



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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 1B-14H-G268					
Well Position	+N/-S	0.0 ft	Northing:	1,294,034.22 ft	Latitude:	40.139280
	+E/-W	0.0 ft	Easting:	3,149,106.18 ft	Longitude:	-104.966700
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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,014.4	7.14	263.27	1,012.6	-5.2	-44.2	1.00	1.00	0.00	263.27	
6,647.2	7.14	263.27	6,601.7	-87.3	-739.9	0.00	0.00	0.00	0.00	
7,557.1	90.00	1.20	7,180.0	487.0	-799.7	10.00	9.11	10.76	97.86	
14,379.1	90.00	1.20	7,180.0	7,307.5	-656.8	0.00	0.00	0.00	0.00	Grant-Hurt 1B-14H-G:

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Site:	S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)	North Reference:	True
Well:	Grant-Hurt 1B-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	
263.0	0.00	0.00	263.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300'
400.0	1.00	263.27	400.0	-0.1	-0.9	-0.1	1.00	1.00	
500.0	2.00	263.27	500.0	-0.4	-3.5	-0.4	1.00	1.00	
600.0	3.00	263.27	599.9	-0.9	-7.8	-0.9	1.00	1.00	
700.0	4.00	263.27	699.7	-1.6	-13.9	-1.6	1.00	1.00	
800.0	5.00	263.27	799.4	-2.6	-21.7	-2.6	1.00	1.00	
900.0	6.00	263.27	898.9	-3.7	-31.2	-3.7	1.00	1.00	
1,000.0	7.00	263.27	998.3	-5.0	-42.4	-5.0	1.00	1.00	
1,014.4	7.14	263.27	1,012.6	-5.2	-44.2	-5.2	1.00	1.00	EOB; Inc=7.14°
1,100.0	7.14	263.27	1,097.5	-6.5	-54.7	-6.5	0.00	0.00	
1,200.0	7.14	263.27	1,196.7	-7.9	-67.1	-7.9	0.00	0.00	
1,300.0	7.14	263.27	1,295.9	-9.4	-79.4	-9.4	0.00	0.00	
1,400.0	7.14	263.27	1,395.2	-10.8	-91.8	-10.8	0.00	0.00	
1,500.0	7.14	263.27	1,494.4	-12.3	-104.2	-12.3	0.00	0.00	
1,600.0	7.14	263.27	1,593.6	-13.7	-116.5	-13.7	0.00	0.00	
1,700.0	7.14	263.27	1,692.8	-15.2	-128.9	-15.2	0.00	0.00	
1,800.0	7.14	263.27	1,792.1	-16.7	-141.2	-16.7	0.00	0.00	
1,900.0	7.14	263.27	1,891.3	-18.1	-153.6	-18.1	0.00	0.00	
2,000.0	7.14	263.27	1,990.5	-19.6	-165.9	-19.6	0.00	0.00	
2,100.0	7.14	263.27	2,089.7	-21.0	-178.3	-21.0	0.00	0.00	
2,200.0	7.14	263.27	2,188.9	-22.5	-190.6	-22.5	0.00	0.00	
2,300.0	7.14	263.27	2,288.2	-23.9	-203.0	-23.9	0.00	0.00	
2,400.0	7.14	263.27	2,387.4	-25.4	-215.3	-25.4	0.00	0.00	
2,500.0	7.14	263.27	2,486.6	-26.8	-227.7	-26.8	0.00	0.00	
2,600.0	7.14	263.27	2,585.8	-28.3	-240.0	-28.3	0.00	0.00	
2,700.0	7.14	263.27	2,685.1	-29.8	-252.4	-29.8	0.00	0.00	
2,800.0	7.14	263.27	2,784.3	-31.2	-264.7	-31.2	0.00	0.00	
2,900.0	7.14	263.27	2,883.5	-32.7	-277.1	-32.7	0.00	0.00	
3,000.0	7.14	263.27	2,982.7	-34.1	-289.4	-34.1	0.00	0.00	
3,100.0	7.14	263.27	3,082.0	-35.6	-301.8	-35.6	0.00	0.00	
3,200.0	7.14	263.27	3,181.2	-37.0	-314.1	-37.0	0.00	0.00	
3,300.0	7.14	263.27	3,280.4	-38.5	-326.5	-38.5	0.00	0.00	
3,400.0	7.14	263.27	3,379.6	-40.0	-338.8	-40.0	0.00	0.00	
3,500.0	7.14	263.27	3,478.9	-41.4	-351.2	-41.4	0.00	0.00	
3,600.0	7.14	263.27	3,578.1	-42.9	-363.5	-42.9	0.00	0.00	
3,700.0	7.14	263.27	3,677.3	-44.3	-375.9	-44.3	0.00	0.00	
3,800.0	7.14	263.27	3,776.5	-45.8	-388.2	-45.8	0.00	0.00	
3,900.0	7.14	263.27	3,875.7	-47.2	-400.6	-47.2	0.00	0.00	
4,000.0	7.14	263.27	3,975.0	-48.7	-412.9	-48.7	0.00	0.00	
4,051.4	7.14	263.27	4,026.0	-49.4	-419.3	-49.4	0.00	0.00	Sussex
4,100.0	7.14	263.27	4,074.2	-50.2	-425.3	-50.2	0.00	0.00	
4,200.0	7.14	263.27	4,173.4	-51.6	-437.6	-51.6	0.00	0.00	
4,206.6	7.14	263.27	4,180.0	-51.7	-438.5	-51.7	0.00	0.00	Sussex Marker
4,300.0	7.14	263.27	4,272.6	-53.1	-450.0	-53.1	0.00	0.00	
4,400.0	7.14	263.27	4,371.9	-54.5	-462.3	-54.5	0.00	0.00	
4,500.0	7.14	263.27	4,471.1	-56.0	-474.7	-56.0	0.00	0.00	
4,600.0	7.14	263.27	4,570.3	-57.4	-487.0	-57.4	0.00	0.00	
4,700.0	7.14	263.27	4,669.5	-58.9	-499.4	-58.9	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
4,746.8	7.14	263.27	4,716.0	-59.6	-505.2	-59.6	0.00	0.00	Shannon
4,800.0	7.14	263.27	4,768.8	-60.3	-511.7	-60.3	0.00	0.00	
4,900.0	7.14	263.27	4,868.0	-61.8	-524.1	-61.8	0.00	0.00	
5,000.0	7.14	263.27	4,967.2	-63.3	-536.5	-63.3	0.00	0.00	
5,100.0	7.14	263.27	5,066.4	-64.7	-548.8	-64.7	0.00	0.00	
5,200.0	7.14	263.27	5,165.7	-66.2	-561.2	-66.2	0.00	0.00	
5,300.0	7.14	263.27	5,264.9	-67.6	-573.5	-67.6	0.00	0.00	
5,400.0	7.14	263.27	5,364.1	-69.1	-585.9	-69.1	0.00	0.00	
5,500.0	7.14	263.27	5,463.3	-70.5	-598.2	-70.5	0.00	0.00	
5,600.0	7.14	263.27	5,562.5	-72.0	-610.6	-72.0	0.00	0.00	
5,700.0	7.14	263.27	5,661.8	-73.5	-622.9	-73.5	0.00	0.00	
5,800.0	7.14	263.27	5,761.0	-74.9	-635.3	-74.9	0.00	0.00	
5,900.0	7.14	263.27	5,860.2	-76.4	-647.6	-76.4	0.00	0.00	
6,000.0	7.14	263.27	5,959.4	-77.8	-660.0	-77.8	0.00	0.00	
6,040.9	7.14	263.27	6,000.0	-78.4	-665.0	-78.4	0.00	0.00	Teepee Buttes (*if present)
6,100.0	7.14	263.27	6,058.7	-79.3	-672.3	-79.3	0.00	0.00	
6,200.0	7.14	263.27	6,157.9	-80.7	-684.7	-80.7	0.00	0.00	
6,300.0	7.14	263.27	6,257.1	-82.2	-697.0	-82.2	0.00	0.00	
6,400.0	7.14	263.27	6,356.3	-83.7	-709.4	-83.7	0.00	0.00	
6,500.0	7.14	263.27	6,455.6	-85.1	-721.7	-85.1	0.00	0.00	
6,600.0	7.14	263.27	6,554.8	-86.6	-734.1	-86.6	0.00	0.00	
6,647.2	7.14	263.27	6,601.7	-87.3	-739.9	-87.3	0.00	0.00	Start build/turn @ 6647' MD
6,700.0	8.27	302.56	6,654.0	-85.6	-746.4	-85.6	10.00	2.14	
6,800.0	15.92	335.39	6,751.8	-69.2	-758.2	-69.2	10.00	7.64	
6,900.0	25.24	345.93	6,845.3	-36.0	-769.1	-36.0	10.00	9.33	
7,000.0	34.93	350.96	6,931.8	13.1	-778.8	13.1	10.00	9.69	
7,100.0	44.74	354.00	7,008.5	76.5	-787.0	76.5	10.00	9.81	
7,176.3	52.27	355.69	7,059.0	133.4	-792.1	133.4	10.00	9.86	Sharon Springs
7,200.0	54.61	356.14	7,073.1	152.4	-793.4	152.4	10.00	9.88	
7,287.0	63.22	357.61	7,118.0	226.7	-797.4	226.7	10.00	9.90	Niobrara
7,300.0	64.50	357.81	7,123.7	238.4	-797.9	238.4	10.00	9.91	
7,400.0	74.42	359.22	7,158.8	331.9	-800.3	331.9	10.00	9.91	
7,449.5	79.32	359.86	7,170.0	380.0	-800.7	380.0	10.00	9.92	B Chalk
7,500.0	84.34	0.49	7,177.2	430.0	-800.5	430.0	10.00	9.92	
7,557.1	90.00	1.20	7,180.0	487.0	-799.7	487.0	10.00	9.92	LP @ 7180' TVD; 90°
7,600.0	90.00	1.20	7,180.0	529.9	-798.8	529.9	0.00	0.00	
7,700.0	90.00	1.20	7,180.0	629.9	-796.7	629.9	0.00	0.00	
7,800.0	90.00	1.20	7,180.0	729.9	-794.6	729.9	0.00	0.00	
7,900.0	90.00	1.20	7,180.0	829.9	-792.5	829.9	0.00	0.00	
8,000.0	90.00	1.20	7,180.0	929.8	-790.4	929.8	0.00	0.00	
8,100.0	90.00	1.20	7,180.0	1,029.8	-788.3	1,029.8	0.00	0.00	
8,200.0	90.00	1.20	7,180.0	1,129.8	-786.2	1,129.8	0.00	0.00	
8,300.0	90.00	1.20	7,180.0	1,229.8	-784.1	1,229.8	0.00	0.00	
8,400.0	90.00	1.20	7,180.0	1,329.7	-782.0	1,329.7	0.00	0.00	
8,500.0	90.00	1.20	7,180.0	1,429.7	-779.9	1,429.7	0.00	0.00	
8,600.0	90.00	1.20	7,180.0	1,529.7	-777.9	1,529.7	0.00	0.00	
8,700.0	90.00	1.20	7,180.0	1,629.7	-775.8	1,629.7	0.00	0.00	
8,800.0	90.00	1.20	7,180.0	1,729.7	-773.7	1,729.7	0.00	0.00	
8,900.0	90.00	1.20	7,180.0	1,829.6	-771.6	1,829.6	0.00	0.00	
9,000.0	90.00	1.20	7,180.0	1,929.6	-769.5	1,929.6	0.00	0.00	
9,100.0	90.00	1.20	7,180.0	2,029.6	-767.4	2,029.6	0.00	0.00	
9,200.0	90.00	1.20	7,180.0	2,129.6	-765.3	2,129.6	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	1.20	7,180.0	2,229.5	-763.2	2,229.5	0.00	0.00	
9,400.0	90.00	1.20	7,180.0	2,329.5	-761.1	2,329.5	0.00	0.00	
9,500.0	90.00	1.20	7,180.0	2,429.5	-759.0	2,429.5	0.00	0.00	
9,600.0	90.00	1.20	7,180.0	2,529.5	-756.9	2,529.5	0.00	0.00	
9,700.0	90.00	1.20	7,180.0	2,629.5	-754.8	2,629.5	0.00	0.00	
9,800.0	90.00	1.20	7,180.0	2,729.4	-752.7	2,729.4	0.00	0.00	
9,900.0	90.00	1.20	7,180.0	2,829.4	-750.6	2,829.4	0.00	0.00	
10,000.0	90.00	1.20	7,180.0	2,929.4	-748.5	2,929.4	0.00	0.00	
10,100.0	90.00	1.20	7,180.0	3,029.4	-746.4	3,029.4	0.00	0.00	
10,200.0	90.00	1.20	7,180.0	3,129.4	-744.3	3,129.4	0.00	0.00	
10,300.0	90.00	1.20	7,180.0	3,229.3	-742.2	3,229.3	0.00	0.00	
10,400.0	90.00	1.20	7,180.0	3,329.3	-740.2	3,329.3	0.00	0.00	
10,500.0	90.00	1.20	7,180.0	3,429.3	-738.1	3,429.3	0.00	0.00	
10,600.0	90.00	1.20	7,180.0	3,529.3	-736.0	3,529.3	0.00	0.00	
10,700.0	90.00	1.20	7,180.0	3,629.2	-733.9	3,629.2	0.00	0.00	
10,800.0	90.00	1.20	7,180.0	3,729.2	-731.8	3,729.2	0.00	0.00	
10,900.0	90.00	1.20	7,180.0	3,829.2	-729.7	3,829.2	0.00	0.00	
11,000.0	90.00	1.20	7,180.0	3,929.2	-727.6	3,929.2	0.00	0.00	
11,100.0	90.00	1.20	7,180.0	4,029.2	-725.5	4,029.2	0.00	0.00	
11,200.0	90.00	1.20	7,180.0	4,129.1	-723.4	4,129.1	0.00	0.00	
11,300.0	90.00	1.20	7,180.0	4,229.1	-721.3	4,229.1	0.00	0.00	
11,400.0	90.00	1.20	7,180.0	4,329.1	-719.2	4,329.1	0.00	0.00	
11,500.0	90.00	1.20	7,180.0	4,429.1	-717.1	4,429.1	0.00	0.00	
11,600.0	90.00	1.20	7,180.0	4,529.0	-715.0	4,529.0	0.00	0.00	
11,700.0	90.00	1.20	7,180.0	4,629.0	-712.9	4,629.0	0.00	0.00	
11,800.0	90.00	1.20	7,180.0	4,729.0	-710.8	4,729.0	0.00	0.00	
11,900.0	90.00	1.20	7,180.0	4,829.0	-708.7	4,829.0	0.00	0.00	
12,000.0	90.00	1.20	7,180.0	4,929.0	-706.6	4,929.0	0.00	0.00	
12,100.0	90.00	1.20	7,180.0	5,028.9	-704.6	5,028.9	0.00	0.00	
12,200.0	90.00	1.20	7,180.0	5,128.9	-702.5	5,128.9	0.00	0.00	
12,300.0	90.00	1.20	7,180.0	5,228.9	-700.4	5,228.9	0.00	0.00	
12,400.0	90.00	1.20	7,180.0	5,328.9	-698.3	5,328.9	0.00	0.00	
12,500.0	90.00	1.20	7,180.0	5,428.8	-696.2	5,428.8	0.00	0.00	
12,600.0	90.00	1.20	7,180.0	5,528.8	-694.1	5,528.8	0.00	0.00	
12,700.0	90.00	1.20	7,180.0	5,628.8	-692.0	5,628.8	0.00	0.00	
12,800.0	90.00	1.20	7,180.0	5,728.8	-689.9	5,728.8	0.00	0.00	
12,900.0	90.00	1.20	7,180.0	5,828.8	-687.8	5,828.8	0.00	0.00	
13,000.0	90.00	1.20	7,180.0	5,928.7	-685.7	5,928.7	0.00	0.00	
13,100.0	90.00	1.20	7,180.0	6,028.7	-683.6	6,028.7	0.00	0.00	
13,200.0	90.00	1.20	7,180.0	6,128.7	-681.5	6,128.7	0.00	0.00	
13,300.0	90.00	1.20	7,180.0	6,228.7	-679.4	6,228.7	0.00	0.00	
13,400.0	90.00	1.20	7,180.0	6,328.6	-677.3	6,328.6	0.00	0.00	
13,500.0	90.00	1.20	7,180.0	6,428.6	-675.2	6,428.6	0.00	0.00	
13,600.0	90.00	1.20	7,180.0	6,528.6	-673.1	6,528.6	0.00	0.00	
13,700.0	90.00	1.20	7,180.0	6,628.6	-671.0	6,628.6	0.00	0.00	
13,800.0	90.00	1.20	7,180.0	6,728.6	-669.0	6,728.6	0.00	0.00	
13,900.0	90.00	1.20	7,180.0	6,828.5	-666.9	6,828.5	0.00	0.00	
14,000.0	90.00	1.20	7,180.0	6,928.5	-664.8	6,928.5	0.00	0.00	
14,100.0	90.00	1.20	7,180.0	7,028.5	-662.7	7,028.5	0.00	0.00	
14,200.0	90.00	1.20	7,180.0	7,128.5	-660.6	7,128.5	0.00	0.00	
14,300.0	90.00	1.20	7,180.0	7,228.5	-658.5	7,228.5	0.00	0.00	
14,379.1	90.00	1.20	7,180.0	7,307.5	-656.8	7,307.5	0.00	0.00	TD at 14379.1 - Grant-Hurt 1B-14H-G268 PBHI

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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
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Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
Grant-Hurt 1B-14H-G268	0.00	0.00	7,180.0	7,307.5	-656.8	1,301,337.64	3,148,405.42	40.159340	-104.969050
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
263.0	263.0	Fox Hills - BASE			
4,051.4	4,026.0	Sussex			
4,206.6	4,180.0	Sussex Marker			
4,746.8	4,716.0	Shannon			
6,040.9	6,000.0	Teepee Buttes (*if present)			
7,176.3	7,059.0	Sharon Springs			
7,287.0	7,118.0	Niobrara			
7,449.5	7,170.0	B Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300'
1,014.4	1,012.6	-5.2	-44.2	EOB; Inc=7.14°
6,647.2	6,601.7	-87.3	-739.9	Start build/turn @ 6647' MD
7,557.1	7,180.0	487.0	-799.7	LP @ 7180' TVD; 90°
14,379.1	7,180.0	7,307.5	-656.8	TD at 14379.1

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Grant-Hurt 1B-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 1B-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 1B-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	14,379.1	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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) - EXISTING - SURVEYS						Out of range
GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS						Out of range
GRANT 3-6-11 (EXISTING) - EXISTING - SURVEYS	10,757.6	7,244.2	407.7	322.5	4.788	CC, ES
GRANT 3-6-11 (EXISTING) - EXISTING - SURVEYS	10,800.0	7,243.4	409.9	324.0	4.773	SF
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	7,400.0	8,559.9	211.8	168.9	4.940	SF
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	7,500.0	8,461.7	208.0	166.6	5.019	ES
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	7,515.5	8,446.2	208.0	166.7	5.034	CC
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	8.4	7.8	13.730	CC, ES
Grant-Hurt 1A-14H-G268 - Hz - Plan #1	14,379.1	14,280.1	412.8	191.5	1.866	SF
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.650	CC, ES
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	14,379.1	14,532.0	415.2	192.9	1.867	SF
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	300.0	300.0	19.6	18.6	20.388	CC, ES
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	600.0	599.9	27.4	25.4	13.654	SF
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	300.0	300.0	30.8	29.8	32.038	CC, ES
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	600.0	599.2	39.4	37.4	19.653	SF
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	300.0	300.0	39.1	38.2	40.775	CC, ES
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	600.0	598.2	50.4	48.4	25.147	SF
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	300.0	300.0	50.3	49.4	52.425	CC, ES
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	600.0	596.6	65.9	63.9	32.931	SF
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	200.0	200.0	61.5	60.9	100.690	CC, ES
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	700.0	692.0	96.8	94.4	41.383	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	11,753.9	7,129.1	117.3	20.5	1.211	Level 2, CC, ES, SF
HURT 34-11 (EXISTING) - EXISTING - SURVEYS	10,079.1	7,137.2	63.6	-4.4	0.935	Level 1, CC, ES, SF
HURT 43-11 (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 7-8-11 (EXISTING) - EXISTING - 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 1B-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 1B-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)		Separation Factor	Warning
Offset Well - Wellbore - Design						
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)						
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
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	3,806.0	3,759.5	440.9	424.7	27.285	CC
OLSON 1 (EXISTING) - PLAN ONLY - PLAN #1	3,900.0	3,852.7	441.0	424.4	26.598	ES
OLSON 1 (EXISTING) - PLAN ONLY - PLAN #1	4,600.0	4,520.0	452.6	433.1	23.144	SF
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 1B-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 1B-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 3-6-11 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 37-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,500.0	7,180.0	7,248.8	7,142.6	64.3	20.7	-89.12	3,695.3	-1,140.3	482.3	401.5	80.74	5.973		
10,600.0	7,180.0	7,247.1	7,140.9	66.0	20.7	-88.88	3,695.3	-1,140.2	437.1	354.7	82.45	5.301		
10,700.0	7,180.0	7,245.3	7,139.1	67.7	20.7	-88.63	3,695.4	-1,140.2	411.8	327.6	84.17	4.892		
10,757.6	7,180.0	7,244.2	7,138.1	68.7	20.7	-88.48	3,695.4	-1,140.1	407.7	322.5	85.16	4.788	CC, ES	
10,800.0	7,180.0	7,243.4	7,137.3	69.4	20.7	-88.36	3,695.4	-1,140.1	409.9	324.0	85.89	4.773	SF	
10,900.0	7,180.0	7,241.4	7,135.3	71.1	20.7	-88.08	3,695.4	-1,140.1	431.8	344.2	87.60	4.930		
11,000.0	7,180.0	7,239.3	7,133.2	72.8	20.7	-87.79	3,695.5	-1,140.0	474.3	385.0	89.31	5.310		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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 Elmquist 2G-14H-C268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
6,900.0	6,845.3	8,927.7	7,200.0	18.2	37.8	-114.01	-36.0	-1,006.3	433.4	382.4	50.94	8.508		
7,000.0	6,931.8	8,878.6	7,200.0	18.4	37.1	-119.83	13.1	-1,006.3	357.9	308.3	49.56	7.220		
7,100.0	7,008.5	8,815.2	7,200.0	18.7	36.1	-119.65	76.6	-1,006.3	296.5	248.6	47.88	6.192		
7,200.0	7,073.1	8,739.3	7,200.0	19.0	35.1	-115.58	152.4	-1,006.3	252.0	205.8	46.15	5.460		
7,300.0	7,123.7	8,653.4	7,200.0	19.5	33.9	-109.23	238.4	-1,006.3	224.8	180.3	44.47	5.055		
7,400.0	7,158.8	8,559.9	7,200.0	20.1	32.6	-102.77	331.9	-1,006.3	211.8	168.9	42.87	4.940 SF		
7,500.0	7,177.2	8,461.7	7,200.0	20.8	31.3	-98.53	430.0	-1,006.3	208.0	166.6	41.45	5.019 ES		
7,515.5	7,178.6	8,446.2	7,200.0	20.9	31.1	-98.15	445.5	-1,006.3	208.0	166.7	41.32	5.034 CC		
7,600.0	7,180.0	8,361.8	7,200.0	21.6	30.0	-97.69	529.9	-1,006.3	209.3	168.8	40.53	5.165		
7,700.0	7,180.0	8,261.8	7,200.0	22.5	28.8	-97.61	629.9	-1,006.3	211.4	171.2	40.26	5.251		
7,800.0	7,180.0	8,161.9	7,200.0	23.5	27.6	-97.54	729.9	-1,006.2	213.5	173.4	40.11	5.322		
7,900.0	7,180.0	8,061.9	7,200.0	24.6	26.5	-97.47	829.9	-1,006.2	215.6	175.5	40.08	5.378		
8,000.0	7,180.0	7,961.9	7,200.0	25.8	25.4	-97.39	929.9	-1,006.2	217.6	177.5	40.16	5.418		
8,100.0	7,180.0	7,861.9	7,200.0	27.0	24.5	-97.32	1,029.8	-1,006.2	219.7	179.3	40.36	5.443		
8,200.0	7,180.0	7,761.9	7,200.0	28.3	23.6	-97.26	1,129.8	-1,006.2	221.8	181.1	40.69	5.451		
8,300.0	7,180.0	7,662.0	7,200.0	29.6	22.8	-97.19	1,229.8	-1,006.2	223.8	182.7	41.15	5.440		
8,400.0	7,180.0	7,562.3	7,199.0	31.0	22.2	-96.86	1,329.5	-1,006.3	225.9	184.2	41.77	5.409		
8,500.0	7,180.0	7,465.4	7,185.1	32.4	21.6	-93.29	1,425.2	-1,008.3	228.8	186.1	42.73	5.354		
8,600.0	7,180.0	7,375.6	7,158.2	33.9	21.2	-86.62	1,510.6	-1,012.2	235.5	191.8	43.71	5.388		
8,700.0	7,180.0	7,296.1	7,123.5	35.3	20.9	-78.60	1,582.0	-1,017.1	250.8	206.6	44.21	5.672		
8,800.0	7,180.0	7,227.5	7,086.1	36.8	20.7	-70.82	1,639.2	-1,022.5	278.4	234.2	44.17	6.303		
8,900.0	7,180.0	7,169.4	7,049.3	38.4	20.6	-64.13	1,683.7	-1,027.8	319.4	275.6	43.79	7.294		
9,000.0	7,180.0	7,120.6	7,015.0	39.9	20.5	-58.75	1,718.2	-1,032.7	372.4	329.0	43.34	8.593		
9,100.0	7,180.0	7,079.4	6,983.9	41.5	20.4	-54.50	1,744.8	-1,037.2	435.1	392.1	42.98	10.122		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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 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	-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	CC, ES	
300.0	300.0	299.8	299.8	0.5	0.5	-88.47	0.2	-9.2	9.2	8.3	0.96	9.605		
400.0	400.0	399.7	399.6	0.7	0.7	12.43	1.0	-11.7	10.9	9.6	1.31	8.343		
500.0	500.0	499.4	499.3	0.8	0.8	18.62	2.2	-15.9	12.7	11.1	1.66	7.671		
600.0	599.9	599.2	598.8	1.0	1.0	25.88	3.9	-21.7	14.8	12.8	2.01	7.357		
700.0	699.7	698.8	698.2	1.2	1.3	33.47	6.1	-29.2	17.3	14.9	2.37	7.289		
800.0	799.4	798.4	797.4	1.4	1.5	40.82	8.8	-38.3	20.3	17.6	2.75	7.386		
900.0	898.9	898.0	896.3	1.7	1.7	47.55	12.0	-49.1	24.0	20.8	3.16	7.585		
1,000.0	998.3	997.6	995.0	1.9	2.0	53.61	15.6	-61.4	28.3	24.6	3.62	7.809		
1,100.0	1,097.5	1,097.5	1,094.0	2.2	2.3	59.37	19.4	-74.1	32.5	28.4	4.12	7.891		
1,200.0	1,196.7	1,197.3	1,193.0	2.4	2.6	63.80	23.1	-86.8	37.0	32.3	4.64	7.973		
1,300.0	1,295.9	1,297.2	1,292.0	2.7	2.8	67.26	26.9	-99.5	41.6	36.5	5.17	8.052		
1,400.0	1,395.2	1,397.1	1,391.0	3.0	3.1	70.01	30.6	-112.2	46.4	40.7	5.71	8.127		
1,500.0	1,494.4	1,496.9	1,489.9	3.2	3.4	72.25	34.4	-124.9	51.3	45.0	6.25	8.196		
1,600.0	1,593.6	1,596.8	1,588.9	3.5	3.7	74.09	38.1	-137.6	56.2	49.4	6.80	8.259		
1,700.0	1,692.8	1,696.6	1,687.9	3.8	4.0	75.64	41.9	-150.3	61.2	53.8	7.35	8.317		
1,800.0	1,792.1	1,796.5	1,786.9	4.0	4.3	76.96	45.6	-163.0	66.2	58.3	7.91	8.370		
1,900.0	1,891.3	1,896.4	1,885.9	4.3	4.6	78.09	49.3	-175.7	71.2	62.8	8.46	8.418		
2,000.0	1,990.5	1,996.2	1,984.9	4.6	4.8	79.06	53.1	-188.4	76.3	67.3	9.01	8.462		
2,100.0	2,089.7	2,096.1	2,083.8	4.9	5.1	79.92	56.8	-201.1	81.4	71.8	9.57	8.502		
2,200.0	2,188.9	2,196.0	2,182.8	5.1	5.4	80.68	60.6	-213.8	86.5	76.3	10.12	8.539		
2,300.0	2,288.2	2,295.8	2,281.8	5.4	5.7	81.35	64.3	-226.5	91.6	80.9	10.68	8.573		
2,400.0	2,387.4	2,395.7	2,380.8	5.7	6.0	81.95	68.1	-239.2	96.7	85.5	11.24	8.605		
2,500.0	2,486.6	2,495.6	2,479.8	6.0	6.3	82.49	71.8	-251.9	101.8	90.0	11.79	8.634		
2,600.0	2,585.8	2,595.4	2,578.8	6.3	6.6	82.98	75.6	-264.6	107.0	94.6	12.35	8.660		
2,700.0	2,685.1	2,695.3	2,677.7	6.5	6.9	83.42	79.3	-277.3	112.1	99.2	12.91	8.685		
2,800.0	2,784.3	2,795.1	2,776.7	6.8	7.2	83.83	83.0	-290.0	117.3	103.8	13.47	8.709		
2,900.0	2,883.5	2,895.0	2,875.7	7.1	7.4	84.20	86.8	-302.7	122.4	108.4	14.02	8.731		
3,000.0	2,982.7	2,994.9	2,974.7	7.4	7.7	84.54	90.5	-315.4	127.6	113.0	14.58	8.751		
3,100.0	3,082.0	3,094.7	3,073.7	7.6	8.0	84.85	94.3	-328.1	132.8	117.6	15.14	8.770		
3,200.0	3,181.2	3,194.6	3,172.6	7.9	8.3	85.14	98.0	-340.8	137.9	122.2	15.70	8.788		
3,300.0	3,280.4	3,294.5	3,271.6	8.2	8.6	85.41	101.8	-353.5	143.1	126.9	16.26	8.805		
3,400.0	3,379.6	3,394.3	3,370.6	8.5	8.9	85.66	105.5	-366.2	148.3	131.5	16.81	8.820		
3,500.0	3,478.9	3,494.2	3,469.6	8.8	9.2	85.90	109.3	-378.9	153.5	136.1	17.37	8.835		
3,600.0	3,578.1	3,594.1	3,568.6	9.0	9.5	86.12	113.0	-391.6	158.7	140.7	17.93	8.849		
3,700.0	3,677.3	3,693.9	3,667.6	9.3	9.8	86.32	116.7	-404.3	163.9	145.4	18.49	8.863		
3,800.0	3,776.5	3,793.8	3,766.5	9.6	10.1	86.51	120.5	-417.0	169.0	150.0	19.05	8.876		
3,900.0	3,875.7	3,893.6	3,865.5	9.9	10.3	86.69	124.2	-429.7	174.2	154.6	19.60	8.888		
4,000.0	3,975.0	3,993.5	3,964.5	10.2	10.6	86.86	128.0	-442.4	179.4	159.3	20.16	8.899		
4,100.0	4,074.2	4,093.4	4,063.5	10.4	10.9	87.02	131.7	-455.1	184.6	163.9	20.72	8.910		
4,200.0	4,173.4	4,193.2	4,162.5	10.7	11.2	87.17	135.5	-467.8	189.8	168.5	21.28	8.920		
4,300.0	4,272.6	4,293.1	4,261.5	11.0	11.5	87.32	139.2	-480.5	195.0	173.2	21.84	8.930		
4,400.0	4,371.9	4,393.0	4,360.4	11.3	11.8	87.45	143.0	-493.2	200.2	177.8	22.40	8.939		
4,500.0	4,471.1	4,492.8	4,459.4	11.6	12.1	87.58	146.7	-505.9	205.4	182.4	22.95	8.948		
4,600.0	4,570.3	4,592.7	4,558.4	11.8	12.4	87.71	150.4	-518.6	210.6	187.1	23.51	8.957		
4,700.0	4,669.5	4,692.6	4,657.4	12.1	12.7	87.82	154.2	-531.3	215.8	191.7	24.07	8.965		
4,800.0	4,768.8	4,792.4	4,756.4	12.4	13.0	87.94	157.9	-544.0	221.0	196.4	24.63	8.973		
4,900.0	4,868.0	4,892.3	4,855.3	12.7	13.2	88.04	161.7	-556.7	226.2	201.0	25.19	8.981		
5,000.0	4,967.2	4,992.1	4,954.3	12.9	13.5	88.14	165.4	-569.4	231.4	205.7	25.75	8.988		
5,100.0	5,066.4	5,092.0	5,053.3	13.2	13.8	88.24	169.2	-582.1	236.6	210.3	26.30	8.995		

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

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Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant-Hurt 1B-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		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	
5,200.0	5,165.7	5,191.9	5,152.3	13.5	14.1	88.33	172.9	-594.8	241.8	215.0	26.86	9.002	
5,300.0	5,264.9	5,291.7	5,251.3	13.8	14.4	88.42	176.7	-607.5	247.0	219.6	27.42	9.008	
5,400.0	5,364.1	5,391.6	5,350.3	14.1	14.7	88.51	180.4	-620.2	252.2	224.2	27.98	9.014	
5,500.0	5,463.3	5,491.5	5,449.2	14.3	15.0	88.59	184.1	-632.9	257.4	228.9	28.54	9.020	
5,600.0	5,562.5	5,591.3	5,548.2	14.6	15.3	88.67	187.9	-645.6	262.6	233.5	29.10	9.026	
5,700.0	5,661.8	5,691.2	5,647.2	14.9	15.6	88.74	191.6	-658.3	267.8	238.2	29.66	9.032	
5,800.0	5,761.0	5,791.1	5,746.2	15.2	15.9	88.82	195.4	-671.0	273.0	242.8	30.21	9.037	
5,900.0	5,860.2	5,890.9	5,845.2	15.5	16.2	88.89	199.1	-683.7	278.3	247.5	30.77	9.042	
6,000.0	5,959.4	5,990.8	5,944.2	15.7	16.4	88.95	202.9	-696.4	283.5	252.1	31.33	9.047	
6,100.0	6,058.7	6,090.6	6,043.1	16.0	16.7	89.02	206.6	-709.1	288.7	256.8	31.89	9.052	
6,200.0	6,157.9	6,190.5	6,142.1	16.3	17.0	89.08	210.4	-721.8	293.9	261.4	32.45	9.057	
6,300.0	6,257.1	6,290.4	6,241.1	16.6	17.3	89.14	214.1	-734.5	299.1	266.1	33.01	9.061	
6,400.0	6,356.3	6,390.2	6,340.1	16.9	17.6	89.20	217.8	-747.2	304.3	270.7	33.57	9.066	
6,500.0	6,455.6	6,490.1	6,439.1	17.1	17.9	89.26	221.6	-759.9	309.5	275.4	34.12	9.070	
6,600.0	6,554.8	6,590.0	6,538.0	17.4	18.2	89.31	225.3	-772.6	314.7	280.0	34.68	9.074	
6,700.0	6,654.0	6,689.9	6,637.1	17.7	18.5	50.35	229.1	-785.3	317.5	282.4	35.17	9.028	
6,800.0	6,751.8	6,788.9	6,735.3	17.9	18.8	17.49	232.8	-797.9	305.1	270.2	34.82	8.762	
6,900.0	6,845.3	6,884.3	6,829.8	18.2	19.0	5.95	236.4	-810.0	275.8	242.4	33.42	8.254	
7,000.0	6,931.8	6,950.0	6,894.8	18.4	19.2	-0.92	240.3	-818.4	233.6	202.6	30.98	7.539	
7,100.0	7,008.5	7,018.7	6,962.0	18.7	19.5	-7.71	251.9	-827.1	185.8	158.2	27.63	6.723	
7,200.0	7,073.1	7,084.8	7,024.7	19.0	19.8	-17.27	270.5	-835.5	134.4	110.6	23.77	5.656	
7,300.0	7,123.7	7,153.7	7,087.5	19.5	20.1	-36.56	297.6	-844.0	83.3	61.6	21.78	3.827	
7,400.0	7,158.8	7,226.6	7,149.8	20.1	20.5	-79.69	334.4	-852.6	53.1	25.3	27.79	1.909	
7,401.6	7,159.2	7,227.8	7,150.8	20.1	20.5	-80.53	335.0	-852.7	53.1	25.2	27.89	1.903	
7,500.0	7,177.2	7,305.3	7,211.3	20.8	20.9	-122.68	382.6	-861.2	84.3	58.0	26.27	3.207	
7,600.0	7,180.0	7,394.1	7,272.0	21.6	21.6	-142.92	446.7	-870.1	143.1	121.5	21.64	6.615	
7,700.0	7,180.0	7,508.9	7,334.7	22.5	22.5	-152.31	542.1	-879.8	196.3	176.0	20.33	9.656	
7,800.0	7,180.0	7,654.2	7,385.0	23.5	23.9	-155.63	677.7	-888.6	231.4	210.7	20.74	11.162	
7,900.0	7,180.0	7,805.8	7,400.0	24.6	25.5	-155.44	828.1	-893.1	241.9	219.6	22.28	10.859	
8,000.0	7,180.0	7,905.7	7,400.0	25.8	26.7	-154.62	928.0	-894.8	243.5	219.7	23.84	10.215	
8,100.0	7,180.0	8,005.7	7,400.0	27.0	27.9	-153.81	1,027.9	-896.6	245.2	219.7	25.50	9.614	
8,200.0	7,180.0	8,105.6	7,400.0	28.3	29.2	-153.01	1,127.8	-898.3	246.9	219.7	27.26	9.057	
8,300.0	7,180.0	8,205.5	7,400.0	29.6	30.5	-152.22	1,227.7	-900.1	248.7	219.6	29.12	8.541	
8,400.0	7,180.0	8,305.4	7,400.0	31.0	31.9	-151.45	1,327.7	-901.8	250.5	219.4	31.06	8.064	
8,500.0	7,180.0	8,405.4	7,400.0	32.4	33.3	-150.68	1,427.6	-903.6	252.4	219.3	33.09	7.626	
8,600.0	7,180.0	8,505.3	7,400.0	33.9	34.7	-149.93	1,527.5	-905.3	254.3	219.1	35.21	7.222	
8,700.0	7,180.0	8,605.2	7,400.0	35.3	36.2	-149.19	1,627.4	-907.1	256.2	218.8	37.40	6.850	
8,800.0	7,180.0	8,705.1	7,400.0	36.8	37.7	-148.45	1,727.3	-908.8	258.2	218.5	39.67	6.508	
8,900.0	7,180.0	8,805.1	7,400.0	38.4	39.2	-147.73	1,827.2	-910.5	260.2	218.2	42.01	6.194	
9,000.0	7,180.0	8,905.0	7,400.0	39.9	40.7	-147.03	1,927.1	-912.3	262.3	217.9	44.42	5.904	
9,100.0	7,180.0	9,004.9	7,400.0	41.5	42.3	-146.33	2,027.0	-914.0	264.4	217.5	46.90	5.638	
9,200.0	7,180.0	9,104.8	7,400.0	43.0	43.8	-145.64	2,126.9	-915.8	266.6	217.1	49.44	5.391	
9,300.0	7,180.0	9,204.8	7,400.0	44.6	45.4	-144.97	2,226.9	-917.5	268.7	216.7	52.04	5.164	
9,400.0	7,180.0	9,304.7	7,400.0	46.2	47.0	-144.30	2,326.8	-919.3	271.0	216.3	54.70	4.954	
9,500.0	7,180.0	9,404.6	7,400.0	47.8	48.6	-143.65	2,426.7	-921.0	273.2	215.8	57.41	4.760	
9,600.0	7,180.0	9,504.5	7,400.0	49.4	50.2	-143.01	2,526.6	-922.7	275.5	215.4	60.17	4.579	
9,700.0	7,180.0	9,604.5	7,400.0	51.1	51.8	-142.37	2,626.5	-924.5	277.8	214.9	62.98	4.412	
9,800.0	7,180.0	9,704.4	7,400.0	52.7	53.4	-141.75	2,726.4	-926.2	280.2	214.4	65.83	4.256	
9,900.0	7,180.0	9,804.3	7,400.0	54.3	55.1	-141.14	2,826.3	-928.0	282.6	213.9	68.73	4.112	
10,000.0	7,180.0	9,904.3	7,400.0	56.0	56.7	-140.54	2,926.2	-929.7	285.0	213.4	71.67	3.977	
10,100.0	7,180.0	10,004.2	7,400.0	57.6	58.4	-139.95	3,026.1	-931.5	287.5	212.8	74.66	3.851	
10,200.0	7,180.0	10,104.1	7,400.0	59.3	60.0	-139.37	3,126.1	-933.2	290.0	212.3	77.67	3.733	

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Reference Well:	Grant-Hurt 1B-14H-G268	Survey Calculation Method:	Minimum Curvature
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Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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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	10,204.0	7,400.0	61.0	61.7	-138.80	3,226.0	-935.0	292.5	211.8	80.73	3.623		
10,400.0	7,180.0	10,304.0	7,400.0	62.6	63.4	-138.24	3,325.9	-936.7	295.0	211.2	83.82	3.520		
10,500.0	7,180.0	10,403.9	7,400.0	64.3	65.0	-137.69	3,425.8	-938.4	297.6	210.7	86.94	3.423		
10,600.0	7,180.0	10,503.8	7,400.0	66.0	66.7	-137.15	3,525.7	-940.2	300.2	210.1	90.09	3.332		
10,700.0	7,180.0	10,603.7	7,400.0	67.7	68.4	-136.61	3,625.6	-941.9	302.8	209.6	93.27	3.247		
10,800.0	7,180.0	10,703.7	7,400.0	69.4	70.1	-136.09	3,725.5	-943.7	305.5	209.0	96.48	3.166		
10,900.0	7,180.0	10,803.6	7,400.0	71.1	71.7	-135.58	3,825.4	-945.4	308.1	208.4	99.71	3.090		
11,000.0	7,180.0	10,903.5	7,400.0	72.8	73.4	-135.07	3,925.3	-947.2	310.8	207.9	102.97	3.019		
11,100.0	7,180.0	11,003.4	7,400.0	74.5	75.1	-134.58	4,025.3	-948.9	313.6	207.3	106.26	2.951		
11,200.0	7,180.0	11,103.4	7,400.0	76.2	76.8	-134.09	4,125.2	-950.7	316.3	206.8	109.56	2.887		
11,300.0	7,180.0	11,203.3	7,400.0	77.9	78.5	-133.61	4,225.1	-952.4	319.1	206.2	112.89	2.827		
11,400.0	7,180.0	11,303.2	7,400.0	79.6	80.2	-133.14	4,325.0	-954.1	321.9	205.6	116.23	2.769		
11,500.0	7,180.0	11,403.1	7,400.0	81.3	81.9	-132.67	4,424.9	-955.9	324.7	205.1	119.60	2.715		
11,600.0	7,180.0	11,503.1	7,400.0	83.0	83.6	-132.22	4,524.8	-957.6	327.5	204.5	122.98	2.663		
11,700.0	7,180.0	11,603.0	7,400.0	84.7	85.3	-131.77	4,624.7	-959.4	330.4	204.0	126.38	2.614		
11,800.0	7,180.0	11,702.9	7,400.0	86.4	87.0	-131.33	4,724.6	-961.1	333.3	203.5	129.79	2.568		
11,900.0	7,180.0	11,802.9	7,400.0	88.1	88.7	-130.90	4,824.5	-962.9	336.1	202.9	133.22	2.523		
12,000.0	7,180.0	11,902.8	7,400.0	89.8	90.5	-130.48	4,924.5	-964.6	339.1	202.4	136.67	2.481		
12,100.0	7,180.0	12,002.7	7,400.0	91.5	92.2	-130.06	5,024.4	-966.3	342.0	201.9	140.12	2.441		
12,200.0	7,180.0	12,102.6	7,400.0	93.3	93.9	-129.65	5,124.3	-968.1	344.9	201.3	143.59	2.402		
12,300.0	7,180.0	12,202.6	7,400.0	95.0	95.6	-129.25	5,224.2	-969.8	347.9	200.8	147.08	2.365		
12,400.0	7,180.0	12,302.5	7,400.0	96.7	97.3	-128.85	5,324.1	-971.6	350.9	200.3	150.57	2.330		
12,500.0	7,180.0	12,402.4	7,400.0	98.4	99.0	-128.46	5,424.0	-973.3	353.9	199.8	154.08	2.297		
12,600.0	7,180.0	12,502.3	7,400.0	100.1	100.7	-128.08	5,523.9	-975.1	356.9	199.3	157.59	2.265		
12,700.0	7,180.0	12,602.3	7,400.0	101.9	102.5	-127.70	5,623.8	-976.8	359.9	198.8	161.11	2.234		
12,800.0	7,180.0	12,702.2	7,400.0	103.6	104.2	-127.33	5,723.7	-978.6	363.0	198.3	164.65	2.205		
12,900.0	7,180.0	12,802.1	7,400.0	105.3	105.9	-126.96	5,823.7	-980.3	366.0	197.8	168.19	2.176		
13,000.0	7,180.0	12,902.0	7,400.0	107.0	107.6	-126.61	5,923.6	-982.0	369.1	197.4	171.74	2.149		
13,100.0	7,180.0	13,002.0	7,400.0	108.8	109.4	-126.25	6,023.5	-983.8	372.2	196.9	175.30	2.123		
13,200.0	7,180.0	13,101.9	7,400.0	110.5	111.1	-125.91	6,123.4	-985.5	375.3	196.4	178.86	2.098		
13,300.0	7,180.0	13,201.8	7,400.0	112.2	112.8	-125.57	6,223.3	-987.3	378.4	196.0	182.43	2.074		
13,400.0	7,180.0	13,301.7	7,400.0	114.0	114.5	-125.23	6,323.2	-989.0	381.5	195.5	186.01	2.051		
13,500.0	7,180.0	13,401.7	7,400.0	115.7	116.3	-124.90	6,423.1	-990.8	384.7	195.1	189.59	2.029		
13,600.0	7,180.0	13,501.6	7,400.0	117.4	118.0	-124.58	6,523.0	-992.5	387.8	194.7	193.18	2.008		
13,700.0	7,180.0	13,601.5	7,400.0	119.2	119.7	-124.26	6,622.9	-994.2	391.0	194.2	196.77	1.987		
13,800.0	7,180.0	13,701.5	7,400.0	120.9	121.5	-123.94	6,722.9	-996.0	394.2	193.8	200.37	1.967		
13,900.0	7,180.0	13,801.4	7,400.0	122.6	123.2	-123.64	6,822.8	-997.7	397.4	193.4	203.98	1.948		
14,000.0	7,180.0	13,901.3	7,400.0	124.4	124.9	-123.33	6,922.7	-999.5	400.6	193.0	207.58	1.930		
14,100.0	7,180.0	14,001.2	7,400.0	126.1	126.7	-123.03	7,022.6	-1,001.2	403.8	192.6	211.19	1.912		
14,200.0	7,180.0	14,101.2	7,400.0	127.8	128.4	-122.74	7,122.5	-1,003.0	407.0	192.2	214.81	1.895		
14,300.0	7,180.0	14,201.1	7,400.0	129.6	130.1	-122.45	7,222.4	-1,004.7	410.3	191.8	218.43	1.878		
14,379.1	7,180.0	14,280.1	7,400.0	130.9	131.5	-122.22	7,301.4	-1,006.1	412.8	191.5	221.29	1.866 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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			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	11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	11.2	11.2	10.9	0.26	42.717		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	11.2	11.2	10.6	0.61	18.307		
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	11.2	11.2	10.2	0.96	11.650 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-173.76	0.0	11.2	12.1	10.7	1.31	9.207		
500.0	500.0	500.2	500.2	0.8	0.8	-173.93	-0.3	10.3	13.8	12.2	1.66	8.331		
600.0	599.9	600.4	600.4	1.0	1.0	-172.98	-1.0	7.8	15.6	13.6	2.01	7.787		
700.0	699.7	700.4	700.3	1.2	1.2	-171.87	-2.1	4.2	18.1	15.7	2.36	7.673		
800.0	799.4	800.4	800.2	1.4	1.4	-171.69	-3.2	0.6	22.2	19.5	2.71	8.219		
900.0	898.9	900.2	899.9	1.7	1.6	-172.09	-4.2	-3.1	28.1	25.1	3.05	9.207		
1,000.0	998.3	999.9	999.6	1.9	1.7	-172.72	-5.3	-6.7	35.7	32.3	3.40	10.504		
1,100.0	1,097.5	1,099.5	1,099.1	2.2	1.9	-173.31	-6.4	-10.3	44.4	40.7	3.75	11.847		
1,200.0	1,196.7	1,199.1	1,198.7	2.4	2.1	-173.70	-7.5	-14.0	53.2	49.1	4.10	12.964		
1,300.0	1,295.9	1,298.7	1,298.2	2.7	2.3	-173.99	-8.6	-17.6	61.9	57.4	4.45	13.907		
1,400.0	1,395.2	1,398.4	1,397.7	3.0	2.5	-174.20	-9.7	-21.2	70.6	65.8	4.80	14.712		
1,500.0	1,494.4	1,498.0	1,497.3	3.2	2.7	-174.37	-10.7	-24.9	79.3	74.2	5.15	15.407		
1,600.0	1,593.6	1,597.6	1,596.8	3.5	2.8	-174.50	-11.8	-28.5	88.1	82.6	5.50	16.015		
1,700.0	1,692.8	1,697.2	1,696.4	3.8	3.0	-174.61	-12.9	-32.1	96.8	91.0	5.85	16.549		
1,800.0	1,792.1	1,796.8	1,795.9	4.0	3.2	-174.70	-14.0	-35.8	105.5	99.3	6.20	17.024		
1,900.0	1,891.3	1,896.5	1,895.5	4.3	3.4	-174.78	-15.1	-39.4	114.3	107.7	6.55	17.448		
2,000.0	1,990.5	1,996.1	1,995.0	4.6	3.6	-174.85	-16.2	-43.0	123.0	116.1	6.90	17.829		
2,100.0	2,089.7	2,095.7	2,094.6	4.9	3.8	-174.91	-17.2	-46.7	131.7	124.5	7.25	18.173		
2,200.0	2,188.9	2,195.3	2,194.1	5.1	4.0	-174.96	-18.3	-50.3	140.5	132.9	7.60	18.485		
2,300.0	2,288.2	2,294.9	2,293.7	5.4	4.1	-175.00	-19.4	-53.9	149.2	141.2	7.95	18.770		
2,400.0	2,387.4	2,394.5	2,393.2	5.7	4.3	-175.04	-20.5	-57.6	157.9	149.6	8.30	19.031		
2,500.0	2,486.6	2,494.2	2,492.7	6.0	4.5	-175.08	-21.6	-61.2	166.7	158.0	8.65	19.271		
2,600.0	2,585.8	2,593.8	2,592.3	6.3	4.7	-175.11	-22.6	-64.8	175.4	166.4	9.00	19.492		
2,700.0	2,685.1	2,693.4	2,691.8	6.5	4.9	-175.14	-23.7	-68.5	184.1	174.8	9.35	19.697		
2,800.0	2,784.3	2,793.0	2,791.4	6.8	5.1	-175.16	-24.8	-72.1	192.9	183.2	9.70	19.887		
2,900.0	2,883.5	2,892.6	2,890.9	7.1	5.3	-175.19	-25.9	-75.7	201.6	191.5	10.05	20.063		
3,000.0	2,982.7	2,992.2	2,990.5	7.4	5.4	-175.21	-27.0	-79.4	210.3	199.9	10.40	20.228		
3,100.0	3,082.0	3,091.9	3,090.0	7.6	5.6	-175.23	-28.1	-83.0	219.1	208.3	10.75	20.382		
3,200.0	3,181.2	3,191.5	3,189.6	7.9	5.8	-175.25	-29.1	-86.6	227.8	216.7	11.10	20.527		
3,300.0	3,280.4	3,291.1	3,289.1	8.2	6.0	-175.27	-30.2	-90.3	236.5	225.1	11.45	20.662		
3,400.0	3,379.6	3,390.7	3,388.7	8.5	6.2	-175.28	-31.3	-93.9	245.2	233.5	11.80	20.790		
3,500.0	3,478.9	3,490.3	3,488.2	8.8	6.4	-175.30	-32.4	-97.5	254.0	241.8	12.15	20.910		
3,600.0	3,578.1	3,590.0	3,587.8	9.0	6.6	-175.31	-33.5	-101.2	262.7	250.2	12.50	21.023		
3,700.0	3,677.3	3,689.6	3,687.3	9.3	6.7	-175.33	-34.5	-104.8	271.4	258.6	12.85	21.131		
3,800.0	3,776.5	3,789.2	3,786.8	9.6	6.9	-175.34	-35.6	-108.4	280.2	267.0	13.20	21.232		
3,900.0	3,875.7	3,888.8	3,886.4	9.9	7.1	-175.35	-36.7	-112.1	288.9	275.4	13.55	21.328		
4,000.0	3,975.0	3,988.4	3,985.9	10.2	7.3	-175.36	-37.8	-115.7	297.6	283.7	13.90	21.420		
4,100.0	4,074.2	4,088.0	4,085.5	10.4	7.5	-175.37	-38.9	-119.3	306.4	292.1	14.25	21.507		
4,200.0	4,173.4	4,187.7	4,185.0	10.7	7.7	-175.38	-40.0	-123.0	315.1	300.5	14.60	21.590		
4,300.0	4,272.6	4,287.3	4,284.6	11.0	7.9	-175.39	-41.0	-126.6	323.8	308.9	14.95	21.669		
4,400.0	4,371.9	4,386.9	4,384.1	11.3	8.0	-175.40	-42.1	-130.2	332.6	317.3	15.29	21.744		
4,500.0	4,471.1	4,486.5	4,483.7	11.6	8.2	-175.41	-43.2	-133.9	341.3	325.7	15.64	21.816		
4,600.0	4,570.3	4,586.1	4,583.2	11.8	8.4	-175.41	-44.3	-137.5	350.0	334.0	15.99	21.885		
4,700.0	4,669.5	4,685.8	4,682.8	12.1	8.6	-175.42	-45.4	-141.1	358.8	342.4	16.34	21.951		
4,800.0	4,768.8	4,785.4	4,782.3	12.4	8.8	-175.43	-46.5	-144.8	367.5	350.8	16.69	22.014		
4,900.0	4,868.0	4,885.0	4,881.8	12.7	9.0	-175.44	-47.5	-148.4	376.2	359.2	17.04	22.074		
5,000.0	4,967.2	4,984.6	4,981.4	12.9	9.2	-175.44	-48.6	-152.0	385.0	367.6	17.39	22.132		
5,100.0	5,066.4	5,084.2	5,080.9	13.2	9.3	-175.45	-49.7	-155.7	393.7	376.0	17.74	22.188		

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 1B-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 1B-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			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,165.7	5,183.8	5,180.5	13.5	9.5	-175.45	-50.8	-159.3	402.4	384.3	18.09	22.242		
5,300.0	5,264.9	5,283.5	5,280.0	13.8	9.7	-175.46	-51.9	-162.9	411.2	392.7	18.44	22.293		
5,400.0	5,364.1	5,383.1	5,379.6	14.1	9.9	-175.47	-52.9	-166.6	419.9	401.1	18.79	22.343		
5,500.0	5,463.3	5,482.7	5,479.1	14.3	10.1	-175.47	-54.0	-170.2	428.6	409.5	19.14	22.391		
5,600.0	5,562.5	5,582.3	5,578.7	14.6	10.3	-175.48	-55.1	-173.8	437.4	417.9	19.49	22.437		
5,700.0	5,661.8	5,681.9	5,678.2	14.9	10.5	-175.48	-56.2	-177.5	446.1	426.3	19.84	22.482		
5,800.0	5,761.0	5,781.6	5,777.8	15.2	10.7	-175.48	-57.3	-181.1	454.8	434.6	20.19	22.525		
5,900.0	5,860.2	5,881.2	5,877.3	15.5	10.8	-175.49	-58.4	-184.7	463.6	443.0	20.54	22.566		
6,000.0	5,959.4	5,980.8	5,976.9	15.7	11.0	-175.49	-59.4	-188.3	472.3	451.4	20.89	22.606		
6,100.0	6,058.7	6,080.4	6,076.4	16.0	11.2	-175.50	-60.5	-192.0	481.0	459.8	21.24	22.645		
6,200.0	6,157.9	6,180.0	6,175.9	16.3	11.4	-175.50	-61.6	-195.6	489.8	468.2	21.59	22.683		
6,300.0	6,257.1	6,279.6	6,275.5	16.6	11.6	-175.51	-62.7	-199.2	498.5	476.6	21.94	22.719		
11,200.0	7,180.0	11,361.0	7,400.0	76.2	75.4	116.24	4,133.0	-277.0	497.7	362.3	135.41	3.675		
11,300.0	7,180.0	11,461.0	7,400.0	77.9	77.1	116.40	4,233.0	-277.9	495.0	356.7	138.34	3.578		
11,400.0	7,180.0	11,561.0	7,400.0	79.6	78.8	116.55	4,332.9	-278.8	492.4	351.1	141.27	3.485		
11,500.0	7,180.0	11,660.9	7,400.0	81.3	80.6	116.71	4,432.9	-279.6	489.7	345.5	144.18	3.396		
11,600.0	7,180.0	11,760.9	7,400.0	83.0	82.3	116.86	4,532.8	-280.5	487.1	340.0	147.09	3.311		
11,700.0	7,180.0	11,860.8	7,400.0	84.7	84.0	117.02	4,632.8	-281.4	484.4	334.4	149.99	3.230		
11,800.0	7,180.0	11,960.8	7,400.0	86.4	85.8	117.18	4,732.7	-282.2	481.8	328.9	152.87	3.151		
11,900.0	7,180.0	12,060.7	7,400.0	88.1	87.5	117.34	4,832.7	-283.1	479.1	323.4	155.75	3.076		
12,000.0	7,180.0	12,160.7	7,400.0	89.8	89.2	117.51	4,932.6	-284.0	476.5	317.9	158.61	3.004		
12,100.0	7,180.0	12,260.6	7,400.0	91.5	91.0	117.67	5,032.6	-284.9	473.9	312.4	161.47	2.935		
12,200.0	7,180.0	12,360.6	7,400.0	93.3	92.7	117.84	5,132.5	-285.7	471.3	306.9	164.31	2.868		
12,300.0	7,180.0	12,460.6	7,400.0	95.0	94.4	118.01	5,232.5	-286.6	468.6	301.5	167.14	2.804		
12,400.0	7,180.0	12,560.5	7,400.0	96.7	96.2	118.18	5,332.5	-287.5	466.0	296.1	169.95	2.742		
12,500.0	7,180.0	12,660.5	7,400.0	98.4	97.9	118.35	5,432.4	-288.3	463.4	290.6	172.75	2.682		
12,600.0	7,180.0	12,760.4	7,400.0	100.1	99.6	118.53	5,532.4	-289.2	460.8	285.2	175.54	2.625		
12,700.0	7,180.0	12,860.4	7,400.0	101.9	101.4	118.71	5,632.3	-290.1	458.2	279.9	178.32	2.569		
12,800.0	7,180.0	12,960.3	7,400.0	103.6	103.1	118.89	5,732.3	-291.0	455.6	274.5	181.08	2.516		
12,900.0	7,180.0	13,060.3	7,400.0	105.3	104.8	119.07	5,832.2	-291.8	453.0	269.2	183.83	2.464		
13,000.0	7,180.0	13,160.2	7,400.0	107.0	106.6	119.25	5,932.2	-292.7	450.4	263.8	186.56	2.414		
13,100.0	7,180.0	13,260.2	7,400.0	108.8	108.3	119.44	6,032.1	-293.6	447.8	258.5	189.28	2.366		
13,200.0	7,180.0	13,360.2	7,400.0	110.5	110.1	119.62	6,132.1	-294.5	445.2	253.3	191.98	2.319		
13,300.0	7,180.0	13,460.1	7,400.0	112.2	111.8	119.81	6,232.0	-295.3	442.7	248.0	194.66	2.274		
13,400.0	7,180.0	13,560.1	7,400.0	114.0	113.6	120.00	6,332.0	-296.2	440.1	242.8	197.33	2.230		
13,500.0	7,180.0	13,660.0	7,400.0	115.7	115.3	120.20	6,431.9	-297.1	437.5	237.5	199.97	2.188		
13,600.0	7,180.0	13,760.0	7,400.0	117.4	117.0	120.40	6,531.9	-297.9	435.0	232.3	202.61	2.147		
13,700.0	7,180.0	13,859.9	7,400.0	119.2	118.8	120.59	6,631.8	-298.8	432.4	227.2	205.22	2.107		
13,800.0	7,180.0	13,959.9	7,400.0	120.9	120.5	120.80	6,731.8	-299.7	429.8	222.0	207.81	2.068		
13,900.0	7,180.0	14,059.9	7,400.0	122.6	122.3	121.00	6,831.7	-300.6	427.3	216.9	210.39	2.031		
14,000.0	7,180.0	14,159.8	7,400.0	124.4	124.0	121.21	6,931.7	-301.4	424.8	211.8	212.94	1.995		
14,100.0	7,180.0	14,259.8	7,400.0	126.1	125.7	121.41	7,031.6	-302.3	422.2	206.7	215.48	1.959		
14,200.0	7,180.0	14,359.7	7,400.0	127.8	127.5	121.63	7,131.6	-303.2	419.7	201.7	217.99	1.925		
14,300.0	7,180.0	14,459.7	7,400.0	129.6	129.2	121.84	7,231.5	-304.0	417.2	196.7	220.48	1.892		
14,379.1	7,180.0	14,532.0	7,400.0	130.9	130.5	121.99	7,303.8	-304.7	415.2	192.9	222.37	1.867 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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		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	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	400.0	400.0	0.7	0.7	-173.56	0.0	19.6	20.4	19.1	1.31	15.615		
500.0	500.0	500.0	500.0	0.8	0.8	-174.29	0.0	19.6	23.0	21.4	1.66	13.901		
600.0	599.9	599.9	599.9	1.0	1.0	-175.19	0.0	19.6	27.4	25.4	2.01	13.654 SF		
700.0	699.7	699.7	699.7	1.2	1.2	-176.06	0.0	19.6	33.5	31.1	2.35	14.225		
800.0	799.4	799.4	799.4	1.4	1.4	-176.81	0.0	19.6	41.3	38.6	2.70	15.300		
900.0	898.9	898.9	898.9	1.7	1.5	-177.40	0.0	19.6	50.9	47.8	3.04	16.709		
1,000.0	998.3	998.3	998.3	1.9	1.7	-177.87	0.0	19.6	62.2	58.8	3.39	18.350		
1,100.0	1,097.5	1,097.5	1,097.5	2.2	1.9	-178.23	0.0	19.6	74.6	70.9	3.74	19.969		
1,200.0	1,196.7	1,196.7	1,196.7	2.4	2.0	-178.48	0.0	19.6	87.0	82.9	4.08	21.314		
1,300.0	1,295.9	1,295.9	1,295.9	2.7	2.2	-178.67	0.0	19.6	99.5	95.0	4.43	22.450		
1,400.0	1,395.2	1,395.2	1,395.2	3.0	2.4	-178.82	0.0	19.6	111.9	107.1	4.78	23.421		
1,500.0	1,494.4	1,494.4	1,494.4	3.2	2.6	-178.94	0.0	19.6	124.3	119.2	5.12	24.260		
1,600.0	1,593.6	1,593.6	1,593.6	3.5	2.7	-179.03	0.0	19.6	136.8	131.3	5.47	24.993		
1,700.0	1,692.8	1,692.8	1,692.8	3.8	2.9	-179.11	0.0	19.6	149.2	143.4	5.82	25.638		
1,800.0	1,792.1	1,792.1	1,792.1	4.0	3.1	-179.18	0.0	19.6	161.6	155.5	6.17	26.211		
1,900.0	1,891.3	1,891.3	1,891.3	4.3	3.3	-179.24	0.0	19.6	174.1	167.6	6.51	26.723		
2,000.0	1,990.5	1,990.5	1,990.5	4.6	3.4	-179.29	0.0	19.6	186.5	179.6	6.86	27.183		
2,100.0	2,089.7	2,089.7	2,089.7	4.9	3.6	-179.33	0.0	19.6	198.9	191.7	7.21	27.599		
2,200.0	2,188.9	2,188.9	2,188.9	5.1	3.8	-179.37	0.0	19.6	211.4	203.8	7.56	27.977		
2,300.0	2,288.2	2,288.2	2,288.2	5.4	3.9	-179.41	0.0	19.6	223.8	215.9	7.90	28.322		
2,400.0	2,387.4	2,387.4	2,387.4	5.7	4.1	-179.44	0.0	19.6	236.3	228.0	8.25	28.637		
2,500.0	2,486.6	2,486.6	2,486.6	6.0	4.3	-179.47	0.0	19.6	248.7	240.1	8.60	28.927		
2,600.0	2,585.8	2,585.8	2,585.8	6.3	4.5	-179.49	0.0	19.6	261.1	252.2	8.94	29.195		
2,700.0	2,685.1	2,685.1	2,685.1	6.5	4.6	-179.52	0.0	19.6	273.6	264.3	9.29	29.442		
2,800.0	2,784.3	2,784.3	2,784.3	6.8	4.8	-179.54	0.0	19.6	286.0	276.4	9.64	29.672		
2,900.0	2,883.5	2,883.5	2,883.5	7.1	5.0	-179.56	0.0	19.6	298.4	288.5	9.99	29.886		
3,000.0	2,982.7	2,982.7	2,982.7	7.4	5.2	-179.57	0.0	19.6	310.9	300.5	10.33	30.085		
3,100.0	3,082.0	3,081.3	3,081.3	7.6	5.3	-179.49	-0.6	19.7	323.4	312.7	10.68	30.282		
3,200.0	3,181.2	3,180.0	3,180.0	7.9	5.5	-179.14	-2.6	20.2	336.1	325.1	11.03	30.484		
3,300.0	3,280.4	3,279.2	3,279.1	8.2	5.7	-178.76	-5.1	20.8	348.9	337.5	11.37	30.675		
3,400.0	3,379.6	3,378.3	3,378.2	8.5	5.9	-178.40	-7.5	21.4	361.7	350.0	11.72	30.855		
3,500.0	3,478.9	3,477.5	3,477.3	8.8	6.0	-178.07	-10.0	22.0	374.5	362.5	12.07	31.024		
3,600.0	3,578.1	3,576.6	3,576.5	9.0	6.2	-177.76	-12.4	22.7	387.4	375.0	12.42	31.183		
3,700.0	3,677.3	3,675.8	3,675.6	9.3	6.4	-177.47	-14.9	23.3	400.2	387.5	12.77	31.334		
3,800.0	3,776.5	3,774.9	3,774.7	9.6	6.6	-177.20	-17.3	23.9	413.1	400.0	13.12	31.476		
3,900.0	3,875.7	3,874.1	3,873.8	9.9	6.7	-176.95	-19.8	24.5	425.9	412.5	13.47	31.610		
4,000.0	3,975.0	3,973.2	3,972.9	10.2	6.9	-176.70	-22.2	25.1	438.8	425.0	13.83	31.738		
4,100.0	4,074.2	4,072.4	4,072.1	10.4	7.1	-176.48	-24.7	25.7	451.7	437.5	14.18	31.859		
4,200.0	4,173.4	4,171.5	4,171.2	10.7	7.3	-176.26	-27.1	26.3	464.6	450.1	14.53	31.974		
4,300.0	4,272.6	4,270.7	4,270.3	11.0	7.4	-176.06	-29.6	26.9	477.5	462.6	14.88	32.084		
4,400.0	4,371.9	4,369.8	4,369.4	11.3	7.6	-175.87	-32.0	27.5	490.4	475.1	15.23	32.188		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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		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)				Between Centres (ft)	Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	90.01	0.0	30.8	30.8					
100.0	100.0	100.0	100.0	0.1	0.1	90.01	0.0	30.8	30.8	30.5	0.26	117.472		
200.0	200.0	200.0	200.0	0.3	0.3	90.01	0.0	30.8	30.8	30.1	0.61	50.345		
300.0	300.0	300.0	300.0	0.5	0.5	90.01	0.0	30.8	30.8	29.8	0.96	32.038 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-173.45	0.0	30.8	31.6	30.3	1.31	24.159		
500.0	500.0	500.0	500.0	0.8	0.8	-173.95	0.0	30.8	34.2	32.6	1.66	20.647		
600.0	599.9	599.2	599.2	1.0	1.0	-174.28	-0.2	31.6	39.4	37.4	2.00	19.653 SF		
700.0	699.7	698.1	698.1	1.2	1.2	-174.16	-0.9	34.1	48.0	45.6	2.35	20.404		
800.0	799.4	796.5	796.4	1.4	1.4	-173.80	-1.9	38.2	59.9	57.2	2.70	22.225		
900.0	898.9	895.2	894.9	1.7	1.5	-173.47	-3.3	43.4	74.7	71.7	3.04	24.579		
1,000.0	998.3	993.8	993.4	1.9	1.7	-173.36	-4.7	48.7	91.3	87.9	3.38	26.978		
1,100.0	1,097.5	1,092.2	1,091.6	2.2	1.9	-173.36	-6.1	54.0	109.0	105.2	3.73	29.201		
1,200.0	1,196.7	1,190.6	1,189.9	2.4	2.1	-173.37	-7.5	59.3	126.6	122.5	4.08	31.045		
1,300.0	1,295.9	1,289.1	1,288.2	2.7	2.3	-173.37	-8.9	64.6	144.3	139.9	4.43	32.598		
1,400.0	1,395.2	1,387.5	1,386.4	3.0	2.5	-173.37	-10.3	69.9	162.0	157.2	4.77	33.925		
1,500.0	1,494.4	1,485.9	1,484.7	3.2	2.7	-173.38	-11.7	75.2	179.6	174.5	5.12	35.071		
1,600.0	1,593.6	1,584.3	1,583.0	3.5	2.9	-173.38	-13.1	80.5	197.3	191.9	5.47	36.070		
1,700.0	1,692.8	1,682.8	1,681.3	3.8	3.1	-173.38	-14.4	85.8	215.0	209.2	5.82	36.950		
1,800.0	1,792.1	1,781.2	1,779.5	4.0	3.3	-173.38	-15.8	91.1	232.7	226.5	6.17	37.730		
1,900.0	1,891.3	1,879.6	1,877.8	4.3	3.5	-173.38	-17.2	96.4	250.3	243.8	6.51	38.427		
2,000.0	1,990.5	1,978.0	1,976.1	4.6	3.7	-173.38	-18.6	101.7	268.0	261.2	6.86	39.053		
2,100.0	2,089.7	2,076.5	2,074.4	4.9	3.9	-173.39	-20.0	107.0	285.7	278.5	7.21	39.618		
2,200.0	2,188.9	2,174.9	2,172.6	5.1	4.0	-173.39	-21.4	112.3	303.4	295.8	7.56	40.131		
2,300.0	2,288.2	2,273.3	2,270.9	5.4	4.2	-173.39	-22.8	117.6	321.0	313.1	7.91	40.599		
2,400.0	2,387.4	2,371.7	2,369.2	5.7	4.4	-173.39	-24.2	122.9	338.7	330.5	8.26	41.027		
2,500.0	2,486.6	2,470.2	2,467.5	6.0	4.6	-173.39	-25.6	128.2	356.4	347.8	8.60	41.421		
2,600.0	2,585.8	2,568.6	2,565.7	6.3	4.8	-173.39	-26.9	133.5	374.1	365.1	8.95	41.783		
2,700.0	2,685.1	2,667.0	2,664.0	6.5	5.0	-173.39	-28.3	138.8	391.7	382.4	9.30	42.119		
2,800.0	2,784.3	2,765.5	2,762.3	6.8	5.2	-173.39	-29.7	144.1	409.4	399.8	9.65	42.430		
2,900.0	2,883.5	2,863.9	2,860.5	7.1	5.4	-173.39	-31.1	149.4	427.1	417.1	10.00	42.720		
3,000.0	2,982.7	2,962.3	2,958.8	7.4	5.6	-173.39	-32.5	154.7	444.8	434.4	10.35	42.990		
3,100.0	3,082.0	3,060.7	3,057.1	7.6	5.8	-173.39	-33.9	160.0	462.4	451.7	10.69	43.243		
3,200.0	3,181.2	3,159.2	3,155.4	7.9	6.0	-173.39	-35.3	165.3	480.1	469.1	11.04	43.479		
3,300.0	3,280.4	3,257.6	3,253.6	8.2	6.2	-173.39	-36.7	170.6	497.8	486.4	11.39	43.701		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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	90.01	0.0	39.1	39.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.01	0.0	39.1	39.1	38.9	0.26	149.509		
200.0	200.0	200.0	200.0	0.3	0.3	90.01	0.0	39.1	39.1	38.5	0.61	64.075		
300.0	300.0	300.0	300.0	0.5	0.5	90.01	0.0	39.1	39.1	38.2	0.96	40.775 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-173.41	0.0	39.1	40.0	38.7	1.31	30.567		
500.0	500.0	499.2	499.2	0.8	0.8	-173.64	-0.1	40.0	43.5	41.8	1.66	26.244		
600.0	599.9	598.2	598.1	1.0	1.0	-173.73	-0.5	42.5	50.4	48.4	2.00	25.147 SF		
700.0	699.7	696.7	696.6	1.2	1.2	-173.72	-1.1	46.7	60.7	58.3	2.35	25.846		
800.0	799.4	794.6	794.3	1.4	1.4	-173.65	-2.0	52.6	74.4	71.7	2.69	27.646		
900.0	898.9	891.8	891.2	1.7	1.6	-173.56	-3.1	60.0	91.5	88.5	3.03	30.171		
1,000.0	998.3	988.3	987.3	1.9	1.8	-173.46	-4.4	69.0	111.9	108.5	3.37	33.184		
1,100.0	1,097.5	1,085.9	1,084.4	2.2	2.0	-173.42	-5.8	78.5	133.9	130.2	3.72	36.025		
1,200.0	1,196.7	1,183.4	1,181.4	2.4	2.2	-173.40	-7.2	88.1	155.9	151.9	4.06	38.381		
1,300.0	1,295.9	1,281.0	1,278.5	2.7	2.5	-173.38	-8.6	97.6	178.0	173.5	4.41	40.367		
1,400.0	1,395.2	1,378.5	1,375.6	3.0	2.7	-173.37	-10.0	107.2	200.0	195.2	4.75	42.063		
1,500.0	1,494.4	1,476.1	1,472.6	3.2	2.9	-173.36	-11.4	116.8	222.0	216.9	5.10	43.529		
1,600.0	1,593.6	1,573.6	1,569.7	3.5	3.2	-173.35	-12.9	126.3	244.0	238.6	5.45	44.809		
1,700.0	1,692.8	1,671.2	1,666.8	3.8	3.4	-173.34	-14.3	135.9	266.0	260.2	5.79	45.935		
1,800.0	1,792.1	1,768.7	1,763.8	4.0	3.6	-173.34	-15.7	145.5	288.0	281.9	6.14	46.934		
1,900.0	1,891.3	1,866.2	1,860.9	4.3	3.9	-173.33	-17.1	155.0	310.1	303.6	6.48	47.826		
2,000.0	1,990.5	1,963.8	1,958.0	4.6	4.1	-173.33	-18.5	164.6	332.1	325.3	6.83	48.628		
2,100.0	2,089.7	2,061.3	2,055.0	4.9	4.3	-173.32	-19.9	174.1	354.1	346.9	7.17	49.352		
2,200.0	2,188.9	2,158.9	2,152.1	5.1	4.6	-173.32	-21.3	183.7	376.1	368.6	7.52	50.009		
2,300.0	2,288.2	2,256.4	2,249.2	5.4	4.8	-173.32	-22.7	193.3	398.1	390.3	7.87	50.609		
2,400.0	2,387.4	2,354.0	2,346.2	5.7	5.0	-173.31	-24.1	202.8	420.2	411.9	8.21	51.158		
2,500.0	2,486.6	2,451.5	2,443.3	6.0	5.3	-173.31	-25.5	212.4	442.2	433.6	8.56	51.662		
2,600.0	2,585.8	2,549.1	2,540.4	6.3	5.5	-173.31	-26.9	221.9	464.2	455.3	8.90	52.127		
2,700.0	2,685.1	2,646.6	2,637.4	6.5	5.8	-173.31	-28.4	231.5	486.2	477.0	9.25	52.558		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	50.3	50.3					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	50.3	50.3	50.1	0.26	192.226		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	50.3	50.3	49.7	0.61	82.383		
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	50.3	50.3	49.4	0.96	52.425 CC, ES		
400.0	400.0	399.1	399.1	0.7	0.7	-173.30	-0.1	51.2	52.1	50.7	1.31	39.816		
500.0	500.0	498.0	498.0	0.8	0.8	-173.36	-0.3	53.7	57.2	55.6	1.65	34.601		
600.0	599.9	596.6	596.5	1.0	1.0	-173.44	-0.7	58.0	65.9	63.9	2.00	32.931 SF		
700.0	699.7	694.7	694.3	1.2	1.2	-173.53	-1.2	63.9	77.9	75.6	2.34	33.235		
800.0	799.4	792.0	791.4	1.4	1.4	-173.60	-1.9	71.3	93.3	90.7	2.69	34.752		
900.0	898.9	888.5	887.5	1.7	1.6	-173.65	-2.7	80.4	112.2	109.1	3.03	37.067		
1,000.0	998.3	984.0	982.3	1.9	1.9	-173.70	-3.7	90.9	134.3	130.9	3.36	39.937		
1,100.0	1,097.5	1,078.4	1,076.0	2.2	2.1	-173.73	-4.8	102.9	159.1	155.4	3.70	42.989		
1,200.0	1,196.7	1,172.1	1,168.7	2.4	2.4	-173.70	-6.0	116.3	185.5	181.5	4.04	45.932		
1,300.0	1,295.9	1,267.5	1,263.0	2.7	2.7	-173.65	-7.3	131.0	213.0	208.7	4.38	48.642		
1,400.0	1,395.2	1,363.6	1,357.9	3.0	3.0	-173.61	-8.7	145.9	240.6	235.9	4.72	50.956		
1,500.0	1,494.4	1,459.7	1,452.9	3.2	3.3	-173.58	-10.1	160.8	268.2	263.1	5.06	52.958		
1,600.0	1,593.6	1,555.9	1,547.8	3.5	3.6	-173.56	-11.4	175.7	295.7	290.3	5.41	54.706		
1,700.0	1,692.8	1,652.0	1,642.8	3.8	3.9	-173.54	-12.8	190.5	323.3	317.6	5.75	56.246		
1,800.0	1,792.1	1,748.1	1,737.8	4.0	4.2	-173.52	-14.1	205.4	350.9	344.8	6.09	57.612		
1,900.0	1,891.3	1,844.2	1,832.7	4.3	4.5	-173.50	-15.5	220.3	378.4	372.0	6.43	58.833		
2,000.0	1,990.5	1,940.4	1,927.7	4.6	4.8	-173.49	-16.8	235.2	406.0	399.2	6.77	59.931		
2,100.0	2,089.7	2,036.5	2,022.6	4.9	5.1	-173.48	-18.2	250.1	433.6	426.5	7.12	60.923		
2,200.0	2,188.9	2,132.6	2,117.6	5.1	5.4	-173.47	-19.5	265.0	461.1	453.7	7.46	61.823		
2,300.0	2,288.2	2,228.7	2,212.5	5.4	5.7	-173.46	-20.9	279.8	488.7	480.9	7.80	62.645		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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 1H-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
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	298.9	298.9	0.5	0.5	90.06	-0.1	62.4	62.4	61.4	0.96	65.035		
400.0	400.0	397.8	397.7	0.7	0.7	-173.15	-0.2	64.9	65.8	64.5	1.30	50.436		
500.0	500.0	496.3	496.2	0.8	0.8	-173.16	-0.5	69.2	72.7	71.1	1.65	44.042		
600.0	599.9	594.5	594.2	1.0	1.0	-173.22	-0.9	75.0	83.0	81.0	2.00	41.610		
700.0	699.7	692.0	691.4	1.2	1.2	-173.31	-1.5	82.6	96.8	94.4	2.34	41.383 SF		
800.0	799.4	788.7	787.7	1.4	1.5	-173.42	-2.1	91.7	113.9	111.2	2.68	42.511		
900.0	898.9	884.6	882.9	1.7	1.7	-173.51	-2.8	102.3	134.4	131.4	3.02	44.533		
1,000.0	998.3	979.3	976.9	1.9	2.0	-173.60	-3.7	114.3	158.2	154.8	3.35	47.176		
1,100.0	1,097.5	1,072.9	1,069.6	2.2	2.2	-173.68	-4.6	127.7	184.6	180.9	3.69	50.036		
1,200.0	1,196.7	1,165.7	1,161.2	2.4	2.5	-173.71	-5.7	142.5	212.6	208.6	4.03	52.821		
1,300.0	1,295.9	1,257.6	1,251.6	2.7	2.9	-173.70	-6.8	158.6	242.2	237.8	4.36	55.550		
1,400.0	1,395.2	1,348.6	1,340.9	3.0	3.2	-173.67	-8.0	176.0	273.2	268.5	4.69	58.235		
1,500.0	1,494.4	1,439.7	1,430.0	3.2	3.5	-173.62	-9.3	194.7	305.8	300.7	5.02	60.855		
1,600.0	1,593.6	1,534.1	1,522.3	3.5	3.9	-173.58	-10.7	214.6	338.7	333.4	5.36	63.169		
1,700.0	1,692.8	1,628.5	1,614.6	3.8	4.3	-173.54	-12.1	234.5	371.7	366.0	5.70	65.208		
1,800.0	1,792.1	1,722.9	1,706.8	4.0	4.7	-173.51	-13.5	254.4	404.7	398.6	6.04	67.019		
1,900.0	1,891.3	1,817.3	1,799.1	4.3	5.0	-173.48	-14.9	274.3	437.7	431.3	6.38	68.638		
2,000.0	1,990.5	1,911.7	1,891.4	4.6	5.4	-173.46	-16.3	294.2	470.6	463.9	6.71	70.094		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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 33-11 (EXISTING) - EXISTING - SURVEYS											Offset Site Error:		0.0 ft	
Survey Program: 100-MWD											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,300.0	7,180.0	7,112.8	7,111.2	77.9	12.4	82.36	4,679.9	-594.4	468.6	380.4	88.22	5.312		
11,400.0	7,180.0	7,116.4	7,114.8	79.6	12.4	84.06	4,680.0	-594.4	372.7	282.4	90.24	4.130		
11,500.0	7,180.0	7,119.9	7,118.3	81.3	12.4	85.78	4,680.2	-594.4	279.6	187.4	92.20	3.032		
11,600.0	7,180.0	7,123.5	7,121.9	83.0	12.5	87.53	4,680.3	-594.5	193.5	99.4	94.10	2.056		
11,700.0	7,180.0	7,127.2	7,125.6	84.7	12.5	89.29	4,680.4	-594.5	129.1	33.2	95.92	1.346 Level 3		
11,753.9	7,180.0	7,129.1	7,127.5	85.6	12.5	90.25	4,680.5	-594.5	117.3	20.5	96.87	1.211 Level 2, CC, ES, SF		
11,800.0	7,180.0	7,130.8	7,129.2	86.4	12.5	91.07	4,680.6	-594.5	126.0	28.4	97.66	1.291 Level 3		
11,900.0	7,180.0	7,134.5	7,132.9	88.1	12.5	92.87	4,680.7	-594.5	187.3	88.0	99.31	1.886		
12,000.0	7,180.0	7,138.2	7,136.6	89.8	12.5	94.68	4,680.8	-594.5	272.5	171.6	100.86	2.701		
12,100.0	7,180.0	7,142.0	7,140.3	91.5	12.5	96.49	4,681.0	-594.5	365.2	262.9	102.32	3.569		
12,200.0	7,180.0	7,145.7	7,144.1	93.3	12.5	98.30	4,681.1	-594.5	460.9	357.3	103.66	4.446		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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 34-11 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 100-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		
9,600.0	7,180.0	7,118.7	7,116.8	49.4	12.7	74.09	3,006.5	-683.2	483.0	425.3	57.73	8.367		
9,700.0	7,180.0	7,122.8	7,121.0	51.1	12.7	77.56	3,006.6	-683.2	384.2	324.0	60.19	6.383		
9,800.0	7,180.0	7,126.8	7,124.9	52.7	12.7	81.00	3,006.8	-683.2	286.1	223.6	62.50	4.578		
9,900.0	7,180.0	7,130.6	7,128.7	54.3	12.7	84.39	3,006.9	-683.2	190.0	125.3	64.64	2.939		
10,000.0	7,180.0	7,134.3	7,132.4	56.0	12.7	87.70	3,007.1	-683.2	101.5	34.9	66.60	1.524		
10,079.1	7,180.0	7,137.2	7,135.3	57.3	12.7	90.26	3,007.2	-683.3	63.6	-4.4	68.02	0.935	Level 1, CC, ES, SF	
10,100.0	7,180.0	7,137.9	7,136.0	57.6	12.7	90.92	3,007.2	-683.3	67.0	-1.4	68.38	0.979	Level 1	
10,200.0	7,180.0	7,141.4	7,139.5	59.3	12.7	94.03	3,007.3	-683.3	136.5	66.6	69.97	1.951		
10,300.0	7,180.0	7,144.7	7,142.8	61.0	12.7	97.01	3,007.4	-683.3	229.7	158.4	71.39	3.218		
10,400.0	7,180.0	7,148.0	7,146.1	62.6	12.7	99.87	3,007.5	-683.3	326.9	254.3	72.64	4.501		
10,500.0	7,180.0	7,151.1	7,149.2	64.3	12.7	102.59	3,007.6	-683.3	425.4	351.7	73.73	5.770		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1B-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 1B-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) - OLSON 1 (EXISTING) - PLAN ONLY - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
2,000.0	1,990.5	1,967.5	1,967.5	4.6	3.4	63.18	392.0	-440.6	494.8	487.0	7.80	63.430		
2,100.0	2,089.7	2,066.7	2,066.7	4.9	3.6	64.47	392.0	-440.6	489.3	481.0	8.25	59.289		
2,200.0	2,188.9	2,165.9	2,165.9	5.1	3.8	65.79	392.0	-440.6	484.0	475.3	8.71	55.586		
2,300.0	2,288.2	2,265.2	2,265.2	5.4	3.9	67.14	392.0	-440.6	479.0	469.8	9.17	52.263		
2,400.0	2,387.4	2,364.4	2,364.4	5.7	4.1	68.52	392.0	-440.6	474.3	464.7	9.63	49.272		
2,500.0	2,486.6	2,463.6	2,463.6	6.0	4.3	69.92	392.0	-440.6	469.8	459.8	10.09	46.570		
2,600.0	2,585.8	2,562.8	2,562.8	6.3	4.5	71.35	392.0	-440.6	465.7	455.1	10.55	44.125		
2,700.0	2,685.1	2,662.1	2,662.1	6.5	4.6	72.80	392.0	-440.6	461.8	450.8	11.02	41.907		
2,800.0	2,784.3	2,761.3	2,761.3	6.8	4.8	74.27	392.0	-440.6	458.3	446.8	11.49	39.892		
2,900.0	2,883.5	2,860.5	2,860.5	7.1	5.0	75.77	392.0	-440.6	455.0	443.1	11.96	38.058		
3,000.0	2,982.7	2,959.7	2,959.7	7.4	5.1	77.29	392.0	-440.6	452.1	439.7	12.43	36.387		
3,100.0	3,082.0	3,059.0	3,059.0	7.6	5.3	78.82	392.0	-440.6	449.5	436.6	12.89	34.863		
3,200.0	3,181.2	3,158.2	3,158.2	7.9	5.5	80.37	392.0	-440.6	447.3	433.9	13.36	33.472		
3,300.0	3,280.4	3,257.4	3,257.4	8.2	5.7	81.94	392.0	-440.6	445.3	431.5	13.83	32.202		
3,400.0	3,379.6	3,356.6	3,356.6	8.5	5.8	83.52	392.0	-440.6	443.8	429.5	14.30	31.043		
3,500.0	3,478.9	3,455.9	3,455.9	8.8	6.0	85.10	392.0	-440.6	442.5	427.8	14.76	29.984		
3,600.0	3,578.1	3,555.1	3,555.1	9.0	6.2	86.70	392.0	-440.6	441.6	426.4	15.22	29.017		
3,700.0	3,677.3	3,654.3	3,654.3	9.3	6.4	88.30	392.0	-440.6	441.1	425.4	15.68	28.135		
3,800.0	3,776.5	3,753.5	3,753.5	9.6	6.5	89.90	392.0	-440.6	440.9	424.7	16.13	27.331		
3,806.0	3,782.5	3,759.5	3,759.5	9.6	6.5	90.00	392.0	-440.6	440.9	424.7	16.16	27.285 CC		
3,900.0	3,875.7	3,852.7	3,852.7	9.9	6.7	91.51	392.0	-440.6	441.0	424.4	16.58	26.598 ES		
4,000.0	3,975.0	3,952.0	3,952.0	10.2	6.9	93.11	392.0	-440.6	441.5	424.5	17.03	25.931		
4,100.0	4,074.2	4,051.2	4,051.2	10.4	7.1	94.70	392.0	-440.6	442.4	424.9	17.47	25.325		
4,200.0	4,173.4	4,150.4	4,150.4	10.7	7.2	96.29	392.0	-440.6	443.6	425.7	17.90	24.775		
4,300.0	4,272.6	4,249.6	4,249.6	11.0	7.4	97.87	392.0	-440.6	445.1	426.8	18.34	24.277		
4,400.0	4,371.9	4,348.9	4,348.9	11.3	7.6	99.44	392.0	-440.6	447.0	428.3	18.76	23.827		
4,500.0	4,471.1	4,448.1	4,448.1	11.6	7.7	100.99	392.0	-440.6	449.2	430.1	19.18	23.422		
4,600.0	4,570.3	4,520.0	4,520.0	11.8	7.9	102.11	392.0	-440.6	452.6	433.1	19.56	23.144 SF		
4,700.0	4,669.5	4,520.0	4,520.0	12.1	7.9	102.11	392.0	-440.6	472.0	452.1	19.83	23.797		

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

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

