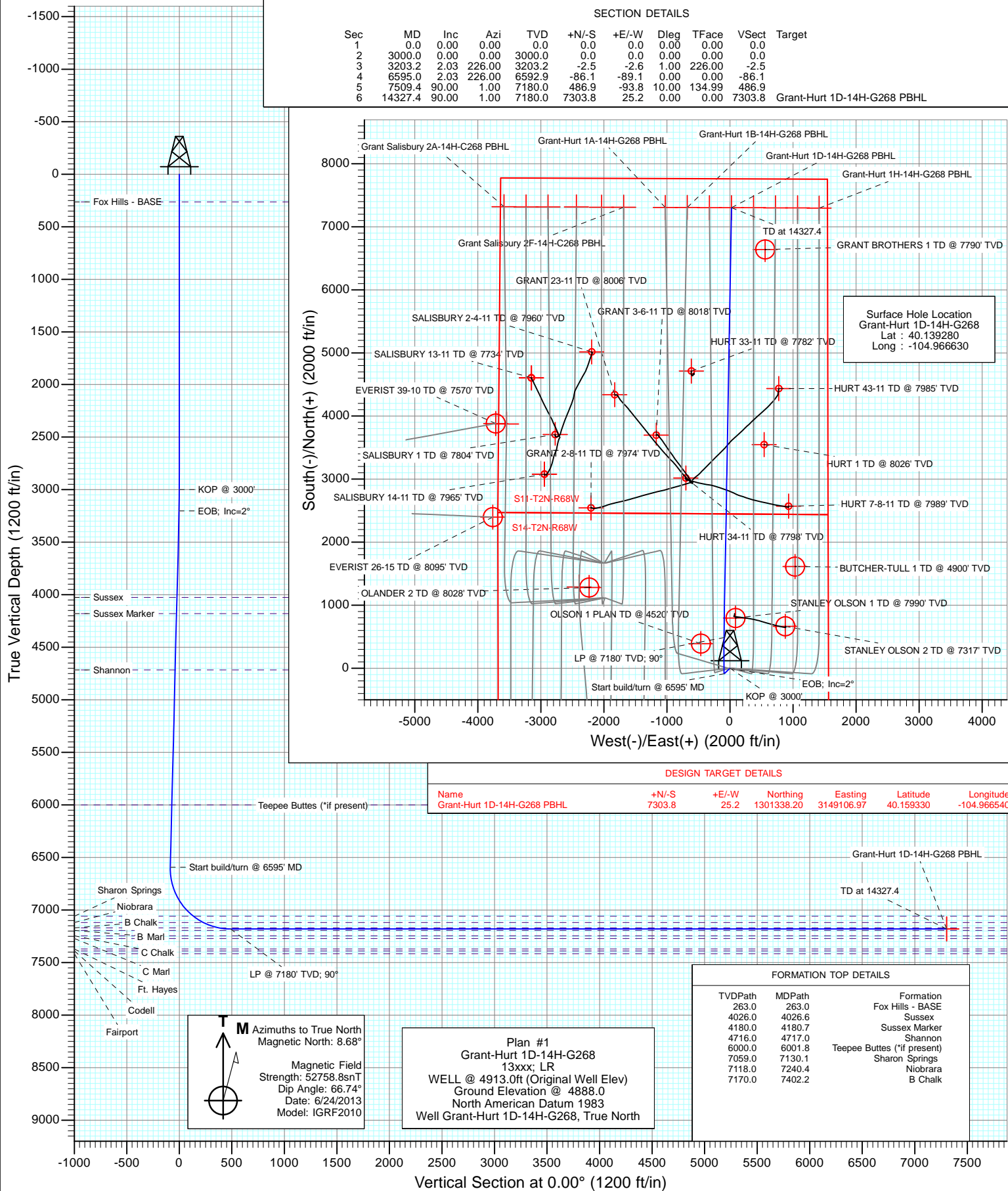




Project: DJ Wattenberg  
Site: S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)  
Well: Grant-Hurt 1D-14H-G268  
Wellbore: Hz  
Design: Plan #1



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1D-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 1D-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 1D-14H-G268					
Well Position	+N/-S	0.0 ft	Northing:	1,294,034.33 ft	Latitude:	40.139280
	+E/-W	0.0 ft	Easting:	3,149,125.75 ft	Longitude:	-104.966630
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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,203.2	2.03	226.00	3,203.2	-2.5	-2.6	1.00	1.00	0.00	226.00	
6,595.0	2.03	226.00	6,592.9	-86.1	-89.1	0.00	0.00	0.00	0.00	
7,509.4	90.00	1.00	7,180.0	486.9	-93.8	10.00	9.62	14.76	134.99	
14,327.4	90.00	1.00	7,180.0	7,303.8	25.2	0.00	0.00	0.00	0.00	Grant-Hurt 1D-14H-G

# Planning Report

**Database:** USA EDM 5000 Multi Users DB  
**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** DJ Wattenberg  
**Site:** S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)  
**Well:** Grant-Hurt 1D-14H-G268  
**Wellbore:** Hz  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Grant-Hurt 1D-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

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	KOP @ 3000'
3,100.0	1.00	226.00	3,100.0	-0.6	-0.6	-0.6	1.00	1.00	
3,200.0	2.00	226.00	3,200.0	-2.4	-2.5	-2.4	1.00	1.00	
3,203.2	2.03	226.00	3,203.2	-2.5	-2.6	-2.5	1.00	1.00	EOB; Inc=2°
3,300.0	2.03	226.00	3,299.9	-4.9	-5.1	-4.9	0.00	0.00	
3,400.0	2.03	226.00	3,399.8	-7.4	-7.6	-7.4	0.00	0.00	
3,500.0	2.03	226.00	3,499.8	-9.8	-10.2	-9.8	0.00	0.00	
3,600.0	2.03	226.00	3,599.7	-12.3	-12.7	-12.3	0.00	0.00	
3,700.0	2.03	226.00	3,699.6	-14.7	-15.3	-14.7	0.00	0.00	
3,800.0	2.03	226.00	3,799.6	-17.2	-17.8	-17.2	0.00	0.00	
3,900.0	2.03	226.00	3,899.5	-19.7	-20.4	-19.7	0.00	0.00	
4,000.0	2.03	226.00	3,999.5	-22.1	-22.9	-22.1	0.00	0.00	
4,100.0	2.03	226.00	4,099.4	-24.6	-25.5	-24.6	0.00	0.00	
4,200.0	2.03	226.00	4,199.3	-27.1	-28.0	-27.1	0.00	0.00	
4,300.0	2.03	226.00	4,299.3	-29.5	-30.6	-29.5	0.00	0.00	
4,400.0	2.03	226.00	4,399.2	-32.0	-33.1	-32.0	0.00	0.00	
4,500.0	2.03	226.00	4,499.1	-34.4	-35.7	-34.4	0.00	0.00	
4,600.0	2.03	226.00	4,599.1	-36.9	-38.2	-36.9	0.00	0.00	
4,700.0	2.03	226.00	4,699.0	-39.4	-40.8	-39.4	0.00	0.00	
4,800.0	2.03	226.00	4,799.0	-41.8	-43.3	-41.8	0.00	0.00	
4,900.0	2.03	226.00	4,898.9	-44.3	-45.9	-44.3	0.00	0.00	
5,000.0	2.03	226.00	4,998.8	-46.8	-48.4	-46.8	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1D-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 1D-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
5,100.0	2.03	226.00	5,098.8	-49.2	-51.0	-49.2	0.00	0.00	
5,200.0	2.03	226.00	5,198.7	-51.7	-53.5	-51.7	0.00	0.00	
5,300.0	2.03	226.00	5,298.6	-54.2	-56.1	-54.2	0.00	0.00	
5,400.0	2.03	226.00	5,398.6	-56.6	-58.6	-56.6	0.00	0.00	
5,500.0	2.03	226.00	5,498.5	-59.1	-61.2	-59.1	0.00	0.00	
5,600.0	2.03	226.00	5,598.5	-61.5	-63.7	-61.5	0.00	0.00	
5,700.0	2.03	226.00	5,698.4	-64.0	-66.3	-64.0	0.00	0.00	
5,800.0	2.03	226.00	5,798.3	-66.5	-68.8	-66.5	0.00	0.00	
5,900.0	2.03	226.00	5,898.3	-68.9	-71.4	-68.9	0.00	0.00	
6,000.0	2.03	226.00	5,998.2	-71.4	-73.9	-71.4	0.00	0.00	
6,100.0	2.03	226.00	6,098.1	-73.9	-76.5	-73.9	0.00	0.00	
6,200.0	2.03	226.00	6,198.1	-76.3	-79.0	-76.3	0.00	0.00	
6,300.0	2.03	226.00	6,298.0	-78.8	-81.6	-78.8	0.00	0.00	
6,400.0	2.03	226.00	6,397.9	-81.3	-84.1	-81.3	0.00	0.00	
6,500.0	2.03	226.00	6,497.9	-83.7	-86.7	-83.7	0.00	0.00	
6,595.0	2.03	226.00	6,592.9	-86.1	-89.1	-86.1	0.00	0.00	Start build/turn @ 6595' MD
6,600.0	1.72	237.80	6,597.8	-86.2	-89.2	-86.2	10.00	-6.34	
6,700.0	9.17	352.06	6,697.4	-79.0	-91.6	-79.0	10.00	7.45	
6,800.0	19.11	356.85	6,794.3	-54.7	-93.6	-54.7	10.00	9.94	
6,900.0	29.09	358.42	6,885.4	-14.0	-95.2	-14.0	10.00	9.98	
7,000.0	39.08	359.23	6,968.1	42.0	-96.3	42.0	10.00	9.99	
7,100.0	49.08	359.75	7,039.9	111.4	-96.9	111.4	10.00	9.99	
7,200.0	59.07	0.14	7,098.5	192.3	-96.9	192.3	10.00	10.00	
7,300.0	69.07	0.45	7,142.2	282.1	-96.5	282.1	10.00	10.00	
7,400.0	79.06	0.72	7,169.6	378.2	-95.5	378.2	10.00	10.00	
7,500.0	89.06	0.98	7,179.9	477.5	-94.0	477.5	10.00	10.00	
7,509.4	90.00	1.00	7,180.0	486.9	-93.8	486.9	10.00	10.00	LP @ 7180' TVD; 90°
7,600.0	90.00	1.00	7,180.0	577.5	-92.3	577.5	0.00	0.00	
7,700.0	90.00	1.00	7,180.0	677.5	-90.5	677.5	0.00	0.00	
7,800.0	90.00	1.00	7,180.0	777.4	-88.8	777.4	0.00	0.00	
7,900.0	90.00	1.00	7,180.0	877.4	-87.0	877.4	0.00	0.00	
8,000.0	90.00	1.00	7,180.0	977.4	-85.3	977.4	0.00	0.00	
8,100.0	90.00	1.00	7,180.0	1,077.4	-83.5	1,077.4	0.00	0.00	
8,200.0	90.00	1.00	7,180.0	1,177.4	-81.8	1,177.4	0.00	0.00	
8,300.0	90.00	1.00	7,180.0	1,277.4	-80.0	1,277.4	0.00	0.00	
8,400.0	90.00	1.00	7,180.0	1,377.3	-78.3	1,377.3	0.00	0.00	
8,500.0	90.00	1.00	7,180.0	1,477.3	-76.5	1,477.3	0.00	0.00	
8,600.0	90.00	1.00	7,180.0	1,577.3	-74.8	1,577.3	0.00	0.00	
8,700.0	90.00	1.00	7,180.0	1,677.3	-73.1	1,677.3	0.00	0.00	
8,800.0	90.00	1.00	7,180.0	1,777.3	-71.3	1,777.3	0.00	0.00	
8,900.0	90.00	1.00	7,180.0	1,877.3	-69.6	1,877.3	0.00	0.00	
9,000.0	90.00	1.00	7,180.0	1,977.3	-67.8	1,977.3	0.00	0.00	
9,100.0	90.00	1.00	7,180.0	2,077.2	-66.1	2,077.2	0.00	0.00	
9,200.0	90.00	1.00	7,180.0	2,177.2	-64.3	2,177.2	0.00	0.00	
9,300.0	90.00	1.00	7,180.0	2,277.2	-62.6	2,277.2	0.00	0.00	
9,400.0	90.00	1.00	7,180.0	2,377.2	-60.8	2,377.2	0.00	0.00	
9,500.0	90.00	1.00	7,180.0	2,477.2	-59.1	2,477.2	0.00	0.00	
9,600.0	90.00	1.00	7,180.0	2,577.2	-57.3	2,577.2	0.00	0.00	
9,700.0	90.00	1.00	7,180.0	2,677.1	-55.6	2,677.1	0.00	0.00	
9,800.0	90.00	1.00	7,180.0	2,777.1	-53.9	2,777.1	0.00	0.00	
9,900.0	90.00	1.00	7,180.0	2,877.1	-52.1	2,877.1	0.00	0.00	
10,000.0	90.00	1.00	7,180.0	2,977.1	-50.4	2,977.1	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1D-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 1D-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
10,100.0	90.00	1.00	7,180.0	3,077.1	-48.6	3,077.1	0.00	0.00	
10,200.0	90.00	1.00	7,180.0	3,177.1	-46.9	3,177.1	0.00	0.00	
10,300.0	90.00	1.00	7,180.0	3,277.1	-45.1	3,277.1	0.00	0.00	
10,400.0	90.00	1.00	7,180.0	3,377.0	-43.4	3,377.0	0.00	0.00	
10,500.0	90.00	1.00	7,180.0	3,477.0	-41.6	3,477.0	0.00	0.00	
10,600.0	90.00	1.00	7,180.0	3,577.0	-39.9	3,577.0	0.00	0.00	
10,700.0	90.00	1.00	7,180.0	3,677.0	-38.2	3,677.0	0.00	0.00	
10,800.0	90.00	1.00	7,180.0	3,777.0	-36.4	3,777.0	0.00	0.00	
10,900.0	90.00	1.00	7,180.0	3,877.0	-34.7	3,877.0	0.00	0.00	
11,000.0	90.00	1.00	7,180.0	3,977.0	-32.9	3,977.0	0.00	0.00	
11,100.0	90.00	1.00	7,180.0	4,076.9	-31.2	4,076.9	0.00	0.00	
11,200.0	90.00	1.00	7,180.0	4,176.9	-29.4	4,176.9	0.00	0.00	
11,300.0	90.00	1.00	7,180.0	4,276.9	-27.7	4,276.9	0.00	0.00	
11,400.0	90.00	1.00	7,180.0	4,376.9	-25.9	4,376.9	0.00	0.00	
11,500.0	90.00	1.00	7,180.0	4,476.9	-24.2	4,476.9	0.00	0.00	
11,600.0	90.00	1.00	7,180.0	4,576.9	-22.4	4,576.9	0.00	0.00	
11,700.0	90.00	1.00	7,180.0	4,676.8	-20.7	4,676.8	0.00	0.00	
11,800.0	90.00	1.00	7,180.0	4,776.8	-19.0	4,776.8	0.00	0.00	
11,900.0	90.00	1.00	7,180.0	4,876.8	-17.2	4,876.8	0.00	0.00	
12,000.0	90.00	1.00	7,180.0	4,976.8	-15.5	4,976.8	0.00	0.00	
12,100.0	90.00	1.00	7,180.0	5,076.8	-13.7	5,076.8	0.00	0.00	
12,200.0	90.00	1.00	7,180.0	5,176.8	-12.0	5,176.8	0.00	0.00	
12,300.0	90.00	1.00	7,180.0	5,276.8	-10.2	5,276.8	0.00	0.00	
12,400.0	90.00	1.00	7,180.0	5,376.7	-8.5	5,376.7	0.00	0.00	
12,500.0	90.00	1.00	7,180.0	5,476.7	-6.7	5,476.7	0.00	0.00	
12,600.0	90.00	1.00	7,180.0	5,576.7	-5.0	5,576.7	0.00	0.00	
12,700.0	90.00	1.00	7,180.0	5,676.7	-3.2	5,676.7	0.00	0.00	
12,800.0	90.00	1.00	7,180.0	5,776.7	-1.5	5,776.7	0.00	0.00	
12,900.0	90.00	1.00	7,180.0	5,876.7	0.2	5,876.7	0.00	0.00	
13,000.0	90.00	1.00	7,180.0	5,976.6	2.0	5,976.6	0.00	0.00	
13,100.0	90.00	1.00	7,180.0	6,076.6	3.7	6,076.6	0.00	0.00	
13,200.0	90.00	1.00	7,180.0	6,176.6	5.5	6,176.6	0.00	0.00	
13,300.0	90.00	1.00	7,180.0	6,276.6	7.2	6,276.6	0.00	0.00	
13,400.0	90.00	1.00	7,180.0	6,376.6	9.0	6,376.6	0.00	0.00	
13,500.0	90.00	1.00	7,180.0	6,476.6	10.7	6,476.6	0.00	0.00	
13,600.0	90.00	1.00	7,180.0	6,576.6	12.5	6,576.6	0.00	0.00	
13,700.0	90.00	1.00	7,180.0	6,676.5	14.2	6,676.5	0.00	0.00	
13,800.0	90.00	1.00	7,180.0	6,776.5	16.0	6,776.5	0.00	0.00	
13,900.0	90.00	1.00	7,180.0	6,876.5	17.7	6,876.5	0.00	0.00	
14,000.0	90.00	1.00	7,180.0	6,976.5	19.4	6,976.5	0.00	0.00	
14,100.0	90.00	1.00	7,180.0	7,076.5	21.2	7,076.5	0.00	0.00	
14,200.0	90.00	1.00	7,180.0	7,176.5	22.9	7,176.5	0.00	0.00	
14,300.0	90.00	1.00	7,180.0	7,276.4	24.7	7,276.4	0.00	0.00	
14,327.4	90.00	1.00	7,180.0	7,303.8	25.2	7,303.8	0.00	0.00	TD at 14327.4 - Grant-Hurt 1D-14H-G268 PBHI

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1D-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 1D-14H-G268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Grant-Hurt 1D-14H-G268	0.00	0.00	7,180.0	7,303.8	25.2	1,301,338.20	3,149,106.97	40.159330	-104.966540
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment	
3,000.0	3,000.0	0.0	0.0	KOP @ 3000'	
3,203.2	3,203.2	-2.5	-2.6	EOB; Inc=2°	
6,595.0	6,592.9	-86.1	-89.1	Start build/turn @ 6595' MD	
7,509.4	7,180.0	486.9	-93.8	LP @ 7180' TVD; 90°	
14,327.4	7,180.0	7,303.8	25.2	TD at 14327.4	

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

**DJ Wattenberg**

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

**Grant-Hurt 1D-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 1D-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 1D-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	14,326.2	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 1D-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 1D-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 Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
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) - EXISTING - SURVEYS						Out of range
GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS						Out of range
GRANT 3-6-11 (EXISTING) - EXISTING - SURVEYS						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	28.0	27.3	45.768	CC, ES
Grant-Hurt 1A-14H-G268 - Hz - Plan #1	600.0	597.5	41.5	39.4	20.379	SF
Grant-Hurt 1B-14H-G268 - Hz - Plan #1	300.0	300.0	19.6	18.6	20.388	CC, ES
Grant-Hurt 1B-14H-G268 - Hz - Plan #1	600.0	598.7	27.4	25.3	13.595	SF
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	400.0	400.0	8.4	7.1	6.408	CC, ES
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	14,327.4	14,528.9	412.9	191.0	1.861	SF
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	500.0	500.0	11.2	9.5	6.745	CC, ES
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	14,327.4	14,555.4	412.9	190.8	1.859	SF
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	400.0	400.0	19.6	18.3	14.951	CC, ES
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	600.0	599.2	23.0	21.0	11.460	SF
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	300.0	300.0	30.8	29.8	32.038	CC, ES
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	700.0	697.2	44.6	42.2	18.784	SF
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	200.0	200.0	41.9	41.3	68.652	CC, ES
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	800.0	793.5	73.0	70.2	26.317	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) - EXISTING - SURVEYS						Out of range
HURT 34-11 (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 43-11 (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 7-8-11 (EXISTING) - EXISTING - SURVEYS						Out of range
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 1D-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 1D-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	Offset Measured Depth	Distance Between Centres		Separation Factor	Warning
Offset Well - Wellbore - Design	(ft)	(ft)	(ft)	Ellipses (ft)		
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	7,823.4	7,146.0	177.8	145.6	5.512	CC, ES, SF
STANLEY OLSON 2 (EXISTING) - WHITEWING WELL						Out of range

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1D-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 1D-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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-28.0	28.0					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-28.0	28.0	27.7	0.26	106.792		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-28.0	28.0	27.3	0.61	45.768 CC, ES		
300.0	300.0	299.5	299.5	0.5	0.5	-89.51	0.2	-28.8	28.8	27.8	0.96	29.997		
400.0	400.0	399.0	398.9	0.7	0.7	-88.21	1.0	-31.3	31.3	30.0	1.31	23.860		
500.0	500.0	498.3	498.2	0.8	0.8	-86.45	2.2	-35.4	35.5	33.9	1.67	21.274		
600.0	600.0	597.5	597.2	1.0	1.0	-84.59	3.9	-41.2	41.5	39.4	2.03	20.379 SF		
700.0	700.0	696.4	695.8	1.2	1.3	-82.87	6.1	-48.6	49.1	46.7	2.41	20.408		
800.0	800.0	795.1	794.0	1.4	1.5	-81.38	8.7	-57.6	58.5	55.7	2.79	20.981		
900.0	900.0	893.3	891.6	1.5	1.7	-80.14	11.9	-68.1	69.7	66.5	3.18	21.889		
1,000.0	1,000.0	991.6	989.1	1.7	2.0	-79.12	15.4	-80.3	82.4	78.9	3.58	23.000		
1,100.0	1,100.0	1,090.7	1,087.4	1.9	2.3	-78.35	19.1	-92.9	95.6	91.7	3.99	23.967		
1,200.0	1,200.0	1,189.9	1,185.6	2.1	2.5	-77.77	22.9	-105.5	108.9	104.5	4.40	24.749		
1,300.0	1,300.0	1,289.0	1,283.8	2.2	2.8	-77.32	26.6	-118.1	122.1	117.3	4.81	25.394		
1,400.0	1,400.0	1,388.1	1,382.1	2.4	3.1	-76.95	30.3	-130.7	135.3	130.1	5.22	25.934		
1,500.0	1,500.0	1,487.2	1,480.3	2.6	3.4	-76.65	34.0	-143.3	148.6	142.9	5.63	26.393		
1,600.0	1,600.0	1,586.3	1,578.6	2.7	3.7	-76.40	37.7	-155.9	161.8	155.8	6.04	26.788		
1,700.0	1,700.0	1,685.4	1,676.8	2.9	4.0	-76.18	41.4	-168.5	175.0	168.6	6.45	27.131		
1,800.0	1,800.0	1,784.6	1,775.1	3.1	4.2	-76.00	45.2	-181.1	188.3	181.4	6.86	27.432		
1,900.0	1,900.0	1,883.7	1,873.3	3.3	4.5	-75.84	48.9	-193.7	201.5	194.3	7.28	27.699		
2,000.0	2,000.0	1,982.8	1,971.5	3.4	4.8	-75.70	52.6	-206.3	214.8	207.1	7.69	27.935		
2,100.0	2,100.0	2,081.9	2,069.8	3.6	5.1	-75.58	56.3	-218.9	228.0	219.9	8.10	28.148		
2,200.0	2,200.0	2,181.0	2,168.0	3.8	5.4	-75.47	60.0	-231.5	241.3	232.8	8.51	28.339		
2,300.0	2,300.0	2,280.2	2,266.3	4.0	5.7	-75.37	63.7	-244.1	254.5	245.6	8.93	28.512		
2,400.0	2,400.0	2,379.3	2,364.5	4.1	6.0	-75.28	67.5	-256.7	267.8	258.4	9.34	28.670		
2,500.0	2,500.0	2,478.4	2,462.8	4.3	6.2	-75.20	71.2	-269.3	281.0	271.3	9.75	28.814		
2,600.0	2,600.0	2,577.5	2,561.0	4.5	6.5	-75.12	74.9	-281.9	294.3	284.1	10.17	28.946		
2,700.0	2,700.0	2,676.6	2,659.2	4.7	6.8	-75.06	78.6	-294.5	307.5	297.0	10.58	29.067		
2,800.0	2,800.0	2,775.7	2,757.5	4.8	7.1	-75.00	82.3	-307.1	320.8	309.8	10.99	29.180		
2,900.0	2,900.0	2,874.9	2,855.7	5.0	7.4	-74.94	86.0	-319.7	334.0	322.6	11.41	29.284		
3,000.0	3,000.0	2,974.0	2,954.0	5.2	7.7	-74.89	89.8	-332.3	347.3	335.5	11.82	29.380		
3,100.0	3,100.0	3,073.1	3,052.3	5.4	8.0	-74.83	93.5	-344.9	360.1	349.4	10.68	33.721		
3,200.0	3,200.0	3,172.4	3,150.6	5.5	8.2	-74.77	97.2	-357.6	372.0	361.0	11.03	33.734		
3,300.0	3,299.9	3,271.7	3,249.1	5.7	8.5	-74.71	100.9	-370.2	383.5	372.2	11.38	33.712		
3,400.0	3,399.8	3,371.0	3,347.5	5.9	8.8	-74.65	104.6	-382.8	395.0	383.3	11.73	33.692		
3,500.0	3,499.8	3,470.3	3,445.9	6.1	9.1	-74.59	108.4	-395.4	406.6	394.5	12.07	33.672		
3,600.0	3,599.7	3,569.5	3,544.3	6.2	9.4	-74.53	112.1	-408.1	418.1	405.7	12.42	33.653		
3,700.0	3,699.6	3,668.8	3,642.7	6.4	9.7	-74.47	115.8	-420.7	429.7	416.9	12.78	33.635		
3,800.0	3,799.6	3,768.1	3,741.1	6.6	10.0	-74.41	119.5	-433.3	441.3	428.2	13.13	33.617		
3,900.0	3,899.5	3,867.4	3,839.5	6.8	10.3	-74.35	123.3	-445.9	452.9	439.4	13.48	33.599		
4,000.0	3,999.5	3,966.7	3,937.9	7.0	10.6	-74.29	127.0	-458.6	464.6	450.7	13.83	33.582		
4,100.0	4,099.4	4,066.0	4,036.3	7.1	10.8	-74.23	130.7	-471.2	476.2	462.0	14.19	33.566		
4,200.0	4,199.3	4,165.3	4,134.7	7.3	11.1	-74.17	134.4	-483.8	487.9	473.3	14.54	33.549		
4,300.0	4,299.3	4,264.6	4,233.2	7.5	11.4	-74.11	138.1	-496.4	499.5	484.6	14.90	33.534		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1D-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 1D-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			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-19.6	19.6	19.3	0.26	74.755		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-19.6	19.6	19.0	0.61	32.038		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-19.6	19.6	18.6	0.96	20.388	CC, ES	
400.0	400.0	399.7	399.6	0.7	0.7	-90.28	-0.1	-20.4	20.4	19.1	1.31	15.615		
500.0	500.0	499.2	499.2	0.8	0.8	-91.01	-0.4	-23.0	23.0	21.4	1.66	13.882		
600.0	600.0	598.7	598.6	1.0	1.0	-91.91	-0.9	-27.3	27.4	25.3	2.01	13.595	SF	
700.0	700.0	698.0	697.7	1.2	1.2	-92.78	-1.6	-33.3	33.4	31.0	2.37	14.098		
800.0	800.0	797.1	796.4	1.4	1.4	-93.52	-2.5	-41.0	41.2	38.5	2.73	15.066		
900.0	900.0	895.8	894.7	1.5	1.6	-94.12	-3.6	-50.3	50.7	47.6	3.11	16.317		
1,000.0	1,000.0	994.2	992.5	1.7	1.9	-94.59	-4.9	-61.3	61.9	58.4	3.49	17.741		
1,100.0	1,100.0	1,093.2	1,090.8	1.9	2.1	-94.94	-6.4	-73.5	74.3	70.5	3.88	19.152		
1,200.0	1,200.0	1,192.4	1,189.2	2.1	2.4	-95.20	-7.8	-85.7	86.8	82.5	4.28	20.294		
1,300.0	1,300.0	1,291.7	1,287.7	2.2	2.7	-95.39	-9.2	-98.0	99.2	94.5	4.67	21.233		
1,400.0	1,400.0	1,390.9	1,386.1	2.4	2.9	-95.54	-10.7	-110.2	111.6	106.6	5.07	22.017		
1,500.0	1,500.0	1,490.1	1,484.6	2.6	3.2	-95.66	-12.1	-122.5	124.1	118.6	5.47	22.682		
1,600.0	1,600.0	1,589.3	1,583.0	2.7	3.5	-95.76	-13.6	-134.8	136.5	130.6	5.87	23.251		
1,700.0	1,700.0	1,688.6	1,681.5	2.9	3.7	-95.84	-15.0	-147.0	148.9	142.7	6.27	23.744		
1,800.0	1,800.0	1,787.8	1,779.9	3.1	4.0	-95.91	-16.5	-159.3	161.4	154.7	6.68	24.175		
1,900.0	1,900.0	1,887.0	1,878.4	3.3	4.3	-95.96	-17.9	-171.5	173.8	166.7	7.08	24.555		
2,000.0	2,000.0	1,986.2	1,976.8	3.4	4.6	-96.02	-19.4	-183.8	186.2	178.8	7.48	24.893		
2,100.0	2,100.0	2,085.5	2,075.3	3.6	4.8	-96.06	-20.8	-196.0	198.7	190.8	7.89	25.194		
2,200.0	2,200.0	2,184.7	2,173.7	3.8	5.1	-96.10	-22.3	-208.3	211.1	202.8	8.29	25.465		
2,300.0	2,300.0	2,283.9	2,272.2	4.0	5.4	-96.13	-23.7	-220.6	223.6	214.9	8.70	25.710		
2,400.0	2,400.0	2,383.1	2,370.7	4.1	5.7	-96.17	-25.1	-232.8	236.0	226.9	9.10	25.933		
2,500.0	2,500.0	2,482.4	2,469.1	4.3	5.9	-96.19	-26.6	-245.1	248.4	238.9	9.51	26.136		
2,600.0	2,600.0	2,581.6	2,567.6	4.5	6.2	-96.22	-28.0	-257.3	260.9	251.0	9.91	26.322		
2,700.0	2,700.0	2,680.8	2,666.0	4.7	6.5	-96.24	-29.5	-269.6	273.3	263.0	10.32	26.492		
2,800.0	2,800.0	2,780.0	2,764.5	4.8	6.8	-96.26	-30.9	-281.8	285.7	275.0	10.72	26.650		
2,900.0	2,900.0	2,879.2	2,862.9	5.0	7.0	-96.28	-32.4	-294.1	298.2	287.0	11.13	26.796		
3,000.0	3,000.0	2,978.5	2,961.4	5.2	7.3	-96.30	-33.8	-306.3	310.6	299.1	11.53	26.931		
3,100.0	3,100.0	3,077.8	3,059.9	5.4	7.6	37.71	-35.3	-318.6	322.4	311.7	10.69	30.159		
3,200.0	3,200.0	3,177.2	3,158.6	5.5	7.9	37.91	-36.7	-330.9	332.7	321.7	11.04	30.140		
3,300.0	3,299.9	3,276.7	3,257.3	5.7	8.1	38.24	-38.2	-343.2	342.4	331.0	11.39	30.065		
3,400.0	3,399.8	3,376.2	3,356.1	5.9	8.4	38.56	-39.6	-355.5	352.1	340.3	11.74	29.994		
3,500.0	3,499.8	3,475.8	3,454.8	6.1	8.7	38.87	-41.1	-367.8	361.8	349.7	12.09	29.927		
3,600.0	3,599.7	3,575.3	3,553.5	6.2	9.0	39.16	-42.5	-380.1	371.5	359.0	12.44	29.863		
3,700.0	3,699.6	3,674.8	3,652.3	6.4	9.2	39.43	-44.0	-392.3	381.2	368.4	12.79	29.803		
3,800.0	3,799.6	3,774.3	3,751.0	6.6	9.5	39.69	-45.4	-404.6	390.9	377.7	13.14	29.745		
3,900.0	3,899.5	3,873.8	3,849.8	6.8	9.8	39.94	-46.9	-416.9	400.6	387.1	13.49	29.691		
4,000.0	3,999.5	3,973.3	3,948.5	7.0	10.1	40.17	-48.3	-429.2	410.3	396.5	13.84	29.639		
4,100.0	4,099.4	4,072.8	4,047.2	7.1	10.4	40.40	-49.8	-441.5	420.1	405.9	14.20	29.589		
4,200.0	4,199.3	4,172.3	4,146.0	7.3	10.6	40.61	-51.2	-453.8	429.8	415.3	14.55	29.542		
4,300.0	4,299.3	4,271.9	4,244.7	7.5	10.9	40.82	-52.7	-466.1	439.5	424.6	14.90	29.497		
4,400.0	4,399.2	4,371.4	4,343.5	7.7	11.2	41.01	-54.1	-478.4	449.3	434.0	15.25	29.453		
4,500.0	4,499.1	4,470.9	4,442.2	7.9	11.5	41.20	-55.6	-490.7	459.0	443.4	15.61	29.411		
4,600.0	4,599.1	4,570.4	4,540.9	8.0	11.7	41.38	-57.0	-503.0	468.8	452.8	15.96	29.371		
4,700.0	4,699.0	4,669.9	4,639.7	8.2	12.0	41.55	-58.5	-515.3	478.6	462.3	16.32	29.333		
4,800.0	4,799.0	4,769.4	4,738.4	8.4	12.3	41.72	-59.9	-527.6	488.3	471.7	16.67	29.296		
4,900.0	4,898.9	4,868.9	4,837.1	8.6	12.6	41.88	-61.4	-539.8	498.1	481.1	17.02	29.261		

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 1D-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 1D-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	-8.4	8.4					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-8.4	8.4	8.1	0.26	32.038		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-8.4	8.4	7.8	0.61	13.730		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-8.4	8.4	7.4	0.96	8.738		
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-8.4	8.4	7.1	1.31	6.408 CC, ES		
500.0	500.0	499.8	499.8	0.8	0.8	-91.54	-0.2	-9.2	9.2	7.6	1.66	5.565		
600.0	600.0	599.6	599.6	1.0	1.0	-94.84	-1.0	-11.7	11.8	9.8	2.01	5.862		
700.0	700.0	699.5	699.4	1.2	1.2	-97.69	-2.1	-15.3	15.5	13.1	2.36	6.564		
800.0	800.0	799.5	799.3	1.4	1.4	-99.44	-3.2	-19.0	19.3	16.5	2.71	7.100		
900.0	900.0	899.4	899.1	1.5	1.6	-100.62	-4.2	-22.6	23.0	20.0	3.06	7.516		
1,000.0	1,000.0	999.3	999.0	1.7	1.7	-101.46	-5.3	-26.3	26.8	23.4	3.42	7.847		
1,100.0	1,100.0	1,099.2	1,098.8	1.9	1.9	-102.10	-6.4	-29.9	30.6	26.8	3.77	8.116		
1,200.0	1,200.0	1,199.2	1,198.7	2.1	2.1	-102.59	-7.5	-33.6	34.4	30.3	4.13	8.339		
1,300.0	1,300.0	1,299.1	1,298.5	2.2	2.3	-102.99	-8.6	-37.2	38.2	33.7	4.48	8.527		
1,400.0	1,400.0	1,399.0	1,398.4	2.4	2.5	-103.32	-9.7	-40.8	42.0	37.2	4.83	8.687		
1,500.0	1,500.0	1,499.0	1,498.3	2.6	2.7	-103.59	-10.8	-44.5	45.8	40.6	5.19	8.826		
1,600.0	1,600.0	1,598.9	1,598.1	2.7	2.8	-103.82	-11.8	-48.1	49.6	44.1	5.54	8.947		
1,700.0	1,700.0	1,698.8	1,698.0	2.9	3.0	-104.02	-12.9	-51.8	53.4	47.5	5.90	9.053		
1,800.0	1,800.0	1,798.7	1,797.8	3.1	3.2	-104.19	-14.0	-55.4	57.2	50.9	6.25	9.147		
1,900.0	1,900.0	1,898.7	1,897.7	3.3	3.4	-104.34	-15.1	-59.1	61.0	54.4	6.61	9.231		
2,000.0	2,000.0	1,998.6	1,997.5	3.4	3.6	-104.47	-16.2	-62.7	64.8	57.8	6.96	9.307		
2,100.0	2,100.0	2,098.5	2,097.4	3.6	3.8	-104.59	-17.3	-66.3	68.6	61.3	7.32	9.375		
2,200.0	2,200.0	2,198.4	2,197.2	3.8	4.0	-104.69	-18.4	-70.0	72.4	64.7	7.67	9.437		
2,300.0	2,300.0	2,298.4	2,297.1	4.0	4.2	-104.79	-19.4	-73.6	76.2	68.2	8.03	9.493		
2,400.0	2,400.0	2,398.3	2,397.0	4.1	4.3	-104.87	-20.5	-77.3	80.0	71.6	8.38	9.545		
2,500.0	2,500.0	2,498.2	2,496.8	4.3	4.5	-104.95	-21.6	-80.9	83.8	75.1	8.74	9.592		
2,600.0	2,600.0	2,598.2	2,596.7	4.5	4.7	-105.02	-22.7	-84.6	87.6	78.5	9.09	9.636		
2,700.0	2,700.0	2,698.1	2,696.5	4.7	4.9	-105.09	-23.8	-88.2	91.4	82.0	9.45	9.676		
2,800.0	2,800.0	2,798.0	2,796.4	4.8	5.1	-105.15	-24.9	-91.9	95.2	85.4	9.80	9.714		
2,900.0	2,900.0	2,897.9	2,896.2	5.0	5.3	-105.20	-25.9	-95.5	99.0	88.9	10.16	9.749		
3,000.0	3,000.0	2,997.9	2,996.1	5.2	5.5	-105.25	-27.0	-99.1	102.8	92.3	10.51	9.781		
3,100.0	3,100.0	3,097.8	3,096.0	5.4	5.6	28.92	-28.1	-102.8	105.9	95.1	10.73	9.868		
3,200.0	3,200.0	3,197.8	3,195.9	5.5	5.8	29.53	-29.2	-106.4	107.4	96.3	11.08	9.694		
3,300.0	3,299.9	3,297.8	3,295.8	5.7	6.0	30.38	-30.3	-110.1	108.1	96.7	11.43	9.461		
3,400.0	3,399.8	3,397.8	3,395.7	5.9	6.2	31.22	-31.4	-113.7	108.9	97.1	11.78	9.244		
3,500.0	3,499.8	3,497.8	3,495.6	6.1	6.4	32.05	-32.5	-117.4	109.7	97.5	12.13	9.041		
3,600.0	3,599.7	3,597.7	3,595.5	6.2	6.6	32.87	-33.5	-121.0	110.5	98.0	12.48	8.850		
3,700.0	3,699.6	3,697.7	3,695.4	6.4	6.8	33.67	-34.6	-124.7	111.3	98.4	12.83	8.672		
3,800.0	3,799.6	3,797.7	3,795.3	6.6	6.9	34.46	-35.7	-128.3	112.1	98.9	13.18	8.504		
3,900.0	3,899.5	3,897.7	3,895.3	6.8	7.1	35.25	-36.8	-132.0	113.0	99.4	13.54	8.347		
4,000.0	3,999.5	3,997.7	3,995.2	7.0	7.3	36.01	-37.9	-135.6	113.9	100.0	13.89	8.199		
4,100.0	4,099.4	4,097.7	4,095.1	7.1	7.5	36.77	-39.0	-139.2	114.8	100.5	14.24	8.059		
4,200.0	4,199.3	4,197.6	4,195.0	7.3	7.7	37.52	-40.1	-142.9	115.7	101.1	14.60	7.927		
4,300.0	4,299.3	4,297.6	4,294.9	7.5	7.9	38.25	-41.2	-146.5	116.6	101.7	14.95	7.802		
4,400.0	4,399.2	4,397.6	4,394.8	7.7	8.1	38.97	-42.2	-150.2	117.6	102.3	15.30	7.684		
4,500.0	4,499.1	4,497.6	4,494.7	7.9	8.3	39.68	-43.3	-153.8	118.6	102.9	15.66	7.573		
4,600.0	4,599.1	4,597.6	4,594.6	8.0	8.4	40.38	-44.4	-157.5	119.6	103.6	16.01	7.467		
4,700.0	4,699.0	4,697.6	4,694.6	8.2	8.6	41.06	-45.5	-161.1	120.6	104.2	16.37	7.367		
4,800.0	4,799.0	4,797.5	4,794.5	8.4	8.8	41.74	-46.6	-164.8	121.6	104.9	16.73	7.272		
4,900.0	4,898.9	4,897.5	4,894.4	8.6	9.0	42.40	-47.7	-168.4	122.7	105.6	17.08	7.182		
5,000.0	4,998.8	4,997.5	4,994.3	8.8	9.2	43.05	-48.8	-172.1	123.7	106.3	17.44	7.096		
5,100.0	5,098.8	5,097.5	5,094.2	8.9	9.4	43.69	-49.8	-175.7	124.8	107.0	17.80	7.014		

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 1D-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 1D-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				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	5,198.7	5,197.5	5,194.1	9.1	9.6	44.32	-50.9	-179.4	125.9	107.8	18.15	6.936		
5,300.0	5,298.6	5,297.5	5,294.0	9.3	9.7	44.94	-52.0	-183.0	127.0	108.5	18.51	6.862		
5,400.0	5,398.6	5,397.5	5,393.9	9.5	9.9	45.55	-53.1	-186.6	128.2	109.3	18.87	6.791		
5,500.0	5,498.5	5,497.4	5,493.9	9.7	10.1	46.14	-54.2	-190.3	129.3	110.1	19.23	6.724		
5,600.0	5,598.5	5,597.4	5,593.8	9.9	10.3	46.73	-55.3	-193.9	130.5	110.9	19.59	6.659		
5,700.0	5,698.4	5,697.4	5,693.7	10.0	10.5	47.31	-56.4	-197.6	131.6	111.7	19.95	6.598		
5,800.0	5,798.3	5,797.4	5,793.6	10.2	10.7	47.87	-57.4	-201.2	132.8	112.5	20.31	6.539		
5,900.0	5,898.3	5,897.4	5,893.5	10.4	10.9	48.43	-58.5	-204.9	134.0	113.3	20.67	6.482		
6,000.0	5,998.2	5,997.4	5,993.4	10.6	11.1	48.97	-59.6	-208.5	135.2	114.2	21.03	6.429		
6,100.0	6,098.1	6,097.3	6,093.3	10.8	11.2	49.51	-60.7	-212.2	136.4	115.0	21.39	6.377		
6,200.0	6,198.1	6,197.3	6,193.2	11.0	11.4	50.04	-61.8	-215.8	137.6	115.9	21.75	6.327		
6,300.0	6,298.0	6,297.3	6,293.2	11.1	11.6	50.55	-62.9	-219.5	138.9	116.8	22.12	6.280		
6,400.0	6,397.9	6,397.3	6,393.1	11.3	11.8	51.06	-64.0	-223.1	140.1	117.7	22.48	6.235		
6,500.0	6,497.9	6,497.3	6,493.0	11.5	12.0	51.56	-65.0	-226.8	141.4	118.6	22.84	6.191		
6,600.0	6,597.8	6,597.3	6,592.9	11.7	12.2	40.25	-66.1	-230.4	142.7	119.5	23.20	6.149		
6,700.0	6,697.4	6,696.8	6,692.3	11.8	12.4	-77.15	-67.2	-234.0	143.0	119.5	23.48	6.090		
6,700.0	6,697.4	6,696.8	6,692.4	11.8	12.4	-77.15	-67.2	-234.0	143.0	119.5	23.48	6.090		
6,800.0	6,794.3	6,793.4	6,788.9	12.0	12.5	-91.39	-68.3	-237.6	144.7	121.0	23.68	6.108		
6,900.0	6,885.4	6,889.9	6,885.2	12.1	12.7	-105.76	-65.7	-241.1	154.8	131.0	23.79	6.507		
7,000.0	6,968.1	6,994.8	6,987.9	12.3	12.9	-117.78	-45.7	-245.0	173.8	150.1	23.65	7.348		
7,100.0	7,039.9	7,109.2	7,093.7	12.7	13.1	-127.00	-3.0	-249.3	198.0	174.8	23.22	8.529		
7,200.0	7,098.5	7,234.9	7,197.7	13.2	13.4	-133.72	67.2	-253.7	223.8	201.1	22.66	9.878		
7,300.0	7,142.2	7,373.5	7,291.5	13.9	13.9	-138.33	168.6	-258.0	247.6	225.4	22.23	11.138		
7,400.0	7,169.6	7,524.6	7,362.9	14.8	14.9	-141.09	301.3	-261.8	266.4	244.1	22.26	11.967		
7,500.0	7,179.9	7,685.6	7,398.1	15.8	16.4	-142.11	457.8	-264.4	277.6	254.6	23.02	12.061		
7,600.0	7,180.0	7,803.8	7,400.0	17.0	17.7	-141.78	576.0	-265.5	280.0	255.4	24.63	11.371		
7,700.0	7,180.0	7,903.8	7,400.0	18.2	18.9	-141.37	675.9	-266.4	281.7	255.3	26.33	10.699		
7,800.0	7,180.0	8,003.8	7,400.0	19.5	20.2	-140.95	775.9	-267.3	283.3	255.2	28.14	10.069		
7,900.0	7,180.0	8,103.7	7,400.0	20.9	21.6	-140.54	875.8	-268.1	285.0	254.9	30.05	9.483		
8,000.0	7,180.0	8,203.7	7,400.0	22.4	23.0	-140.14	975.8	-269.0	286.6	254.6	32.05	8.943		
8,100.0	7,180.0	8,303.7	7,400.0	23.9	24.5	-139.74	1,075.8	-269.9	288.3	254.2	34.13	8.447		
8,200.0	7,180.0	8,403.6	7,400.0	25.4	26.0	-139.35	1,175.7	-270.8	290.0	253.7	36.29	7.992		
8,300.0	7,180.0	8,503.6	7,400.0	27.0	27.5	-138.96	1,275.7	-271.6	291.7	253.2	38.51	7.575		
8,400.0	7,180.0	8,603.6	7,400.0	28.5	29.0	-138.57	1,375.7	-272.5	293.5	252.7	40.80	7.194		
8,500.0	7,180.0	8,703.5	7,400.0	30.1	30.6	-138.19	1,475.6	-273.4	295.2	252.1	43.13	6.844		
8,600.0	7,180.0	8,803.5	7,400.0	31.7	32.2	-137.81	1,575.6	-274.3	297.0	251.4	45.53	6.523		
8,700.0	7,180.0	8,903.5	7,400.0	33.4	33.8	-137.44	1,675.5	-275.1	298.7	250.8	47.97	6.228		
8,800.0	7,180.0	9,003.4	7,400.0	35.0	35.4	-137.07	1,775.5	-276.0	300.5	250.1	50.45	5.956		
8,900.0	7,180.0	9,103.4	7,400.0	36.6	37.0	-136.71	1,875.5	-276.9	302.3	249.3	52.98	5.706		
9,000.0	7,180.0	9,203.4	7,400.0	38.3	38.7	-136.35	1,975.4	-277.7	304.1	248.5	55.54	5.475		
9,100.0	7,180.0	9,303.3	7,400.0	40.0	40.3	-136.00	2,075.4	-278.6	305.9	247.8	58.15	5.261		
9,200.0	7,180.0	9,403.3	7,400.0	41.6	42.0	-135.65	2,175.3	-279.5	307.7	246.9	60.79	5.062		
9,300.0	7,180.0	9,503.2	7,400.0	43.3	43.7	-135.30	2,275.3	-280.4	309.6	246.1	63.46	4.878		
9,400.0	7,180.0	9,603.2	7,400.0	45.0	45.3	-134.96	2,375.3	-281.2	311.4	245.2	66.17	4.706		
9,500.0	7,180.0	9,703.2	7,400.0	46.7	47.0	-134.62	2,475.2	-282.1	313.3	244.4	68.90	4.546		
9,600.0	7,180.0	9,803.1	7,400.0	48.4	48.7	-134.29	2,575.2	-283.0	315.1	243.5	71.67	4.397		
9,700.0	7,180.0	9,903.1	7,400.0	50.1	50.4	-133.95	2,675.2	-283.9	317.0	242.6	74.46	4.257		
9,800.0	7,180.0	10,003.1	7,400.0	51.8	52.1	-133.63	2,775.1	-284.7	318.9	241.6	77.28	4.126		
9,900.0	7,180.0	10,103.0	7,400.0	53.5	53.8	-133.31	2,875.1	-285.6	320.8	240.7	80.13	4.004		
10,000.0	7,180.0	10,203.0	7,400.0	55.2	55.5	-132.99	2,975.0	-286.5	322.7	239.7	83.00	3.888		
10,100.0	7,180.0	10,303.0	7,400.0	56.9	57.2	-132.67	3,075.0	-287.3	324.6	238.7	85.90	3.779		
10,200.0	7,180.0	10,402.9	7,400.0	58.6	58.9	-132.36	3,175.0	-288.2	326.6	237.8	88.81	3.677		

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 1D-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 1D-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				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)				
10,300.0	7,180.0	10,502.9	7,400.0	60.3	60.6	-132.05	3,274.9	-289.1	328.5	236.8	91.75	3.580		
10,400.0	7,180.0	10,602.9	7,400.0	62.1	62.3	-131.75	3,374.9	-290.0	330.5	235.7	94.71	3.489		
10,500.0	7,180.0	10,702.8	7,400.0	63.8	64.0	-131.45	3,474.9	-290.8	332.4	234.7	97.69	3.403		
10,600.0	7,180.0	10,802.8	7,400.0	65.5	65.8	-131.15	3,574.8	-291.7	334.4	233.7	100.69	3.321		
10,700.0	7,180.0	10,902.8	7,400.0	67.2	67.5	-130.86	3,674.8	-292.6	336.4	232.6	103.71	3.243		
10,800.0	7,180.0	11,002.7	7,400.0	69.0	69.2	-130.57	3,774.7	-293.4	338.3	231.6	106.75	3.169		
10,900.0	7,180.0	11,102.7	7,400.0	70.7	70.9	-130.28	3,874.7	-294.3	340.3	230.5	109.80	3.099		
11,000.0	7,180.0	11,202.7	7,400.0	72.4	72.6	-130.00	3,974.7	-295.2	342.3	229.5	112.88	3.033		
11,100.0	7,180.0	11,302.6	7,400.0	74.1	74.4	-129.72	4,074.6	-296.1	344.3	228.4	115.96	2.969		
11,200.0	7,180.0	11,402.6	7,400.0	75.9	76.1	-129.44	4,174.6	-296.9	346.4	227.3	119.07	2.909		
11,300.0	7,180.0	11,502.6	7,400.0	77.6	77.8	-129.17	4,274.5	-297.8	348.4	226.2	122.19	2.851		
11,400.0	7,180.0	11,602.5	7,400.0	79.3	79.5	-128.90	4,374.5	-298.7	350.4	225.1	125.32	2.796		
11,500.0	7,180.0	11,702.5	7,400.0	81.1	81.3	-128.63	4,474.5	-299.6	352.5	224.0	128.47	2.744		
11,600.0	7,180.0	11,802.5	7,400.0	82.8	83.0	-128.37	4,574.4	-300.4	354.5	222.9	131.63	2.693		
11,700.0	7,180.0	11,902.4	7,400.0	84.5	84.7	-128.11	4,674.4	-301.3	356.6	221.8	134.81	2.645		
11,800.0	7,180.0	12,002.4	7,400.0	86.3	86.5	-127.85	4,774.4	-302.2	358.6	220.6	138.00	2.599		
11,900.0	7,180.0	12,102.4	7,400.0	88.0	88.2	-127.59	4,874.3	-303.0	360.7	219.5	141.20	2.555		
12,000.0	7,180.0	12,202.3	7,400.0	89.8	89.9	-127.34	4,974.3	-303.9	362.8	218.4	144.41	2.512		
12,100.0	7,180.0	12,302.3	7,400.0	91.5	91.7	-127.09	5,074.2	-304.8	364.9	217.2	147.64	2.471		
12,200.0	7,180.0	12,402.3	7,400.0	93.2	93.4	-126.85	5,174.2	-305.7	367.0	216.1	150.87	2.432		
12,300.0	7,180.0	12,502.2	7,400.0	95.0	95.1	-126.60	5,274.2	-306.5	369.1	214.9	154.12	2.395		
12,400.0	7,180.0	12,602.2	7,400.0	96.7	96.9	-126.36	5,374.1	-307.4	371.2	213.8	157.38	2.358		
12,500.0	7,180.0	12,702.2	7,400.0	98.5	98.6	-126.12	5,474.1	-308.3	373.3	212.6	160.65	2.324		
12,600.0	7,180.0	12,802.1	7,400.0	100.2	100.4	-125.89	5,574.1	-309.1	375.4	211.5	163.92	2.290		
12,700.0	7,180.0	12,902.1	7,400.0	101.9	102.1	-125.65	5,674.0	-310.0	377.5	210.3	167.21	2.258		
12,800.0	7,180.0	13,002.1	7,400.0	103.7	103.8	-125.42	5,774.0	-310.9	379.6	209.1	170.51	2.227		
12,900.0	7,180.0	13,102.0	7,400.0	105.4	105.6	-125.20	5,873.9	-311.8	381.8	208.0	173.82	2.196		
13,000.0	7,180.0	13,202.0	7,400.0	107.2	107.3	-124.97	5,973.9	-312.6	383.9	206.8	177.13	2.167		
13,100.0	7,180.0	13,301.9	7,400.0	108.9	109.1	-124.75	6,073.9	-313.5	386.1	205.6	180.45	2.139		
13,200.0	7,180.0	13,401.9	7,400.0	110.6	110.8	-124.53	6,173.8	-314.4	388.2	204.4	183.79	2.112		
13,300.0	7,180.0	13,501.9	7,400.0	112.4	112.5	-124.31	6,273.8	-315.3	390.4	203.3	187.13	2.086		
13,400.0	7,180.0	13,601.8	7,400.0	114.1	114.3	-124.10	6,373.7	-316.1	392.6	202.1	190.47	2.061		
13,500.0	7,180.0	13,701.8	7,400.0	115.9	116.0	-123.88	6,473.7	-317.0	394.7	200.9	193.83	2.036		
13,600.0	7,180.0	13,801.8	7,400.0	117.6	117.8	-123.67	6,573.7	-317.9	396.9	199.7	197.19	2.013		
13,700.0	7,180.0	13,901.7	7,400.0	119.4	119.5	-123.46	6,673.6	-318.7	399.1	198.5	200.56	1.990		
13,800.0	7,180.0	14,001.7	7,400.0	121.1	121.2	-123.26	6,773.6	-319.6	401.3	197.3	203.94	1.968		
13,900.0	7,180.0	14,101.7	7,400.0	122.9	123.0	-123.05	6,873.6	-320.5	403.5	196.1	207.32	1.946		
14,000.0	7,180.0	14,201.6	7,400.0	124.6	124.7	-122.85	6,973.5	-321.4	405.7	194.9	210.71	1.925		
14,100.0	7,180.0	14,301.6	7,400.0	126.4	126.5	-122.65	7,073.5	-322.2	407.9	193.8	214.10	1.905		
14,200.0	7,180.0	14,401.6	7,400.0	128.1	128.2	-122.45	7,173.4	-323.1	410.1	192.6	217.50	1.885		
14,300.0	7,180.0	14,501.5	7,400.0	129.8	130.0	-122.26	7,273.4	-324.0	412.3	191.4	220.91	1.866		
14,327.4	7,180.0	14,528.9	7,400.0	130.3	130.4	-122.21	7,300.8	-324.2	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 1D-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 1D-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		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	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		
400.0	400.0	400.0	400.0	0.7	0.7	90.02	0.0	11.2	11.2	9.9	1.31	8.543		
500.0	500.0	500.0	500.0	0.8	0.8	90.02	0.0	11.2	11.2	9.5	1.66	6.745 CC, ES		
600.0	600.0	599.8	599.8	1.0	1.0	91.07	-0.2	12.0	12.0	10.0	2.01	5.993		
700.0	700.0	699.5	699.5	1.2	1.2	93.48	-0.9	14.5	14.6	12.2	2.36	6.183		
800.0	800.0	799.2	799.0	1.4	1.4	96.05	-2.0	18.7	18.9	16.2	2.71	6.957		
900.0	900.0	898.9	898.7	1.5	1.6	98.00	-3.4	24.1	24.3	21.3	3.07	7.935		
1,000.0	1,000.0	998.8	998.3	1.7	1.7	99.24	-4.8	29.4	29.9	26.5	3.43	8.720		
1,100.0	1,100.0	1,098.6	1,098.0	1.9	1.9	100.10	-6.2	34.8	35.4	31.6	3.79	9.358		
1,200.0	1,200.0	1,198.5	1,197.7	2.1	2.1	100.72	-7.6	40.2	41.0	36.8	4.14	9.885		
1,300.0	1,300.0	1,298.3	1,297.4	2.2	2.3	101.19	-9.0	45.6	46.5	42.0	4.50	10.328		
1,400.0	1,400.0	1,398.2	1,397.1	2.4	2.5	101.57	-10.4	50.9	52.1	47.2	4.87	10.704		
1,500.0	1,500.0	1,498.0	1,496.8	2.6	2.7	101.87	-11.8	56.3	57.6	52.4	5.23	11.029		
1,600.0	1,600.0	1,597.9	1,596.5	2.7	2.9	102.12	-13.2	61.7	63.2	57.6	5.59	11.312		
1,700.0	1,700.0	1,697.7	1,696.2	2.9	3.1	102.33	-14.7	67.1	68.8	62.8	5.95	11.560		
1,800.0	1,800.0	1,797.5	1,795.9	3.1	3.3	102.50	-16.1	72.4	74.3	68.0	6.31	11.779		
1,900.0	1,900.0	1,897.4	1,895.6	3.3	3.5	102.65	-17.5	77.8	79.9	73.2	6.67	11.975		
2,000.0	2,000.0	1,997.2	1,995.2	3.4	3.7	102.79	-18.9	83.2	85.4	78.4	7.03	12.150		
2,100.0	2,100.0	2,097.1	2,094.9	3.6	3.9	102.90	-20.3	88.6	91.0	83.6	7.39	12.309		
2,200.0	2,200.0	2,196.9	2,194.6	3.8	4.1	103.01	-21.7	93.9	96.6	88.8	7.75	12.452		
2,300.0	2,300.0	2,296.8	2,294.3	4.0	4.3	103.10	-23.1	99.3	102.1	94.0	8.12	12.583		
2,400.0	2,400.0	2,396.6	2,394.0	4.1	4.5	103.18	-24.5	104.7	107.7	99.2	8.48	12.702		
2,500.0	2,500.0	2,496.5	2,493.7	4.3	4.7	103.25	-25.9	110.0	113.2	104.4	8.84	12.811		
2,600.0	2,600.0	2,596.3	2,593.4	4.5	4.9	103.32	-27.3	115.4	118.8	109.6	9.20	12.912		
2,700.0	2,700.0	2,696.2	2,693.1	4.7	5.1	103.38	-28.7	120.8	124.4	114.8	9.56	13.005		
2,800.0	2,800.0	2,796.0	2,792.8	4.8	5.3	103.44	-30.1	126.2	129.9	120.0	9.92	13.092		
2,900.0	2,900.0	2,895.8	2,892.5	5.0	5.5	103.49	-31.6	131.5	135.5	125.2	10.29	13.172		
3,000.0	3,000.0	2,895.7	2,892.2	5.2	5.7	103.54	-33.0	136.9	141.0	130.4	10.65	13.247		
3,100.0	3,100.0	3,095.5	3,091.8	5.4	5.9	-122.65	-34.4	142.3	147.1	136.4	10.72	13.717		
3,200.0	3,200.0	3,195.2	3,191.4	5.5	6.1	-123.36	-35.8	147.7	154.1	143.0	11.07	13.918		
3,300.0	3,299.9	3,294.9	3,290.9	5.7	6.3	-124.34	-37.2	153.0	161.6	150.2	11.42	14.152		
3,400.0	3,399.8	3,394.6	3,390.4	5.9	6.5	-125.23	-38.6	158.4	169.2	157.4	11.77	14.374		
3,500.0	3,499.8	3,494.3	3,490.0	6.1	6.7	-126.04	-40.0	163.8	176.8	164.7	12.12	14.585		
3,600.0	3,599.7	3,594.0	3,589.5	6.2	6.9	-126.79	-41.4	169.1	184.4	172.0	12.47	14.787		
3,700.0	3,699.6	3,693.6	3,689.0	6.4	7.1	-127.47	-42.8	174.5	192.1	179.3	12.82	14.979		
3,800.0	3,799.6	3,793.3	3,788.5	6.6	7.3	-128.11	-44.2	179.8	199.8	186.6	13.18	15.163		
3,900.0	3,899.5	3,893.0	3,888.1	6.8	7.5	-128.69	-45.6	185.2	207.5	194.0	13.53	15.338		
4,000.0	3,999.5	3,992.7	3,987.6	7.0	7.7	-129.24	-47.0	190.6	215.3	201.4	13.88	15.506		
4,100.0	4,099.4	4,092.4	4,087.1	7.1	7.9	-129.75	-48.4	195.9	223.0	208.8	14.24	15.666		
4,200.0	4,199.3	4,192.0	4,186.6	7.3	8.1	-130.22	-49.8	201.3	230.8	216.2	14.59	15.819		
4,300.0	4,299.3	4,291.7	4,286.2	7.5	8.3	-130.66	-51.3	206.7	238.6	223.6	14.94	15.966		
4,400.0	4,399.2	4,391.4	4,385.7	7.7	8.5	-131.07	-52.7	212.0	246.4	231.1	15.30	16.107		
4,500.0	4,499.1	4,491.1	4,485.2	7.9	8.7	-131.46	-54.1	217.4	254.2	238.6	15.65	16.242		
4,600.0	4,599.1	4,590.8	4,584.7	8.0	8.9	-131.83	-55.5	222.8	262.0	246.0	16.01	16.372		
4,700.0	4,699.0	4,690.4	4,684.3	8.2	9.1	-132.17	-56.9	228.1	269.9	253.5	16.36	16.496		
4,800.0	4,799.0	4,790.1	4,783.8	8.4	9.3	-132.50	-58.3	233.5	277.7	261.0	16.71	16.616		
4,900.0	4,898.9	4,889.8	4,883.3	8.6	9.5	-132.80	-59.7	238.9	285.6	268.5	17.07	16.731		
5,000.0	4,998.8	4,989.5	4,982.9	8.8	9.7	-133.09	-61.1	244.2	293.4	276.0	17.42	16.842		
5,100.0	5,098.8	5,089.2	5,082.4	8.9	9.9	-133.37	-62.5	249.6	301.3	283.5	17.78	16.948		

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 1D-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 1D-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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,200.0	5,198.7	5,188.8	5,181.9	9.1	10.1	-133.63	-63.9	254.9	309.2	291.0	18.13	17.051		
5,300.0	5,298.6	5,288.5	5,281.4	9.3	10.3	-133.88	-65.3	260.3	317.1	298.6	18.49	17.150		
5,400.0	5,398.6	5,388.2	5,381.0	9.5	10.4	-134.11	-66.7	265.7	324.9	306.1	18.84	17.246		
5,500.0	5,498.5	5,487.9	5,480.5	9.7	10.6	-134.34	-68.1	271.0	332.8	313.6	19.20	17.338		
5,600.0	5,598.5	5,587.6	5,580.0	9.9	10.8	-134.55	-69.5	276.4	340.7	321.2	19.55	17.427		
5,700.0	5,698.4	5,687.2	5,679.5	10.0	11.0	-134.76	-70.9	281.8	348.6	328.7	19.91	17.513		
5,800.0	5,798.3	5,786.9	5,779.1	10.2	11.2	-134.95	-72.3	287.1	356.5	336.3	20.26	17.596		
5,900.0	5,898.3	5,886.6	5,878.6	10.4	11.4	-135.14	-73.8	292.5	364.4	343.8	20.62	17.677		
6,000.0	5,998.2	5,986.3	5,978.1	10.6	11.6	-135.32	-75.2	297.9	372.4	351.4	20.97	17.755		
6,100.0	6,098.1	6,086.0	6,077.6	10.8	11.8	-135.49	-76.6	303.2	380.3	358.9	21.33	17.830		
6,200.0	6,198.1	6,185.6	6,177.2	11.0	12.0	-135.66	-78.0	308.6	388.2	366.5	21.68	17.904		
6,300.0	6,298.0	6,285.3	6,276.7	11.1	12.2	-135.82	-79.4	314.0	396.1	374.1	22.04	17.974		
6,400.0	6,397.9	6,385.0	6,376.2	11.3	12.4	-135.97	-80.8	319.3	404.0	381.6	22.39	18.043		
6,500.0	6,497.9	6,484.7	6,475.7	11.5	12.6	-136.11	-82.2	324.7	412.0	389.2	22.75	18.110		
6,600.0	6,597.8	6,584.4	6,575.3	11.7	12.8	-148.09	-83.6	330.1	419.9	396.8	23.10	18.174		
6,700.0	6,697.4	6,683.6	6,674.3	11.8	13.0	98.14	-85.0	335.4	427.7	404.2	23.43	18.256		
6,800.0	6,794.3	6,779.8	6,770.4	12.0	13.2	95.89	-86.4	340.6	436.0	412.3	23.69	18.402		
6,900.0	6,885.4	6,876.1	6,866.5	12.1	13.4	98.32	-85.8	345.8	447.1	423.2	23.92	18.690		
7,000.0	6,968.1	6,984.3	6,973.0	12.3	13.6	101.82	-68.4	351.5	461.2	437.0	24.16	19.086		
7,100.0	7,039.9	7,104.0	7,084.6	12.7	13.8	105.43	-26.2	357.5	476.9	452.4	24.48	19.478		
7,200.0	7,098.5	7,237.6	7,195.8	13.2	14.1	108.88	47.1	363.5	492.5	467.5	24.99	19.712		
8,700.0	7,180.0	8,928.8	7,400.0	33.4	34.1	116.18	1,677.3	374.5	498.7	437.9	60.83	8.199		
8,800.0	7,180.0	9,028.8	7,400.0	35.0	35.7	116.27	1,777.3	374.5	497.1	433.4	63.72	7.802		
8,900.0	7,180.0	9,128.8	7,400.0	36.6	37.3	116.36	1,877.3	374.5	495.6	429.0	66.63	7.438		
9,000.0	7,180.0	9,228.8	7,400.0	38.3	39.0	116.45	1,977.3	374.5	494.0	424.5	69.55	7.103		
9,100.0	7,180.0	9,328.8	7,400.0	40.0	40.6	116.54	2,077.2	374.5	492.5	420.0	72.48	6.794		
9,200.0	7,180.0	9,428.7	7,400.0	41.6	42.3	116.63	2,177.2	374.5	490.9	415.5	75.42	6.509		
9,300.0	7,180.0	9,528.7	7,400.0	43.3	43.9	116.72	2,277.2	374.5	489.3	411.0	78.37	6.244		
9,400.0	7,180.0	9,628.7	7,400.0	45.0	45.6	116.81	2,377.2	374.5	487.8	406.5	81.32	5.998		
9,500.0	7,180.0	9,728.7	7,400.0	46.7	47.3	116.91	2,477.2	374.5	486.2	401.9	84.27	5.770		
9,600.0	7,180.0	9,828.7	7,400.0	48.4	48.9	117.00	2,577.2	374.5	484.7	397.4	87.23	5.556		
9,700.0	7,180.0	9,928.7	7,400.0	50.1	50.6	117.09	2,677.1	374.5	483.1	392.9	90.19	5.357		
9,800.0	7,180.0	10,028.6	7,400.0	51.8	52.3	117.19	2,777.1	374.5	481.6	388.4	93.15	5.170		
9,900.0	7,180.0	10,128.6	7,400.0	53.5	54.0	117.28	2,877.1	374.5	480.0	383.9	96.11	4.994		
10,000.0	7,180.0	10,228.6	7,400.0	55.2	55.7	117.38	2,977.1	374.5	478.5	379.4	99.07	4.829		
10,100.0	7,180.0	10,328.6	7,400.0	56.9	57.4	117.48	3,077.1	374.5	476.9	374.9	102.03	4.674		
10,200.0	7,180.0	10,428.6	7,400.0	58.6	59.1	117.57	3,177.1	374.5	475.4	370.4	104.99	4.528		
10,300.0	7,180.0	10,528.6	7,400.0	60.3	60.8	117.67	3,277.1	374.5	473.8	365.9	107.94	4.390		
10,400.0	7,180.0	10,628.6	7,400.0	62.1	62.5	117.77	3,377.0	374.5	472.3	361.4	110.90	4.259		
10,500.0	7,180.0	10,728.5	7,400.0	63.8	64.2	117.87	3,477.0	374.5	470.7	356.9	113.85	4.135		
10,600.0	7,180.0	10,828.5	7,400.0	65.5	65.9	117.97	3,577.0	374.5	469.2	352.4	116.79	4.017		
10,700.0	7,180.0	10,928.5	7,400.0	67.2	67.6	118.07	3,677.0	374.5	467.6	347.9	119.74	3.906		
10,800.0	7,180.0	11,028.5	7,400.0	69.0	69.4	118.17	3,777.0	374.5	466.1	343.4	122.68	3.799		
10,900.0	7,180.0	11,128.5	7,400.0	70.7	71.1	118.27	3,877.0	374.5	464.6	339.0	125.61	3.698		
11,000.0	7,180.0	11,228.5	7,400.0	72.4	72.8	118.37	3,977.0	374.5	463.0	334.5	128.54	3.602		
11,100.0	7,180.0	11,328.4	7,400.0	74.1	74.5	118.47	4,076.9	374.5	461.5	330.0	131.47	3.510		
11,200.0	7,180.0	11,428.4	7,400.0	75.9	76.2	118.58	4,176.9	374.5	460.0	325.6	134.39	3.423		
11,300.0	7,180.0	11,528.4	7,400.0	77.6	78.0	118.68	4,276.9	374.5	458.4	321.1	137.31	3.339		
11,400.0	7,180.0	11,628.4	7,400.0	79.3	79.7	118.79	4,376.9	374.5	456.9	316.7	140.22	3.258		
11,500.0	7,180.0	11,728.4	7,400.0	81.1	81.4	118.89	4,476.9	374.5	455.4	312.2	143.12	3.182		
11,600.0	7,180.0	11,828.4	7,400.0	82.8	83.1	119.00	4,576.9	374.5	453.8	307.8	146.02	3.108		
11,700.0	7,180.0	11,928.4	7,400.0	84.5	84.9	119.11	4,676.8	374.5	452.3	303.4	148.92	3.037		

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 1D-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 1D-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							
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	
11,800.0	7,180.0	12,028.3	7,400.0	86.3	86.6	119.22	4,776.8	374.5	450.8	299.0	151.80	2.970		
11,900.0	7,180.0	12,128.3	7,400.0	88.0	88.3	119.32	4,876.8	374.5	449.3	294.6	154.68	2.904		
12,000.0	7,180.0	12,228.3	7,400.0	89.8	90.1	119.43	4,976.8	374.5	447.7	290.2	157.56	2.842		
12,100.0	7,180.0	12,328.3	7,400.0	91.5	91.8	119.54	5,076.8	374.5	446.2	285.8	160.42	2.782		
12,200.0	7,180.0	12,428.3	7,400.0	93.2	93.5	119.65	5,176.8	374.5	444.7	281.4	163.28	2.724		
12,300.0	7,180.0	12,528.3	7,400.0	95.0	95.3	119.77	5,276.8	374.5	443.2	277.1	166.13	2.668		
12,400.0	7,180.0	12,628.2	7,400.0	96.7	97.0	119.88	5,376.7	374.5	441.7	272.7	168.98	2.614		
12,500.0	7,180.0	12,728.2	7,400.0	98.5	98.7	119.99	5,476.7	374.5	440.2	268.4	171.81	2.562		
12,600.0	7,180.0	12,828.2	7,400.0	100.2	100.5	120.11	5,576.7	374.5	438.7	264.0	174.64	2.512		
12,700.0	7,180.0	12,928.2	7,400.0	101.9	102.2	120.22	5,676.7	374.5	437.1	259.7	177.47	2.463		
12,800.0	7,180.0	13,028.2	7,400.0	103.7	103.9	120.34	5,776.7	374.5	435.6	255.4	180.28	2.416		
12,900.0	7,180.0	13,128.2	7,400.0	105.4	105.7	120.45	5,876.7	374.5	434.1	251.1	183.08	2.371		
13,000.0	7,180.0	13,228.2	7,400.0	107.2	107.4	120.57	5,976.6	374.5	432.6	246.8	185.88	2.327		
13,100.0	7,180.0	13,328.1	7,400.0	108.9	109.2	120.69	6,076.6	374.5	431.1	242.5	188.67	2.285		
13,200.0	7,180.0	13,428.1	7,400.0	110.6	110.9	120.81	6,176.6	374.5	429.6	238.2	191.44	2.244		
13,300.0	7,180.0	13,528.1	7,400.0	112.4	112.6	120.93	6,276.6	374.5	428.1	233.9	194.21	2.204		
13,400.0	7,180.0	13,628.1	7,400.0	114.1	114.4	121.05	6,376.6	374.5	426.6	229.7	196.97	2.166		
13,500.0	7,180.0	13,728.1	7,400.0	115.9	116.1	121.17	6,476.6	374.5	425.1	225.4	199.72	2.129		
13,600.0	7,180.0	13,828.1	7,400.0	117.6	117.9	121.29	6,576.6	374.5	423.6	221.2	202.47	2.092		
13,700.0	7,180.0	13,928.1	7,400.0	119.4	119.6	121.41	6,676.5	374.5	422.2	217.0	205.20	2.057		
13,800.0	7,180.0	14,028.0	7,400.0	121.1	121.3	121.54	6,776.5	374.5	420.7	212.8	207.92	2.023		
13,900.0	7,180.0	14,128.0	7,400.0	122.9	123.1	121.66	6,876.5	374.5	419.2	208.6	210.63	1.990		
14,000.0	7,180.0	14,228.0	7,400.0	124.6	124.8	121.79	6,976.5	374.5	417.7	204.4	213.33	1.958		
14,100.0	7,180.0	14,328.0	7,400.0	126.4	126.6	121.91	7,076.5	374.5	416.2	200.2	216.02	1.927		
14,200.0	7,180.0	14,428.0	7,400.0	128.1	128.3	122.04	7,176.5	374.5	414.7	196.0	218.70	1.896		
14,300.0	7,180.0	14,528.0	7,400.0	129.8	130.1	122.17	7,276.4	374.5	413.3	191.9	221.37	1.867		
14,327.4	7,180.0	14,555.4	7,400.0	130.3	130.5	122.20	7,303.8	374.5	412.9	190.8	222.10	1.859 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1D-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 1D-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	90.01	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			
400.0	400.0	400.0	400.0	0.7	0.7	90.01	0.0	19.6	19.6	18.3	1.31	14.951 CC, ES			
500.0	500.0	499.7	499.6	0.8	0.8	90.37	-0.1	20.4	20.4	18.8	1.66	12.324			
600.0	600.0	599.2	599.2	1.0	1.0	91.27	-0.5	23.0	23.0	21.0	2.01	11.460 SF			
700.0	700.0	698.7	698.6	1.2	1.2	92.39	-1.1	27.3	27.3	25.0	2.36	11.569			
800.0	800.0	798.0	797.7	1.4	1.4	93.48	-2.0	33.2	33.4	30.7	2.72	12.264			
900.0	900.0	897.1	896.4	1.5	1.6	94.40	-3.1	40.9	41.2	38.1	3.09	13.329			
1,000.0	1,000.0	996.1	995.0	1.7	1.8	95.14	-4.5	50.2	50.6	47.1	3.46	14.620			
1,100.0	1,100.0	1,095.6	1,094.0	1.9	2.0	95.67	-5.9	59.9	60.5	56.7	3.84	15.761			
1,200.0	1,200.0	1,195.1	1,193.0	2.1	2.3	96.05	-7.4	69.7	70.4	66.2	4.22	16.691			
1,300.0	1,300.0	1,294.6	1,292.1	2.2	2.5	96.34	-8.8	79.4	80.3	75.7	4.60	17.462			
1,400.0	1,400.0	1,394.1	1,391.1	2.4	2.7	96.57	-10.3	89.2	90.2	85.2	4.98	18.111			
1,500.0	1,500.0	1,493.6	1,490.1	2.6	3.0	96.75	-11.7	98.9	100.1	94.7	5.36	18.664			
1,600.0	1,600.0	1,593.1	1,589.1	2.7	3.2	96.89	-13.1	108.7	110.0	104.3	5.75	19.142			
1,700.0	1,700.0	1,692.6	1,688.1	2.9	3.4	97.02	-14.6	118.4	119.9	113.8	6.13	19.558			
1,800.0	1,800.0	1,792.1	1,787.1	3.1	3.7	97.12	-16.0	128.2	129.8	123.3	6.52	19.923			
1,900.0	1,900.0	1,891.6	1,886.2	3.3	3.9	97.21	-17.4	137.9	139.7	132.8	6.90	20.247			
2,000.0	2,000.0	1,991.1	1,985.2	3.4	4.2	97.29	-18.9	147.7	149.6	142.3	7.29	20.536			
2,100.0	2,100.0	2,090.7	2,084.2	3.6	4.4	97.36	-20.3	157.4	159.5	151.9	7.67	20.794			
2,200.0	2,200.0	2,190.2	2,183.2	3.8	4.6	97.42	-21.8	167.2	169.4	161.4	8.06	21.028			
2,300.0	2,300.0	2,289.7	2,282.2	4.0	4.9	97.47	-23.2	176.9	179.3	170.9	8.44	21.240			
2,400.0	2,400.0	2,389.2	2,381.3	4.1	5.1	97.52	-24.6	186.7	189.2	180.4	8.83	21.432			
2,500.0	2,500.0	2,488.7	2,480.3	4.3	5.4	97.56	-26.1	196.4	199.1	189.9	9.22	21.609			
2,600.0	2,600.0	2,588.2	2,579.3	4.5	5.6	97.60	-27.5	206.2	209.1	199.5	9.60	21.770			
2,700.0	2,700.0	2,687.7	2,678.3	4.7	5.9	97.64	-28.9	216.0	219.0	209.0	9.99	21.919			
2,800.0	2,800.0	2,787.2	2,777.3	4.8	6.1	97.67	-30.4	225.7	228.9	218.5	10.38	22.057			
2,900.0	2,900.0	2,886.7	2,876.3	5.0	6.3	97.70	-31.8	235.5	238.8	228.0	10.76	22.185			
3,000.0	3,000.0	2,986.2	2,975.4	5.2	6.6	97.72	-33.3	245.2	248.7	237.5	11.15	22.303			
3,100.0	3,100.0	3,085.7	3,074.3	5.4	6.8	-128.32	-34.7	255.0	259.1	248.4	10.70	24.219			
3,200.0	3,200.0	3,185.0	3,173.2	5.5	7.1	-128.63	-36.1	264.7	270.7	259.6	11.04	24.509			
3,300.0	3,299.9	3,284.2	3,271.9	5.7	7.3	-129.15	-37.6	274.4	282.8	271.4	11.39	24.824			
3,400.0	3,399.8	3,383.5	3,370.6	5.9	7.6	-129.63	-39.0	284.1	294.9	283.2	11.74	25.120			
3,500.0	3,499.8	3,482.7	3,469.4	6.1	7.8	-130.07	-40.4	293.9	307.1	295.0	12.09	25.399			
3,600.0	3,599.7	3,581.9	3,568.1	6.2	8.0	-130.48	-41.9	303.6	319.3	306.8	12.44	25.663			
3,700.0	3,699.6	3,681.1	3,666.9	6.4	8.3	-130.86	-43.3	313.3	331.4	318.7	12.79	25.913			
3,800.0	3,799.6	3,780.4	3,765.6	6.6	8.5	-131.21	-44.7	323.0	343.7	330.5	13.14	26.150			
3,900.0	3,899.5	3,879.6	3,864.4	6.8	8.8	-131.54	-46.2	332.8	355.9	342.4	13.49	26.374			
4,000.0	3,999.5	3,978.8	3,963.1	7.0	9.0	-131.84	-47.6	342.5	368.1	354.3	13.84	26.588			
4,100.0	4,099.4	4,078.1	4,061.8	7.1	9.3	-132.13	-49.0	352.2	380.3	366.1	14.20	26.791			
4,200.0	4,199.3	4,177.3	4,160.6	7.3	9.5	-132.39	-50.5	362.0	392.6	378.0	14.55	26.984			
4,300.0	4,299.3	4,276.5	4,259.3	7.5	9.7	-132.65	-51.9	371.7	404.8	389.9	14.90	27.168			
4,400.0	4,399.2	4,375.8	4,358.1	7.7	10.0	-132.88	-53.3	381.4	417.1	401.9	15.25	27.344			
4,500.0	4,499.1	4,475.0	4,456.8	7.9	10.2	-133.10	-54.8	391.1	429.4	413.8	15.61	27.512			
4,600.0	4,599.1	4,574.2	4,555.6	8.0	10.5	-133.32	-56.2	400.9	441.6	425.7	15.96	27.673			
4,700.0	4,699.0	4,673.5	4,654.3	8.2	10.7	-133.52	-57.6	410.6	453.9	437.6	16.31	27.827			
4,800.0	4,799.0	4,772.7	4,753.0	8.4	11.0	-133.70	-59.1	420.3	466.2	449.5	16.67	27.974			
4,900.0	4,898.9	4,871.9	4,851.8	8.6	11.2	-133.88	-60.5	430.0	478.5	461.5	17.02	28.116			
5,000.0	4,998.8	4,971.1	4,950.5	8.8	11.5	-134.05	-61.9	439.8	490.8	473.4	17.37	28.251			

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 1D-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 1D-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 1G-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	399.5	399.5	0.7	0.7	90.14	-0.1	31.6	31.6	30.3	1.31	24.164		
500.0	500.0	498.9	498.8	0.8	0.8	90.52	-0.3	34.2	34.2	32.6	1.66	20.622		
600.0	600.0	598.1	598.0	1.0	1.0	91.05	-0.7	38.5	38.5	36.5	2.01	19.138		
700.0	700.0	697.2	696.9	1.2	1.2	91.61	-1.2	44.5	44.6	42.2	2.37	18.784 SF		
800.0	800.0	796.1	795.5	1.4	1.4	92.14	-1.9	52.1	52.4	49.6	2.74	19.103		
900.0	900.0	894.7	893.6	1.5	1.6	92.60	-2.8	61.5	61.9	58.7	3.12	19.844		
1,000.0	1,000.0	992.9	991.2	1.7	1.9	93.00	-3.8	72.4	73.1	69.6	3.50	20.855		
1,100.0	1,100.0	1,090.7	1,088.2	1.9	2.1	93.32	-4.9	85.0	86.0	82.1	3.90	22.039		
1,200.0	1,200.0	1,188.0	1,184.5	2.1	2.4	93.59	-6.2	99.2	100.6	96.2	4.31	23.335		
1,300.0	1,300.0	1,286.7	1,282.0	2.2	2.7	93.81	-7.6	114.4	116.1	111.4	4.73	24.563		
1,400.0	1,400.0	1,385.5	1,379.5	2.4	3.0	93.97	-9.0	129.7	131.6	126.5	5.15	25.576		
1,500.0	1,500.0	1,484.3	1,477.1	2.6	3.3	94.10	-10.4	145.0	147.2	141.6	5.57	26.425		
1,600.0	1,600.0	1,583.1	1,574.7	2.7	3.6	94.21	-11.8	160.3	162.7	156.7	5.99	27.146		
1,700.0	1,700.0	1,681.8	1,672.3	2.9	4.0	94.29	-13.2	175.6	178.3	171.8	6.42	27.765		
1,800.0	1,800.0	1,780.6	1,769.9	3.1	4.3	94.36	-14.6	190.9	193.8	187.0	6.85	28.302		
1,900.0	1,900.0	1,879.4	1,867.5	3.3	4.6	94.43	-16.0	206.2	209.3	202.1	7.28	28.773		
2,000.0	2,000.0	1,978.2	1,965.0	3.4	4.9	94.48	-17.4	221.5	224.9	217.2	7.70	29.188		
2,100.0	2,100.0	2,077.0	2,062.6	3.6	5.2	94.53	-18.7	236.8	240.4	232.3	8.13	29.558		
2,200.0	2,200.0	2,175.8	2,160.2	3.8	5.5	94.57	-20.1	252.1	256.0	247.4	8.56	29.888		
2,300.0	2,300.0	2,274.6	2,257.8	4.0	5.8	94.60	-21.5	267.4	271.5	262.5	9.00	30.185		
2,400.0	2,400.0	2,373.3	2,355.4	4.1	6.2	94.64	-22.9	282.7	287.1	277.6	9.43	30.454		
2,500.0	2,500.0	2,472.1	2,453.0	4.3	6.5	94.66	-24.3	297.9	302.6	292.8	9.86	30.698		
2,600.0	2,600.0	2,570.9	2,550.5	4.5	6.8	94.69	-25.7	313.2	318.2	307.9	10.29	30.921		
2,700.0	2,700.0	2,669.7	2,648.1	4.7	7.1	94.71	-27.1	328.5	333.7	323.0	10.72	31.125		
2,800.0	2,800.0	2,768.5	2,745.7	4.8	7.4	94.74	-28.5	343.8	349.3	338.1	11.15	31.313		
2,900.0	2,900.0	2,867.3	2,843.3	5.0	7.7	94.76	-29.9	359.1	364.8	353.2	11.59	31.486		
3,000.0	3,000.0	2,966.0	2,940.9	5.2	8.1	94.77	-31.3	374.4	380.3	368.3	12.02	31.647		
3,100.0	3,100.0	3,064.7	3,038.4	5.4	8.4	-131.18	-32.7	389.7	396.5	385.8	10.65	37.218		
3,200.0	3,200.0	3,163.2	3,135.7	5.5	8.7	-131.30	-34.0	404.9	413.7	402.7	10.99	37.639		
3,300.0	3,299.9	3,261.6	3,232.8	5.7	9.0	-131.63	-35.4	420.2	431.6	420.2	11.34	38.066		
3,400.0	3,399.8	3,359.9	3,330.0	5.9	9.3	-131.93	-36.8	435.4	449.4	437.8	11.68	38.466		
3,500.0	3,499.8	3,458.3	3,427.1	6.1	9.7	-132.22	-38.2	450.6	467.3	455.3	12.03	38.843		
3,600.0	3,599.7	3,556.7	3,524.3	6.2	10.0	-132.48	-39.6	465.9	485.2	472.9	12.38	39.198		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1D-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 1D-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	90.01	0.0	41.9	41.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.01	0.0	41.9	41.9	41.7	0.26	160.188		
200.0	200.0	200.0	200.0	0.3	0.3	90.01	0.0	41.9	41.9	41.3	0.61	68.652 CC, ES		
300.0	300.0	299.3	299.3	0.5	0.5	90.09	-0.1	42.8	42.8	41.8	0.96	44.622		
400.0	400.0	398.5	398.4	0.7	0.7	90.31	-0.2	45.4	45.4	44.1	1.31	34.652		
500.0	500.0	497.6	497.4	0.8	0.8	90.63	-0.5	49.6	49.7	48.0	1.67	29.855		
600.0	600.0	596.5	596.2	1.0	1.0	90.99	-1.0	55.6	55.8	53.7	2.03	27.514		
700.0	700.0	695.1	694.5	1.2	1.3	91.35	-1.5	63.3	63.5	61.1	2.40	26.516		
800.0	800.0	793.5	792.5	1.4	1.5	91.69	-2.1	72.6	73.0	70.2	2.77	26.317 SF		
900.0	900.0	891.5	889.9	1.5	1.7	91.99	-2.9	83.5	84.2	81.0	3.16	26.620		
1,000.0	1,000.0	989.2	986.7	1.7	2.0	92.26	-3.8	96.1	97.1	93.5	3.56	27.246		
1,100.0	1,100.0	1,086.3	1,082.8	1.9	2.3	92.48	-4.8	110.2	111.6	107.7	3.97	28.083		
1,200.0	1,200.0	1,183.0	1,178.2	2.1	2.6	92.67	-5.9	125.8	127.9	123.5	4.40	29.058		
1,300.0	1,300.0	1,279.1	1,272.7	2.2	2.9	92.83	-7.1	143.0	145.8	140.9	4.84	30.119		
1,400.0	1,400.0	1,374.6	1,366.4	2.4	3.3	92.96	-8.4	161.6	165.3	160.0	5.29	31.231		
1,500.0	1,500.0	1,471.0	1,460.7	2.6	3.7	93.08	-9.8	181.8	186.2	180.5	5.76	32.348		
1,600.0	1,600.0	1,568.8	1,556.2	2.7	4.1	93.17	-11.2	202.4	207.3	201.1	6.23	33.282		
1,700.0	1,700.0	1,666.5	1,651.8	2.9	4.4	93.25	-12.6	222.9	228.5	221.8	6.71	34.072		
1,800.0	1,800.0	1,764.3	1,747.3	3.1	4.8	93.31	-14.1	243.5	249.6	242.4	7.18	34.747		
1,900.0	1,900.0	1,862.0	1,842.8	3.3	5.2	93.36	-15.5	264.1	270.7	263.0	7.66	35.331		
2,000.0	2,000.0	1,959.8	1,938.4	3.4	5.6	93.41	-17.0	284.7	291.8	283.7	8.14	35.840		
2,100.0	2,100.0	2,057.5	2,033.9	3.6	6.0	93.45	-18.4	305.3	312.9	304.3	8.62	36.287		
2,200.0	2,200.0	2,155.2	2,129.5	3.8	6.4	93.48	-19.8	325.9	334.0	324.9	9.11	36.684		
2,300.0	2,300.0	2,253.0	2,225.0	4.0	6.8	93.51	-21.3	346.5	355.1	345.5	9.59	37.038		
2,400.0	2,400.0	2,350.7	2,320.6	4.1	7.2	93.54	-22.7	367.1	376.3	366.2	10.07	37.355		
2,500.0	2,500.0	2,448.5	2,416.1	4.3	7.6	93.56	-24.1	387.7	397.4	386.8	10.56	37.642		
2,600.0	2,600.0	2,546.2	2,511.6	4.5	8.0	93.59	-25.6	408.2	418.5	407.4	11.04	37.901		
2,700.0	2,700.0	2,644.0	2,607.2	4.7	8.4	93.61	-27.0	428.8	439.6	428.1	11.53	38.138		
2,800.0	2,800.0	2,741.7	2,702.7	4.8	8.8	93.62	-28.5	449.4	460.7	448.7	12.01	38.354		
2,900.0	2,900.0	2,839.5	2,798.3	5.0	9.2	93.64	-29.9	470.0	481.8	469.3	12.50	38.553		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Grant-Hurt 1D-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 1D-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 1 (EXISTING) - WHITEWING WE										Offset Site Error:		0.0 ft	
Survey Program:		7990-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			
7,400.0	7,169.6	7,135.6	7,135.6	14.8	12.5	65.98	797.8	89.5	458.6	433.0	25.58	17.929			
7,500.0	7,179.9	7,145.9	7,145.9	15.8	12.5	88.29	797.8	89.5	369.1	341.0	28.15	13.111			
7,600.0	7,180.0	7,146.0	7,146.0	17.0	12.5	90.00	797.8	89.5	285.6	256.2	29.33	9.736			
7,700.0	7,180.0	7,146.0	7,146.0	18.2	12.5	90.00	797.8	89.5	216.5	185.9	30.60	7.075			
7,800.0	7,180.0	7,146.0	7,146.0	19.5	12.5	90.00	797.8	89.5	179.4	147.4	31.94	5.617			
7,823.4	7,180.0	7,146.0	7,146.0	19.9	12.5	90.00	797.8	89.5	177.8	145.6	32.27	5.512	CC, ES, SF		
7,900.0	7,180.0	7,146.0	7,146.0	20.9	12.5	90.00	797.8	89.5	193.6	160.3	33.34	5.808			
8,000.0	7,180.0	7,146.0	7,146.0	22.4	12.5	90.00	797.8	89.5	250.6	215.8	34.79	7.203			
8,100.0	7,180.0	7,146.0	7,146.0	23.9	12.5	90.00	797.8	89.5	328.8	292.5	36.28	9.062			
8,200.0	7,180.0	7,146.0	7,146.0	25.4	12.5	90.00	797.8	89.5	416.4	378.6	37.81	11.014			

## 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 1D-14H-G268  
**Well Error:** 0.0ft  
**Reference Wellbore:** Hz  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:** Well Grant-Hurt 1D-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 1D-14H-G268  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.34°

