



Planning Report

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

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

Site		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 1H-14H-G268					
Well Position	+N/-S	0.0 ft	Northing:	1,294,034.58 ft	Latitude:	40.139280
	+E/-W	0.0 ft	Easting:	3,149,167.68 ft	Longitude:	-104.966480
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,888.0 ft

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

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,419.0	12.19	94.00	1,409.8	-9.0	128.9	1.00	1.00	0.00	94.00	
6,740.8	12.19	94.00	6,611.7	-87.3	1,249.9	0.00	0.00	0.00	0.00	
7,649.3	90.00	0.00	7,180.0	485.6	1,372.3	10.00	8.57	-10.35	-93.91	
14,460.3	90.00	0.00	7,180.0	7,296.6	1,372.3	0.00	0.00	0.00	0.00	Grant-Hurt 1H-14H-G

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Project:	DJ Wattenberg	MD Reference:	WELL @ 4913.0ft (Original Well Elev)
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	North Reference:	True
Well:	Grant-Hurt 1H-14H-G268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
263.0	0.63	94.00	263.0	0.0	0.3	0.0	1.00	1.00	Fox Hills - BASE
300.0	1.00	94.00	300.0	-0.1	0.9	-0.1	1.00	1.00	
400.0	2.00	94.00	400.0	-0.2	3.5	-0.2	1.00	1.00	
500.0	3.00	94.00	499.9	-0.5	7.8	-0.5	1.00	1.00	
600.0	4.00	94.00	599.7	-1.0	13.9	-1.0	1.00	1.00	
700.0	5.00	94.00	699.4	-1.5	21.7	-1.5	1.00	1.00	
800.0	6.00	94.00	798.9	-2.2	31.3	-2.2	1.00	1.00	
900.0	7.00	94.00	898.3	-3.0	42.6	-3.0	1.00	1.00	
1,000.0	8.00	94.00	997.4	-3.9	55.6	-3.9	1.00	1.00	
1,100.0	9.00	94.00	1,096.3	-4.9	70.4	-4.9	1.00	1.00	
1,200.0	10.00	94.00	1,194.9	-6.1	86.8	-6.1	1.00	1.00	
1,300.0	11.00	94.00	1,293.3	-7.3	105.0	-7.3	1.00	1.00	
1,400.0	12.00	94.00	1,391.2	-8.7	124.9	-8.7	1.00	1.00	
1,419.0	12.19	94.00	1,409.8	-9.0	128.9	-9.0	1.00	1.00	EOB; Inc=12.19°
1,500.0	12.19	94.00	1,489.0	-10.2	145.9	-10.2	0.00	0.00	
1,600.0	12.19	94.00	1,586.7	-11.7	167.0	-11.7	0.00	0.00	
1,700.0	12.19	94.00	1,684.5	-13.1	188.1	-13.1	0.00	0.00	
1,800.0	12.19	94.00	1,782.2	-14.6	209.1	-14.6	0.00	0.00	
1,900.0	12.19	94.00	1,880.0	-16.1	230.2	-16.1	0.00	0.00	
2,000.0	12.19	94.00	1,977.7	-17.5	251.3	-17.5	0.00	0.00	
2,100.0	12.19	94.00	2,075.5	-19.0	272.3	-19.0	0.00	0.00	
2,200.0	12.19	94.00	2,173.2	-20.5	293.4	-20.5	0.00	0.00	
2,300.0	12.19	94.00	2,271.0	-22.0	314.4	-22.0	0.00	0.00	
2,400.0	12.19	94.00	2,368.7	-23.4	335.5	-23.4	0.00	0.00	
2,500.0	12.19	94.00	2,466.5	-24.9	356.6	-24.9	0.00	0.00	
2,600.0	12.19	94.00	2,564.2	-26.4	377.6	-26.4	0.00	0.00	
2,700.0	12.19	94.00	2,661.9	-27.8	398.7	-27.8	0.00	0.00	
2,800.0	12.19	94.00	2,759.7	-29.3	419.8	-29.3	0.00	0.00	
2,900.0	12.19	94.00	2,857.4	-30.8	440.8	-30.8	0.00	0.00	
3,000.0	12.19	94.00	2,955.2	-32.3	461.9	-32.3	0.00	0.00	
3,100.0	12.19	94.00	3,052.9	-33.7	483.0	-33.7	0.00	0.00	
3,200.0	12.19	94.00	3,150.7	-35.2	504.0	-35.2	0.00	0.00	
3,300.0	12.19	94.00	3,248.4	-36.7	525.1	-36.7	0.00	0.00	
3,400.0	12.19	94.00	3,346.2	-38.1	546.2	-38.1	0.00	0.00	
3,500.0	12.19	94.00	3,443.9	-39.6	567.2	-39.6	0.00	0.00	
3,600.0	12.19	94.00	3,541.6	-41.1	588.3	-41.1	0.00	0.00	
3,700.0	12.19	94.00	3,639.4	-42.6	609.3	-42.6	0.00	0.00	
3,800.0	12.19	94.00	3,737.1	-44.0	630.4	-44.0	0.00	0.00	
3,900.0	12.19	94.00	3,834.9	-45.5	651.5	-45.5	0.00	0.00	
4,000.0	12.19	94.00	3,932.6	-47.0	672.5	-47.0	0.00	0.00	
4,095.5	12.19	94.00	4,026.0	-48.4	692.7	-48.4	0.00	0.00	Sussex
4,100.0	12.19	94.00	4,030.4	-48.4	693.6	-48.4	0.00	0.00	
4,200.0	12.19	94.00	4,128.1	-49.9	714.7	-49.9	0.00	0.00	
4,253.1	12.19	94.00	4,180.0	-50.7	725.8	-50.7	0.00	0.00	Sussex Marker
4,300.0	12.19	94.00	4,225.9	-51.4	735.7	-51.4	0.00	0.00	
4,400.0	12.19	94.00	4,323.6	-52.9	756.8	-52.9	0.00	0.00	
4,500.0	12.19	94.00	4,421.4	-54.3	777.9	-54.3	0.00	0.00	
4,600.0	12.19	94.00	4,519.1	-55.8	798.9	-55.8	0.00	0.00	
4,700.0	12.19	94.00	4,616.8	-57.3	820.0	-57.3	0.00	0.00	

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Well:	Grant-Hurt 1H-14H-G268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	12.19	94.00	4,714.6	-58.7	841.0	-58.7	0.00	0.00	
4,801.4	12.19	94.00	4,716.0	-58.8	841.4	-58.8	0.00	0.00	Shannon
4,900.0	12.19	94.00	4,812.3	-60.2	862.1	-60.2	0.00	0.00	
5,000.0	12.19	94.00	4,910.1	-61.7	883.2	-61.7	0.00	0.00	
5,100.0	12.19	94.00	5,007.8	-63.2	904.2	-63.2	0.00	0.00	
5,200.0	12.19	94.00	5,105.6	-64.6	925.3	-64.6	0.00	0.00	
5,300.0	12.19	94.00	5,203.3	-66.1	946.4	-66.1	0.00	0.00	
5,400.0	12.19	94.00	5,301.1	-67.6	967.4	-67.6	0.00	0.00	
5,500.0	12.19	94.00	5,398.8	-69.0	988.5	-69.0	0.00	0.00	
5,600.0	12.19	94.00	5,496.6	-70.5	1,009.6	-70.5	0.00	0.00	
5,700.0	12.19	94.00	5,594.3	-72.0	1,030.6	-72.0	0.00	0.00	
5,800.0	12.19	94.00	5,692.0	-73.4	1,051.7	-73.4	0.00	0.00	
5,900.0	12.19	94.00	5,789.8	-74.9	1,072.8	-74.9	0.00	0.00	
6,000.0	12.19	94.00	5,887.5	-76.4	1,093.8	-76.4	0.00	0.00	
6,100.0	12.19	94.00	5,985.3	-77.9	1,114.9	-77.9	0.00	0.00	
6,115.1	12.19	94.00	6,000.0	-78.1	1,118.1	-78.1	0.00	0.00	Teepee Buttes (*if present)
6,200.0	12.19	94.00	6,083.0	-79.3	1,135.9	-79.3	0.00	0.00	
6,300.0	12.19	94.00	6,180.8	-80.8	1,157.0	-80.8	0.00	0.00	
6,400.0	12.19	94.00	6,278.5	-82.3	1,178.1	-82.3	0.00	0.00	
6,500.0	12.19	94.00	6,376.3	-83.7	1,199.1	-83.7	0.00	0.00	
6,600.0	12.19	94.00	6,474.0	-85.2	1,220.2	-85.2	0.00	0.00	
6,700.0	12.19	94.00	6,571.8	-86.7	1,241.3	-86.7	0.00	0.00	
6,740.8	12.19	94.00	6,611.7	-87.3	1,249.9	-87.3	0.00	0.00	Start build/turn @ 6740' MD
6,800.0	13.16	67.14	6,669.4	-85.1	1,262.3	-85.1	10.00	1.64	
6,900.0	19.28	38.03	6,765.6	-67.6	1,283.0	-67.6	10.00	6.12	
7,000.0	27.70	24.24	6,857.3	-33.4	1,302.8	-33.4	10.00	8.42	
7,100.0	36.87	16.70	6,941.8	16.7	1,321.0	16.7	10.00	9.17	
7,200.0	46.34	11.87	7,016.5	81.0	1,337.1	81.0	10.00	9.48	
7,265.5	52.64	9.47	7,059.0	129.9	1,346.3	129.9	10.00	9.61	Sharon Springs
7,300.0	55.97	8.37	7,079.1	157.6	1,350.6	157.6	10.00	9.66	
7,377.1	63.45	6.18	7,118.0	223.6	1,359.0	223.6	10.00	9.70	Niobrara
7,400.0	65.67	5.59	7,127.8	244.1	1,361.1	244.1	10.00	9.72	
7,500.0	75.42	3.21	7,161.1	338.0	1,368.3	338.0	10.00	9.75	
7,540.8	79.40	2.31	7,170.0	377.8	1,370.2	377.8	10.00	9.76	B Chalk
7,600.0	85.19	1.04	7,177.9	436.4	1,371.9	436.4	10.00	9.77	
7,649.3	90.00	0.00	7,180.0	485.6	1,372.3	485.6	10.00	9.78	LP @ 7180' TVD; 90°
7,700.0	90.00	0.00	7,180.0	536.3	1,372.3	536.3	0.00	0.00	
7,800.0	90.00	0.00	7,180.0	636.3	1,372.3	636.3	0.00	0.00	
7,900.0	90.00	0.00	7,180.0	736.3	1,372.3	736.3	0.00	0.00	
8,000.0	90.00	0.00	7,180.0	836.3	1,372.3	836.3	0.00	0.00	
8,100.0	90.00	0.00	7,180.0	936.3	1,372.3	936.3	0.00	0.00	
8,200.0	90.00	0.00	7,180.0	1,036.3	1,372.3	1,036.3	0.00	0.00	
8,300.0	90.00	0.00	7,180.0	1,136.3	1,372.3	1,136.3	0.00	0.00	
8,400.0	90.00	0.00	7,180.0	1,236.3	1,372.3	1,236.3	0.00	0.00	
8,500.0	90.00	0.00	7,180.0	1,336.3	1,372.3	1,336.3	0.00	0.00	
8,600.0	90.00	0.00	7,180.0	1,436.3	1,372.3	1,436.3	0.00	0.00	
8,700.0	90.00	0.00	7,180.0	1,536.3	1,372.3	1,536.3	0.00	0.00	
8,800.0	90.00	0.00	7,180.0	1,636.3	1,372.3	1,636.3	0.00	0.00	
8,900.0	90.00	0.00	7,180.0	1,736.3	1,372.3	1,736.3	0.00	0.00	
9,000.0	90.00	0.00	7,180.0	1,836.3	1,372.3	1,836.3	0.00	0.00	
9,100.0	90.00	0.00	7,180.0	1,936.3	1,372.3	1,936.3	0.00	0.00	
9,200.0	90.00	0.00	7,180.0	2,036.3	1,372.3	2,036.3	0.00	0.00	

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Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	0.00	7,180.0	2,136.3	1,372.3	2,136.3	0.00	0.00	
9,400.0	90.00	0.00	7,180.0	2,236.3	1,372.3	2,236.3	0.00	0.00	
9,500.0	90.00	0.00	7,180.0	2,336.3	1,372.3	2,336.3	0.00	0.00	
9,600.0	90.00	0.00	7,180.0	2,436.3	1,372.3	2,436.3	0.00	0.00	
9,700.0	90.00	0.00	7,180.0	2,536.3	1,372.3	2,536.3	0.00	0.00	
9,800.0	90.00	0.00	7,180.0	2,636.3	1,372.3	2,636.3	0.00	0.00	
9,900.0	90.00	0.00	7,180.0	2,736.3	1,372.3	2,736.3	0.00	0.00	
10,000.0	90.00	0.00	7,180.0	2,836.3	1,372.3	2,836.3	0.00	0.00	
10,100.0	90.00	0.00	7,180.0	2,936.3	1,372.3	2,936.3	0.00	0.00	
10,200.0	90.00	0.00	7,180.0	3,036.3	1,372.3	3,036.3	0.00	0.00	
10,300.0	90.00	0.00	7,180.0	3,136.3	1,372.3	3,136.3	0.00	0.00	
10,400.0	90.00	0.00	7,180.0	3,236.3	1,372.3	3,236.3	0.00	0.00	
10,500.0	90.00	0.00	7,180.0	3,336.3	1,372.3	3,336.3	0.00	0.00	
10,600.0	90.00	0.00	7,180.0	3,436.3	1,372.3	3,436.3	0.00	0.00	
10,700.0	90.00	0.00	7,180.0	3,536.3	1,372.3	3,536.3	0.00	0.00	
10,800.0	90.00	0.00	7,180.0	3,636.3	1,372.3	3,636.3	0.00	0.00	
10,900.0	90.00	0.00	7,180.0	3,736.3	1,372.3	3,736.3	0.00	0.00	
11,000.0	90.00	0.00	7,180.0	3,836.3	1,372.3	3,836.3	0.00	0.00	
11,100.0	90.00	0.00	7,180.0	3,936.3	1,372.3	3,936.3	0.00	0.00	
11,200.0	90.00	0.00	7,180.0	4,036.3	1,372.3	4,036.3	0.00	0.00	
11,300.0	90.00	0.00	7,180.0	4,136.3	1,372.3	4,136.3	0.00	0.00	
11,400.0	90.00	0.00	7,180.0	4,236.3	1,372.3	4,236.3	0.00	0.00	
11,500.0	90.00	0.00	7,180.0	4,336.3	1,372.3	4,336.3	0.00	0.00	
11,600.0	90.00	0.00	7,180.0	4,436.3	1,372.3	4,436.3	0.00	0.00	
11,700.0	90.00	0.00	7,180.0	4,536.3	1,372.3	4,536.3	0.00	0.00	
11,800.0	90.00	0.00	7,180.0	4,636.3	1,372.3	4,636.3	0.00	0.00	
11,900.0	90.00	0.00	7,180.0	4,736.3	1,372.3	4,736.3	0.00	0.00	
12,000.0	90.00	0.00	7,180.0	4,836.3	1,372.3	4,836.3	0.00	0.00	
12,100.0	90.00	0.00	7,180.0	4,936.3	1,372.3	4,936.3	0.00	0.00	
12,200.0	90.00	0.00	7,180.0	5,036.3	1,372.3	5,036.3	0.00	0.00	
12,300.0	90.00	0.00	7,180.0	5,136.3	1,372.3	5,136.3	0.00	0.00	
12,400.0	90.00	0.00	7,180.0	5,236.3	1,372.3	5,236.3	0.00	0.00	
12,500.0	90.00	0.00	7,180.0	5,336.3	1,372.3	5,336.3	0.00	0.00	
12,600.0	90.00	0.00	7,180.0	5,436.3	1,372.3	5,436.3	0.00	0.00	
12,700.0	90.00	0.00	7,180.0	5,536.3	1,372.3	5,536.3	0.00	0.00	
12,800.0	90.00	0.00	7,180.0	5,636.3	1,372.3	5,636.3	0.00	0.00	
12,900.0	90.00	0.00	7,180.0	5,736.3	1,372.3	5,736.3	0.00	0.00	
13,000.0	90.00	0.00	7,180.0	5,836.3	1,372.3	5,836.3	0.00	0.00	
13,100.0	90.00	0.00	7,180.0	5,936.3	1,372.3	5,936.3	0.00	0.00	
13,200.0	90.00	0.00	7,180.0	6,036.3	1,372.3	6,036.3	0.00	0.00	
13,300.0	90.00	0.00	7,180.0	6,136.3	1,372.3	6,136.3	0.00	0.00	
13,400.0	90.00	0.00	7,180.0	6,236.3	1,372.3	6,236.3	0.00	0.00	
13,500.0	90.00	0.00	7,180.0	6,336.3	1,372.3	6,336.3	0.00	0.00	
13,600.0	90.00	0.00	7,180.0	6,436.3	1,372.3	6,436.3	0.00	0.00	
13,700.0	90.00	0.00	7,180.0	6,536.3	1,372.3	6,536.3	0.00	0.00	
13,800.0	90.00	0.00	7,180.0	6,636.3	1,372.3	6,636.3	0.00	0.00	
13,900.0	90.00	0.00	7,180.0	6,736.3	1,372.3	6,736.3	0.00	0.00	
14,000.0	90.00	0.00	7,180.0	6,836.3	1,372.3	6,836.3	0.00	0.00	
14,100.0	90.00	0.00	7,180.0	6,936.3	1,372.3	6,936.3	0.00	0.00	
14,200.0	90.00	0.00	7,180.0	7,036.3	1,372.3	7,036.3	0.00	0.00	
14,300.0	90.00	0.00	7,180.0	7,136.3	1,372.3	7,136.3	0.00	0.00	
14,400.0	90.00	0.00	7,180.0	7,236.3	1,372.3	7,236.3	0.00	0.00	

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,460.3	90.00	0.00	7,180.0	7,296.6	1,372.3	7,296.6	0.00	0.00	TD at 14460.3 - Grant-Hurt 1H-14H-G268 PBHI

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Grant-Hurt 1H-14H-G268 - plan hits target center - Point	0.00	0.00	7,180.0	7,296.6	1,372.3	1,301,339.31	3,150,496.10	40.159310	-104.961570

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
263.0	263.0	Fox Hills - BASE				
4,095.5	4,026.0	Sussex				
4,253.1	4,180.0	Sussex Marker				
4,801.4	4,716.0	Shannon				
6,115.1	6,000.0	Teepee Buttes (*if present)				
7,265.5	7,059.0	Sharon Springs				
7,377.1	7,118.0	Niobrara				
7,540.8	7,170.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP @ 200'	
1,419.0	1,409.8	-9.0	128.9	EOB; Inc=12.19°	
6,740.8	6,611.7	-87.3	1,249.9	Start build/turn @ 6740' MD	
7,649.3	7,180.0	485.6	1,372.3	LP @ 7180' TVD; 90°	
14,460.3	7,180.0	7,296.6	1,372.3	TD at 14460.3	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Grant-Hurt 1H-14H-G268

Hz

Plan #1

Anticollision Report

09 July, 2013

Anticollision Report

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

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

Survey Tool Program		Date	7/9/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,460.3	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

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

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	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	69.9	69.3	114.420	CC, ES
Grant-Hurt 1A-14H-G268 - Hz - Plan #1	700.0	690.6	112.4	110.1	48.089	SF
Grant-Hurt 1B-14H-G268 - Hz - Plan #1	200.0	200.0	61.5	60.9	100.690	CC, ES
Grant-Hurt 1B-14H-G268 - Hz - Plan #1	700.0	693.1	96.9	94.5	41.400	SF
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	200.0	200.0	50.3	49.7	82.383	CC, ES
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	700.0	696.6	79.0	76.6	33.649	SF
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	200.0	200.0	41.9	41.3	68.652	CC, ES
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	700.0	699.4	63.7	61.4	27.095	SF
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	200.0	200.0	30.8	30.1	50.345	CC, ES
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	900.0	901.8	60.4	57.4	19.789	SF
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	200.0	200.0	22.4	21.8	36.615	CC, ES
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	1,000.0	1,003.1	47.0	43.5	13.791	SF
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	200.0	200.0	11.2	10.6	18.307	CC, ES
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	14,460.3	14,617.4	405.8	185.2	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						Out of range
HURT 7-8-11 (EXISTING) - ENCANA WELL - SURVEYS	9,722.9	7,419.0	487.1	424.1	7.735	CC, ES
HURT 7-8-11 (EXISTING) - ENCANA WELL - SURVEYS	9,800.0	7,420.0	493.2	428.9	7.672	SF
MDM 33-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
MDM 34-14 (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

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

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)						
NELSON 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
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						Out of range

Anticollision Report

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

Offset Design 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		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-69.9	69.9					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-69.9	69.9	69.6	0.26	266.981		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-69.9	69.9	69.3	0.61	114.420	CC, ES	
300.0	300.0	298.8	298.8	0.5	0.5	176.25	0.2	-70.7	71.6	70.6	0.96	74.744		
400.0	400.0	397.5	397.4	0.7	0.7	176.90	1.0	-73.2	76.7	75.4	1.30	58.790		
500.0	499.9	495.7	495.6	0.8	0.8	177.82	2.2	-77.2	85.2	83.5	1.65	51.622		
600.0	599.7	593.5	593.2	1.0	1.0	178.83	3.8	-82.9	97.1	95.1	2.00	48.676		
700.0	699.4	690.6	690.0	1.3	1.2	179.82	5.9	-90.0	112.4	110.1	2.34	48.089	SF	
800.0	798.9	786.8	785.8	1.5	1.5	-179.29	8.5	-98.7	131.1	128.4	2.68	48.953		
900.0	898.3	882.0	880.4	1.8	1.7	-178.51	11.5	-108.8	153.1	150.1	3.02	50.776		
1,000.0	997.4	976.5	974.1	2.0	2.0	-177.85	14.9	-120.3	178.4	175.1	3.35	53.253		
1,100.0	1,096.3	1,072.6	1,069.4	2.3	2.2	-177.33	18.5	-132.5	206.0	202.3	3.69	55.872		
1,200.0	1,194.9	1,168.2	1,164.2	2.7	2.5	-176.95	22.0	-144.7	235.2	231.2	4.02	58.507		
1,300.0	1,293.3	1,263.3	1,258.4	3.0	2.8	-176.68	25.6	-156.7	266.1	261.8	4.35	61.155		
1,400.0	1,391.2	1,357.9	1,352.1	3.4	3.0	-176.47	29.2	-168.8	298.7	294.0	4.68	63.816		
1,500.0	1,489.0	1,452.0	1,445.5	3.8	3.3	-176.33	32.7	-180.7	332.3	327.3	5.02	66.251		
1,600.0	1,586.7	1,546.2	1,538.8	4.2	3.6	-176.22	36.2	-192.7	366.0	360.7	5.35	68.357		
1,700.0	1,684.5	1,640.3	1,632.1	4.6	3.8	-176.13	39.7	-204.7	399.7	394.0	5.69	70.213		
1,800.0	1,782.2	1,734.5	1,725.4	5.0	4.1	-176.05	43.3	-216.7	433.4	427.4	6.03	71.859		
1,900.0	1,880.0	1,828.6	1,818.7	5.4	4.4	-175.99	46.8	-228.6	467.1	460.8	6.37	73.331		

Anticollision Report

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

Offset Design 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						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	-61.5	61.5					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-61.5	61.5	61.2	0.26	234.943		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-61.5	61.5	60.9	0.61	100.690 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	176.06	0.0	-61.5	62.4	61.4	0.96	64.988		
400.0	400.0	398.8	398.8	0.7	0.7	176.13	-0.1	-62.4	65.8	64.5	1.31	50.396		
500.0	499.9	497.4	497.4	0.8	0.8	176.11	-0.4	-64.9	72.8	71.1	1.65	44.032		
600.0	599.7	595.6	595.4	1.0	1.0	176.04	-0.9	-69.1	83.1	81.1	2.00	41.617		
700.0	699.4	693.1	692.8	1.3	1.2	175.93	-1.6	-74.9	96.9	94.5	2.34	41.400 SF		
800.0	798.9	789.8	789.2	1.5	1.4	175.81	-2.4	-82.3	114.0	111.3	2.68	42.536		
900.0	898.3	885.6	884.6	1.8	1.6	175.70	-3.5	-91.2	134.5	131.5	3.02	44.564		
1,000.0	997.4	980.4	978.8	2.0	1.9	175.58	-4.7	-101.6	158.3	155.0	3.35	47.212		
1,100.0	1,096.3	1,075.8	1,073.4	2.3	2.1	175.49	-6.1	-113.3	185.1	181.4	3.69	50.182		
1,200.0	1,194.9	1,171.6	1,168.5	2.7	2.3	175.45	-7.5	-125.1	213.6	209.6	4.02	53.108		
1,300.0	1,293.3	1,266.9	1,263.1	3.0	2.6	175.45	-8.9	-136.9	243.8	239.4	4.35	55.998		
1,400.0	1,391.2	1,361.7	1,357.2	3.4	2.9	175.47	-10.3	-148.6	275.6	270.9	4.68	58.863		
1,500.0	1,489.0	1,456.1	1,450.9	3.8	3.1	175.52	-11.6	-160.2	308.5	303.5	5.02	61.486		
1,600.0	1,586.7	1,550.5	1,544.5	4.2	3.4	175.56	-13.0	-171.9	341.5	336.2	5.36	63.762		
1,700.0	1,684.5	1,645.0	1,638.2	4.6	3.6	175.60	-14.4	-183.6	374.5	368.8	5.69	65.767		
1,800.0	1,782.2	1,739.4	1,731.9	5.0	3.9	175.63	-15.8	-195.2	407.5	401.4	6.03	67.548		
1,900.0	1,880.0	1,833.8	1,825.6	5.4	4.1	175.65	-17.1	-206.9	440.5	434.1	6.37	69.140		
2,000.0	1,977.7	1,928.2	1,919.2	5.8	4.4	175.68	-18.5	-218.5	473.4	466.7	6.71	70.571		

Anticollision Report

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

Offset Design 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		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	0.26	192.226			
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-50.3	50.3	0.61	82.383 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	176.08	0.0	-50.3	51.2	0.96	53.337			
400.0	400.0	400.0	400.0	0.7	0.7	176.27	0.0	-50.3	53.8	1.31	41.120			
500.0	499.9	498.9	498.9	0.8	0.8	176.30	-0.2	-51.1	59.0	1.66	35.638			
600.0	599.7	597.5	597.4	1.0	1.0	175.99	-1.0	-53.6	67.5	2.00	33.759			
700.0	699.4	696.6	696.5	1.3	1.2	175.60	-2.0	-57.2	79.0	2.35	33.649 SF			
800.0	798.9	795.7	795.5	1.5	1.4	175.39	-3.1	-60.8	92.2	2.69	34.229			
900.0	898.3	894.6	894.3	1.8	1.5	175.30	-4.2	-64.4	107.1	3.04	35.258			
1,000.0	997.4	993.2	992.9	2.0	1.7	175.30	-5.3	-68.0	123.7	3.38	36.601			
1,100.0	1,096.3	1,091.5	1,091.1	2.3	1.9	175.35	-6.3	-71.6	142.0	3.72	38.172			
1,200.0	1,194.9	1,189.5	1,189.0	2.7	2.1	175.44	-7.4	-75.1	162.1	4.06	39.917			
1,300.0	1,293.3	1,287.1	1,286.5	3.0	2.3	175.55	-8.4	-78.7	183.8	4.40	41.797			
1,400.0	1,391.2	1,384.3	1,383.7	3.4	2.5	175.66	-9.5	-82.2	207.3	4.73	43.787			
1,500.0	1,489.0	1,481.2	1,480.5	3.8	2.6	175.79	-10.6	-85.8	231.9	5.08	45.679			
1,600.0	1,586.7	1,578.1	1,577.4	4.2	2.8	175.89	-11.6	-89.3	256.5	5.42	47.322			
1,700.0	1,684.5	1,675.1	1,674.2	4.6	3.0	175.98	-12.7	-92.8	281.1	5.76	48.770			
1,800.0	1,782.2	1,772.0	1,771.1	5.0	3.2	176.05	-13.7	-96.4	305.7	6.11	50.055			
1,900.0	1,880.0	1,868.9	1,867.9	5.4	3.4	176.12	-14.8	-99.9	330.3	6.45	51.204			
2,000.0	1,977.7	1,965.8	1,964.8	5.8	3.5	176.17	-15.8	-103.4	354.9	6.79	52.236			
2,100.0	2,075.5	2,062.8	2,061.7	6.2	3.7	176.21	-16.9	-107.0	379.6	7.14	53.169			
2,200.0	2,173.2	2,159.7	2,158.5	6.6	3.9	176.26	-17.9	-110.5	404.2	7.48	54.017			
2,300.0	2,271.0	2,256.6	2,255.4	7.0	4.1	176.29	-19.0	-114.1	428.8	7.83	54.791			
2,400.0	2,368.7	2,353.5	2,352.2	7.4	4.3	176.32	-20.0	-117.6	453.4	8.17	55.499			
2,500.0	2,466.5	2,450.4	2,449.1	7.8	4.4	176.35	-21.1	-121.1	478.0	8.51	56.151			

Anticollision Report

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

Offset Design 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			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-89.99	0.0	-41.9	41.9						
100.0	100.0	100.0	100.0	0.1	0.1	-89.99	0.0	-41.9	41.9	41.7	0.26	160.188			
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-41.9	41.9	41.3	0.61	68.652 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	176.09	0.0	-41.9	42.8	41.8	0.96	44.599			
400.0	400.0	400.0	400.0	0.7	0.7	176.31	0.0	-41.9	45.4	44.1	1.31	34.710			
500.0	499.9	499.9	499.9	0.8	0.8	176.63	0.0	-41.9	49.8	48.1	1.66	30.042			
600.0	599.7	599.7	599.7	1.0	1.0	177.00	0.0	-41.9	55.9	53.9	2.00	27.873			
700.0	699.4	699.4	699.4	1.3	1.2	177.37	0.0	-41.9	63.7	61.4	2.35	27.095 SF			
800.0	798.9	798.9	798.9	1.5	1.4	177.71	0.0	-41.9	73.3	70.6	2.70	27.172			
900.0	898.3	898.3	898.3	1.8	1.5	178.01	0.0	-41.9	84.6	81.6	3.04	27.812			
1,000.0	997.4	997.4	997.4	2.0	1.7	178.27	0.0	-41.9	97.6	94.3	3.38	28.846			
1,100.0	1,096.3	1,096.3	1,096.3	2.3	1.9	178.49	0.0	-41.9	112.4	108.7	3.73	30.166			
1,200.0	1,194.9	1,194.9	1,194.9	2.7	2.0	178.68	0.0	-41.9	128.9	124.8	4.07	31.701			
1,300.0	1,293.3	1,293.3	1,293.3	3.0	2.2	178.84	0.0	-41.9	147.1	142.7	4.40	33.403			
1,400.0	1,391.2	1,391.2	1,391.2	3.4	2.4	178.98	0.0	-41.9	167.1	162.3	4.74	35.239			
1,500.0	1,489.0	1,489.0	1,489.0	3.8	2.6	179.09	0.0	-41.9	188.1	183.1	5.08	37.013			
1,600.0	1,586.7	1,586.7	1,586.7	4.2	2.7	179.18	0.0	-41.9	209.3	203.8	5.43	38.557			
1,700.0	1,684.5	1,684.5	1,684.5	4.6	2.9	179.26	0.0	-41.9	230.4	224.6	5.77	39.917			
1,800.0	1,782.2	1,782.2	1,782.2	5.0	3.1	179.32	0.0	-41.9	251.5	245.4	6.12	41.125			
1,900.0	1,880.0	1,880.0	1,880.0	5.4	3.2	179.37	0.0	-41.9	272.6	266.1	6.46	42.204			
2,000.0	1,977.7	1,977.7	1,977.7	5.8	3.4	179.42	0.0	-41.9	293.7	286.9	6.80	43.174			
2,100.0	2,075.5	2,075.5	2,075.5	6.2	3.6	179.46	0.0	-41.9	314.8	307.7	7.15	44.052			
2,200.0	2,173.2	2,173.2	2,173.2	6.6	3.7	179.49	0.0	-41.9	335.9	328.5	7.49	44.849			
2,300.0	2,271.0	2,271.0	2,271.0	7.0	3.9	179.52	0.0	-41.9	357.1	349.2	7.83	45.576			
2,400.0	2,368.7	2,368.7	2,368.7	7.4	4.1	179.55	0.0	-41.9	378.2	370.0	8.18	46.242			
2,500.0	2,466.5	2,466.5	2,466.5	7.8	4.3	179.57	0.0	-41.9	399.3	390.8	8.52	46.855			
2,600.0	2,564.2	2,564.2	2,564.2	8.2	4.4	179.59	0.0	-41.9	420.4	411.5	8.87	47.420			
2,700.0	2,661.9	2,661.9	2,661.9	8.7	4.6	179.61	0.0	-41.9	441.5	432.3	9.21	47.943			
2,800.0	2,759.7	2,759.7	2,759.7	9.1	4.8	179.63	0.0	-41.9	462.6	453.1	9.55	48.428			
2,900.0	2,857.4	2,857.4	2,857.4	9.5	4.9	179.65	0.0	-41.9	483.7	473.8	9.90	48.880			

Anticollision Report

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

Offset Design 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	-90.00	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 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	176.11	0.0	-30.8	31.6	30.7	0.96	32.948		
400.0	400.0	400.0	400.0	0.7	0.7	176.41	0.0	-30.8	34.2	32.9	1.31	26.164		
500.0	499.9	499.9	499.9	0.8	0.8	176.81	0.0	-30.8	38.6	36.9	1.66	23.293		
600.0	599.7	600.4	600.4	1.0	1.0	176.98	-0.2	-29.9	43.8	41.8	2.01	21.856		
700.0	699.4	701.1	701.0	1.3	1.2	176.73	-0.9	-27.3	49.1	46.8	2.35	20.861		
800.0	798.9	801.8	801.7	1.5	1.4	176.19	-2.0	-23.1	54.4	51.7	2.70	20.136		
900.0	898.3	901.8	901.5	1.8	1.6	175.58	-3.4	-17.7	60.4	57.4	3.05	19.789 SF		
1,000.0	997.4	1,001.5	1,001.1	2.0	1.7	175.20	-4.8	-12.3	68.1	64.7	3.40	20.022		
1,100.0	1,096.3	1,101.1	1,100.5	2.3	1.9	175.01	-6.2	-7.0	77.5	73.7	3.75	20.679		
1,200.0	1,194.9	1,200.4	1,199.7	2.7	2.1	174.96	-7.6	-1.6	88.6	84.5	4.09	21.653		
1,300.0	1,293.3	1,299.6	1,298.7	3.0	2.3	175.00	-9.0	3.7	101.5	97.0	4.44	22.871		
1,400.0	1,391.2	1,398.5	1,397.5	3.4	2.5	175.11	-10.4	9.0	116.1	111.3	4.78	24.281		
1,500.0	1,489.0	1,497.3	1,496.1	3.8	2.7	175.24	-11.8	14.3	131.8	126.7	5.13	25.701		
1,600.0	1,586.7	1,596.0	1,594.7	4.2	2.9	175.35	-13.2	19.7	147.6	142.1	5.48	26.938		
1,700.0	1,684.5	1,694.8	1,693.3	4.6	3.1	175.44	-14.6	25.0	163.3	157.5	5.83	28.026		
1,800.0	1,782.2	1,793.5	1,791.9	5.0	3.3	175.51	-16.0	30.3	179.1	172.9	6.18	28.991		
1,900.0	1,880.0	1,892.3	1,890.4	5.4	3.5	175.57	-17.4	35.6	194.9	188.4	6.53	29.853		
2,000.0	1,977.7	1,991.0	1,989.0	5.8	3.7	175.62	-18.8	40.9	210.6	203.8	6.88	30.628		
2,100.0	2,075.5	2,089.8	2,087.6	6.2	3.9	175.66	-20.2	46.2	226.4	219.2	7.23	31.327		
2,200.0	2,173.2	2,188.5	2,186.2	6.6	4.1	175.70	-21.6	51.5	242.2	234.6	7.58	31.962		
2,300.0	2,271.0	2,287.3	2,284.8	7.0	4.3	175.73	-23.0	56.9	258.0	250.0	7.93	32.541		
2,400.0	2,368.7	2,386.0	2,383.4	7.4	4.5	175.76	-24.4	62.2	273.7	265.5	8.28	33.071		
2,500.0	2,466.5	2,484.8	2,482.0	7.8	4.7	175.79	-25.8	67.5	289.5	280.9	8.63	33.558		
2,600.0	2,564.2	2,583.5	2,580.6	8.2	4.9	175.81	-27.1	72.8	305.3	296.3	8.98	34.007		
2,700.0	2,661.9	2,682.3	2,679.2	8.7	5.1	175.83	-28.5	78.1	321.1	311.7	9.33	34.422		
2,800.0	2,759.7	2,781.0	2,777.8	9.1	5.3	175.85	-29.9	83.4	336.8	327.1	9.68	34.807		
2,900.0	2,857.4	2,879.8	2,876.4	9.5	5.4	175.87	-31.3	88.7	352.6	342.6	10.03	35.166		
3,000.0	2,955.2	2,978.5	2,975.0	9.9	5.6	175.89	-32.7	94.1	368.4	358.0	10.38	35.500		
3,100.0	3,052.9	3,077.3	3,073.6	10.3	5.8	175.90	-34.1	99.4	384.1	373.4	10.73	35.813		
3,200.0	3,150.7	3,176.0	3,172.2	10.7	6.0	175.92	-35.5	104.7	399.9	388.8	11.08	36.106		
3,300.0	3,248.4	3,274.8	3,270.8	11.1	6.2	175.93	-36.9	110.0	415.7	404.3	11.43	36.380		
3,400.0	3,346.2	3,373.5	3,369.4	11.5	6.4	175.94	-38.3	115.3	431.5	419.7	11.78	36.639		
3,500.0	3,443.9	3,472.3	3,468.0	11.9	6.6	175.95	-39.7	120.6	447.2	435.1	12.13	36.883		
3,600.0	3,541.7	3,571.0	3,566.6	12.4	6.8	175.96	-41.1	125.9	463.0	450.5	12.48	37.113		
3,700.0	3,639.4	3,669.7	3,665.2	12.8	7.0	175.97	-42.5	131.3	478.8	465.9	12.83	37.330		
3,800.0	3,737.1	3,768.5	3,763.8	13.2	7.2	175.98	-43.9	136.6	494.5	481.4	13.18	37.536		

Anticollision Report

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

Offset Design 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)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-22.4	22.4					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-22.4	22.4	22.1	0.26	85.434		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-22.4	22.4	21.8	0.61	36.615 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	176.15	0.0	-22.4	23.2	22.3	0.96	24.209		
400.0	400.0	400.0	400.0	0.7	0.7	176.54	0.0	-22.4	25.8	24.5	1.31	19.755		
500.0	499.9	500.4	500.4	0.8	0.8	176.82	-0.1	-21.5	29.3	27.7	1.66	17.697		
600.0	599.7	600.9	600.8	1.0	1.0	176.81	-0.5	-18.9	32.8	30.8	2.01	16.360		
700.0	699.4	701.4	701.3	1.3	1.2	176.58	-1.2	-14.5	36.3	34.0	2.36	15.420		
800.0	798.9	802.0	801.7	1.5	1.4	176.20	-2.1	-8.4	39.8	37.1	2.70	14.724		
900.0	898.3	902.7	902.0	1.8	1.6	175.70	-3.2	-0.6	43.3	40.3	3.05	14.186		
1,000.0	997.4	1,003.1	1,002.0	2.0	1.8	175.14	-4.6	8.9	47.0	43.5	3.40	13.791 SF		
1,100.0	1,096.3	1,103.0	1,101.4	2.3	2.0	174.76	-6.1	18.7	51.9	48.2	3.75	13.837		
1,200.0	1,194.9	1,202.7	1,200.7	2.7	2.3	174.61	-7.5	28.5	58.7	54.6	4.10	14.300		
1,300.0	1,293.3	1,302.4	1,299.8	3.0	2.5	174.64	-8.9	38.2	67.1	62.7	4.45	15.085		
1,400.0	1,391.2	1,401.9	1,398.8	3.4	2.7	174.77	-10.4	48.0	77.3	72.5	4.79	16.122		
1,500.0	1,489.0	1,501.2	1,497.7	3.8	3.0	174.95	-11.8	57.7	88.6	83.5	5.15	17.229		
1,600.0	1,586.7	1,600.6	1,596.5	4.2	3.2	175.09	-13.2	67.5	100.0	94.5	5.50	18.195		
1,700.0	1,684.5	1,699.9	1,695.4	4.6	3.5	175.20	-14.7	77.2	111.4	105.6	5.85	19.046		
1,800.0	1,782.2	1,799.3	1,794.2	5.0	3.7	175.29	-16.1	86.9	122.8	116.6	6.20	19.800		
1,900.0	1,880.0	1,898.6	1,893.1	5.4	3.9	175.37	-17.5	96.7	134.2	127.6	6.55	20.473		
2,000.0	1,977.7	1,998.0	1,992.0	5.8	4.2	175.43	-19.0	106.4	145.5	138.6	6.91	21.077		
2,100.0	2,075.5	2,097.3	2,090.8	6.2	4.4	175.48	-20.4	116.2	156.9	149.7	7.26	21.623		
2,200.0	2,173.2	2,196.7	2,189.7	6.6	4.7	175.53	-21.9	125.9	168.3	160.7	7.61	22.118		
2,300.0	2,271.0	2,296.0	2,288.6	7.0	4.9	175.57	-23.3	135.6	179.7	171.7	7.96	22.570		
2,400.0	2,368.7	2,395.4	2,387.4	7.4	5.1	175.61	-24.7	145.4	191.1	182.8	8.31	22.984		
2,500.0	2,466.5	2,494.7	2,486.3	7.8	5.4	175.64	-26.2	155.1	202.4	193.8	8.67	23.363		
2,600.0	2,564.2	2,594.1	2,585.1	8.2	5.6	175.67	-27.6	164.8	213.8	204.8	9.02	23.714		
2,700.0	2,661.9	2,693.4	2,684.0	8.7	5.9	175.70	-29.0	174.6	225.2	215.8	9.37	24.038		
2,800.0	2,759.7	2,792.8	2,782.9	9.1	6.1	175.72	-30.5	184.3	236.6	226.9	9.72	24.338		
2,900.0	2,857.4	2,892.1	2,881.7	9.5	6.4	175.74	-31.9	194.1	248.0	237.9	10.07	24.618		
3,000.0	2,955.2	2,991.5	2,980.6	9.9	6.6	175.76	-33.3	203.8	259.3	248.9	10.42	24.878		
3,100.0	3,052.9	3,090.8	3,079.4	10.3	6.8	175.78	-34.8	213.5	270.7	260.0	10.78	25.122		
3,200.0	3,150.7	3,190.2	3,178.3	10.7	7.1	175.79	-36.2	223.3	282.1	271.0	11.13	25.350		
3,300.0	3,248.4	3,289.5	3,277.2	11.1	7.3	175.81	-37.6	233.0	293.5	282.0	11.48	25.565		
3,400.0	3,346.2	3,388.9	3,376.0	11.5	7.6	175.82	-39.1	242.7	304.9	293.0	11.83	25.766		
3,500.0	3,443.9	3,488.2	3,474.9	11.9	7.8	175.83	-40.5	252.5	316.3	304.1	12.18	25.956		
3,600.0	3,541.7	3,587.6	3,573.8	12.4	8.1	175.85	-41.9	262.2	327.6	315.1	12.54	26.135		
3,700.0	3,639.4	3,686.9	3,672.6	12.8	8.3	175.86	-43.4	272.0	339.0	326.1	12.89	26.305		
3,800.0	3,737.1	3,786.3	3,771.5	13.2	8.5	175.87	-44.8	281.7	350.4	337.2	13.24	26.465		
3,900.0	3,834.9	3,885.6	3,870.3	13.6	8.8	175.88	-46.3	291.4	361.8	348.2	13.59	26.618		
4,000.0	3,932.6	3,985.0	3,969.2	14.0	9.0	175.89	-47.7	301.2	373.2	359.2	13.94	26.762		
4,100.0	4,030.4	4,084.3	4,068.1	14.4	9.3	175.90	-49.1	310.9	384.5	370.2	14.30	26.900		
4,200.0	4,128.1	4,183.7	4,166.9	14.8	9.5	175.90	-50.6	320.6	395.9	381.3	14.65	27.030		
4,300.0	4,225.9	4,283.0	4,265.8	15.3	9.8	175.91	-52.0	330.4	407.3	392.3	15.00	27.155		
4,400.0	4,323.6	4,382.4	4,364.6	15.7	10.0	175.92	-53.4	340.1	418.7	403.3	15.35	27.274		
4,500.0	4,421.4	4,481.7	4,463.5	16.1	10.3	175.93	-54.9	349.9	430.1	414.4	15.70	27.388		
4,600.0	4,519.1	4,581.1	4,562.4	16.5	10.5	175.93	-56.3	359.6	441.4	425.4	16.05	27.496		
4,700.0	4,616.8	4,680.4	4,661.2	16.9	10.7	175.94	-57.7	369.3	452.8	436.4	16.41	27.600		
4,800.0	4,714.6	4,779.8	4,760.1	17.3	11.0	175.94	-59.2	379.1	464.2	447.4	16.76	27.700		
4,900.0	4,812.3	4,879.1	4,859.0	17.7	11.2	175.95	-60.6	388.8	475.6	458.5	17.11	27.795		
5,000.0	4,910.1	4,978.5	4,957.8	18.2	11.5	175.96	-62.0	398.5	487.0	469.5	17.46	27.887		
5,100.0	5,007.8	5,077.8	5,056.7	18.6	11.7	175.96	-63.5	408.3	498.3	480.5	17.81	27.975		

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

Anticollision Report

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

Anticollision Report

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

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1G-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							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	-89.98	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.98	0.0	-11.2	11.2	10.9	0.26	42.717		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-11.2	11.2	10.6	0.61	18.307 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	176.31	0.0	-11.2	12.1	11.1	0.96	12.558		
400.0	400.0	400.2	400.2	0.7	0.7	176.70	-0.1	-10.3	13.8	12.5	1.31	10.539		
500.0	499.9	500.4	500.4	0.8	0.8	176.87	-0.3	-7.7	15.5	13.9	1.66	9.371		
600.0	599.7	600.7	600.6	1.0	1.0	176.88	-0.7	-3.3	17.3	15.3	2.01	8.608		
700.0	699.4	701.0	700.7	1.3	1.2	176.77	-1.3	2.8	19.0	16.7	2.36	8.070		
800.0	798.9	801.4	800.7	1.5	1.4	176.58	-2.0	10.6	20.7	18.0	2.70	7.670		
900.0	898.3	901.7	900.6	1.8	1.7	176.33	-2.9	20.3	22.5	19.4	3.05	7.361		
1,000.0	997.4	1,002.1	1,000.3	2.0	1.9	176.02	-3.9	31.6	24.2	20.8	3.40	7.113		
1,100.0	1,096.3	1,102.5	1,099.9	2.3	2.2	175.68	-5.1	44.7	25.9	22.2	3.75	6.909		
1,200.0	1,194.9	1,202.9	1,199.2	2.7	2.5	175.30	-6.4	59.5	27.6	23.5	4.10	6.740		
1,300.0	1,293.3	1,302.9	1,298.0	3.0	2.8	175.10	-7.8	75.0	30.4	25.9	4.45	6.826		
1,400.0	1,391.2	1,402.8	1,396.6	3.4	3.1	175.19	-9.2	90.5	34.9	30.1	4.80	7.264		
1,500.0	1,489.0	1,502.6	1,495.3	3.8	3.4	175.40	-10.7	105.9	40.5	35.4	5.15	7.863		
1,600.0	1,586.7	1,602.5	1,593.9	4.2	3.7	175.56	-12.1	121.4	46.2	40.7	5.50	8.390		
1,700.0	1,684.5	1,702.3	1,692.5	4.6	4.0	175.68	-13.5	136.8	51.9	46.0	5.86	8.853		
1,800.0	1,782.2	1,802.2	1,791.1	5.0	4.3	175.78	-14.9	152.3	57.5	51.3	6.21	9.263		
1,900.0	1,880.0	1,902.0	1,889.8	5.4	4.7	175.86	-16.3	167.7	63.2	56.6	6.56	9.630		
2,000.0	1,977.7	2,001.8	1,988.4	5.8	5.0	175.93	-17.7	183.2	68.9	62.0	6.92	9.959		
2,100.0	2,075.5	2,101.7	2,087.0	6.2	5.3	175.99	-19.1	198.7	74.6	67.3	7.27	10.256		
2,200.0	2,173.2	2,201.5	2,185.6	6.6	5.6	176.04	-20.5	214.1	80.2	72.6	7.62	10.526		
2,300.0	2,271.0	2,301.3	2,284.3	7.0	5.9	176.09	-21.9	229.6	85.9	77.9	7.98	10.771		
2,400.0	2,368.7	2,401.2	2,382.9	7.4	6.2	176.12	-23.3	245.0	91.6	83.3	8.33	10.997		
2,500.0	2,466.5	2,501.0	2,481.5	7.8	6.6	176.16	-24.7	260.5	97.3	88.6	8.68	11.203		
2,600.0	2,564.2	2,600.9	2,580.1	8.2	6.9	176.19	-26.1	275.9	102.9	93.9	9.03	11.394		
2,700.0	2,661.9	2,700.7	2,678.8	8.7	7.2	176.21	-27.5	291.4	108.6	99.2	9.39	11.570		
2,800.0	2,759.7	2,800.5	2,777.4	9.1	7.5	176.24	-28.9	306.9	114.3	104.5	9.74	11.734		
2,900.0	2,857.4	2,900.4	2,876.0	9.5	7.9	176.26	-30.3	322.3	120.0	109.9	10.09	11.886		
3,000.0	2,955.2	3,000.2	2,974.6	9.9	8.2	176.28	-31.7	337.8	125.6	115.2	10.45	12.028		
3,100.0	3,052.9	3,100.1	3,073.3	10.3	8.5	176.30	-33.2	353.2	131.3	120.5	10.80	12.160		
3,200.0	3,150.7	3,199.9	3,171.9	10.7	8.8	176.32	-34.6	368.7	137.0	125.8	11.15	12.284		
3,300.0	3,248.4	3,299.7	3,270.5	11.1	9.1	176.33	-36.0	384.1	142.7	131.2	11.50	12.401		
3,400.0	3,346.2	3,399.6	3,369.1	11.5	9.5	176.34	-37.4	399.6	148.3	136.5	11.86	12.511		
3,500.0	3,443.9	3,499.4	3,467.8	11.9	9.8	176.36	-38.8	415.1	154.0	141.8	12.21	12.614		
3,600.0	3,541.7	3,599.3	3,566.4	12.4	10.1	176.37	-40.2	430.5	159.7	147.1	12.56	12.712		
3,700.0	3,639.4	3,699.1	3,665.0	12.8	10.4	176.38	-41.6	446.0	165.4	152.5	12.92	12.804		
3,800.0	3,737.1	3,798.9	3,763.6	13.2	10.8	176.39	-43.0	461.4	171.0	157.8	13.27	12.891		
3,900.0	3,834.9	3,898.8	3,862.3	13.6	11.1	176.40	-44.4	476.9	176.7	163.1	13.62	12.974		
4,000.0	3,932.6	3,998.6	3,960.9	14.0	11.4	176.41	-45.8	492.3	182.4	168.4	13.97	13.053		
4,100.0	4,030.4	4,098.4	4,059.5	14.4	11.7	176.42	-47.2	507.8	188.1	173.7	14.33	13.127		
4,200.0	4,128.1	4,198.3	4,158.1	14.8	12.1	176.43	-48.6	523.3	193.7	179.1	14.68	13.199		
4,300.0	4,225.9	4,298.1	4,256.8	15.3	12.4	176.44	-50.0	538.7	199.4	184.4	15.03	13.266		
4,400.0	4,323.6	4,398.0	4,355.4	15.7	12.7	176.44	-51.4	554.2	205.1	189.7	15.38	13.331		
4,500.0	4,421.4	4,497.8	4,454.0	16.1	13.0	176.45	-52.8	569.6	210.8	195.0	15.74	13.393		
4,600.0	4,519.1	4,597.6	4,552.6	16.5	13.3	176.46	-54.3	585.1	216.4	200.4	16.09	13.452		
4,700.0	4,616.8	4,697.5	4,651.3	16.9	13.7	176.46	-55.7	600.5	222.1	205.7	16.44	13.509		
4,800.0	4,714.6	4,797.3	4,749.9	17.3	14.0	176.47	-57.1	616.0	227.8	211.0	16.80	13.563		
4,900.0	4,812.3	4,897.2	4,848.5	17.7	14.3	176.47	-58.5	631.4	233.5	216.3	17.15	13.615		
5,000.0	4,910.1	4,997.0	4,947.1	18.2	14.6	176.48	-59.9	646.9	239.2	221.6	17.50	13.665		
5,100.0	5,007.8	5,096.8	5,045.8	18.6	15.0	176.48	-61.3	662.4	244.8	227.0	17.85	13.713		

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

Anticollision Report

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

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1G-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	5,105.6	5,196.7	5,144.4	19.0	15.3	176.49	-62.7	677.8	250.5	232.3	18.21	13.759		
5,300.0	5,203.3	5,296.5	5,243.0	19.4	15.6	176.49	-64.1	693.3	256.2	237.6	18.56	13.803		
5,400.0	5,301.1	5,396.4	5,341.6	19.8	15.9	176.50	-65.5	708.7	261.9	242.9	18.91	13.846		
5,500.0	5,398.8	5,496.2	5,440.3	20.2	16.3	176.50	-66.9	724.2	267.5	248.3	19.27	13.887		
5,600.0	5,496.6	5,596.0	5,538.9	20.6	16.6	176.51	-68.3	739.6	273.2	253.6	19.62	13.926		
5,700.0	5,594.3	5,695.9	5,637.5	21.1	16.9	176.51	-69.7	755.1	278.9	258.9	19.97	13.964		
5,800.0	5,692.0	5,795.7	5,736.1	21.5	17.2	176.51	-71.1	770.6	284.6	264.2	20.32	14.001		
5,900.0	5,789.8	5,895.5	5,834.8	21.9	17.6	176.52	-72.5	786.0	290.2	269.6	20.68	14.037		
6,000.0	5,887.5	5,995.4	5,933.4	22.3	17.9	176.52	-73.9	801.5	295.9	274.9	21.03	14.071		
6,100.0	5,985.3	6,095.2	6,032.0	22.7	18.2	176.53	-75.3	816.9	301.6	280.2	21.38	14.105		
6,200.0	6,083.0	6,195.1	6,130.6	23.1	18.5	176.53	-76.8	832.4	307.3	285.5	21.73	14.137		
6,300.0	6,180.8	6,294.9	6,229.3	23.5	18.9	176.53	-78.2	847.8	312.9	290.8	22.09	14.168		
6,400.0	6,278.5	6,394.7	6,327.9	24.0	19.2	176.53	-79.6	863.3	318.6	296.2	22.44	14.198		
6,500.0	6,376.3	6,494.6	6,426.5	24.4	19.5	176.54	-81.0	878.8	324.3	301.5	22.79	14.228		
6,600.0	6,474.0	6,594.4	6,525.1	24.8	19.8	176.54	-82.4	894.2	330.0	306.8	23.15	14.256		
6,700.0	6,571.8	6,694.3	6,623.8	25.2	20.2	176.54	-83.8	909.7	335.6	312.1	23.50	14.284		
6,800.0	6,669.4	6,794.0	6,722.3	25.6	20.5	-157.41	-85.2	925.1	341.3	317.4	23.85	14.307		
6,900.0	6,765.6	6,891.9	6,819.0	26.0	20.8	-131.81	-86.6	940.3	347.4	323.0	24.37	14.255		
7,000.0	6,857.3	6,993.3	6,918.8	26.4	21.1	-122.95	-80.2	955.9	355.4	330.4	24.97	14.234		
7,100.0	6,941.8	7,100.7	7,021.7	26.7	21.4	-120.19	-54.3	972.0	365.0	339.6	25.31	14.421		
7,200.0	7,016.5	7,214.8	7,123.6	27.1	21.7	-119.86	-6.0	988.0	375.4	350.1	25.31	14.832		
7,300.0	7,079.1	7,336.0	7,219.3	27.5	22.1	-120.52	66.5	1,003.0	385.7	360.6	25.07	15.384		
7,400.0	7,127.8	7,464.2	7,301.7	27.9	22.6	-121.45	163.5	1,015.9	394.8	369.7	25.09	15.733		
7,500.0	7,161.1	7,598.5	7,362.9	28.4	23.3	-122.28	282.3	1,025.5	401.6	375.7	25.97	15.467		
7,600.0	7,177.9	7,737.1	7,395.8	29.0	24.1	-122.76	416.5	1,030.7	405.3	377.2	28.15	14.399		
7,700.0	7,180.0	7,857.2	7,400.0	29.6	25.0	-122.83	536.4	1,031.3	405.8	375.1	30.66	13.238		
7,800.0	7,180.0	7,957.2	7,400.0	30.3	25.8	-122.83	636.4	1,031.3	405.8	373.2	32.62	12.439		
7,900.0	7,180.0	8,057.2	7,400.0	31.0	26.7	-122.83	736.4	1,031.3	405.8	371.1	34.73	11.684		
8,000.0	7,180.0	8,157.2	7,400.0	31.9	27.7	-122.83	836.4	1,031.3	405.8	368.8	36.95	10.981		
8,100.0	7,180.0	8,257.2	7,400.0	32.8	28.8	-122.83	936.4	1,031.3	405.8	366.5	39.27	10.333		
8,200.0	7,180.0	8,357.2	7,400.0	33.8	29.9	-122.83	1,036.4	1,031.3	405.8	364.1	41.68	9.737		
8,300.0	7,180.0	8,457.2	7,400.0	34.8	31.1	-122.83	1,136.4	1,031.3	405.8	361.7	44.14	9.193		
8,400.0	7,180.0	8,557.2	7,400.0	35.9	32.3	-122.83	1,236.4	1,031.3	405.8	359.1	46.67	8.695		
8,500.0	7,180.0	8,657.2	7,400.0	37.1	33.6	-122.83	1,336.4	1,031.3	405.8	356.6	49.24	8.241		
8,600.0	7,180.0	8,757.2	7,400.0	38.3	34.9	-122.83	1,436.4	1,031.3	405.8	353.9	51.86	7.826		
8,700.0	7,180.0	8,857.2	7,400.0	39.5	36.3	-122.83	1,536.4	1,031.3	405.8	351.3	54.50	7.445		
8,800.0	7,180.0	8,957.2	7,400.0	40.8	37.7	-122.83	1,636.4	1,031.3	405.8	348.6	57.18	7.097		
8,900.0	7,180.0	9,057.2	7,400.0	42.1	39.1	-122.83	1,736.4	1,031.3	405.8	345.9	59.89	6.776		
9,000.0	7,180.0	9,157.2	7,400.0	43.5	40.6	-122.83	1,836.4	1,031.3	405.8	343.2	62.62	6.481		
9,100.0	7,180.0	9,257.2	7,400.0	44.8	42.0	-122.83	1,936.4	1,031.3	405.8	340.4	65.36	6.208		
9,200.0	7,180.0	9,357.2	7,400.0	46.2	43.5	-122.83	2,036.4	1,031.3	405.8	337.7	68.13	5.957		
9,300.0	7,180.0	9,457.2	7,400.0	47.7	45.1	-122.83	2,136.4	1,031.3	405.8	334.9	70.91	5.723		
9,400.0	7,180.0	9,557.2	7,400.0	49.1	46.6	-122.83	2,236.4	1,031.3	405.8	332.1	73.70	5.506		
9,500.0	7,180.0	9,657.2	7,400.0	50.6	48.1	-122.83	2,336.4	1,031.3	405.8	329.3	76.51	5.304		
9,600.0	7,180.0	9,757.2	7,400.0	52.1	49.7	-122.83	2,436.4	1,031.3	405.8	326.5	79.32	5.116		
9,700.0	7,180.0	9,857.2	7,400.0	53.6	51.3	-122.83	2,536.4	1,031.3	405.8	323.7	82.15	4.940		
9,800.0	7,180.0	9,957.2	7,400.0	55.1	52.9	-122.83	2,636.4	1,031.3	405.8	320.8	84.99	4.775		
9,900.0	7,180.0	10,057.2	7,400.0	56.6	54.4	-122.83	2,736.4	1,031.3	405.8	318.0	87.83	4.620		
10,000.0	7,180.0	10,157.2	7,400.0	58.2	56.0	-122.83	2,836.4	1,031.3	405.8	315.1	90.68	4.475		
10,100.0	7,180.0	10,257.2	7,400.0	59.7	57.7	-122.83	2,936.4	1,031.3	405.8	312.3	93.54	4.338		
10,200.0	7,180.0	10,357.2	7,400.0	61.3	59.3	-122.83	3,036.4	1,031.3	405.8	309.4	96.40	4.210		
10,300.0	7,180.0	10,457.2	7,400.0	62.8	60.9	-122.83	3,136.4	1,031.3	405.8	306.5	99.27	4.088		

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

Anticollision Report

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

Offset Design 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			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	7,180.0	10,557.2	7,400.0	64.4	62.5	-122.83	3,236.4	1,031.3	405.8	303.7	102.14	3.973	
10,500.0	7,180.0	10,657.2	7,400.0	66.0	64.2	-122.83	3,336.4	1,031.3	405.8	300.8	105.02	3.864	
10,600.0	7,180.0	10,757.2	7,400.0	67.6	65.8	-122.83	3,436.4	1,031.3	405.8	297.9	107.90	3.761	
10,700.0	7,180.0	10,857.2	7,400.0	69.2	67.5	-122.83	3,536.4	1,031.3	405.8	295.0	110.79	3.663	
10,800.0	7,180.0	10,957.2	7,400.0	70.8	69.1	-122.83	3,636.4	1,031.3	405.8	292.1	113.68	3.570	
10,900.0	7,180.0	11,057.2	7,400.0	72.5	70.8	-122.83	3,736.4	1,031.3	405.8	289.2	116.57	3.481	
11,000.0	7,180.0	11,157.2	7,400.0	74.1	72.5	-122.83	3,836.4	1,031.3	405.8	286.3	119.47	3.397	
11,100.0	7,180.0	11,257.2	7,400.0	75.7	74.2	-122.83	3,936.4	1,031.3	405.8	283.4	122.36	3.316	
11,200.0	7,180.0	11,357.2	7,400.0	77.4	75.8	-122.83	4,036.4	1,031.3	405.8	280.5	125.27	3.240	
11,300.0	7,180.0	11,457.2	7,400.0	79.0	77.5	-122.83	4,136.4	1,031.3	405.8	277.6	128.17	3.166	
11,400.0	7,180.0	11,557.2	7,400.0	80.7	79.2	-122.83	4,236.4	1,031.3	405.8	274.7	131.07	3.096	
11,500.0	7,180.0	11,657.2	7,400.0	82.3	80.9	-122.83	4,336.4	1,031.3	405.8	271.8	133.98	3.029	
11,600.0	7,180.0	11,757.2	7,400.0	84.0	82.6	-122.83	4,436.4	1,031.3	405.8	268.9	136.89	2.964	
11,700.0	7,180.0	11,857.2	7,400.0	85.6	84.2	-122.83	4,536.4	1,031.3	405.8	266.0	139.81	2.903	
11,800.0	7,180.0	11,957.2	7,400.0	87.3	85.9	-122.83	4,636.4	1,031.3	405.8	263.1	142.72	2.843	
11,900.0	7,180.0	12,057.2	7,400.0	89.0	87.6	-122.83	4,736.4	1,031.3	405.8	260.2	145.64	2.786	
12,000.0	7,180.0	12,157.2	7,400.0	90.6	89.3	-122.83	4,836.4	1,031.3	405.8	257.2	148.55	2.732	
12,100.0	7,180.0	12,257.2	7,400.0	92.3	91.0	-122.83	4,936.4	1,031.3	405.8	254.3	151.47	2.679	
12,200.0	7,180.0	12,357.2	7,400.0	94.0	92.7	-122.83	5,036.4	1,031.3	405.8	251.4	154.39	2.628	
12,300.0	7,180.0	12,457.2	7,400.0	95.7	94.4	-122.83	5,136.4	1,031.3	405.8	248.5	157.31	2.580	
12,400.0	7,180.0	12,557.2	7,400.0	97.4	96.1	-122.83	5,236.4	1,031.3	405.8	245.6	160.24	2.533	
12,500.0	7,180.0	12,657.2	7,400.0	99.0	97.9	-122.83	5,336.4	1,031.3	405.8	242.6	163.16	2.487	
12,600.0	7,180.0	12,757.2	7,400.0	100.7	99.6	-122.83	5,436.4	1,031.3	405.8	239.7	166.08	2.443	
12,700.0	7,180.0	12,857.2	7,400.0	102.4	101.3	-122.83	5,536.4	1,031.3	405.8	236.8	169.01	2.401	
12,800.0	7,180.0	12,957.2	7,400.0	104.1	103.0	-122.83	5,636.4	1,031.3	405.8	233.9	171.94	2.360	
12,900.0	7,180.0	13,057.2	7,400.0	105.8	104.7	-122.83	5,736.4	1,031.3	405.8	230.9	174.86	2.321	
13,000.0	7,180.0	13,157.2	7,400.0	107.5	106.4	-122.83	5,836.4	1,031.3	405.8	228.0	177.79	2.282	
13,100.0	7,180.0	13,257.2	7,400.0	109.2	108.1	-122.83	5,936.4	1,031.3	405.8	225.1	180.72	2.245	
13,200.0	7,180.0	13,357.2	7,400.0	110.9	109.8	-122.83	6,036.4	1,031.3	405.8	222.1	183.65	2.210	
13,300.0	7,180.0	13,457.2	7,400.0	112.6	111.6	-122.83	6,136.4	1,031.3	405.8	219.2	186.59	2.175	
13,400.0	7,180.0	13,557.2	7,400.0	114.3	113.3	-122.83	6,236.4	1,031.3	405.8	216.3	189.52	2.141	
13,500.0	7,180.0	13,657.2	7,400.0	116.0	115.0	-122.83	6,336.4	1,031.3	405.8	213.4	192.45	2.109	
13,600.0	7,180.0	13,757.2	7,400.0	117.7	116.7	-122.83	6,436.4	1,031.3	405.8	210.4	195.38	2.077	
13,700.0	7,180.0	13,857.2	7,400.0	119.4	118.4	-122.83	6,536.4	1,031.3	405.8	207.5	198.32	2.046	
13,800.0	7,180.0	13,957.2	7,400.0	121.1	120.2	-122.83	6,636.4	1,031.3	405.8	204.5	201.25	2.016	
13,900.0	7,180.0	14,057.2	7,400.0	122.8	121.9	-122.83	6,736.4	1,031.3	405.8	201.6	204.19	1.987	
14,000.0	7,180.0	14,157.2	7,400.0	124.6	123.6	-122.83	6,836.4	1,031.3	405.8	198.7	207.12	1.959	
14,100.0	7,180.0	14,257.2	7,400.0	126.3	125.3	-122.83	6,936.4	1,031.3	405.8	195.7	210.06	1.932	
14,200.0	7,180.0	14,357.2	7,400.0	128.0	127.1	-122.83	7,036.4	1,031.3	405.8	192.8	213.00	1.905	
14,300.0	7,180.0	14,457.2	7,400.0	129.7	128.8	-122.83	7,136.4	1,031.3	405.8	189.9	215.93	1.879	
14,400.0	7,180.0	14,557.2	7,400.0	131.4	130.5	-122.83	7,236.4	1,031.3	405.8	186.9	218.87	1.854	
14,460.3	7,180.0	14,617.4	7,400.0	132.4	131.6	-122.83	7,296.6	1,031.3	405.8	185.2	220.64	1.839 SF	

Anticollision Report

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

Offset Design													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					
9,700.0	7,180.0	7,418.8	7,148.3	53.6	31.6	-89.93	2,559.3	885.2	487.6	425.1	62.58	7.792					
9,722.9	7,180.0	7,419.0	7,148.6	53.9	31.6	-89.96	2,559.3	885.2	487.1	424.1	62.97	7.735 CC, ES					
9,800.0	7,180.0	7,420.0	7,149.6	55.1	31.6	-90.08	2,559.3	885.2	493.2	428.9	64.28	7.672 SF					

Anticollision Report

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

Reference Depths are relative to WELL @ 4913.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Grant-Hurt 1H-14H-G268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.34°

