	105.6	62.03	2.702		
9,883.0	7,400.0	7,640.0	7,369.5	51.7	31.8	-90.24	2,562.2	896.9	145.6	82.1	63.45	2.294	CC, ES, SF	
9,900.0	7,400.0	7,640.2	7,369.7	51.9	31.8	-90.33	2,562.2	896.9	146.6	82.8	63.74	2.299		
10,000.0	7,400.0	7,641.5	7,371.1	53.5	31.8	-90.86	2,562.3	896.9	186.7	121.3	65.45	2.853		
10,100.0	7,400.0	7,642.9	7,372.4	55.1	31.8	-91.38	2,562.3	896.9	261.3	194.1	67.16	3.890		
10,200.0	7,400.0	7,644.2	7,373.7	56.7	31.8	-91.90	2,562.3	897.0	348.8	279.9	68.87	5.064		
10,300.0	7,400.0	7,645.5	7,375.1	58.4	31.8	-92.42	2,562.3	897.0	441.6	371.0	70.57	6.258		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1G-14H-G268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Reference Site:</b>	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	<b>MD Reference:</b>	WELL @ 4913.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Grant-Hurt 1G-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - STANLEY OLSON 2 (EXISTING) - WHITEWING WE													Offset Site Error:	0.0 ft
Survey Program: 655-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,600.0	7,363.4	7,419.0	7,317.3	23.3	19.7	-53.64	666.0	848.4	427.1	401.7	25.41	16.806		
7,700.0	7,390.2	7,419.0	7,317.3	23.9	19.7	-62.54	666.0	848.4	349.1	322.9	26.25	13.297		
7,800.0	7,400.0	7,419.0	7,317.3	24.5	19.7	-71.27	666.0	848.4	276.8	248.9	27.89	9.925		
7,900.0	7,400.0	7,419.0	7,317.3	25.3	19.7	-71.82	666.0	848.4	222.0	193.0	29.05	7.643		
7,986.8	7,400.0	7,419.0	7,317.3	26.0	19.7	-71.82	666.0	848.4	204.4	174.3	30.09	6.792 CC, ES		
8,000.0	7,400.0	7,419.0	7,317.3	26.2	19.7	-71.82	666.0	848.4	204.8	174.5	30.25	6.770 SF		
8,100.0	7,400.0	7,419.0	7,317.3	27.1	19.7	-71.82	666.0	848.4	233.6	202.1	31.52	7.412		
8,200.0	7,400.0	7,419.0	7,317.3	28.1	19.7	-71.82	666.0	848.4	295.3	262.5	32.85	8.991		
8,300.0	7,400.0	7,419.0	7,317.3	29.2	19.7	-71.82	666.0	848.4	374.0	339.8	34.23	10.927		
8,400.0	7,400.0	7,419.0	7,317.3	30.4	19.7	-71.82	666.0	848.4	461.0	425.4	35.64	12.934		

## Anticollision Report

**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** DJ Wattenberg  
**Reference Site:** S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)  
**Site Error:** 0.0ft  
**Reference Well:** Grant-Hurt 1G-14H-G268  
**Well Error:** 0.0ft  
**Reference Wellbore:** Hz  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:** Well Grant-Hurt 1G-14H-G268  
**TVD Reference:** WELL @ 4913.0ft (Original Well Elev)  
**MD Reference:** WELL @ 4913.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** USA EDM 5000 Multi Users DB  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to WELL @ 4913.0ft (Original Well Elev)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °

Coordinates are relative to: Grant-Hurt 1G-14H-G268  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.34°

