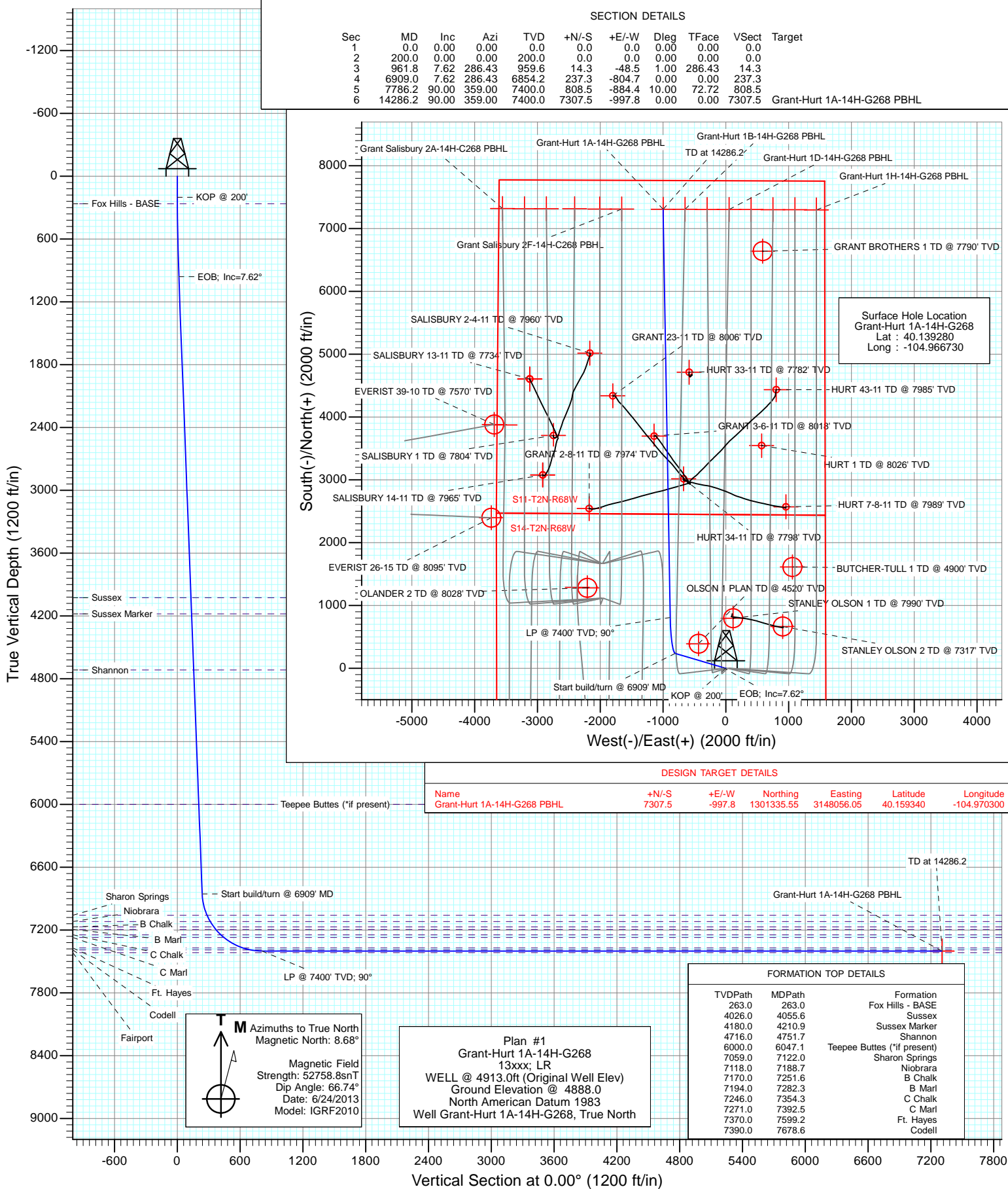




Project: DJ Wattenberg
Site: S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)
Well: Grant-Hurt 1A-14H-G268
Wellbore: Hz
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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 1A-14H-G268					
Well Position	+N/-S	0.0 ft	Northing:	1,294,034.17 ft	Latitude:	40.139280
	+E/-W	0.0 ft	Easting:	3,149,097.79 ft	Longitude:	-104.966730
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	
961.8	7.62	286.43	959.6	14.3	-48.5	1.00	1.00	0.00	286.43	
6,909.0	7.62	286.43	6,854.2	237.3	-804.7	0.00	0.00	0.00	0.00	
7,786.2	90.00	359.00	7,400.0	808.5	-884.4	10.00	9.39	8.27	72.72	
14,286.2	90.00	359.00	7,400.0	7,307.5	-997.8	0.00	0.00	0.00	0.00	Grant-Hurt 1A-14H-G:

Planning Report

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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 1A-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	286.43	263.0	0.1	-0.3	0.1	1.00	1.00	Fox Hills - BASE
300.0	1.00	286.43	300.0	0.2	-0.8	0.2	1.00	1.00	
400.0	2.00	286.43	400.0	1.0	-3.3	1.0	1.00	1.00	
500.0	3.00	286.43	499.9	2.2	-7.5	2.2	1.00	1.00	
600.0	4.00	286.43	599.7	3.9	-13.4	3.9	1.00	1.00	
700.0	5.00	286.43	699.4	6.2	-20.9	6.2	1.00	1.00	
800.0	6.00	286.43	798.9	8.9	-30.1	8.9	1.00	1.00	
900.0	7.00	286.43	898.3	12.1	-41.0	12.1	1.00	1.00	
961.8	7.62	286.43	959.6	14.3	-48.5	14.3	1.00	1.00	EOB; Inc=7.62°
1,000.0	7.62	286.43	997.4	15.7	-53.4	15.7	0.00	0.00	
1,100.0	7.62	286.43	1,096.5	19.5	-66.1	19.5	0.00	0.00	
1,200.0	7.62	286.43	1,195.7	23.2	-78.8	23.2	0.00	0.00	
1,300.0	7.62	286.43	1,294.8	27.0	-91.5	27.0	0.00	0.00	
1,400.0	7.62	286.43	1,393.9	30.7	-104.2	30.7	0.00	0.00	
1,500.0	7.62	286.43	1,493.0	34.5	-116.9	34.5	0.00	0.00	
1,600.0	7.62	286.43	1,592.1	38.2	-129.7	38.2	0.00	0.00	
1,700.0	7.62	286.43	1,691.2	42.0	-142.4	42.0	0.00	0.00	
1,800.0	7.62	286.43	1,790.4	45.7	-155.1	45.7	0.00	0.00	
1,900.0	7.62	286.43	1,889.5	49.5	-167.8	49.5	0.00	0.00	
2,000.0	7.62	286.43	1,988.6	53.2	-180.5	53.2	0.00	0.00	
2,100.0	7.62	286.43	2,087.7	57.0	-193.2	57.0	0.00	0.00	
2,200.0	7.62	286.43	2,186.8	60.7	-206.0	60.7	0.00	0.00	
2,300.0	7.62	286.43	2,285.9	64.5	-218.7	64.5	0.00	0.00	
2,400.0	7.62	286.43	2,385.1	68.2	-231.4	68.2	0.00	0.00	
2,500.0	7.62	286.43	2,484.2	72.0	-244.1	72.0	0.00	0.00	
2,600.0	7.62	286.43	2,583.3	75.7	-256.8	75.7	0.00	0.00	
2,700.0	7.62	286.43	2,682.4	79.5	-269.5	79.5	0.00	0.00	
2,800.0	7.62	286.43	2,781.5	83.2	-282.2	83.2	0.00	0.00	
2,900.0	7.62	286.43	2,880.6	87.0	-295.0	87.0	0.00	0.00	
3,000.0	7.62	286.43	2,979.8	90.7	-307.7	90.7	0.00	0.00	
3,100.0	7.62	286.43	3,078.9	94.5	-320.4	94.5	0.00	0.00	
3,200.0	7.62	286.43	3,178.0	98.2	-333.1	98.2	0.00	0.00	
3,300.0	7.62	286.43	3,277.1	102.0	-345.8	102.0	0.00	0.00	
3,400.0	7.62	286.43	3,376.2	105.7	-358.5	105.7	0.00	0.00	
3,500.0	7.62	286.43	3,475.4	109.5	-371.3	109.5	0.00	0.00	
3,600.0	7.62	286.43	3,574.5	113.2	-384.0	113.2	0.00	0.00	
3,700.0	7.62	286.43	3,673.6	117.0	-396.7	117.0	0.00	0.00	
3,800.0	7.62	286.43	3,772.7	120.7	-409.4	120.7	0.00	0.00	
3,900.0	7.62	286.43	3,871.8	124.5	-422.1	124.5	0.00	0.00	
4,000.0	7.62	286.43	3,970.9	128.2	-434.8	128.2	0.00	0.00	
4,055.6	7.62	286.43	4,026.0	130.3	-441.9	130.3	0.00	0.00	Sussex
4,100.0	7.62	286.43	4,070.1	132.0	-447.6	132.0	0.00	0.00	
4,200.0	7.62	286.43	4,169.2	135.7	-460.3	135.7	0.00	0.00	
4,210.9	7.62	286.43	4,180.0	136.1	-461.7	136.1	0.00	0.00	Sussex Marker
4,300.0	7.62	286.43	4,268.3	139.5	-473.0	139.5	0.00	0.00	
4,400.0	7.62	286.43	4,367.4	143.2	-485.7	143.2	0.00	0.00	
4,500.0	7.62	286.43	4,466.5	147.0	-498.4	147.0	0.00	0.00	
4,600.0	7.62	286.43	4,565.6	150.7	-511.1	150.7	0.00	0.00	
4,700.0	7.62	286.43	4,664.8	154.5	-523.9	154.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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
4,751.7	7.62	286.43	4,716.0	156.4	-530.4	156.4	0.00	0.00	Shannon
4,800.0	7.62	286.43	4,763.9	158.2	-536.6	158.2	0.00	0.00	
4,900.0	7.62	286.43	4,863.0	162.0	-549.3	162.0	0.00	0.00	
5,000.0	7.62	286.43	4,962.1	165.7	-562.0	165.7	0.00	0.00	
5,100.0	7.62	286.43	5,061.2	169.5	-574.7	169.5	0.00	0.00	
5,200.0	7.62	286.43	5,160.3	173.2	-587.4	173.2	0.00	0.00	
5,300.0	7.62	286.43	5,259.5	177.0	-600.1	177.0	0.00	0.00	
5,400.0	7.62	286.43	5,358.6	180.7	-612.9	180.7	0.00	0.00	
5,500.0	7.62	286.43	5,457.7	184.5	-625.6	184.5	0.00	0.00	
5,600.0	7.62	286.43	5,556.8	188.2	-638.3	188.2	0.00	0.00	
5,700.0	7.62	286.43	5,655.9	192.0	-651.0	192.0	0.00	0.00	
5,800.0	7.62	286.43	5,755.1	195.7	-663.7	195.7	0.00	0.00	
5,900.0	7.62	286.43	5,854.2	199.5	-676.4	199.5	0.00	0.00	
6,000.0	7.62	286.43	5,953.3	203.2	-689.2	203.2	0.00	0.00	
6,047.1	7.62	286.43	6,000.0	205.0	-695.2	205.0	0.00	0.00	Teepee Buttes (*if present)
6,100.0	7.62	286.43	6,052.4	207.0	-701.9	207.0	0.00	0.00	
6,200.0	7.62	286.43	6,151.5	210.7	-714.6	210.7	0.00	0.00	
6,300.0	7.62	286.43	6,250.6	214.5	-727.3	214.5	0.00	0.00	
6,400.0	7.62	286.43	6,349.8	218.2	-740.0	218.2	0.00	0.00	
6,500.0	7.62	286.43	6,448.9	222.0	-752.7	222.0	0.00	0.00	
6,600.0	7.62	286.43	6,548.0	225.7	-765.5	225.7	0.00	0.00	
6,700.0	7.62	286.43	6,647.1	229.5	-778.2	229.5	0.00	0.00	
6,800.0	7.62	286.43	6,746.2	233.2	-790.9	233.2	0.00	0.00	
6,900.0	7.62	286.43	6,845.3	237.0	-803.6	237.0	0.00	0.00	
6,909.0	7.62	286.43	6,854.2	237.3	-804.7	237.3	0.00	0.00	Start build/turn @ 6909' MD
7,000.0	13.48	326.83	6,943.8	247.9	-816.4	247.9	10.00	6.44	
7,100.0	22.53	341.08	7,038.8	275.9	-829.0	275.9	10.00	9.05	
7,122.0	24.61	342.83	7,059.0	284.2	-831.7	284.2	10.00	9.48	Sharon Springs
7,188.7	31.03	346.75	7,118.0	314.3	-839.8	314.3	10.00	9.62	Niobrara
7,200.0	32.13	347.28	7,127.6	320.0	-841.1	320.0	10.00	9.70	
7,251.6	37.15	349.30	7,170.0	348.7	-847.0	348.7	10.00	9.75	B Chalk
7,282.3	40.16	350.30	7,194.0	367.6	-850.4	367.6	10.00	9.79	B Marl
7,300.0	41.90	350.82	7,207.4	379.1	-852.3	379.1	10.00	9.81	
7,354.3	47.24	352.22	7,246.0	416.7	-857.9	416.7	10.00	9.84	C Chalk
7,392.5	51.00	353.07	7,271.0	445.4	-861.6	445.4	10.00	9.86	C Marl
7,400.0	51.75	353.23	7,275.7	451.2	-862.3	451.2	10.00	9.87	
7,500.0	61.63	355.05	7,330.6	534.3	-870.7	534.3	10.00	9.88	
7,599.2	71.46	356.55	7,370.0	624.9	-877.3	624.9	10.00	9.90	Ft. Hayes
7,600.0	71.54	356.56	7,370.3	625.7	-877.4	625.7	10.00	9.91	
7,678.6	79.32	357.62	7,390.0	701.5	-881.2	701.5	10.00	9.91	Codell
7,700.0	81.45	357.90	7,393.6	722.7	-882.1	722.7	10.00	9.92	
7,786.2	90.00	359.00	7,400.0	808.5	-884.4	808.5	10.00	9.92	LP @ 7400' TVD; 90°
7,800.0	90.00	359.00	7,400.0	822.3	-884.6	822.3	0.00	0.00	
7,900.0	90.00	359.00	7,400.0	922.3	-886.4	922.3	0.00	0.00	
8,000.0	90.00	359.00	7,400.0	1,022.3	-888.1	1,022.3	0.00	0.00	
8,100.0	90.00	359.00	7,400.0	1,122.3	-889.8	1,122.3	0.00	0.00	
8,200.0	90.00	359.00	7,400.0	1,222.2	-891.6	1,222.2	0.00	0.00	
8,300.0	90.00	359.00	7,400.0	1,322.2	-893.3	1,322.2	0.00	0.00	
8,400.0	90.00	359.00	7,400.0	1,422.2	-895.1	1,422.2	0.00	0.00	
8,500.0	90.00	359.00	7,400.0	1,522.2	-896.8	1,522.2	0.00	0.00	
8,600.0	90.00	359.00	7,400.0	1,622.2	-898.6	1,622.2	0.00	0.00	
8,700.0	90.00	359.00	7,400.0	1,722.2	-900.3	1,722.2	0.00	0.00	

Planning Report

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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 1A-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
8,800.0	90.00	359.00	7,400.0	1,822.1	-902.1	1,822.1	0.00	0.00	
8,900.0	90.00	359.00	7,400.0	1,922.1	-903.8	1,922.1	0.00	0.00	
9,000.0	90.00	359.00	7,400.0	2,022.1	-905.6	2,022.1	0.00	0.00	
9,100.0	90.00	359.00	7,400.0	2,122.1	-907.3	2,122.1	0.00	0.00	
9,200.0	90.00	359.00	7,400.0	2,222.1	-909.0	2,222.1	0.00	0.00	
9,300.0	90.00	359.00	7,400.0	2,322.1	-910.8	2,322.1	0.00	0.00	
9,400.0	90.00	359.00	7,400.0	2,422.1	-912.5	2,422.1	0.00	0.00	
9,500.0	90.00	359.00	7,400.0	2,522.0	-914.3	2,522.0	0.00	0.00	
9,600.0	90.00	359.00	7,400.0	2,622.0	-916.0	2,622.0	0.00	0.00	
9,700.0	90.00	359.00	7,400.0	2,722.0	-917.8	2,722.0	0.00	0.00	
9,800.0	90.00	359.00	7,400.0	2,822.0	-919.5	2,822.0	0.00	0.00	
9,900.0	90.00	359.00	7,400.0	2,922.0	-921.3	2,922.0	0.00	0.00	
10,000.0	90.00	359.00	7,400.0	3,022.0	-923.0	3,022.0	0.00	0.00	
10,100.0	90.00	359.00	7,400.0	3,122.0	-924.8	3,122.0	0.00	0.00	
10,200.0	90.00	359.00	7,400.0	3,221.9	-926.5	3,221.9	0.00	0.00	
10,300.0	90.00	359.00	7,400.0	3,321.9	-928.2	3,321.9	0.00	0.00	
10,400.0	90.00	359.00	7,400.0	3,421.9	-930.0	3,421.9	0.00	0.00	
10,500.0	90.00	359.00	7,400.0	3,521.9	-931.7	3,521.9	0.00	0.00	
10,600.0	90.00	359.00	7,400.0	3,621.9	-933.5	3,621.9	0.00	0.00	
10,700.0	90.00	359.00	7,400.0	3,721.9	-935.2	3,721.9	0.00	0.00	
10,800.0	90.00	359.00	7,400.0	3,821.8	-937.0	3,821.8	0.00	0.00	
10,900.0	90.00	359.00	7,400.0	3,921.8	-938.7	3,921.8	0.00	0.00	
11,000.0	90.00	359.00	7,400.0	4,021.8	-940.5	4,021.8	0.00	0.00	
11,100.0	90.00	359.00	7,400.0	4,121.8	-942.2	4,121.8	0.00	0.00	
11,200.0	90.00	359.00	7,400.0	4,221.8	-944.0	4,221.8	0.00	0.00	
11,300.0	90.00	359.00	7,400.0	4,321.8	-945.7	4,321.8	0.00	0.00	
11,400.0	90.00	359.00	7,400.0	4,421.8	-947.4	4,421.8	0.00	0.00	
11,500.0	90.00	359.00	7,400.0	4,521.7	-949.2	4,521.7	0.00	0.00	
11,600.0	90.00	359.00	7,400.0	4,621.7	-950.9	4,621.7	0.00	0.00	
11,700.0	90.00	359.00	7,400.0	4,721.7	-952.7	4,721.7	0.00	0.00	
11,800.0	90.00	359.00	7,400.0	4,821.7	-954.4	4,821.7	0.00	0.00	
11,900.0	90.00	359.00	7,400.0	4,921.7	-956.2	4,921.7	0.00	0.00	
12,000.0	90.00	359.00	7,400.0	5,021.7	-957.9	5,021.7	0.00	0.00	
12,100.0	90.00	359.00	7,400.0	5,121.6	-959.7	5,121.6	0.00	0.00	
12,200.0	90.00	359.00	7,400.0	5,221.6	-961.4	5,221.6	0.00	0.00	
12,300.0	90.00	359.00	7,400.0	5,321.6	-963.1	5,321.6	0.00	0.00	
12,400.0	90.00	359.00	7,400.0	5,421.6	-964.9	5,421.6	0.00	0.00	
12,500.0	90.00	359.00	7,400.0	5,521.6	-966.6	5,521.6	0.00	0.00	
12,600.0	90.00	359.00	7,400.0	5,621.6	-968.4	5,621.6	0.00	0.00	
12,700.0	90.00	359.00	7,400.0	5,721.6	-970.1	5,721.6	0.00	0.00	
12,800.0	90.00	359.00	7,400.0	5,821.5	-971.9	5,821.5	0.00	0.00	
12,900.0	90.00	359.00	7,400.0	5,921.5	-973.6	5,921.5	0.00	0.00	
13,000.0	90.00	359.00	7,400.0	6,021.5	-975.4	6,021.5	0.00	0.00	
13,100.0	90.00	359.00	7,400.0	6,121.5	-977.1	6,121.5	0.00	0.00	
13,200.0	90.00	359.00	7,400.0	6,221.5	-978.9	6,221.5	0.00	0.00	
13,300.0	90.00	359.00	7,400.0	6,321.5	-980.6	6,321.5	0.00	0.00	
13,400.0	90.00	359.00	7,400.0	6,421.4	-982.3	6,421.4	0.00	0.00	
13,500.0	90.00	359.00	7,400.0	6,521.4	-984.1	6,521.4	0.00	0.00	
13,600.0	90.00	359.00	7,400.0	6,621.4	-985.8	6,621.4	0.00	0.00	
13,700.0	90.00	359.00	7,400.0	6,721.4	-987.6	6,721.4	0.00	0.00	
13,800.0	90.00	359.00	7,400.0	6,821.4	-989.3	6,821.4	0.00	0.00	
13,900.0	90.00	359.00	7,400.0	6,921.4	-991.1	6,921.4	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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
14,000.0	90.00	359.00	7,400.0	7,021.4	-992.8	7,021.4	0.00	0.00	
14,100.0	90.00	359.00	7,400.0	7,121.3	-994.6	7,121.3	0.00	0.00	
14,200.0	90.00	359.00	7,400.0	7,221.3	-996.3	7,221.3	0.00	0.00	
14,286.2	90.00	359.00	7,400.0	7,307.5	-997.8	7,307.5	0.00	0.00	TD at 14286.2 - Grant-Hurt 1A-14H-G268 PBH

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 1A-14H-G268	0.00	0.00	7,400.0	7,307.5	-997.8	1,301,335.55	3,148,056.05	40.159340	-104.970300
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
263.0	263.0	Fox Hills - BASE			
4,055.6	4,026.0	Sussex			
4,210.9	4,180.0	Sussex Marker			
4,751.7	4,716.0	Shannon			
6,047.1	6,000.0	Teepee Buttes (*if present)			
7,122.0	7,059.0	Sharon Springs			
7,188.7	7,118.0	Niobrara			
7,251.6	7,170.0	B Chalk			
7,282.3	7,194.0	B Marl			
7,354.3	7,246.0	C Chalk			
7,392.5	7,271.0	C Marl			
7,599.2	7,370.0	Ft. Hayes			
7,678.6	7,390.0	Codell			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
961.8	959.6	14.3	-48.5	EOB; Inc=7.62°
6,909.0	6,854.2	237.3	-804.7	Start build/turn @ 6909' MD
7,786.2	7,400.0	808.5	-884.4	LP @ 7400' TVD; 90°
14,286.2	7,400.0	7,307.5	-997.8	TD at 14286.2

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Grant-Hurt 1A-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 1A-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 1A-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	14,286.2	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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
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	10,677.3	7,471.4	203.0	116.5	2.347	CC, ES, 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	8,459.1	7,588.5	413.4	369.2	9.355	CC
Grant Elmquist 2F-14H-C268 - Hz - Plan #2	8,500.0	7,553.0	413.7	369.1	9.276	ES
Grant Elmquist 2F-14H-C268 - Hz - Plan #2	8,600.0	7,473.5	418.7	373.1	9.184	SF
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	7,300.0	8,512.7	145.6	102.4	3.373	ES, SF
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	7,329.3	8,492.8	144.0	102.7	3.484	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 1B-14H-G268 - Hz - Plan #1	200.0	200.0	8.4	7.8	13.730	CC, ES
Grant-Hurt 1B-14H-G268 - Hz - Plan #1	14,286.2	14,371.8	412.8	190.5	1.857	SF
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	200.0	200.0	19.6	19.0	32.038	CC, ES
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	700.0	700.6	34.5	32.2	14.646	SF
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	200.0	200.0	28.0	27.3	45.768	CC, ES
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	600.0	599.7	41.5	39.5	20.704	SF
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	200.0	200.0	39.1	38.5	64.075	CC, ES
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	600.0	598.8	53.5	51.5	26.698	SF
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	200.0	200.0	47.5	46.9	77.806	CC, ES
Grant-Hurt 1F-14H-G268 - Hz - Plan #1	600.0	597.5	64.5	62.5	32.196	SF
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	200.0	200.0	58.7	58.1	96.113	CC, ES
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	700.0	693.3	93.6	91.2	39.934	SF
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	200.0	200.0	69.9	69.3	114.420	CC, ES
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	700.0	690.4	112.4	110.1	48.079	SF
HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 1 (EXISTING) - ENCANAL WELL - NO SURVEYS						Out of range
HURT 33-11 (EXISTING) - EXISTING - SURVEYS	11,661.7	7,347.3	366.2	268.4	3.745	CC, ES
HURT 33-11 (EXISTING) - EXISTING - SURVEYS	11,700.0	7,349.2	368.2	269.8	3.740	SF
HURT 34-11 (EXISTING) - EXISTING - SURVEYS	9,985.5	7,356.1	248.2	179.2	3.601	CC, ES
HURT 34-11 (EXISTING) - EXISTING - SURVEYS	10,000.0	7,356.3	248.6	179.4	3.594	SF
HURT 43-11 (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 1A-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 1A-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)						
HURT 7-8-11 (EXISTING) - EXISTING - SURVEYS						Out of range
MDM 33-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
MDM 34-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
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	4,550.5	4,493.6	253.7	233.6	12.636	CC, ES
OLSON 1 (EXISTING) - PLAN ONLY - PLAN #1	4,600.0	4,520.0	254.8	234.6	12.573	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 1A-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 1A-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			
10,300.0	7,400.0	7,469.2	7,363.0	63.3	21.0	-88.35	3,695.6	-1,137.7	428.4	348.4	79.96	5.358			
10,400.0	7,400.0	7,469.8	7,363.6	65.0	21.0	-88.51	3,695.6	-1,137.7	343.6	261.9	81.69	4.207			
10,500.0	7,400.0	7,470.4	7,364.2	66.6	21.0	-88.66	3,695.6	-1,137.7	269.5	186.1	83.42	3.231			
10,600.0	7,400.0	7,470.9	7,364.7	68.3	21.0	-88.82	3,695.6	-1,137.8	217.2	132.1	85.14	2.551			
10,677.3	7,400.0	7,471.4	7,365.2	69.6	21.0	-88.95	3,695.6	-1,137.8	203.0	116.5	86.48	2.347	CC, ES, SF		
10,700.0	7,400.0	7,471.5	7,365.3	70.0	21.0	-88.98	3,695.6	-1,137.8	204.3	117.4	86.87	2.351			
10,800.0	7,400.0	7,472.1	7,365.8	71.7	21.0	-89.14	3,695.6	-1,137.8	237.2	148.6	88.60	2.677			
10,900.0	7,400.0	7,472.6	7,366.4	73.4	21.0	-89.30	3,695.6	-1,137.8	301.4	211.0	90.33	3.336			
11,000.0	7,400.0	7,473.2	7,367.0	75.1	21.0	-89.45	3,695.6	-1,137.8	381.3	289.2	92.06	4.141			
11,100.0	7,400.0	7,473.7	7,367.5	76.8	21.0	-89.61	3,695.6	-1,137.8	468.9	375.1	93.80	5.000			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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 2F-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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
7,400.0	7,275.7	8,608.0	7,410.0	21.6	28.5	-100.34	457.7	-1,320.9	483.6	438.9	44.73	10.812	
7,500.0	7,330.6	8,525.1	7,410.0	22.4	27.4	-98.30	540.6	-1,319.8	459.7	416.1	43.59	10.546	
7,600.0	7,370.3	8,433.8	7,410.0	23.3	26.1	-95.89	631.9	-1,318.5	445.0	402.5	42.56	10.457	
7,700.0	7,393.6	8,336.9	7,410.0	24.4	24.9	-94.18	728.8	-1,317.1	436.5	394.8	41.73	10.460	
7,800.0	7,400.0	8,237.3	7,410.0	25.5	23.6	-93.85	828.4	-1,315.7	432.1	391.0	41.16	10.500	
7,900.0	7,400.0	8,137.3	7,410.0	26.6	22.5	-93.88	928.3	-1,314.3	429.0	387.7	41.24	10.403	
8,000.0	7,400.0	8,037.4	7,410.0	27.8	21.4	-93.91	1,028.2	-1,312.9	425.8	384.4	41.43	10.278	
8,100.0	7,400.0	7,937.4	7,410.0	29.1	20.4	-93.94	1,128.2	-1,311.5	422.7	381.0	41.74	10.127	
8,200.0	7,400.0	7,837.5	7,410.0	30.4	19.5	-93.97	1,228.1	-1,310.1	419.6	377.4	42.18	9.947	
8,300.0	7,400.0	7,738.2	7,409.0	31.8	18.7	-93.86	1,327.4	-1,308.8	416.4	373.7	42.76	9.738	
8,400.0	7,400.0	7,642.2	7,395.6	33.2	18.1	-92.02	1,422.3	-1,308.8	413.9	370.3	43.60	9.494	
8,459.1	7,400.0	7,588.5	7,381.2	34.1	17.8	-90.02	1,474.0	-1,309.4	413.4	369.2	44.19	9.355 CC	
8,500.0	7,400.0	7,553.0	7,369.0	34.6	17.7	-88.34	1,507.4	-1,310.1	413.7	369.1	44.60	9.276 ES	
8,600.0	7,400.0	7,473.5	7,334.6	36.1	17.3	-83.62	1,578.9	-1,312.4	418.7	373.1	45.59	9.184 SF	
8,700.0	7,400.0	7,400.0	7,294.3	37.6	17.1	-78.24	1,640.2	-1,315.4	431.9	385.6	46.34	9.321	
8,800.0	7,400.0	7,350.0	7,262.6	39.1	17.0	-74.19	1,678.8	-1,317.9	455.6	408.5	47.12	9.669	
8,900.0	7,400.0	7,300.0	7,227.6	40.6	16.9	-69.96	1,714.4	-1,320.8	490.5	442.9	47.64	10.296	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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	8,654.8	7,200.0	19.1	33.9	-21.90	237.0	-997.9	411.4	367.6	43.80	9.393		
7,000.0	6,943.8	8,643.8	7,200.0	19.4	33.7	-77.03	247.9	-997.9	320.6	272.3	48.28	6.639		
7,100.0	7,038.8	8,615.9	7,200.0	19.8	33.3	-95.08	275.9	-997.9	239.1	190.0	49.06	4.873		
7,200.0	7,127.6	8,571.7	7,200.0	20.3	32.7	-95.04	320.0	-997.9	176.2	128.8	47.43	3.716		
7,300.0	7,207.4	8,512.7	7,200.0	20.9	32.0	-83.31	379.1	-997.9	145.6	102.4	43.16	3.373 ES, SF		
7,329.3	7,228.6	8,492.8	7,200.0	21.1	31.7	-78.26	398.9	-997.9	144.0	102.7	41.34	3.484 CC		
7,400.0	7,275.7	8,440.5	7,200.0	21.6	31.0	-64.90	451.2	-997.9	151.6	115.4	36.17	4.190		
7,500.0	7,330.6	8,357.5	7,200.0	22.4	29.9	-48.25	534.3	-997.9	176.6	147.0	29.56	5.975		
7,600.0	7,370.3	8,266.1	7,200.0	23.3	28.8	-37.60	625.7	-997.9	202.1	176.3	25.82	7.828		
7,700.0	7,393.6	8,169.1	7,200.0	24.4	27.7	-32.15	722.7	-997.9	218.7	193.9	24.89	8.788		
7,800.0	7,400.0	8,069.4	7,200.0	25.5	26.6	-30.53	822.3	-997.9	222.9	196.8	26.09	8.545		
7,900.0	7,400.0	7,969.5	7,200.0	26.6	25.5	-30.14	922.3	-997.8	222.0	196.1	25.93	8.562		
8,000.0	7,400.0	7,869.5	7,200.0	27.8	24.5	-29.74	1,022.3	-997.8	221.1	195.3	25.82	8.565		
8,100.0	7,400.0	7,769.5	7,200.0	29.1	23.7	-29.35	1,122.3	-997.8	220.3	194.5	25.75	8.553		
8,200.0	7,400.0	7,669.5	7,200.0	30.4	22.9	-28.95	1,222.2	-997.8	219.4	193.7	25.73	8.527		
8,274.4	7,400.0	7,597.0	7,200.0	31.5	22.4	-28.66	1,294.8	-997.8	218.8	193.0	25.76	8.495		
8,300.0	7,400.0	7,576.8	7,199.6	31.8	22.3	-28.54	1,315.0	-997.9	219.0	193.2	25.80	8.491		
8,400.0	7,400.0	7,500.0	7,191.9	33.2	21.8	-27.55	1,391.3	-999.0	227.6	201.8	25.74	8.841		
8,500.0	7,400.0	7,433.9	7,177.2	34.6	21.5	-26.13	1,455.7	-1,001.1	247.9	222.3	25.57	9.694		
8,600.0	7,400.0	7,368.5	7,155.5	36.1	21.2	-24.43	1,517.2	-1,004.2	279.5	254.2	25.27	11.057		
8,700.0	7,400.0	7,300.0	7,125.5	37.6	21.0	-22.55	1,578.6	-1,008.5	321.4	296.6	24.88	12.922		
8,800.0	7,400.0	7,250.0	7,099.1	39.1	20.8	-21.21	1,620.9	-1,012.3	372.0	347.3	24.76	15.028		
8,900.0	7,400.0	7,200.0	7,069.2	40.6	20.7	-19.97	1,660.7	-1,016.5	430.4	405.7	24.65	17.459		
9,000.0	7,400.0	7,165.6	7,046.7	42.2	20.6	-19.17	1,686.6	-1,019.8	494.9	470.1	24.77	19.980		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.00	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	300.0	300.0	0.5	0.5	165.10	0.0	8.4	9.2	8.3	0.96	9.613			
400.0	400.0	400.2	400.1	0.7	0.7	169.30	-0.1	7.5	10.9	9.6	1.31	8.343			
500.0	499.9	500.3	500.3	0.8	0.8	175.51	-0.4	4.9	12.7	11.1	1.66	7.673			
600.0	599.7	600.5	600.4	1.0	1.0	-177.19	-0.9	0.6	14.8	12.8	2.01	7.361			
700.0	699.4	700.7	700.4	1.3	1.2	-169.55	-1.6	-5.5	17.3	14.9	2.37	7.296			
800.0	798.9	800.9	800.2	1.5	1.4	-162.15	-2.6	-13.3	20.3	17.6	2.75	7.397			
900.0	898.3	901.1	900.0	1.8	1.7	-155.37	-3.7	-22.9	24.0	20.9	3.16	7.600			
1,000.0	997.4	1,001.2	999.5	2.0	1.9	-149.24	-5.0	-34.2	28.3	24.7	3.62	7.823			
1,100.0	1,096.5	1,101.1	1,098.6	2.3	2.2	-143.50	-6.5	-46.5	32.6	28.5	4.12	7.902			
1,200.0	1,195.7	1,201.0	1,197.7	2.6	2.4	-139.09	-7.9	-58.8	37.1	32.4	4.64	7.982			
1,300.0	1,294.8	1,300.8	1,296.8	2.9	2.7	-135.65	-9.4	-71.2	41.7	36.5	5.18	8.061			
1,400.0	1,393.9	1,400.7	1,395.9	3.1	3.0	-132.91	-10.8	-83.5	46.5	40.8	5.72	8.134			
1,500.0	1,493.0	1,500.6	1,494.9	3.4	3.2	-130.68	-12.3	-95.8	51.4	45.1	6.26	8.202			
1,600.0	1,592.1	1,600.4	1,594.0	3.7	3.5	-128.84	-13.7	-108.2	56.3	49.5	6.81	8.265			
1,700.0	1,691.2	1,700.3	1,693.1	4.0	3.8	-127.30	-15.2	-120.5	61.3	53.9	7.36	8.322			
1,800.0	1,790.4	1,800.2	1,792.2	4.3	4.0	-125.99	-16.7	-132.8	66.3	58.3	7.91	8.374			
1,900.0	1,889.5	1,900.0	1,891.3	4.6	4.3	-124.86	-18.1	-145.2	71.3	62.8	8.47	8.422			
2,000.0	1,988.6	1,999.9	1,990.4	4.9	4.6	-123.88	-19.6	-157.5	76.4	67.3	9.02	8.465			
2,100.0	2,087.7	2,099.8	2,089.5	5.1	4.9	-123.03	-21.0	-169.8	81.5	71.9	9.58	8.505			
2,200.0	2,186.8	2,199.6	2,188.6	5.4	5.1	-122.27	-22.5	-182.2	86.6	76.4	10.13	8.542			
2,300.0	2,285.9	2,299.5	2,287.7	5.7	5.4	-121.60	-23.9	-194.5	91.7	81.0	10.69	8.576			
2,400.0	2,385.1	2,399.3	2,386.7	6.0	5.7	-121.00	-25.4	-206.9	96.8	85.5	11.25	8.607			
2,500.0	2,484.2	2,499.2	2,485.8	6.3	6.0	-120.46	-26.8	-219.2	101.9	90.1	11.80	8.636			
2,600.0	2,583.3	2,599.1	2,584.9	6.6	6.3	-119.98	-28.3	-231.5	107.1	94.7	12.36	8.662			
2,700.0	2,682.4	2,698.9	2,684.0	6.9	6.5	-119.53	-29.7	-243.9	112.2	99.3	12.92	8.687			
2,800.0	2,781.5	2,798.8	2,783.1	7.2	6.8	-119.13	-31.2	-256.2	117.4	103.9	13.47	8.711			
2,900.0	2,880.6	2,898.7	2,882.2	7.5	7.1	-118.76	-32.7	-268.5	122.5	108.5	14.03	8.732			
3,000.0	2,979.8	2,998.5	2,981.3	7.7	7.4	-118.42	-34.1	-280.9	127.7	113.1	14.59	8.752			
3,100.0	3,078.9	3,098.4	3,080.4	8.0	7.6	-118.11	-35.6	-293.2	132.9	117.7	15.15	8.771			
3,200.0	3,178.0	3,198.3	3,179.4	8.3	7.9	-117.82	-37.0	-305.5	138.0	122.3	15.71	8.789			
3,300.0	3,277.1	3,298.1	3,278.5	8.6	8.2	-117.55	-38.5	-317.9	143.2	127.0	16.26	8.806			
3,400.0	3,376.2	3,398.0	3,377.6	8.9	8.5	-117.30	-39.9	-330.2	148.4	131.6	16.82	8.822			
3,500.0	3,475.4	3,497.8	3,476.7	9.2	8.8	-117.06	-41.4	-342.5	153.6	136.2	17.38	8.837			
3,600.0	3,574.5	3,597.7	3,575.8	9.5	9.0	-116.85	-42.8	-354.9	158.8	140.8	17.94	8.851			
3,700.0	3,673.6	3,697.6	3,674.9	9.8	9.3	-116.64	-44.3	-367.2	163.9	145.5	18.50	8.864			
3,800.0	3,772.7	3,797.4	3,774.0	10.1	9.6	-116.45	-45.7	-379.5	169.1	150.1	19.05	8.877			
3,900.0	3,871.8	3,897.3	3,873.1	10.4	9.9	-116.27	-47.2	-391.9	174.3	154.7	19.61	8.888			
4,000.0	3,970.9	3,997.2	3,972.2	10.7	10.1	-116.10	-48.7	-404.2	179.5	159.3	20.17	8.900			
4,100.0	4,070.1	4,097.0	4,071.2	10.9	10.4	-115.94	-50.1	-416.5	184.7	164.0	20.73	8.911			
4,200.0	4,169.2	4,196.9	4,170.3	11.2	10.7	-115.79	-51.6	-428.9	189.9	168.6	21.29	8.921			
4,300.0	4,268.3	4,296.8	4,269.4	11.5	11.0	-115.64	-53.0	-441.2	195.1	173.3	21.85	8.931			
4,400.0	4,367.4	4,396.6	4,368.5	11.8	11.3	-115.51	-54.5	-453.6	200.3	177.9	22.40	8.940			
4,500.0	4,466.5	4,496.5	4,467.6	12.1	11.5	-115.38	-55.9	-465.9	205.5	182.5	22.96	8.949			
4,600.0	4,565.6	4,596.3	4,566.7	12.4	11.8	-115.26	-57.4	-478.2	210.7	187.2	23.52	8.958			
4,700.0	4,664.8	4,696.2	4,665.8	12.7	12.1	-115.14	-58.8	-490.6	215.9	191.8	24.08	8.966			
4,800.0	4,763.9	4,796.1	4,764.9	13.0	12.4	-115.03	-60.3	-502.9	221.1	196.5	24.64	8.974			
4,900.0	4,863.0	4,895.9	4,864.0	13.3	12.7	-114.92	-61.8	-515.2	226.3	201.1	25.20	8.981			
5,000.0	4,962.1	4,995.8	4,963.0	13.6	12.9	-114.82	-63.2	-527.6	231.5	205.7	25.76	8.989			
5,100.0	5,061.2	5,095.7	5,062.1	13.9	13.2	-114.72	-64.7	-539.9	236.7	210.4	26.31	8.996			

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 1A-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 1A-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		
5,200.0	5,160.3	5,195.5	5,161.2	14.1	13.5	-114.63	-66.1	-552.2	241.9	215.0	26.87	9.002		
5,300.0	5,259.5	5,295.4	5,260.3	14.4	13.8	-114.54	-67.6	-564.6	247.1	219.7	27.43	9.009		
5,400.0	5,358.6	5,395.3	5,359.4	14.7	14.1	-114.45	-69.0	-576.9	252.3	224.3	27.99	9.015		
5,500.0	5,457.7	5,495.1	5,458.5	15.0	14.3	-114.37	-70.5	-589.2	257.5	229.0	28.55	9.021		
5,600.0	5,556.8	5,595.0	5,557.6	15.3	14.6	-114.29	-71.9	-601.6	262.7	233.6	29.11	9.027		
5,700.0	5,655.9	5,694.8	5,656.7	15.6	14.9	-114.22	-73.4	-613.9	267.9	238.3	29.66	9.032		
5,800.0	5,755.1	5,794.7	5,755.7	15.9	15.2	-114.15	-74.8	-626.2	273.1	242.9	30.22	9.038		
5,900.0	5,854.2	5,894.6	5,854.8	16.2	15.4	-114.08	-76.3	-638.6	278.4	247.6	30.78	9.043		
6,000.0	5,953.3	5,994.4	5,953.9	16.5	15.7	-114.01	-77.8	-650.9	283.6	252.2	31.34	9.048		
6,100.0	6,052.4	6,094.3	6,053.0	16.8	16.0	-113.94	-79.2	-663.2	288.8	256.9	31.90	9.053		
6,200.0	6,151.5	6,194.2	6,152.1	17.1	16.3	-113.88	-80.7	-675.6	294.0	261.5	32.46	9.057		
6,300.0	6,250.6	6,294.0	6,251.2	17.3	16.6	-113.82	-82.1	-687.9	299.2	266.2	33.02	9.062		
6,400.0	6,349.8	6,393.9	6,350.3	17.6	16.8	-113.76	-83.6	-700.2	304.4	270.8	33.57	9.066		
6,500.0	6,448.9	6,493.8	6,449.4	17.9	17.1	-113.71	-85.0	-712.6	309.6	275.5	34.13	9.071		
6,600.0	6,548.0	6,593.6	6,548.5	18.2	17.4	-113.65	-86.5	-724.9	314.8	280.1	34.69	9.075		
6,700.0	6,647.1	6,749.5	6,702.7	18.5	17.8	-113.81	-79.7	-743.9	315.9	280.6	35.36	8.934		
6,800.0	6,746.2	6,949.0	6,888.8	18.8	18.3	-116.01	-13.8	-765.7	286.3	250.5	35.79	8.000		
6,900.0	6,845.3	7,097.2	7,006.4	19.1	18.7	-121.42	74.5	-778.4	230.2	194.8	35.39	6.503		
7,000.0	6,943.8	7,206.2	7,076.7	19.4	19.1	-168.98	157.5	-785.4	163.7	130.1	33.62	4.869		
7,100.0	7,038.8	7,298.4	7,123.0	19.8	19.5	162.43	236.9	-789.5	100.8	71.7	29.07	3.468		
7,200.0	7,127.6	7,380.2	7,153.1	20.3	20.0	121.61	312.9	-791.6	56.1	30.6	25.49	2.201		
7,227.8	7,150.8	7,401.6	7,159.2	20.5	20.1	106.12	333.4	-792.0	53.0	25.1	27.90	1.901		
7,300.0	7,207.4	7,455.2	7,171.0	20.9	20.5	69.97	385.6	-792.3	70.4	35.7	34.74	2.027		
7,400.0	7,275.7	7,525.6	7,179.1	21.6	21.0	43.84	455.5	-791.9	119.6	85.0	34.54	3.462		
7,500.0	7,330.6	7,602.7	7,180.0	22.4	21.6	31.90	532.6	-790.4	170.7	139.8	30.88	5.526		
7,600.0	7,370.3	7,693.9	7,180.0	23.3	22.5	26.45	623.8	-788.5	210.0	182.9	27.12	7.743		
7,700.0	7,393.6	7,790.8	7,180.0	24.4	23.4	24.41	720.7	-786.4	234.0	210.0	24.04	9.735		
7,800.0	7,400.0	7,890.4	7,180.0	25.5	24.5	24.49	820.2	-784.4	241.8	219.3	22.45	10.768		
7,900.0	7,400.0	7,990.3	7,180.0	26.6	25.7	25.31	920.1	-782.3	243.4	219.4	24.04	10.125		
8,000.0	7,400.0	8,090.2	7,180.0	27.8	26.9	26.12	1,020.0	-780.2	245.1	219.3	25.72	9.527		
8,100.0	7,400.0	8,190.1	7,180.0	29.1	28.2	26.92	1,119.9	-778.1	246.8	219.3	27.50	8.972		
8,200.0	7,400.0	8,290.1	7,180.0	30.4	29.5	27.71	1,219.8	-776.0	248.5	219.2	29.38	8.460		
8,300.0	7,400.0	8,390.0	7,180.0	31.8	30.9	28.49	1,319.7	-773.9	250.4	219.0	31.34	7.988		
8,400.0	7,400.0	8,489.9	7,180.0	33.2	32.3	29.25	1,419.6	-771.8	252.2	218.8	33.39	7.554		
8,500.0	7,400.0	8,589.8	7,180.0	34.6	33.7	30.01	1,519.5	-769.7	254.1	218.6	35.52	7.154		
8,600.0	7,400.0	8,689.8	7,180.0	36.1	35.2	30.75	1,619.4	-767.6	256.0	218.3	37.73	6.787		
8,700.0	7,400.0	8,789.7	7,180.0	37.6	36.7	31.48	1,719.3	-765.5	258.0	218.0	40.01	6.449		
8,800.0	7,400.0	8,889.6	7,180.0	39.1	38.2	32.21	1,819.2	-763.4	260.1	217.7	42.37	6.138		
8,900.0	7,400.0	8,989.5	7,180.0	40.6	39.7	32.92	1,919.1	-761.3	262.1	217.3	44.79	5.852		
9,000.0	7,400.0	9,089.5	7,180.0	42.2	41.3	33.61	2,019.1	-759.2	264.2	217.0	47.28	5.588		
9,100.0	7,400.0	9,189.4	7,180.0	43.7	42.9	34.30	2,119.0	-757.1	266.4	216.5	49.83	5.345		
9,200.0	7,400.0	9,289.3	7,180.0	45.3	44.4	34.98	2,218.9	-755.1	268.6	216.1	52.44	5.121		
9,300.0	7,400.0	9,389.2	7,180.0	46.9	46.0	35.64	2,318.8	-753.0	270.8	215.7	55.11	4.913		
9,400.0	7,400.0	9,489.2	7,180.0	48.5	47.6	36.30	2,418.7	-750.9	273.0	215.2	57.83	4.721		
9,500.0	7,400.0	9,589.1	7,180.0	50.1	49.3	36.94	2,518.6	-748.8	275.3	214.7	60.60	4.543		
9,600.0	7,400.0	9,689.0	7,180.0	51.7	50.9	37.57	2,618.5	-746.7	277.7	214.2	63.42	4.378		
9,700.0	7,400.0	9,789.0	7,180.0	53.4	52.5	38.20	2,718.4	-744.6	280.0	213.7	66.29	4.224		
9,800.0	7,400.0	9,888.9	7,180.0	55.0	54.2	38.81	2,818.3	-742.5	282.4	213.2	69.19	4.081		
9,900.0	7,400.0	9,988.8	7,180.0	56.7	55.8	39.41	2,918.2	-740.4	284.8	212.7	72.15	3.948		
10,000.0	7,400.0	10,088.7	7,180.0	58.3	57.5	40.00	3,018.1	-738.3	287.3	212.1	75.14	3.823		
10,100.0	7,400.0	10,188.7	7,180.0	60.0	59.1	40.58	3,118.0	-736.2	289.8	211.6	78.16	3.707		
10,200.0	7,400.0	10,288.6	7,180.0	61.6	60.8	41.15	3,217.9	-734.1	292.3	211.0	81.23	3.598		

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 1A-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 1A-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				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	7,400.0	10,388.5	7,180.0	63.3	62.5	41.71	3,317.8	-732.0	294.8	210.5	84.32	3.496		
10,400.0	7,400.0	10,488.4	7,180.0	65.0	64.1	42.27	3,417.7	-729.9	297.4	209.9	87.45	3.401		
10,500.0	7,400.0	10,588.4	7,180.0	66.6	65.8	42.81	3,517.6	-727.8	300.0	209.4	90.61	3.311		
10,600.0	7,400.0	10,688.3	7,180.0	68.3	67.5	43.34	3,617.5	-725.8	302.6	208.8	93.80	3.226		
10,700.0	7,400.0	10,788.2	7,180.0	70.0	69.2	43.87	3,717.4	-723.7	305.3	208.2	97.01	3.147		
10,800.0	7,400.0	10,888.1	7,180.0	71.7	70.9	44.38	3,817.3	-721.6	307.9	207.7	100.25	3.071		
10,900.0	7,400.0	10,988.1	7,180.0	73.4	72.6	44.89	3,917.2	-719.5	310.6	207.1	103.52	3.001		
11,000.0	7,400.0	11,088.0	7,180.0	75.1	74.3	45.38	4,017.1	-717.4	313.3	206.5	106.81	2.934		
11,100.0	7,400.0	11,187.9	7,180.0	76.8	75.9	45.87	4,117.0	-715.3	316.1	206.0	110.12	2.870		
11,200.0	7,400.0	11,287.8	7,180.0	78.5	77.6	46.35	4,216.9	-713.2	318.9	205.4	113.45	2.811		
11,300.0	7,400.0	11,387.8	7,180.0	80.2	79.4	46.82	4,316.9	-711.1	321.6	204.8	116.80	2.754		
11,400.0	7,400.0	11,487.7	7,180.0	81.9	81.1	47.29	4,416.8	-709.0	324.5	204.3	120.17	2.700		
11,500.0	7,400.0	11,587.6	7,180.0	83.6	82.8	47.74	4,516.7	-706.9	327.3	203.7	123.56	2.649		
11,600.0	7,400.0	11,687.6	7,180.0	85.3	84.5	48.19	4,616.6	-704.8	330.1	203.2	126.96	2.600		
11,700.0	7,400.0	11,787.5	7,180.0	87.0	86.2	48.63	4,716.5	-702.7	333.0	202.6	130.38	2.554		
11,800.0	7,400.0	11,887.4	7,180.0	88.7	87.9	49.06	4,816.4	-700.6	335.9	202.1	133.82	2.510		
11,900.0	7,400.0	11,987.3	7,180.0	90.4	89.6	49.49	4,916.3	-698.6	338.8	201.5	137.27	2.468		
12,000.0	7,400.0	12,087.3	7,180.0	92.1	91.3	49.91	5,016.2	-696.5	341.7	201.0	140.73	2.428		
12,100.0	7,400.0	12,187.2	7,180.0	93.8	93.0	50.32	5,116.1	-694.4	344.7	200.5	144.21	2.390		
12,200.0	7,400.0	12,287.1	7,180.0	95.6	94.8	50.72	5,216.0	-692.3	347.7	200.0	147.69	2.354		
12,300.0	7,400.0	12,387.0	7,180.0	97.3	96.5	51.12	5,315.9	-690.2	350.6	199.4	151.19	2.319		
12,400.0	7,400.0	12,487.0	7,180.0	99.0	98.2	51.51	5,415.8	-688.1	353.6	198.9	154.70	2.286		
12,500.0	7,400.0	12,586.9	7,180.0	100.7	99.9	51.89	5,515.7	-686.0	356.6	198.4	158.22	2.254		
12,600.0	7,400.0	12,686.8	7,180.0	102.4	101.6	52.27	5,615.6	-683.9	359.7	197.9	161.75	2.224		
12,700.0	7,400.0	12,786.7	7,180.0	104.2	103.4	52.64	5,715.5	-681.8	362.7	197.4	165.29	2.195		
12,800.0	7,400.0	12,886.7	7,180.0	105.9	105.1	53.01	5,815.4	-679.7	365.8	196.9	168.83	2.167		
12,900.0	7,400.0	12,986.6	7,180.0	107.6	106.8	53.36	5,915.3	-677.6	368.9	196.5	172.38	2.140		
13,000.0	7,400.0	13,086.5	7,180.0	109.3	108.5	53.72	6,015.2	-675.5	371.9	196.0	175.95	2.114		
13,100.0	7,400.0	13,186.4	7,180.0	111.1	110.3	54.06	6,115.1	-673.4	375.0	195.5	179.51	2.089		
13,200.0	7,400.0	13,286.4	7,180.0	112.8	112.0	54.41	6,215.0	-671.3	378.2	195.1	183.09	2.065		
13,300.0	7,400.0	13,386.3	7,180.0	114.5	113.7	54.74	6,314.9	-669.3	381.3	194.6	186.67	2.043		
13,400.0	7,400.0	13,486.2	7,180.0	116.2	115.5	55.07	6,414.8	-667.2	384.4	194.2	190.26	2.021		
13,500.0	7,400.0	13,586.2	7,180.0	118.0	117.2	55.40	6,514.8	-665.1	387.6	193.7	193.85	1.999		
13,600.0	7,400.0	13,686.1	7,180.0	119.7	118.9	55.72	6,614.7	-663.0	390.8	193.3	197.44	1.979		
13,700.0	7,400.0	13,786.0	7,180.0	121.4	120.6	56.03	6,714.6	-660.9	393.9	192.9	201.05	1.959		
13,800.0	7,400.0	13,885.9	7,180.0	123.2	122.4	56.34	6,814.5	-658.8	397.1	192.5	204.65	1.940		
13,900.0	7,400.0	13,985.9	7,180.0	124.9	124.1	56.64	6,914.4	-656.7	400.3	192.1	208.26	1.922		
14,000.0	7,400.0	14,085.8	7,180.0	126.6	125.8	56.94	7,014.3	-654.6	403.5	191.7	211.88	1.905		
14,100.0	7,400.0	14,185.7	7,180.0	128.4	127.6	57.24	7,114.2	-652.5	406.8	191.3	215.49	1.888		
14,200.0	7,400.0	14,285.6	7,180.0	130.1	129.3	57.53	7,214.1	-650.4	410.0	190.9	219.12	1.871		
14,286.2	7,400.0	14,371.8	7,180.0	131.6	130.8	57.78	7,300.2	-648.6	412.8	190.5	222.24	1.857 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	90.00	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 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	164.26	0.0	19.6	20.4	19.4	0.96	21.262		
400.0	400.0	400.0	400.0	0.7	0.7	166.03	0.0	19.6	22.9	21.6	1.31	17.526		
500.0	499.9	500.3	500.3	0.8	0.8	168.94	-0.3	18.7	26.4	24.7	1.66	15.908		
600.0	599.7	600.7	600.6	1.0	1.0	173.07	-1.0	16.2	30.0	28.0	2.01	14.951		
700.0	699.4	700.6	700.5	1.3	1.2	177.40	-2.1	12.6	34.5	32.2	2.36	14.646 SF		
800.0	798.9	800.4	800.2	1.5	1.4	-179.29	-3.2	8.9	40.9	38.2	2.71	15.110		
900.0	898.3	900.0	899.8	1.8	1.6	-176.99	-4.2	5.3	49.1	46.0	3.06	16.065		
1,000.0	997.4	999.5	999.2	2.0	1.7	-175.47	-5.3	1.7	59.0	55.6	3.41	17.303		
1,100.0	1,096.5	1,099.0	1,098.6	2.3	1.9	-174.42	-6.4	-1.9	69.2	65.4	3.76	18.389		
1,200.0	1,195.7	1,198.5	1,198.0	2.6	2.1	-173.64	-7.5	-5.6	79.4	75.3	4.12	19.288		
1,300.0	1,294.8	1,297.9	1,297.4	2.9	2.3	-173.03	-8.6	-9.2	89.7	85.2	4.48	20.044		
1,400.0	1,393.9	1,397.4	1,396.8	3.1	2.5	-172.56	-9.6	-12.8	100.0	95.1	4.83	20.688		
1,500.0	1,493.0	1,496.9	1,496.2	3.4	2.7	-172.17	-10.7	-16.5	110.2	105.0	5.19	21.243		
1,600.0	1,592.1	1,596.3	1,595.6	3.7	2.8	-171.84	-11.8	-20.1	120.5	115.0	5.55	21.726		
1,700.0	1,691.2	1,695.8	1,695.0	4.0	3.0	-171.57	-12.9	-23.7	130.8	124.9	5.91	22.149		
1,800.0	1,790.4	1,795.3	1,794.4	4.3	3.2	-171.34	-14.0	-27.3	141.1	134.8	6.26	22.524		
1,900.0	1,889.5	1,894.7	1,893.8	4.6	3.4	-171.14	-15.1	-31.0	151.4	144.7	6.62	22.858		
2,000.0	1,988.6	1,994.2	1,993.2	4.9	3.6	-170.96	-16.1	-34.6	161.6	154.7	6.98	23.157		
2,100.0	2,087.7	2,093.7	2,092.6	5.1	3.8	-170.81	-17.2	-38.2	171.9	164.6	7.34	23.427		
2,200.0	2,186.8	2,193.2	2,192.0	5.4	4.0	-170.67	-18.3	-41.8	182.2	174.5	7.70	23.671		
2,300.0	2,285.9	2,292.6	2,291.4	5.7	4.1	-170.55	-19.4	-45.5	192.5	184.5	8.06	23.893		
2,400.0	2,385.1	2,392.1	2,390.8	6.0	4.3	-170.44	-20.5	-49.1	202.8	194.4	8.42	24.096		
2,500.0	2,484.2	2,491.6	2,490.1	6.3	4.5	-170.34	-21.5	-52.7	213.1	204.3	8.78	24.283		
2,600.0	2,583.3	2,591.0	2,589.5	6.6	4.7	-170.25	-22.6	-56.4	223.4	214.2	9.13	24.454		
2,700.0	2,682.4	2,690.5	2,688.9	6.9	4.9	-170.17	-23.7	-60.0	233.7	224.2	9.49	24.613		
2,800.0	2,781.5	2,790.0	2,788.3	7.2	5.1	-170.09	-24.8	-63.6	244.0	234.1	9.85	24.760		
2,900.0	2,880.6	2,889.4	2,887.7	7.5	5.3	-170.02	-25.9	-67.2	254.3	244.0	10.21	24.896		
3,000.0	2,979.8	2,988.9	2,987.1	7.7	5.4	-169.96	-26.9	-70.9	264.5	254.0	10.57	25.023		
3,100.0	3,078.9	3,088.4	3,086.5	8.0	5.6	-169.90	-28.0	-74.5	274.8	263.9	10.93	25.142		
3,200.0	3,178.0	3,187.8	3,185.9	8.3	5.8	-169.85	-29.1	-78.1	285.1	273.8	11.29	25.253		
3,300.0	3,277.1	3,287.3	3,285.3	8.6	6.0	-169.79	-30.2	-81.7	295.4	283.8	11.65	25.357		
3,400.0	3,376.2	3,386.8	3,384.7	8.9	6.2	-169.75	-31.3	-85.4	305.7	293.7	12.01	25.454		
3,500.0	3,475.4	3,486.2	3,484.1	9.2	6.4	-169.70	-32.3	-89.0	316.0	303.6	12.37	25.546		
3,600.0	3,574.5	3,585.7	3,583.5	9.5	6.6	-169.66	-33.4	-92.6	326.3	313.6	12.73	25.633		
3,700.0	3,673.6	3,685.2	3,682.9	9.8	6.7	-169.62	-34.5	-96.2	336.6	323.5	13.09	25.715		
3,800.0	3,772.7	3,784.6	3,782.3	10.1	6.9	-169.59	-35.6	-99.9	346.9	333.4	13.45	25.793		
3,900.0	3,871.8	3,884.1	3,881.7	10.4	7.1	-169.55	-36.7	-103.5	357.2	343.4	13.81	25.866		
4,000.0	3,970.9	3,983.6	3,981.1	10.7	7.3	-169.52	-37.7	-107.1	367.5	353.3	14.17	25.936		
4,100.0	4,070.1	4,083.1	4,080.5	10.9	7.5	-169.49	-38.8	-110.8	377.8	363.2	14.53	26.002		
4,200.0	4,169.2	4,182.5	4,179.9	11.2	7.7	-169.46	-39.9	-114.4	388.1	373.2	14.89	26.065		
4,300.0	4,268.3	4,282.0	4,279.3	11.5	7.9	-169.43	-41.0	-118.0	398.4	383.1	15.25	26.125		
4,400.0	4,367.4	4,381.5	4,378.7	11.8	8.0	-169.40	-42.1	-121.6	408.7	393.0	15.61	26.183		
4,500.0	4,466.5	4,480.9	4,478.1	12.1	8.2	-169.38	-43.1	-125.3	419.0	403.0	15.97	26.237		
4,600.0	4,565.6	4,580.4	4,577.5	12.4	8.4	-169.35	-44.2	-128.9	429.2	412.9	16.33	26.290		
4,700.0	4,664.8	4,679.9	4,676.9	12.7	8.6	-169.33	-45.3	-132.5	439.5	422.9	16.69	26.340		
4,800.0	4,763.9	4,779.3	4,776.3	13.0	8.8	-169.31	-46.4	-136.1	449.8	432.8	17.05	26.387		
4,900.0	4,863.0	4,878.8	4,875.7	13.3	9.0	-169.29	-47.5	-139.8	460.1	442.7	17.41	26.433		
5,000.0	4,962.1	4,978.3	4,975.1	13.6	9.2	-169.27	-48.5	-143.4	470.4	452.7	17.77	26.477		
5,100.0	5,061.2	5,077.7	5,074.5	13.9	9.3	-169.25	-49.6	-147.0	480.7	462.6	18.13	26.520		

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 1A-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 1A-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
5,200.0	5,160.3	5,177.2	5,173.9	14.1	9.5	-169.23	-50.7	-150.7	491.0	472.5	18.49	26.560	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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		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			
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	28.0	28.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	28.0	28.0	27.7	0.26	106.792		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	28.0	28.0	27.3	0.61	45.768 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	164.06	0.0	28.0	28.8	27.8	0.96	29.999		
400.0	400.0	400.0	400.0	0.7	0.7	165.37	0.0	28.0	31.3	30.0	1.31	23.929		
500.0	499.9	499.9	499.9	0.8	0.8	167.13	0.0	28.0	35.6	33.9	1.66	21.450		
600.0	599.7	599.7	599.7	1.0	1.0	169.00	0.0	28.0	41.5	39.5	2.01	20.704 SF		
700.0	699.4	699.4	699.4	1.3	1.2	170.73	0.0	28.0	49.3	46.9	2.35	20.931		
800.0	798.9	798.9	798.9	1.5	1.4	172.22	0.0	28.0	58.7	56.0	2.70	21.758		
900.0	898.3	898.3	898.3	1.8	1.5	173.46	0.0	28.0	70.0	66.9	3.04	22.983		
1,000.0	997.4	997.4	997.4	2.0	1.7	174.47	0.0	28.0	82.8	79.4	3.39	24.437		
1,100.0	1,096.5	1,096.5	1,096.5	2.3	1.9	175.23	0.0	28.0	96.0	92.3	3.74	25.701		
1,200.0	1,195.7	1,195.7	1,195.7	2.6	2.0	175.81	0.0	28.0	109.3	105.2	4.08	26.754		
1,300.0	1,294.8	1,294.8	1,294.8	2.9	2.2	176.27	0.0	28.0	122.5	118.0	4.43	27.644		
1,400.0	1,393.9	1,393.9	1,393.9	3.1	2.4	176.63	0.0	28.0	135.7	130.9	4.78	28.407		
1,500.0	1,493.0	1,493.0	1,493.0	3.4	2.6	176.93	0.0	28.0	148.9	143.8	5.12	29.067		
1,600.0	1,592.1	1,592.1	1,592.1	3.7	2.7	177.18	0.0	28.0	162.2	156.7	5.47	29.644		
1,700.0	1,691.2	1,691.2	1,691.2	4.0	2.9	177.39	0.0	28.0	175.4	169.6	5.82	30.153		
1,800.0	1,790.4	1,790.4	1,790.4	4.3	3.1	177.58	0.0	28.0	188.7	182.5	6.16	30.605		
1,900.0	1,889.5	1,889.5	1,889.5	4.6	3.3	177.74	0.0	28.0	201.9	195.4	6.51	31.009		
2,000.0	1,988.6	1,988.6	1,988.6	4.9	3.4	177.88	0.0	28.0	215.2	208.3	6.86	31.372		
2,100.0	2,087.7	2,087.7	2,087.7	5.1	3.6	178.00	0.0	28.0	228.4	221.2	7.21	31.700		
2,200.0	2,186.8	2,186.8	2,186.8	5.4	3.8	178.11	0.0	28.0	241.7	234.1	7.55	31.999		
2,300.0	2,285.9	2,285.9	2,285.9	5.7	3.9	178.21	0.0	28.0	254.9	247.0	7.90	32.271		
2,400.0	2,385.1	2,385.1	2,385.1	6.0	4.1	178.30	0.0	28.0	268.2	259.9	8.25	32.521		
2,500.0	2,484.2	2,484.2	2,484.2	6.3	4.3	178.38	0.0	28.0	281.4	272.8	8.59	32.750		
2,600.0	2,583.3	2,583.3	2,583.3	6.6	4.5	178.45	0.0	28.0	294.7	285.7	8.94	32.962		
2,700.0	2,682.4	2,682.4	2,682.4	6.9	4.6	178.52	0.0	28.0	307.9	298.6	9.29	33.158		
2,800.0	2,781.5	2,781.5	2,781.5	7.2	4.8	178.58	0.0	28.0	321.2	311.5	9.63	33.340		
2,900.0	2,880.6	2,880.6	2,880.6	7.5	5.0	178.63	0.0	28.0	334.4	324.5	9.98	33.509		
3,000.0	2,979.8	2,979.8	2,979.8	7.7	5.2	178.69	0.0	28.0	347.7	337.4	10.33	33.667		
3,100.0	3,078.9	3,076.5	3,076.5	8.0	5.3	178.80	-0.5	28.1	361.2	350.5	10.67	33.852		
3,200.0	3,178.0	3,173.3	3,173.3	8.3	5.5	179.12	-2.5	28.6	375.5	364.5	11.01	34.096		
3,300.0	3,277.1	3,272.2	3,272.2	8.6	5.7	179.48	-4.9	29.2	390.0	378.6	11.36	34.333		
3,400.0	3,376.2	3,371.2	3,371.1	8.9	5.8	179.81	-7.4	29.8	404.5	392.8	11.71	34.556		
3,500.0	3,475.4	3,470.1	3,469.9	9.2	6.0	-179.89	-9.8	30.4	419.0	407.0	12.05	34.766		
3,600.0	3,574.5	3,569.0	3,568.8	9.5	6.2	-179.60	-12.2	31.0	433.6	421.2	12.40	34.964		
3,700.0	3,673.6	3,667.9	3,667.7	9.8	6.4	-179.33	-14.7	31.6	448.1	435.4	12.75	35.152		
3,800.0	3,772.7	3,766.8	3,766.6	10.1	6.5	-179.08	-17.1	32.2	462.7	449.6	13.10	35.328		
3,900.0	3,871.8	3,865.7	3,865.5	10.4	6.7	-178.85	-19.6	32.8	477.2	463.8	13.44	35.496		
4,000.0	3,970.9	3,964.6	3,964.4	10.7	6.9	-178.63	-22.0	33.4	491.8	478.0	13.79	35.655		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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)						
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 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	163.93	0.0	39.1	40.0	39.0	0.96	41.649		
400.0	400.0	400.0	400.0	0.7	0.7	164.90	0.0	39.1	42.5	41.2	1.31	32.469		
500.0	499.9	499.9	499.9	0.8	0.8	166.28	0.0	39.1	46.7	45.1	1.66	28.184		
600.0	599.7	598.8	598.8	1.0	1.0	167.99	-0.2	40.0	53.5	51.5	2.00	26.698 SF		
700.0	699.4	697.2	697.2	1.3	1.2	169.84	-0.9	42.4	63.8	61.4	2.35	27.134		
800.0	798.9	795.1	794.9	1.5	1.4	171.51	-1.9	46.5	77.5	74.8	2.69	28.763		
900.0	898.3	893.3	893.0	1.8	1.5	172.89	-3.3	51.7	94.1	91.1	3.04	31.006		
1,000.0	997.4	991.6	991.2	2.0	1.7	173.96	-4.7	57.0	112.4	109.1	3.38	33.286		
1,100.0	1,096.5	1,089.8	1,089.3	2.3	1.9	174.75	-6.1	62.3	131.1	127.4	3.72	35.222		
1,200.0	1,195.7	1,188.1	1,187.3	2.6	2.1	175.34	-7.5	67.6	149.8	145.7	4.07	36.835		
1,300.0	1,294.8	1,286.3	1,285.4	2.9	2.3	175.80	-8.8	72.9	168.5	164.1	4.41	38.199		
1,400.0	1,393.9	1,384.5	1,383.5	3.1	2.5	176.17	-10.2	78.2	187.2	182.5	4.76	39.367		
1,500.0	1,493.0	1,482.7	1,481.6	3.4	2.7	176.47	-11.6	83.5	205.9	200.8	5.10	40.380		
1,600.0	1,592.1	1,581.0	1,579.6	3.7	2.9	176.72	-13.0	88.7	224.7	219.2	5.44	41.265		
1,700.0	1,691.2	1,679.2	1,677.7	4.0	3.1	176.93	-14.4	94.0	243.4	237.6	5.79	42.045		
1,800.0	1,790.4	1,777.4	1,775.8	4.3	3.3	177.12	-15.8	99.3	262.1	256.0	6.13	42.738		
1,900.0	1,889.5	1,875.7	1,873.9	4.6	3.5	177.27	-17.2	104.6	280.9	274.4	6.48	43.358		
2,000.0	1,988.6	1,973.9	1,971.9	4.9	3.7	177.41	-18.5	109.9	299.6	292.8	6.82	43.916		
2,100.0	2,087.7	2,072.1	2,070.0	5.1	3.8	177.53	-19.9	115.2	318.3	311.2	7.17	44.420		
2,200.0	2,186.8	2,170.3	2,168.1	5.4	4.0	177.64	-21.3	120.5	337.1	329.6	7.51	44.879		
2,300.0	2,285.9	2,268.6	2,266.1	5.7	4.2	177.74	-22.7	125.7	355.8	348.0	7.86	45.297		
2,400.0	2,385.1	2,366.8	2,364.2	6.0	4.4	177.83	-24.1	131.0	374.6	366.4	8.20	45.680		
2,500.0	2,484.2	2,465.0	2,462.3	6.3	4.6	177.91	-25.5	136.3	393.3	384.8	8.54	46.032		
2,600.0	2,583.3	2,563.2	2,560.4	6.6	4.8	177.98	-26.9	141.6	412.1	403.2	8.89	46.357		
2,700.0	2,682.4	2,661.5	2,658.4	6.9	5.0	178.04	-28.2	146.9	430.8	421.6	9.23	46.658		
2,800.0	2,781.5	2,759.7	2,756.5	7.2	5.2	178.10	-29.6	152.2	449.5	440.0	9.58	46.938		
2,900.0	2,880.6	2,857.9	2,854.6	7.5	5.4	178.16	-31.0	157.5	468.3	458.4	9.92	47.198		
3,000.0	2,979.8	2,956.1	2,952.7	7.7	5.6	178.21	-32.4	162.7	487.0	476.8	10.27	47.440		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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	47.5	47.5					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	47.5	47.5	47.3	0.26	181.547		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	47.5	47.5	46.9	0.61	77.806 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	163.87	0.0	47.5	48.4	47.4	0.96	50.386		
400.0	400.0	400.0	400.0	0.7	0.7	164.68	0.0	47.5	50.9	49.6	1.31	38.875		
500.0	499.9	498.9	498.9	0.8	0.8	165.95	-0.1	48.4	56.0	54.3	1.66	33.788		
600.0	599.7	597.5	597.5	1.0	1.0	167.47	-0.5	50.9	64.5	62.5	2.00	32.196 SF		
700.0	699.4	695.6	695.4	1.3	1.2	168.95	-1.1	55.1	76.4	74.1	2.35	32.563		
800.0	798.9	792.9	792.6	1.5	1.4	170.25	-2.0	60.9	91.8	89.1	2.69	34.140		
900.0	898.3	889.4	888.8	1.8	1.6	171.31	-3.1	68.2	110.6	107.6	3.03	36.517		
1,000.0	997.4	985.3	984.3	2.0	1.8	172.16	-4.4	77.1	132.6	129.2	3.37	39.379		
1,100.0	1,096.5	1,082.6	1,081.1	2.3	2.0	172.80	-5.8	86.6	155.5	151.8	3.71	41.909		
1,200.0	1,195.7	1,180.0	1,178.0	2.6	2.2	173.28	-7.2	96.1	178.4	174.4	4.05	44.015		
1,300.0	1,294.8	1,277.3	1,274.8	2.9	2.5	173.65	-8.6	105.7	201.4	197.0	4.40	45.795		
1,400.0	1,393.9	1,374.6	1,371.7	3.1	2.7	173.95	-10.0	115.2	224.3	219.5	4.74	47.319		
1,500.0	1,493.0	1,471.9	1,468.5	3.4	2.9	174.19	-11.4	124.8	247.2	242.1	5.08	48.639		
1,600.0	1,592.1	1,569.3	1,565.4	3.7	3.1	174.39	-12.8	134.3	270.2	264.7	5.43	49.792		
1,700.0	1,691.2	1,666.6	1,662.2	4.0	3.4	174.56	-14.2	143.8	293.1	287.3	5.77	50.808		
1,800.0	1,790.4	1,763.9	1,759.1	4.3	3.6	174.70	-15.6	153.4	316.1	309.9	6.11	51.711		
1,900.0	1,889.5	1,861.3	1,855.9	4.6	3.8	174.82	-17.0	162.9	339.0	332.5	6.45	52.518		
2,000.0	1,988.6	1,958.6	1,952.8	4.9	4.1	174.93	-18.4	172.4	361.9	355.1	6.80	53.244		
2,100.0	2,087.7	2,055.9	2,049.6	5.1	4.3	175.03	-19.8	182.0	384.9	377.8	7.14	53.900		
2,200.0	2,186.8	2,153.2	2,146.5	5.4	4.6	175.11	-21.2	191.5	407.8	400.4	7.48	54.496		
2,300.0	2,285.9	2,250.6	2,243.3	5.7	4.8	175.19	-22.6	201.1	430.8	423.0	7.83	55.041		
2,400.0	2,385.1	2,347.9	2,340.2	6.0	5.0	175.26	-24.0	210.6	453.7	445.6	8.17	55.539		
2,500.0	2,484.2	2,445.2	2,437.0	6.3	5.3	175.32	-25.4	220.1	476.7	468.2	8.51	55.997		
2,600.0	2,583.3	2,542.6	2,533.9	6.6	5.5	175.38	-26.9	229.7	499.7	490.8	8.86	56.420		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	58.7	58.7					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	58.7	58.7	58.5	0.26	224.264	96.113 CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	58.7	58.7	58.1	0.61	96.113		
300.0	300.0	300.0	300.0	0.5	0.5	163.81	0.0	58.7	59.5	58.6	0.96	62.036		
400.0	400.0	398.9	398.9	0.7	0.7	164.52	-0.1	59.6	62.9	61.6	1.31	48.143		
500.0	499.9	497.5	497.5	0.8	0.8	165.61	-0.3	62.1	69.7	68.1	1.65	42.159		
600.0	599.7	595.7	595.6	1.0	1.0	166.82	-0.7	66.3	79.9	77.9	2.00	39.982	39.934 SF	
700.0	699.4	693.3	692.9	1.3	1.2	167.99	-1.2	72.1	93.6	91.2	2.34	39.934		
800.0	798.9	790.1	789.5	1.5	1.4	169.03	-1.9	79.6	110.6	107.9	2.68	41.199		
900.0	898.3	885.9	884.9	1.8	1.6	169.89	-2.7	88.5	131.0	128.0	3.02	43.331		
1,000.0	997.4	980.7	979.1	2.0	1.9	170.60	-3.7	98.9	154.6	151.3	3.36	46.004		
1,100.0	1,096.5	1,074.6	1,072.3	2.3	2.1	171.13	-4.7	110.8	180.2	176.5	3.70	48.703		
1,200.0	1,195.7	1,167.7	1,164.4	2.6	2.4	171.51	-5.9	124.0	207.3	203.2	4.04	51.362		
1,300.0	1,294.8	1,262.7	1,258.2	2.9	2.7	171.79	-7.3	138.7	235.6	231.2	4.37	53.843		
1,400.0	1,393.9	1,358.6	1,352.9	3.1	2.9	172.02	-8.6	153.5	263.9	259.2	4.72	55.962		
1,500.0	1,493.0	1,454.5	1,447.7	3.4	3.2	172.20	-10.0	168.4	292.3	287.2	5.06	57.795		
1,600.0	1,592.1	1,550.3	1,542.4	3.7	3.5	172.35	-11.3	183.2	320.6	315.2	5.40	59.396		
1,700.0	1,691.2	1,646.2	1,637.1	4.0	3.8	172.47	-12.7	198.0	349.0	343.3	5.74	60.807		
1,800.0	1,790.4	1,742.1	1,731.8	4.3	4.1	172.58	-14.0	212.9	377.4	371.3	6.08	62.060		
1,900.0	1,889.5	1,838.0	1,826.6	4.6	4.4	172.67	-15.4	227.7	405.7	399.3	6.42	63.179		
2,000.0	1,988.6	1,933.9	1,921.3	4.9	4.8	172.75	-16.7	242.6	434.1	427.3	6.76	64.185		
2,100.0	2,087.7	2,029.8	2,016.0	5.1	5.1	172.81	-18.1	257.4	462.5	455.4	7.10	65.095		
2,200.0	2,186.8	2,125.7	2,110.7	5.4	5.4	172.88	-19.4	272.3	490.8	483.4	7.45	65.921		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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						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	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	163.81	-0.1	70.7	71.6	70.6	0.96	74.749		
400.0	400.0	397.4	397.3	0.7	0.7	164.46	-0.2	73.3	76.7	75.4	1.30	58.793		
500.0	499.9	495.6	495.5	0.8	0.8	165.37	-0.5	77.5	85.2	83.5	1.65	51.621		
600.0	599.7	593.3	593.0	1.0	1.0	166.37	-0.9	83.4	97.1	95.1	1.99	48.672		
700.0	699.4	690.4	689.8	1.3	1.2	167.34	-1.5	90.8	112.4	110.1	2.34	48.079	SF	
800.0	798.9	786.5	785.5	1.5	1.5	168.21	-2.1	99.8	131.1	128.4	2.68	48.938		
900.0	898.3	881.7	880.1	1.8	1.7	168.96	-2.8	110.3	153.1	150.1	3.02	50.755		
1,000.0	997.4	975.7	973.4	2.0	2.0	169.60	-3.7	122.2	178.3	174.9	3.35	53.173		
1,100.0	1,096.5	1,068.9	1,065.6	2.3	2.2	170.09	-4.6	135.5	205.4	201.7	3.69	55.655		
1,200.0	1,195.7	1,161.1	1,156.6	2.6	2.5	170.46	-5.6	150.1	234.0	230.0	4.03	58.133		
1,300.0	1,294.8	1,252.5	1,246.6	2.9	2.8	170.72	-6.7	166.1	264.2	259.8	4.36	60.605		
1,400.0	1,393.9	1,342.9	1,335.4	3.1	3.2	170.91	-7.9	183.2	295.9	291.2	4.69	63.070		
1,500.0	1,493.0	1,433.2	1,423.7	3.4	3.5	171.04	-9.2	201.8	329.1	324.0	5.02	65.506		
1,600.0	1,592.1	1,527.3	1,515.7	3.7	3.9	171.16	-10.6	221.6	362.8	357.4	5.36	67.657		
1,700.0	1,691.2	1,621.5	1,607.7	4.0	4.3	171.25	-12.0	241.4	396.5	390.8	5.70	69.553		
1,800.0	1,790.4	1,715.6	1,699.8	4.3	4.6	171.33	-13.4	261.2	430.2	424.1	6.04	71.235		
1,900.0	1,889.5	1,809.8	1,791.8	4.6	5.0	171.39	-14.8	281.1	463.9	457.5	6.38	72.739		
2,000.0	1,988.6	1,903.9	1,883.8	4.9	5.4	171.45	-16.1	300.9	497.6	490.8	6.72	74.090		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,400.0	7,400.0	7,334.8	7,333.0	81.9	12.8	87.81	4,689.2	-585.9	449.9	356.8	93.17	4.829	
11,500.0	7,400.0	7,339.5	7,337.7	83.6	12.8	88.55	4,689.4	-585.9	400.3	305.3	94.95	4.216	
11,600.0	7,400.0	7,344.3	7,342.5	85.3	12.8	89.30	4,689.6	-585.8	371.4	274.7	96.72	3.840	
11,661.7	7,400.0	7,347.3	7,345.5	86.3	12.9	89.76	4,689.8	-585.8	366.2	268.4	97.80	3.745 CC, ES	
11,700.0	7,400.0	7,349.2	7,347.3	87.0	12.9	90.05	4,689.9	-585.8	368.2	269.8	98.47	3.740 SF	
11,800.0	7,400.0	7,354.0	7,352.2	88.7	12.9	90.81	4,690.1	-585.8	391.4	291.2	100.21	3.906	
11,900.0	7,400.0	7,358.9	7,357.1	90.4	12.9	91.57	4,690.3	-585.8	436.8	334.9	101.93	4.285	
12,000.0	7,400.0	7,363.8	7,362.0	92.1	12.9	92.34	4,690.6	-585.8	498.3	394.7	103.64	4.808	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,600.0	7,400.0	7,351.0	7,349.0	51.7	13.1	88.62	3,011.8	-674.6	458.5	396.2	62.30	7.359	
9,700.0	7,400.0	7,352.3	7,350.4	53.4	13.1	88.93	3,011.8	-674.6	378.3	314.3	64.01	5.909	
9,800.0	7,400.0	7,353.7	7,351.7	55.0	13.1	89.24	3,011.8	-674.6	309.8	244.1	65.73	4.714	
9,900.0	7,400.0	7,355.0	7,353.0	56.7	13.1	89.55	3,011.8	-674.6	262.5	195.0	67.45	3.892	
9,985.5	7,400.0	7,356.1	7,354.2	58.1	13.1	89.81	3,011.8	-674.6	248.2	179.2	68.92	3.601 CC, ES	
10,000.0	7,400.0	7,356.3	7,354.4	58.3	13.1	89.85	3,011.8	-674.6	248.6	179.4	69.17	3.594 SF	
10,100.0	7,400.0	7,357.6	7,355.7	60.0	13.1	90.16	3,011.9	-674.6	273.3	202.4	70.89	3.855	
10,200.0	7,400.0	7,359.0	7,357.0	61.6	13.1	90.46	3,011.9	-674.6	328.0	255.4	72.61	4.517	
10,300.0	7,400.0	7,360.3	7,358.3	63.3	13.1	90.76	3,011.9	-674.6	400.6	326.2	74.33	5.389	
10,400.0	7,400.0	7,361.6	7,359.6	65.0	13.1	91.06	3,011.9	-674.6	483.0	407.0	76.05	6.352	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1A-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 1A-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		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)						
1,300.0	1,294.8	1,271.8	1,271.8	2.9	2.2	30.76	392.0	-432.2	499.3	494.7	4.60	108.598		
1,400.0	1,393.9	1,370.9	1,370.9	3.1	2.4	31.56	392.0	-432.2	487.9	482.9	4.99	97.837		
1,500.0	1,493.0	1,470.0	1,470.0	3.4	2.5	32.39	392.0	-432.2	476.7	471.3	5.38	88.583		
1,600.0	1,592.1	1,569.1	1,569.1	3.7	2.7	33.26	392.0	-432.2	465.5	459.7	5.78	80.548		
1,700.0	1,691.2	1,668.2	1,668.2	4.0	2.9	34.18	392.0	-432.2	454.4	448.2	6.18	73.511		
1,800.0	1,790.4	1,767.4	1,767.4	4.3	3.1	35.13	392.0	-432.2	443.5	436.9	6.59	67.303		
1,900.0	1,889.5	1,866.5	1,866.5	4.6	3.2	36.14	392.0	-432.2	432.7	425.7	7.00	61.790		
2,000.0	1,988.6	1,965.6	1,965.6	4.9	3.4	37.20	392.0	-432.2	422.0	414.6	7.42	56.866		
2,100.0	2,087.7	2,064.7	2,064.7	5.1	3.6	38.31	392.0	-432.2	411.5	403.7	7.85	52.448		
2,200.0	2,186.8	2,163.8	2,163.8	5.4	3.8	39.48	392.0	-432.2	401.1	392.9	8.28	48.465		
2,300.0	2,285.9	2,262.9	2,262.9	5.7	3.9	40.71	392.0	-432.2	391.0	382.3	8.71	44.862		
2,400.0	2,385.1	2,362.1	2,362.1	6.0	4.1	42.01	392.0	-432.2	381.0	371.8	9.16	41.592		
2,500.0	2,484.2	2,461.2	2,461.2	6.3	4.3	43.37	392.0	-432.2	371.2	361.6	9.61	38.615		
2,600.0	2,583.3	2,560.3	2,560.3	6.6	4.5	44.81	392.0	-432.2	361.6	351.6	10.07	35.901		
2,700.0	2,682.4	2,659.4	2,659.4	6.9	4.6	46.32	392.0	-432.2	352.3	341.8	10.54	33.420		
2,800.0	2,781.5	2,758.5	2,758.5	7.2	4.8	47.91	392.0	-432.2	343.2	332.2	11.02	31.150		
2,900.0	2,880.6	2,857.6	2,857.6	7.5	5.0	49.59	392.0	-432.2	334.5	323.0	11.50	29.071		
3,000.0	2,979.8	2,956.8	2,956.8	7.7	5.1	51.36	392.0	-432.2	326.0	314.0	12.00	27.166		
3,100.0	3,078.9	3,055.9	3,055.9	8.0	5.3	53.21	392.0	-432.2	317.8	305.3	12.50	25.420		
3,200.0	3,178.0	3,155.0	3,155.0	8.3	5.5	55.16	392.0	-432.2	310.0	297.0	13.01	23.821		
3,300.0	3,277.1	3,254.1	3,254.1	8.6	5.7	57.21	392.0	-432.2	302.6	289.1	13.53	22.358		
3,400.0	3,376.2	3,353.2	3,353.2	8.9	5.8	59.36	392.0	-432.2	295.6	281.5	14.06	21.022		
3,500.0	3,475.4	3,452.4	3,452.4	9.2	6.0	61.61	392.0	-432.2	289.0	274.4	14.59	19.803		
3,600.0	3,574.5	3,551.5	3,551.5	9.5	6.2	63.95	392.0	-432.2	282.9	267.8	15.13	18.695		
3,700.0	3,673.6	3,650.6	3,650.6	9.8	6.4	66.39	392.0	-432.2	277.3	261.6	15.67	17.692		
3,800.0	3,772.7	3,749.7	3,749.7	10.1	6.5	68.93	392.0	-432.2	272.2	256.0	16.22	16.787		
3,900.0	3,871.8	3,848.8	3,848.8	10.4	6.7	71.56	392.0	-432.2	267.7	250.9	16.76	15.974		
4,000.0	3,970.9	3,947.9	3,947.9	10.7	6.9	74.27	392.0	-432.2	263.8	246.5	17.30	15.250		
4,100.0	4,070.1	4,047.1	4,047.1	10.9	7.0	77.06	392.0	-432.2	260.4	242.6	17.83	14.609		
4,200.0	4,169.2	4,146.2	4,146.2	11.2	7.2	79.90	392.0	-432.2	257.8	239.4	18.35	14.046		
4,300.0	4,268.3	4,245.3	4,245.3	11.5	7.4	82.80	392.0	-432.2	255.8	236.9	18.86	13.558		
4,400.0	4,367.4	4,344.4	4,344.4	11.8	7.6	85.74	392.0	-432.2	254.4	235.1	19.36	13.141		
4,500.0	4,466.5	4,443.5	4,443.5	12.1	7.7	88.70	392.0	-432.2	253.8	233.9	19.84	12.789		
4,550.5	4,516.6	4,493.6	4,493.6	12.3	7.8	90.20	392.0	-432.2	253.7	233.6	20.08	12.636 CC, ES		
4,600.0	4,565.6	4,520.0	4,520.0	12.4	7.9	90.99	392.0	-432.2	254.8	234.6	20.27	12.573 SF		
4,700.0	4,664.8	4,520.0	4,520.0	12.7	7.9	90.99	392.0	-432.2	282.2	261.6	20.56	13.725		
4,800.0	4,763.9	4,520.0	4,520.0	13.0	7.9	90.99	392.0	-432.2	338.1	317.3	20.85	16.216		
4,900.0	4,863.0	4,520.0	4,520.0	13.3	7.9	90.99	392.0	-432.2	411.1	390.0	21.14	19.446		
5,000.0	4,962.1	4,520.0	4,520.0	13.6	7.9	90.99	392.0	-432.2	493.6	472.2	21.43	23.034		

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

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

