

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Grant-Hurt 1F-14H-G268 PBHL	7300.2	704.3	1301338.77	3149805.73	40.159320	-104.964040

M Azimuths to True North
 Magnetic North: 8.68°
 Magnetic Field
 Strength: 52758.8snT
 Dip Angle: 66.74°
 Date: 6/24/2013
 Model: IGRF2010

Plan #1
 Grant-Hurt 1F-14H-G268
 13xxx; LR
 WELL @ 4913.0ft (Original Well Elev)
 Ground Elevation @ 4888.0
 North American Datum 1983
 Well Grant-Hurt 1F-14H-G268, True North

TVDPth	MDPath	Formation
263.0	263.0	Fox Hills - BASE
4026.0	4042.1	Sussex
4180.0	4196.8	Sussex Marker
4716.0	4735.5	Shannon
6000.0	6025.8	Teepee Buttes (*if present)
7059.0	7158.4	Sharon Springs
7118.0	7269.0	Niobrara
7170.0	7431.2	B Chalk

Vertical Section at 0.00° (1200 ft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant-Hurt 1F-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 1F-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 1F-14H-G268					
Well Position	+N/-S	0.0 ft	Northing:	1,294,034.45 ft	Latitude:	40.139280
	+E/-W	0.0 ft	Easting:	3,149,145.32 ft	Longitude:	-104.966560
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)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
968.6	5.69	98.38	967.7	-4.1	27.9	1.00	1.00	0.00	98.38	
6,630.9	5.69	98.38	6,602.1	-85.9	582.9	0.00	0.00	0.00	0.00	
7,538.6	90.00	0.50	7,180.0	486.5	644.9	10.00	9.29	-10.78	-97.85	
14,352.6	90.00	0.50	7,180.0	7,300.2	704.3	0.00	0.00	0.00	0.00	Grant-Hurt 1F-14H-G;

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 1F-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	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	1.00	98.38	500.0	-0.1	0.9	-0.1	1.00	1.00	
600.0	2.00	98.38	600.0	-0.5	3.5	-0.5	1.00	1.00	
700.0	3.00	98.38	699.9	-1.1	7.8	-1.1	1.00	1.00	
800.0	4.00	98.38	799.7	-2.0	13.8	-2.0	1.00	1.00	
900.0	5.00	98.38	899.4	-3.2	21.6	-3.2	1.00	1.00	
968.6	5.69	98.38	967.7	-4.1	27.9	-4.1	1.00	1.00	EOB; Inc=5.69°
1,000.0	5.69	98.38	998.9	-4.6	31.0	-4.6	0.00	0.00	
1,100.0	5.69	98.38	1,098.4	-6.0	40.8	-6.0	0.00	0.00	
1,200.0	5.69	98.38	1,197.9	-7.5	50.6	-7.5	0.00	0.00	
1,300.0	5.69	98.38	1,297.4	-8.9	60.4	-8.9	0.00	0.00	
1,400.0	5.69	98.38	1,396.9	-10.3	70.2	-10.3	0.00	0.00	
1,500.0	5.69	98.38	1,496.5	-11.8	80.0	-11.8	0.00	0.00	
1,600.0	5.69	98.38	1,596.0	-13.2	89.8	-13.2	0.00	0.00	
1,700.0	5.69	98.38	1,695.5	-14.7	99.6	-14.7	0.00	0.00	
1,800.0	5.69	98.38	1,795.0	-16.1	109.4	-16.1	0.00	0.00	
1,900.0	5.69	98.38	1,894.5	-17.6	119.2	-17.6	0.00	0.00	
2,000.0	5.69	98.38	1,994.0	-19.0	129.0	-19.0	0.00	0.00	
2,100.0	5.69	98.38	2,093.5	-20.5	138.8	-20.5	0.00	0.00	
2,200.0	5.69	98.38	2,193.0	-21.9	148.6	-21.9	0.00	0.00	
2,300.0	5.69	98.38	2,292.5	-23.3	158.4	-23.3	0.00	0.00	
2,400.0	5.69	98.38	2,392.0	-24.8	168.2	-24.8	0.00	0.00	
2,500.0	5.69	98.38	2,491.5	-26.2	178.0	-26.2	0.00	0.00	
2,600.0	5.69	98.38	2,591.0	-27.7	187.8	-27.7	0.00	0.00	
2,700.0	5.69	98.38	2,690.5	-29.1	197.6	-29.1	0.00	0.00	
2,800.0	5.69	98.38	2,790.1	-30.6	207.4	-30.6	0.00	0.00	
2,900.0	5.69	98.38	2,889.6	-32.0	217.2	-32.0	0.00	0.00	
3,000.0	5.69	98.38	2,989.1	-33.5	227.0	-33.5	0.00	0.00	
3,100.0	5.69	98.38	3,088.6	-34.9	236.8	-34.9	0.00	0.00	
3,200.0	5.69	98.38	3,188.1	-36.3	246.6	-36.3	0.00	0.00	
3,300.0	5.69	98.38	3,287.6	-37.8	256.4	-37.8	0.00	0.00	
3,400.0	5.69	98.38	3,387.1	-39.2	266.2	-39.2	0.00	0.00	
3,500.0	5.69	98.38	3,486.6	-40.7	276.0	-40.7	0.00	0.00	
3,600.0	5.69	98.38	3,586.1	-42.1	285.8	-42.1	0.00	0.00	
3,700.0	5.69	98.38	3,685.6	-43.6	295.6	-43.6	0.00	0.00	
3,800.0	5.69	98.38	3,785.1	-45.0	305.4	-45.0	0.00	0.00	
3,900.0	5.69	98.38	3,884.6	-46.5	315.2	-46.5	0.00	0.00	
4,000.0	5.69	98.38	3,984.2	-47.9	325.0	-47.9	0.00	0.00	
4,042.1	5.69	98.38	4,026.0	-48.5	329.1	-48.5	0.00	0.00	Sussex
4,100.0	5.69	98.38	4,083.7	-49.3	334.8	-49.3	0.00	0.00	
4,196.8	5.69	98.38	4,180.0	-50.7	344.3	-50.7	0.00	0.00	Sussex Marker
4,200.0	5.69	98.38	4,183.2	-50.8	344.6	-50.8	0.00	0.00	
4,300.0	5.69	98.38	4,282.7	-52.2	354.4	-52.2	0.00	0.00	
4,400.0	5.69	98.38	4,382.2	-53.7	364.2	-53.7	0.00	0.00	
4,500.0	5.69	98.38	4,481.7	-55.1	374.0	-55.1	0.00	0.00	
4,600.0	5.69	98.38	4,581.2	-56.6	383.8	-56.6	0.00	0.00	
4,700.0	5.69	98.38	4,680.7	-58.0	393.6	-58.0	0.00	0.00	

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 1F-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
4,735.5	5.69	98.38	4,716.0	-58.5	397.1	-58.5	0.00	0.00	Shannon
4,800.0	5.69	98.38	4,780.2	-59.5	403.4	-59.5	0.00	0.00	
4,900.0	5.69	98.38	4,879.7	-60.9	413.2	-60.9	0.00	0.00	
5,000.0	5.69	98.38	4,979.2	-62.3	423.0	-62.3	0.00	0.00	
5,100.0	5.69	98.38	5,078.7	-63.8	432.8	-63.8	0.00	0.00	
5,200.0	5.69	98.38	5,178.2	-65.2	442.6	-65.2	0.00	0.00	
5,300.0	5.69	98.38	5,277.8	-66.7	452.4	-66.7	0.00	0.00	
5,400.0	5.69	98.38	5,377.3	-68.1	462.2	-68.1	0.00	0.00	
5,500.0	5.69	98.38	5,476.8	-69.6	472.0	-69.6	0.00	0.00	
5,600.0	5.69	98.38	5,576.3	-71.0	481.8	-71.0	0.00	0.00	
5,700.0	5.69	98.38	5,675.8	-72.5	491.6	-72.5	0.00	0.00	
5,800.0	5.69	98.38	5,775.3	-73.9	501.4	-73.9	0.00	0.00	
5,900.0	5.69	98.38	5,874.8	-75.3	511.2	-75.3	0.00	0.00	
6,000.0	5.69	98.38	5,974.3	-76.8	521.0	-76.8	0.00	0.00	
6,025.8	5.69	98.38	6,000.0	-77.2	523.6	-77.2	0.00	0.00	Teepee Buttes (*if present)
6,100.0	5.69	98.38	6,073.8	-78.2	530.8	-78.2	0.00	0.00	
6,200.0	5.69	98.38	6,173.3	-79.7	540.7	-79.7	0.00	0.00	
6,300.0	5.69	98.38	6,272.8	-81.1	550.5	-81.1	0.00	0.00	
6,400.0	5.69	98.38	6,372.3	-82.6	560.3	-82.6	0.00	0.00	
6,500.0	5.69	98.38	6,471.9	-84.0	570.1	-84.0	0.00	0.00	
6,600.0	5.69	98.38	6,571.4	-85.5	579.9	-85.5	0.00	0.00	
6,630.9	5.69	98.38	6,602.1	-85.9	582.9	-85.9	0.00	0.00	Start build/turn @ 6630' MD
6,700.0	8.32	42.89	6,670.8	-82.7	589.7	-82.7	10.00	3.81	
6,800.0	17.07	19.24	6,768.3	-63.5	599.5	-63.5	10.00	8.74	
6,900.0	26.69	11.81	6,861.0	-27.6	608.9	-27.6	10.00	9.63	
7,000.0	36.51	8.16	6,946.1	24.0	617.8	24.0	10.00	9.82	
7,100.0	46.40	5.89	7,020.9	89.6	625.7	89.6	10.00	9.89	
7,158.4	52.20	4.89	7,059.0	133.7	629.9	133.7	10.00	9.92	Sharon Springs
7,200.0	56.32	4.27	7,083.3	167.3	632.6	167.3	10.00	9.93	
7,269.0	63.17	3.36	7,118.0	226.7	636.5	226.7	10.00	9.94	Niobrara
7,300.0	66.26	2.99	7,131.3	254.7	638.0	254.7	10.00	9.94	
7,400.0	76.20	1.89	7,163.4	349.2	642.0	349.2	10.00	9.95	
7,431.2	79.31	1.57	7,170.0	379.7	643.0	379.7	10.00	9.95	B Chalk
7,500.0	86.15	0.88	7,178.7	447.9	644.4	447.9	10.00	9.95	
7,538.6	90.00	0.50	7,180.0	486.5	644.9	486.5	10.00	9.95	LP @ 7180' TVD; 90°
7,600.0	90.00	0.50	7,180.0	547.8	645.4	547.8	0.00	0.00	
7,700.0	90.00	0.50	7,180.0	647.8	646.3	647.8	0.00	0.00	
7,800.0	90.00	0.50	7,180.0	747.8	647.2	747.8	0.00	0.00	
7,900.0	90.00	0.50	7,180.0	847.8	648.0	847.8	0.00	0.00	
8,000.0	90.00	0.50	7,180.0	947.8	648.9	947.8	0.00	0.00	
8,100.0	90.00	0.50	7,180.0	1,047.8	649.8	1,047.8	0.00	0.00	
8,200.0	90.00	0.50	7,180.0	1,147.8	650.6	1,147.8	0.00	0.00	
8,300.0	90.00	0.50	7,180.0	1,247.8	651.5	1,247.8	0.00	0.00	
8,400.0	90.00	0.50	7,180.0	1,347.8	652.4	1,347.8	0.00	0.00	
8,500.0	90.00	0.50	7,180.0	1,447.8	653.3	1,447.8	0.00	0.00	
8,600.0	90.00	0.50	7,180.0	1,547.8	654.1	1,547.8	0.00	0.00	
8,700.0	90.00	0.50	7,180.0	1,647.8	655.0	1,647.8	0.00	0.00	
8,800.0	90.00	0.50	7,180.0	1,747.8	655.9	1,747.8	0.00	0.00	
8,900.0	90.00	0.50	7,180.0	1,847.8	656.8	1,847.8	0.00	0.00	
9,000.0	90.00	0.50	7,180.0	1,947.8	657.6	1,947.8	0.00	0.00	
9,100.0	90.00	0.50	7,180.0	2,047.8	658.5	2,047.8	0.00	0.00	
9,200.0	90.00	0.50	7,180.0	2,147.8	659.4	2,147.8	0.00	0.00	

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Well:	Grant-Hurt 1F-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
9,300.0	90.00	0.50	7,180.0	2,247.8	660.2	2,247.8	0.00	0.00	
9,400.0	90.00	0.50	7,180.0	2,347.8	661.1	2,347.8	0.00	0.00	
9,500.0	90.00	0.50	7,180.0	2,447.8	662.0	2,447.8	0.00	0.00	
9,600.0	90.00	0.50	7,180.0	2,547.8	662.9	2,547.8	0.00	0.00	
9,700.0	90.00	0.50	7,180.0	2,647.8	663.7	2,647.8	0.00	0.00	
9,800.0	90.00	0.50	7,180.0	2,747.8	664.6	2,747.8	0.00	0.00	
9,900.0	90.00	0.50	7,180.0	2,847.8	665.5	2,847.8	0.00	0.00	
10,000.0	90.00	0.50	7,180.0	2,947.7	666.4	2,947.7	0.00	0.00	
10,100.0	90.00	0.50	7,180.0	3,047.7	667.2	3,047.7	0.00	0.00	
10,200.0	90.00	0.50	7,180.0	3,147.7	668.1	3,147.7	0.00	0.00	
10,300.0	90.00	0.50	7,180.0	3,247.7	669.0	3,247.7	0.00	0.00	
10,400.0	90.00	0.50	7,180.0	3,347.7	669.8	3,347.7	0.00	0.00	
10,500.0	90.00	0.50	7,180.0	3,447.7	670.7	3,447.7	0.00	0.00	
10,600.0	90.00	0.50	7,180.0	3,547.7	671.6	3,547.7	0.00	0.00	
10,700.0	90.00	0.50	7,180.0	3,647.7	672.5	3,647.7	0.00	0.00	
10,800.0	90.00	0.50	7,180.0	3,747.7	673.3	3,747.7	0.00	0.00	
10,900.0	90.00	0.50	7,180.0	3,847.7	674.2	3,847.7	0.00	0.00	
11,000.0	90.00	0.50	7,180.0	3,947.7	675.1	3,947.7	0.00	0.00	
11,100.0	90.00	0.50	7,180.0	4,047.7	676.0	4,047.7	0.00	0.00	
11,200.0	90.00	0.50	7,180.0	4,147.7	676.8	4,147.7	0.00	0.00	
11,300.0	90.00	0.50	7,180.0	4,247.7	677.7	4,247.7	0.00	0.00	
11,400.0	90.00	0.50	7,180.0	4,347.7	678.6	4,347.7	0.00	0.00	
11,500.0	90.00	0.50	7,180.0	4,447.7	679.4	4,447.7	0.00	0.00	
11,600.0	90.00	0.50	7,180.0	4,547.7	680.3	4,547.7	0.00	0.00	
11,700.0	90.00	0.50	7,180.0	4,647.7	681.2	4,647.7	0.00	0.00	
11,800.0	90.00	0.50	7,180.0	4,747.7	682.1	4,747.7	0.00	0.00	
11,900.0	90.00	0.50	7,180.0	4,847.7	682.9	4,847.7	0.00	0.00	
12,000.0	90.00	0.50	7,180.0	4,947.7	683.8	4,947.7	0.00	0.00	
12,100.0	90.00	0.50	7,180.0	5,047.7	684.7	5,047.7	0.00	0.00	
12,200.0	90.00	0.50	7,180.0	5,147.7	685.6	5,147.7	0.00	0.00	
12,300.0	90.00	0.50	7,180.0	5,247.7	686.4	5,247.7	0.00	0.00	
12,400.0	90.00	0.50	7,180.0	5,347.7	687.3	5,347.7	0.00	0.00	
12,500.0	90.00	0.50	7,180.0	5,447.7	688.2	5,447.7	0.00	0.00	
12,600.0	90.00	0.50	7,180.0	5,547.6	689.0	5,547.6	0.00	0.00	
12,700.0	90.00	0.50	7,180.0	5,647.6	689.9	5,647.6	0.00	0.00	
12,800.0	90.00	0.50	7,180.0	5,747.6	690.8	5,747.6	0.00	0.00	
12,900.0	90.00	0.50	7,180.0	5,847.6	691.7	5,847.6	0.00	0.00	
13,000.0	90.00	0.50	7,180.0	5,947.6	692.5	5,947.6	0.00	0.00	
13,100.0	90.00	0.50	7,180.0	6,047.6	693.4	6,047.6	0.00	0.00	
13,200.0	90.00	0.50	7,180.0	6,147.6	694.3	6,147.6	0.00	0.00	
13,300.0	90.00	0.50	7,180.0	6,247.6	695.2	6,247.6	0.00	0.00	
13,400.0	90.00	0.50	7,180.0	6,347.6	696.0	6,347.6	0.00	0.00	
13,500.0	90.00	0.50	7,180.0	6,447.6	696.9	6,447.6	0.00	0.00	
13,600.0	90.00	0.50	7,180.0	6,547.6	697.8	6,547.6	0.00	0.00	
13,700.0	90.00	0.50	7,180.0	6,647.6	698.6	6,647.6	0.00	0.00	
13,800.0	90.00	0.50	7,180.0	6,747.6	699.5	6,747.6	0.00	0.00	
13,900.0	90.00	0.50	7,180.0	6,847.6	700.4	6,847.6	0.00	0.00	
14,000.0	90.00	0.50	7,180.0	6,947.6	701.3	6,947.6	0.00	0.00	
14,100.0	90.00	0.50	7,180.0	7,047.6	702.1	7,047.6	0.00	0.00	
14,200.0	90.00	0.50	7,180.0	7,147.6	703.0	7,147.6	0.00	0.00	
14,300.0	90.00	0.50	7,180.0	7,247.6	703.9	7,247.6	0.00	0.00	
14,352.6	90.00	0.50	7,180.0	7,300.2	704.3	7,300.2	0.00	0.00	TD at 14352.6 - Grant-Hurt 1F-14H-G268 PBHL

Planning Report

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

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Grant-Hurt 1F-14H-G268 - hit/miss target - Shape - Point	0.00	0.00	7,180.0	7,300.2	704.3	1,301,338.77	3,149,805.73	40.159320	-104.964040

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
263.0	263.0	Fox Hills - BASE				
4,042.1	4,026.0	Sussex				
4,196.8	4,180.0	Sussex Marker				
4,735.5	4,716.0	Shannon				
6,025.8	6,000.0	Teepee Buttes (*if present)				
7,158.4	7,059.0	Sharon Springs				
7,269.0	7,118.0	Niobrara				
7,431.2	7,170.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP @ 400'	
968.6	967.7	-4.1	27.9	EOB; Inc=5.69°	
6,630.9	6,602.1	-85.9	582.9	Start build/turn @ 6630' MD	
7,538.6	7,180.0	486.5	644.9	LP @ 7180' TVD; 90°	
14,352.6	7,180.0	7,300.2	704.3	TD at 14352.6	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Grant-Hurt 1F-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 1F-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 1F-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	14,352.6	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1F-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 1F-14H-G268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)						
BERGER 32-23 (EXISTING) - EXISTING - NO SURVEY						Out of range
BUTCHER-TULL 1 (EXISTING) - VESSELS WELL - NO						Out of range
DEL CAMINO 11-14 (EXISTING) - EXISTING - NO SURV						Out of range
ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 1 (EXISTING) - EXISTING - GYRO						Out of range
ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO						Out of range
ELMQUIST 12-23 (EXISTING) - EXISTING - NO SURVE						Out of range
ELMQUIST 21-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 2-4-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 4-2-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 4-4-23 (EXISTING) - EXISTING - SURVEYS						Out of range
EVERIST 26-15 (EXISTING) - KMG WELL - PLAN ONLY						Out of range
EVERIST 39-10 (EXISTING) - EXISTING - NO SURVEY						Out of range
GRANT 23-11 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
GRANT 2-8-11 (EXISTING) - ENCANA WELL - SURVEY						Out of range
GRANT 3-6-11 (EXISTING) - ENCANA WELL - SURVEY						Out of range
GRANT BROTHERS 1 (EXISTING) - PDC WELL - NO S	13,693.0	7,112.0	158.3	27.0	1.206	Level 2, CC, ES, SF
Grant Elmquist 2A-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2B-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2C-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2D-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2E-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2F-14H-C268 - Hz - Plan #2						Out of range
Grant Elmquist 2G-14H-C268 - Hz - Plan #2						Out of range
Grant Salisbury 2A-14H-C268 - Hz - Plan #2						Out of range
Grant Salisbury 2B-14H-C268 - Hz - Plan #1						Out of range
Grant Salisbury 2C-14H-C268 - Hz - Plan #1						Out of range
Grant Salisbury 2D-14H-C268 - Hz - Plan #1						Out of range
Grant Salisbury 2E-14H-C268 - Hz - Plan #1						Out of range
Grant Salisbury 2F-14H-C268 - Hz - Plan #1						Out of range
Grant-Hurt 1A-14H-G268 - Hz - Plan #1	200.0	200.0	47.5	46.9	77.806	CC, ES
Grant-Hurt 1A-14H-G268 - Hz - Plan #1	600.0	595.9	64.4	62.4	32.181	SF
Grant-Hurt 1B-14H-G268 - Hz - Plan #1	300.0	300.0	39.1	38.2	40.775	CC, ES
Grant-Hurt 1B-14H-G268 - Hz - Plan #1	600.0	597.5	50.3	48.3	25.139	SF
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	400.0	400.0	28.0	26.6	21.358	CC, ES
Grant-Hurt 1C-14H-G268 - Hz - Plan #1	600.0	598.8	34.7	32.7	17.329	SF
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	400.0	400.0	19.6	18.3	14.951	CC, ES
Grant-Hurt 1D-14H-G268 - Hz - Plan #1	600.0	600.0	23.0	21.0	11.478	SF
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	400.0	400.0	8.4	7.1	6.408	CC, ES
Grant-Hurt 1E-14H-G268 - Hz - Plan #1	14,352.6	14,551.7	412.9	190.7	1.858	SF
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.650	CC, ES
Grant-Hurt 1G-14H-G268 - Hz - Plan #1	14,352.6	14,621.0	412.9	190.8	1.859	SF
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	200.0	200.0	22.4	21.8	36.615	CC, ES
Grant-Hurt 1H-14H-G268 - Hz - Plan #1	1,000.0	995.0	46.8	43.4	13.771	SF
HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 1 (EXISTING) - ENCANA WELL - NO SURVEYS	10,598.4	7,170.0	148.5	70.9	1.914	CC
HURT 1 (EXISTING) - ENCANA WELL - NO SURVEYS	10,600.0	7,170.0	148.5	70.9	1.914	ES, SF
HURT 33-11 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
HURT 34-11 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
HURT 43-11 (EXISTING) - ENCANA WELL - SURVEYS	11,427.1	7,496.3	69.3	-38.5	0.643	Level 1, CC, ES, SF
HURT 7-8-11 (EXISTING) - ENCANA WELL - SURVEYS	9,613.7	7,419.5	244.6	181.7	3.887	CC, ES, SF
MDM 33-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
MDM 34-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1F-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 1F-14H-G268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)						
NELSON 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
NELSON 23-23C (EXISTING) - EXISTING - NO SURVEY						Out of range
OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS						Out of range
OLANDER U 14-11 (EXISTING) - EXISTING - NO SURV						Out of range
OLANDER U 14-14 (EXISTING) - EXISTING - NO SURV						Out of range
OLSON 1 (EXISTING) - PLAN ONLY - PLAN #1						Out of range
SALISBURY 1 (EXISTING) - EXISTING - GYRO						Out of range
SALISBURY 13-11 (EXISTING) - EXISTING - SURVEYS						Out of range
SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS						Out of range
SALISBURY 2-4-11 (EXISTING) - EXISTING - SURVEYS						Out of range
STANLEY OLSON 1 (EXISTING) - WHITEWING WELL						Out of range
STANLEY OLSON 2 (EXISTING) - WHITEWING WELL	7,719.6	7,264.6	214.4	183.2	6.865	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1F-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 1F-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													Offset Site Error:	0.0 ft
Survey Program: 7790-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	
13,300.0	7,180.0	7,112.0	7,112.0	112.6	12.4	-90.00	6,642.0	540.3	423.6	299.2	124.40	3.405		
13,400.0	7,180.0	7,112.0	7,112.0	114.3	12.4	-90.00	6,642.0	540.3	333.0	206.8	126.14	2.640		
13,500.0	7,180.0	7,112.0	7,112.0	116.0	12.4	-90.00	6,642.0	540.3	249.6	121.7	127.89	1.951		
13,600.0	7,180.0	7,112.0	7,112.0	117.8	12.4	-90.00	6,642.0	540.3	183.6	53.9	129.63	1.416	Level 3	
13,693.0	7,180.0	7,112.0	7,112.0	119.4	12.4	-90.00	6,642.0	540.3	158.3	27.0	131.25	1.206	Level 2, CC, ES, SF	
13,700.0	7,180.0	7,112.0	7,112.0	119.5	12.4	-90.00	6,642.0	540.3	158.4	27.1	131.38	1.206	Level 2	
13,800.0	7,180.0	7,112.0	7,112.0	121.2	12.4	-90.00	6,642.0	540.3	191.1	58.0	133.12	1.435	Level 3	
13,900.0	7,180.0	7,112.0	7,112.0	123.0	12.4	-90.00	6,642.0	540.3	260.6	125.7	134.87	1.932		
14,000.0	7,180.0	7,112.0	7,112.0	124.7	12.4	-90.00	6,642.0	540.3	345.4	208.8	136.61	2.529		
14,100.0	7,180.0	7,112.0	7,112.0	126.4	12.4	-90.00	6,642.0	540.3	436.7	298.4	138.36	3.156		

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 1F-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 1F-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													Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1A-14H-G268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.99	0.0	-47.5	47.5					
100.0	100.0	100.0	100.0	0.1	0.1	-89.99	0.0	-47.5	47.5	47.3	0.26	181.547		
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-47.5	47.5	46.9	0.61	77.806 CC, ES		
300.0	300.0	299.2	299.2	0.5	0.5	-89.71	0.2	-48.4	48.4	47.4	0.96	50.410		
400.0	400.0	398.3	398.3	0.7	0.7	-88.90	1.0	-50.8	50.9	49.5	1.31	38.784		
500.0	500.0	497.3	497.2	0.8	0.8	173.98	2.2	-54.9	55.9	54.3	1.65	33.796		
600.0	600.0	595.9	595.6	1.0	1.0	175.51	3.9	-60.6	64.4	62.4	2.00	32.181 SF		
700.0	699.9	694.0	693.4	1.2	1.3	177.01	6.0	-67.9	76.3	74.0	2.35	32.534		
800.0	799.7	791.4	790.4	1.4	1.5	178.31	8.6	-76.8	91.7	89.0	2.69	34.102		
900.0	899.4	887.9	886.3	1.6	1.7	179.39	11.7	-87.1	110.5	107.4	3.03	36.472		
1,000.0	998.9	984.0	981.5	1.8	2.0	-179.75	15.1	-98.9	132.5	129.1	3.37	39.339		
1,100.0	1,098.4	1,081.3	1,078.0	2.0	2.2	-179.10	18.8	-111.2	155.4	151.6	3.71	41.872		
1,200.0	1,197.9	1,178.6	1,174.5	2.3	2.5	-178.62	22.4	-123.6	178.3	174.2	4.05	43.982		
1,300.0	1,297.4	1,275.9	1,270.9	2.5	2.8	-178.25	26.1	-136.0	201.2	196.8	4.40	45.765		
1,400.0	1,396.9	1,373.3	1,367.4	2.7	3.1	-177.95	29.7	-148.4	224.1	219.4	4.74	47.291		
1,500.0	1,496.5	1,470.6	1,463.9	3.0	3.3	-177.71	33.4	-160.7	247.1	242.0	5.08	48.613		
1,600.0	1,596.0	1,567.9	1,560.3	3.2	3.6	-177.51	37.0	-173.1	270.0	264.6	5.43	49.768		
1,700.0	1,695.5	1,665.3	1,656.8	3.5	3.9	-177.35	40.7	-185.5	292.9	287.2	5.77	50.786		
1,800.0	1,795.0	1,762.6	1,753.3	3.7	4.2	-177.20	44.3	-197.9	315.9	309.8	6.11	51.690		
1,900.0	1,894.5	1,859.9	1,849.7	3.9	4.5	-177.08	48.0	-210.2	338.8	332.4	6.45	52.498		
2,000.0	1,994.0	1,957.2	1,946.2	4.2	4.7	-176.97	51.6	-222.6	361.8	355.0	6.80	53.225		
2,100.0	2,093.5	2,054.6	2,042.7	4.4	5.0	-176.87	55.3	-235.0	384.7	377.6	7.14	53.883		
2,200.0	2,193.0	2,151.9	2,139.2	4.7	5.3	-176.79	58.9	-247.4	407.7	400.2	7.48	54.480		
2,300.0	2,292.5	2,249.2	2,235.6	4.9	5.6	-176.71	62.6	-259.7	430.6	422.8	7.83	55.025		
2,400.0	2,392.0	2,346.6	2,332.1	5.2	5.9	-176.64	66.2	-272.1	453.6	445.4	8.17	55.524		
2,500.0	2,491.5	2,443.9	2,428.6	5.4	6.1	-176.58	69.9	-284.5	476.5	468.0	8.51	55.983		
2,600.0	2,591.0	2,541.2	2,525.0	5.6	6.4	-176.53	73.5	-296.9	499.5	490.6	8.86	56.406		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1F-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 1F-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1B-14H-G268 - Hz - Plan #1															
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	-89.99	0.0	-39.1	39.1						
100.0	100.0	100.0	100.0	0.1	0.1	-89.99	0.0	-39.1	39.1	38.9	0.26	149.509			
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-39.1	39.1	38.5	0.61	64.075			
300.0	300.0	300.0	300.0	0.5	0.5	-89.99	0.0	-39.1	39.1	38.2	0.96	40.775 CC, ES			
400.0	400.0	399.3	399.3	0.7	0.7	-90.14	-0.1	-40.0	40.0	38.7	1.31	30.571			
500.0	500.0	498.5	498.5	0.8	0.8	171.25	-0.4	-42.6	43.4	41.8	1.66	26.246			
600.0	600.0	597.5	597.4	1.0	1.0	171.15	-0.9	-46.8	50.3	48.3	2.00	25.139 SF			
700.0	699.9	696.0	695.7	1.2	1.2	171.14	-1.6	-52.7	60.6	58.3	2.35	25.831			
800.0	799.7	793.9	793.3	1.4	1.4	171.19	-2.5	-60.3	74.4	71.7	2.69	27.626			
900.0	899.4	891.1	890.0	1.6	1.6	171.26	-3.6	-69.4	91.4	88.4	3.03	30.147			
1,000.0	998.9	987.3	985.6	1.8	1.9	171.34	-4.8	-80.0	111.8	108.4	3.37	33.134			
1,100.0	1,098.4	1,084.3	1,081.9	2.0	2.1	171.38	-6.2	-91.9	133.7	130.0	3.72	35.969			
1,200.0	1,197.9	1,181.8	1,178.7	2.3	2.4	171.40	-7.6	-104.0	155.8	151.7	4.06	38.329			
1,300.0	1,297.4	1,279.4	1,275.5	2.5	2.6	171.41	-9.1	-116.0	177.8	173.4	4.41	40.319			
1,400.0	1,396.9	1,376.9	1,372.3	2.7	2.9	171.43	-10.5	-128.1	199.8	195.0	4.75	42.019			
1,500.0	1,496.5	1,474.5	1,469.1	3.0	3.2	171.44	-11.9	-140.1	221.8	216.7	5.10	43.488			
1,600.0	1,596.0	1,572.0	1,565.8	3.2	3.4	171.45	-13.3	-152.2	243.8	238.4	5.45	44.770			
1,700.0	1,695.5	1,669.6	1,662.6	3.5	3.7	171.45	-14.7	-164.2	265.9	260.1	5.79	45.898			
1,800.0	1,795.0	1,767.1	1,759.4	3.7	4.0	171.46	-16.2	-176.3	287.9	281.7	6.14	46.899			
1,900.0	1,894.5	1,864.7	1,856.2	3.9	4.2	171.46	-17.6	-188.3	309.9	303.4	6.48	47.793			
2,000.0	1,994.0	1,962.2	1,953.0	4.2	4.5	171.47	-19.0	-200.4	331.9	325.1	6.83	48.596			
2,100.0	2,093.5	2,059.7	2,049.8	4.4	4.8	171.47	-20.4	-212.4	353.9	346.7	7.18	49.322			
2,200.0	2,193.0	2,157.3	2,146.6	4.7	5.0	171.48	-21.9	-224.5	375.9	368.4	7.52	49.981			
2,300.0	2,292.5	2,254.8	2,243.4	4.9	5.3	171.48	-23.3	-236.5	398.0	390.1	7.87	50.582			
2,400.0	2,392.0	2,352.4	2,340.1	5.2	5.6	171.48	-24.7	-248.6	420.0	411.8	8.21	51.132			
2,500.0	2,491.5	2,449.9	2,436.9	5.4	5.8	171.48	-26.1	-260.6	442.0	433.4	8.56	51.637			
2,600.0	2,591.0	2,547.5	2,533.7	5.6	6.1	171.49	-27.5	-272.7	464.0	455.1	8.91	52.104			
2,700.0	2,690.5	2,645.0	2,630.5	5.9	6.4	171.49	-29.0	-284.7	486.0	476.8	9.25	52.535			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1F-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 1F-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													Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1C-14H-G268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-89.99	0.0	-28.0	28.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.99	0.0	-28.0	28.0	27.7	0.26	106.792		
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-28.0	28.0	27.3	0.61	45.768		
300.0	300.0	300.0	300.0	0.5	0.5	-89.99	0.0	-28.0	28.0	27.0	0.96	29.125		
400.0	400.0	400.0	400.0	0.7	0.7	-89.99	0.0	-28.0	28.0	26.6	1.31	21.358 CC, ES		
500.0	500.0	499.5	499.5	0.8	0.8	171.39	-0.2	-28.8	29.7	28.0	1.66	17.895		
600.0	600.0	598.8	598.8	1.0	1.0	170.82	-1.0	-31.3	34.7	32.7	2.00	17.329 SF		
700.0	699.9	698.4	698.3	1.2	1.2	170.36	-2.1	-34.9	42.7	40.3	2.35	18.139		
800.0	799.7	797.9	797.8	1.4	1.4	170.36	-3.1	-38.5	52.3	49.6	2.70	19.390		
900.0	899.4	897.3	897.0	1.6	1.5	170.62	-4.2	-42.1	63.7	60.7	3.05	20.923		
1,000.0	998.9	996.4	996.1	1.8	1.7	171.00	-5.3	-45.7	76.8	73.4	3.39	22.622		
1,100.0	1,098.4	1,095.5	1,095.1	2.0	1.9	171.31	-6.4	-49.3	90.2	86.4	3.74	24.100		
1,200.0	1,197.9	1,194.6	1,194.2	2.3	2.1	171.55	-7.4	-53.0	103.6	99.5	4.09	25.326		
1,300.0	1,297.4	1,293.7	1,293.2	2.5	2.3	171.73	-8.5	-56.6	117.0	112.6	4.44	26.359		
1,400.0	1,396.9	1,392.8	1,392.2	2.7	2.5	171.88	-9.6	-60.2	130.4	125.7	4.79	27.242		
1,500.0	1,496.5	1,491.9	1,491.2	3.0	2.7	171.99	-10.7	-63.8	143.9	138.7	5.14	28.005		
1,600.0	1,596.0	1,591.0	1,590.2	3.2	2.8	172.09	-11.7	-67.4	157.3	151.8	5.49	28.670		
1,700.0	1,695.5	1,690.1	1,689.3	3.5	3.0	172.17	-12.8	-71.0	170.7	164.9	5.84	29.257		
1,800.0	1,795.0	1,789.2	1,788.3	3.7	3.2	172.24	-13.9	-74.6	184.2	178.0	6.18	29.777		
1,900.0	1,894.5	1,888.3	1,887.3	3.9	3.4	172.30	-15.0	-78.3	197.6	191.0	6.53	30.241		
2,000.0	1,994.0	1,987.4	1,986.3	4.2	3.6	172.35	-16.1	-81.9	211.0	204.1	6.88	30.658		
2,100.0	2,093.5	2,086.5	2,085.4	4.4	3.8	172.40	-17.1	-85.5	224.4	217.2	7.23	31.035		
2,200.0	2,193.0	2,185.6	2,184.4	4.7	3.9	172.44	-18.2	-89.1	237.9	230.3	7.58	31.378		
2,300.0	2,292.5	2,284.7	2,283.4	4.9	4.1	172.48	-19.3	-92.7	251.3	243.4	7.93	31.690		
2,400.0	2,392.0	2,383.8	2,382.4	5.2	4.3	172.51	-20.4	-96.3	264.7	256.4	8.28	31.976		
2,500.0	2,491.5	2,482.8	2,481.4	5.4	4.5	172.54	-21.4	-99.9	278.1	269.5	8.63	32.238		
2,600.0	2,591.0	2,581.9	2,580.5	5.6	4.7	172.57	-22.5	-103.5	291.6	282.6	8.98	32.481		
2,700.0	2,690.5	2,681.0	2,679.5	5.9	4.9	172.59	-23.6	-107.2	305.0	295.7	9.33	32.705		
2,800.0	2,790.1	2,780.1	2,778.5	6.1	5.0	172.62	-24.7	-110.8	318.4	308.8	9.67	32.913		
2,900.0	2,889.6	2,879.2	2,877.5	6.4	5.2	172.64	-25.7	-114.4	331.9	321.8	10.02	33.106		
3,000.0	2,989.1	2,978.3	2,976.6	6.6	5.4	172.66	-26.8	-118.0	345.3	334.9	10.37	33.287		
3,100.0	3,088.6	3,077.4	3,075.6	6.9	5.6	172.67	-27.9	-121.6	358.7	348.0	10.72	33.455		
3,200.0	3,188.1	3,176.5	3,174.6	7.1	5.8	172.69	-29.0	-125.2	372.1	361.1	11.07	33.613		
3,300.0	3,287.6	3,275.6	3,273.6	7.4	6.0	172.71	-30.0	-128.8	385.6	374.1	11.42	33.762		
3,400.0	3,387.1	3,374.7	3,372.6	7.6	6.2	172.72	-31.1	-132.5	399.0	387.2	11.77	33.901		
3,500.0	3,486.6	3,473.8	3,471.7	7.8	6.3	172.73	-32.2	-136.1	412.4	400.3	12.12	34.033		
3,600.0	3,586.1	3,572.9	3,570.7	8.1	6.5	172.75	-33.3	-139.7	425.9	413.4	12.47	34.157		
3,700.0	3,685.6	3,672.0	3,669.7	8.3	6.7	172.76	-34.4	-143.3	439.3	426.5	12.82	34.274		
3,800.0	3,785.1	3,771.1	3,768.7	8.6	6.9	172.77	-35.4	-146.9	452.7	439.5	13.17	34.386		
3,900.0	3,884.6	3,870.2	3,867.8	8.8	7.1	172.78	-36.5	-150.5	466.1	452.6	13.51	34.491		
4,000.0	3,984.2	3,969.3	3,966.8	9.1	7.3	172.79	-37.6	-154.1	479.6	465.7	13.86	34.591		
4,100.0	4,083.7	4,068.4	4,065.8	9.3	7.5	172.80	-38.7	-157.8	493.0	478.8	14.21	34.686		

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 1F-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 1F-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: O-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	-89.99	0.0	-19.6	19.6						
100.0	100.0	100.0	100.0	0.1	0.1	-89.99	0.0	-19.6	19.6	19.3	0.26	74.755			
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-19.6	19.6	19.0	0.61	32.038			
300.0	300.0	300.0	300.0	0.5	0.5	-89.99	0.0	-19.6	19.6	18.6	0.96	20.388			
400.0	400.0	400.0	400.0	0.7	0.7	-89.99	0.0	-19.6	19.6	18.3	1.31	14.951 CC, ES			
500.0	500.0	500.0	500.0	0.8	0.8	171.98	0.0	-19.6	20.4	18.8	1.66	12.325			
600.0	600.0	600.0	600.0	1.0	1.0	172.89	0.0	-19.6	23.0	21.0	2.01	11.478 SF			
700.0	699.9	699.9	699.9	1.2	1.2	174.01	0.0	-19.6	27.4	25.0	2.35	11.622			
800.0	799.7	799.7	799.7	1.4	1.4	175.10	0.0	-19.6	33.4	30.7	2.70	12.378			
900.0	899.4	899.4	899.4	1.6	1.5	176.03	0.0	-19.6	41.3	38.2	3.05	13.539			
1,000.0	998.9	998.9	998.9	1.8	1.7	176.76	0.0	-19.6	50.7	47.3	3.39	14.952			
1,100.0	1,098.4	1,098.4	1,098.4	2.0	1.9	177.29	0.0	-19.6	60.6	56.9	3.74	16.205			
1,200.0	1,197.9	1,197.9	1,197.9	2.3	2.0	177.67	0.0	-19.6	70.5	66.4	4.09	17.246			
1,300.0	1,297.4	1,297.4	1,297.4	2.5	2.2	177.96	0.0	-19.6	80.4	76.0	4.44	18.125			
1,400.0	1,396.9	1,396.9	1,396.9	2.7	2.4	178.18	0.0	-19.6	90.3	85.6	4.79	18.876			
1,500.0	1,496.5	1,496.5	1,496.5	3.0	2.6	178.36	0.0	-19.6	100.2	95.1	5.13	19.526			
1,600.0	1,596.0	1,596.0	1,596.0	3.2	2.7	178.51	0.0	-19.6	110.1	104.7	5.48	20.093			
1,700.0	1,695.5	1,695.5	1,695.5	3.5	2.9	178.63	0.0	-19.6	120.0	114.2	5.83	20.593			
1,800.0	1,795.0	1,795.0	1,795.0	3.7	3.1	178.74	0.0	-19.6	130.0	123.8	6.18	21.037			
1,900.0	1,894.5	1,894.5	1,894.5	3.9	3.3	178.83	0.0	-19.6	139.9	133.3	6.53	21.433			
2,000.0	1,994.0	1,994.0	1,994.0	4.2	3.4	178.90	0.0	-19.6	149.8	142.9	6.87	21.789			
2,100.0	2,093.5	2,093.5	2,093.5	4.4	3.6	178.97	0.0	-19.6	159.7	152.4	7.22	22.111			
2,200.0	2,193.0	2,193.0	2,193.0	4.7	3.8	179.03	0.0	-19.6	169.6	162.0	7.57	22.404			
2,300.0	2,292.5	2,292.5	2,292.5	4.9	4.0	179.09	0.0	-19.6	179.5	171.6	7.92	22.671			
2,400.0	2,392.0	2,392.0	2,392.0	5.2	4.1	179.13	0.0	-19.6	189.4	181.1	8.26	22.915			
2,500.0	2,491.5	2,491.5	2,491.5	5.4	4.3	179.18	0.0	-19.6	199.3	190.7	8.61	23.140			
2,600.0	2,591.0	2,591.0	2,591.0	5.6	4.5	179.22	0.0	-19.6	209.2	200.2	8.96	23.347			
2,700.0	2,690.5	2,690.5	2,690.5	5.9	4.7	179.25	0.0	-19.6	219.1	209.8	9.31	23.538			
2,800.0	2,790.1	2,790.1	2,790.1	6.1	4.8	179.28	0.0	-19.6	229.0	219.4	9.66	23.716			
2,900.0	2,889.6	2,889.6	2,889.6	6.4	5.0	179.31	0.0	-19.6	238.9	228.9	10.00	23.882			
3,000.0	2,989.1	2,989.1	2,989.1	6.6	5.2	179.34	0.0	-19.6	248.8	238.5	10.35	24.036			
3,100.0	3,088.6	3,088.6	3,088.6	6.9	5.3	179.25	-0.4	-20.0	259.1	248.4	10.70	24.229			
3,200.0	3,188.1	3,182.7	3,182.7	7.1	5.5	178.90	-2.0	-21.7	270.5	259.5	11.04	24.504			
3,300.0	3,287.6	3,281.4	3,281.3	7.4	5.7	178.39	-4.4	-24.2	282.6	271.2	11.39	24.819			
3,400.0	3,387.1	3,380.6	3,380.4	7.6	5.9	177.91	-6.9	-26.7	294.7	283.0	11.74	25.115			
3,500.0	3,486.6	3,479.8	3,479.6	7.8	6.0	177.46	-9.3	-29.2	306.9	294.8	12.09	25.394			
3,600.0	3,586.1	3,579.0	3,578.8	8.1	6.2	177.06	-11.8	-31.7	319.1	306.6	12.44	25.658			
3,700.0	3,685.6	3,678.3	3,677.9	8.3	6.4	176.68	-14.2	-34.3	331.3	318.5	12.79	25.908			
3,800.0	3,785.1	3,777.5	3,777.1	8.6	6.6	176.33	-16.6	-36.8	343.5	330.3	13.14	26.145			
3,900.0	3,884.6	3,876.7	3,876.3	8.8	6.7	176.00	-19.1	-39.3	355.7	342.2	13.49	26.369			
4,000.0	3,984.2	3,976.0	3,975.4	9.1	6.9	175.69	-21.5	-41.9	367.9	354.1	13.84	26.583			
4,100.0	4,083.7	4,075.2	4,074.6	9.3	7.1	175.41	-24.0	-44.4	380.2	366.0	14.19	26.786			
4,200.0	4,183.2	4,174.4	4,173.8	9.6	7.3	175.14	-26.4	-46.9	392.4	377.9	14.54	26.979			
4,300.0	4,282.7	4,273.7	4,272.9	9.8	7.5	174.89	-28.9	-49.5	404.7	389.8	14.90	27.164			
4,400.0	4,382.2	4,372.9	4,372.1	10.1	7.6	174.65	-31.3	-52.0	416.9	401.7	15.25	27.340			
4,500.0	4,481.7	4,472.1	4,471.3	10.3	7.8	174.43	-33.8	-54.5	429.2	413.6	15.60	27.508			
4,600.0	4,581.2	4,571.4	4,570.5	10.5	8.0	174.22	-36.2	-57.1	441.5	425.5	15.96	27.669			
4,700.0	4,680.7	4,670.6	4,669.6	10.8	8.2	174.02	-38.6	-59.6	453.8	437.4	16.31	27.823			
4,800.0	4,780.2	4,769.8	4,768.8	11.0	8.3	173.83	-41.1	-62.1	466.0	449.4	16.66	27.970			
4,900.0	4,879.7	4,869.0	4,868.0	11.3	8.5	173.65	-43.5	-64.7	478.3	461.3	17.02	28.111			
5,000.0	4,979.2	4,968.3	4,967.1	11.5	8.7	173.48	-46.0	-67.2	490.6	473.3	17.37	28.247			

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 1F-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 1F-14H-G268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1E-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-8.4	8.4	7.4	0.96	8.738		
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-8.4	8.4	7.1	1.31	6.408 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	172.40	0.0	-8.4	9.3	7.6	1.66	5.580		
600.0	600.0	600.2	600.1	1.0	1.0	173.11	-0.2	-7.5	11.0	9.0	2.01	5.481		
700.0	699.9	700.3	700.3	1.2	1.2	172.77	-0.9	-5.0	12.8	10.4	2.36	5.424		
800.0	799.7	800.6	800.4	1.4	1.4	171.77	-2.0	-0.8	14.6	11.9	2.70	5.394		
900.0	899.4	900.6	900.3	1.6	1.6	170.87	-3.4	4.6	17.0	14.0	3.05	5.568		
1,000.0	998.9	1,000.5	1,000.0	1.8	1.7	170.94	-4.8	10.0	21.0	17.6	3.40	6.178		
1,100.0	1,098.4	1,100.4	1,099.8	2.0	1.9	171.14	-6.2	15.3	25.5	21.7	3.76	6.779		
1,200.0	1,197.9	1,200.3	1,199.5	2.3	2.1	171.28	-7.6	20.7	29.9	25.8	4.11	7.278		
1,300.0	1,297.4	1,300.2	1,299.3	2.5	2.3	171.38	-9.0	26.1	34.3	29.9	4.46	7.697		
1,400.0	1,396.9	1,400.1	1,399.0	2.7	2.5	171.46	-10.4	31.5	38.8	33.9	4.81	8.055		
1,500.0	1,496.5	1,500.0	1,498.8	3.0	2.7	171.52	-11.9	36.9	43.2	38.0	5.16	8.364		
1,600.0	1,596.0	1,599.9	1,598.5	3.2	2.9	171.58	-13.3	42.2	47.6	42.1	5.52	8.634		
1,700.0	1,695.5	1,699.8	1,698.3	3.5	3.1	171.62	-14.7	47.6	52.0	46.2	5.87	8.871		
1,800.0	1,795.0	1,799.7	1,798.0	3.7	3.3	171.65	-16.1	53.0	56.5	50.3	6.22	9.081		
1,900.0	1,894.5	1,899.6	1,897.8	3.9	3.5	171.68	-17.5	58.4	60.9	54.3	6.57	9.269		
2,000.0	1,994.0	1,999.5	1,997.5	4.2	3.7	171.71	-18.9	63.7	65.3	58.4	6.92	9.438		
2,100.0	2,093.5	2,099.4	2,097.3	4.4	3.9	171.73	-20.3	69.1	69.8	62.5	7.28	9.590		
2,200.0	2,193.0	2,199.3	2,197.0	4.7	4.1	171.75	-21.7	74.5	74.2	66.6	7.63	9.728		
2,300.0	2,292.5	2,299.2	2,296.8	4.9	4.3	171.77	-23.1	79.9	78.6	70.7	7.98	9.854		
2,400.0	2,392.0	2,399.1	2,396.5	5.2	4.5	171.79	-24.5	85.2	83.1	74.7	8.33	9.969		
2,500.0	2,491.5	2,499.0	2,496.2	5.4	4.7	171.80	-26.0	90.6	87.5	78.8	8.68	10.075		
2,600.0	2,591.0	2,598.9	2,596.0	5.6	4.9	171.82	-27.4	96.0	91.9	82.9	9.04	10.173		
2,700.0	2,690.5	2,698.8	2,695.7	5.9	5.1	171.83	-28.8	101.4	96.4	87.0	9.39	10.263		
2,800.0	2,790.1	2,798.7	2,795.5	6.1	5.3	171.84	-30.2	106.7	100.8	91.0	9.74	10.347		
2,900.0	2,889.6	2,898.6	2,895.2	6.4	5.5	171.85	-31.6	112.1	105.2	95.1	10.09	10.425		
3,000.0	2,989.1	2,998.5	2,995.0	6.6	5.7	171.86	-33.0	117.5	109.7	99.2	10.45	10.498		
3,100.0	3,088.6	3,098.4	3,094.7	6.9	5.9	171.87	-34.4	122.9	114.1	103.3	10.80	10.566		
3,200.0	3,188.1	3,198.3	3,194.5	7.1	6.1	171.87	-35.8	128.3	118.5	107.4	11.15	10.629		
3,300.0	3,287.6	3,298.2	3,294.2	7.4	6.3	171.88	-37.2	133.6	122.9	111.4	11.50	10.689		
3,400.0	3,387.1	3,398.1	3,394.0	7.6	6.5	171.89	-38.6	139.0	127.4	115.5	11.85	10.745		
3,500.0	3,486.6	3,498.0	3,493.7	7.8	6.7	171.89	-40.0	144.4	131.8	119.6	12.21	10.798		
3,600.0	3,586.1	3,597.9	3,593.5	8.1	6.9	171.90	-41.5	149.8	136.2	123.7	12.56	10.848		
3,700.0	3,685.6	3,697.8	3,693.2	8.3	7.1	171.91	-42.9	155.1	140.7	127.8	12.91	10.895		
3,800.0	3,785.1	3,797.7	3,793.0	8.6	7.3	171.91	-44.3	160.5	145.1	131.8	13.26	10.940		
3,900.0	3,884.6	3,897.6	3,892.7	8.8	7.5	171.92	-45.7	165.9	149.5	135.9	13.62	10.983		
4,000.0	3,984.2	3,997.5	3,992.5	9.1	7.7	171.92	-47.1	171.3	154.0	140.0	13.97	11.023		
4,100.0	4,083.7	4,097.4	4,092.2	9.3	7.9	171.92	-48.5	176.6	158.4	144.1	14.32	11.061		
4,200.0	4,183.2	4,197.3	4,191.9	9.6	8.1	171.93	-49.9	182.0	162.8	148.2	14.67	11.098		
4,300.0	4,282.7	4,297.2	4,291.7	9.8	8.3	171.93	-51.3	187.4	167.3	152.2	15.02	11.132		
4,400.0	4,382.2	4,397.1	4,391.4	10.1	8.5	171.94	-52.7	192.8	171.7	156.3	15.38	11.165		
4,500.0	4,481.7	4,497.0	4,491.2	10.3	8.7	171.94	-54.1	198.1	176.1	160.4	15.73	11.197		
4,600.0	4,581.2	4,597.0	4,590.9	10.5	8.9	171.94	-55.6	203.5	180.6	164.5	16.08	11.227		
4,700.0	4,680.7	4,696.9	4,690.7	10.8	9.1	171.95	-57.0	208.9	185.0	168.6	16.43	11.256		
4,800.0	4,780.2	4,796.8	4,790.4	11.0	9.3	171.95	-58.4	214.3	189.4	172.6	16.79	11.284		
4,900.0	4,879.7	4,896.7	4,890.2	11.3	9.5	171.95	-59.8	219.7	193.8	176.7	17.14	11.311		
5,000.0	4,979.2	4,996.6	4,989.9	11.5	9.7	171.95	-61.2	225.0	198.3	180.8	17.49	11.336		
5,100.0	5,078.7	5,096.5	5,089.7	11.8	9.9	171.96	-62.6	230.4	202.7	184.9	17.84	11.361		

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 1F-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 1F-14H-G268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1E-14H-G268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,178.3	5,196.4	5,189.4	12.0	10.1	171.96	-64.0	235.8	207.1	188.9	18.20	11.384		
5,300.0	5,277.8	5,296.3	5,289.2	12.3	10.3	171.96	-65.4	241.2	211.6	193.0	18.55	11.407		
5,400.0	5,377.3	5,396.2	5,388.9	12.5	10.5	171.96	-66.8	246.5	216.0	197.1	18.90	11.429		
5,500.0	5,476.8	5,496.1	5,488.7	12.8	10.7	171.97	-68.2	251.9	220.4	201.2	19.25	11.450		
5,600.0	5,576.3	5,596.0	5,588.4	13.0	10.9	171.97	-69.6	257.3	224.9	205.3	19.60	11.470		
5,700.0	5,675.8	5,695.9	5,688.2	13.2	11.1	171.97	-71.1	262.7	229.3	209.3	19.96	11.490		
5,800.0	5,775.3	5,795.8	5,787.9	13.5	11.3	171.97	-72.5	268.0	233.7	213.4	20.31	11.509		
5,900.0	5,874.8	5,895.7	5,887.6	13.7	11.5	171.97	-73.9	273.4	238.2	217.5	20.66	11.527		
6,000.0	5,974.3	5,995.6	5,987.4	14.0	11.7	171.98	-75.3	278.8	242.6	221.6	21.01	11.544		
6,100.0	6,073.8	6,095.5	6,087.1	14.2	11.9	171.98	-76.7	284.2	247.0	225.7	21.37	11.562		
6,200.0	6,173.3	6,195.4	6,186.9	14.5	12.1	171.98	-78.1	289.5	251.5	229.7	21.72	11.578		
6,300.0	6,272.8	6,295.3	6,286.6	14.7	12.3	171.98	-79.5	294.9	255.9	233.8	22.07	11.594		
6,400.0	6,372.3	6,395.2	6,386.4	15.0	12.5	171.98	-80.9	300.3	260.3	237.9	22.42	11.609		
6,500.0	6,471.9	6,495.1	6,486.1	15.2	12.7	171.98	-82.3	305.7	264.7	242.0	22.77	11.624		
6,600.0	6,571.4	6,595.0	6,585.9	15.5	12.9	171.99	-83.7	311.1	269.2	246.1	23.13	11.639		
6,700.0	6,670.8	6,694.7	6,685.5	15.7	13.1	-133.42	-85.1	316.4	273.6	250.2	23.48	11.653		
6,800.0	6,768.3	6,792.3	6,782.9	15.9	13.3	-113.84	-86.5	321.7	279.1	255.2	23.89	11.682		
6,900.0	6,861.0	6,891.2	6,881.6	16.1	13.4	-112.71	-84.6	327.0	288.3	264.1	24.27	11.882		
7,000.0	6,946.1	6,998.9	6,987.1	16.4	13.6	-115.27	-64.5	332.7	301.3	276.9	24.39	12.355		
7,100.0	7,020.9	7,115.4	7,094.8	16.7	13.8	-118.61	-20.9	338.5	316.5	292.3	24.20	13.076		
7,200.0	7,083.3	7,241.9	7,199.1	17.1	14.1	-121.85	49.9	344.1	332.3	308.3	23.95	13.872		
7,300.0	7,131.3	7,378.8	7,291.6	17.6	14.6	-124.54	150.3	349.1	346.6	322.6	24.00	14.442		
7,400.0	7,163.4	7,525.3	7,361.3	18.3	15.5	-126.39	278.6	352.8	357.4	332.6	24.85	14.384		
7,500.0	7,178.7	7,678.4	7,397.0	19.2	16.8	-127.19	427.0	354.8	363.3	336.4	26.86	13.522		
7,600.0	7,180.0	7,799.3	7,400.0	20.1	18.0	-127.14	547.8	354.9	364.4	335.3	29.08	12.529		
7,700.0	7,180.0	7,899.3	7,400.0	21.1	19.2	-127.06	647.8	354.9	365.1	334.0	31.03	11.763		
7,800.0	7,180.0	7,999.3	7,400.0	22.3	20.4	-126.98	747.8	354.9	365.8	332.6	33.12	11.044		
7,900.0	7,180.0	8,099.3	7,400.0	23.5	21.7	-126.90	847.8	354.9	366.5	331.1	35.31	10.379		
8,000.0	7,180.0	8,199.3	7,400.0	24.7	23.1	-126.81	947.8	354.9	367.2	329.6	37.59	9.767		
8,100.0	7,180.0	8,299.3	7,400.0	26.1	24.5	-126.73	1,047.8	354.9	367.9	327.9	39.95	9.208		
8,200.0	7,180.0	8,399.3	7,400.0	27.4	25.9	-126.65	1,147.8	354.9	368.6	326.2	42.37	8.698		
8,300.0	7,180.0	8,499.3	7,400.0	28.9	27.4	-126.57	1,247.8	354.9	369.3	324.4	44.85	8.233		
8,400.0	7,180.0	8,599.3	7,400.0	30.3	28.9	-126.49	1,347.8	354.9	370.0	322.6	47.38	7.809		
8,500.0	7,180.0	8,699.3	7,400.0	31.8	30.5	-126.41	1,447.8	354.9	370.7	320.7	49.95	7.421		
8,600.0	7,180.0	8,799.3	7,400.0	33.3	32.1	-126.33	1,547.8	354.9	371.4	318.8	52.55	7.067		
8,700.0	7,180.0	8,899.3	7,400.0	34.8	33.6	-126.25	1,647.8	354.9	372.1	316.9	55.19	6.742		
8,800.0	7,180.0	8,999.3	7,400.0	36.4	35.2	-126.17	1,747.8	354.9	372.8	314.9	57.85	6.444		
8,900.0	7,180.0	9,099.3	7,400.0	38.0	36.9	-126.09	1,847.8	354.9	373.5	312.9	60.54	6.169		
9,000.0	7,180.0	9,199.3	7,400.0	39.5	38.5	-126.01	1,947.8	354.9	374.2	310.9	63.25	5.916		
9,100.0	7,180.0	9,299.3	7,400.0	41.1	40.1	-125.93	2,047.8	354.9	374.9	308.9	65.98	5.681		
9,200.0	7,180.0	9,399.3	7,400.0	42.7	41.8	-125.86	2,147.8	354.9	375.6	306.9	68.74	5.464		
9,300.0	7,180.0	9,499.3	7,400.0	44.4	43.4	-125.78	2,247.8	354.9	376.3	304.8	71.51	5.263		
9,400.0	7,180.0	9,599.3	7,400.0	46.0	45.1	-125.70	2,347.8	354.9	377.0	302.7	74.29	5.075		
9,500.0	7,180.0	9,699.3	7,400.0	47.6	46.8	-125.62	2,447.8	354.9	377.7	300.6	77.09	4.900		
9,600.0	7,180.0	9,799.3	7,400.0	49.3	48.4	-125.55	2,547.8	354.9	378.4	298.5	79.90	4.736		
9,700.0	7,180.0	9,899.3	7,400.0	50.9	50.1	-125.47	2,647.8	354.9	379.1	296.4	82.73	4.583		
9,800.0	7,180.0	9,999.3	7,400.0	52.6	51.8	-125.39	2,747.8	354.9	379.8	294.3	85.57	4.439		
9,900.0	7,180.0	10,099.3	7,400.0	54.3	53.5	-125.32	2,847.8	354.9	380.6	292.1	88.41	4.304		
10,000.0	7,180.0	10,199.3	7,400.0	55.9	55.2	-125.24	2,947.7	354.9	381.3	290.0	91.27	4.177		
10,100.0	7,180.0	10,299.3	7,400.0	57.6	56.9	-125.17	3,047.7	354.9	382.0	287.8	94.14	4.057		
10,200.0	7,180.0	10,399.2	7,400.0	59.3	58.6	-125.09	3,147.7	354.9	382.7	285.7	97.02	3.944		
10,300.0	7,180.0	10,499.2	7,400.0	61.0	60.3	-125.02	3,247.7	354.9	383.4	283.5	99.91	3.838		

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 1F-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 1F-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													Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1E-14H-G268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
10,400.0	7,180.0	10,599.2	7,400.0	62.7	62.0	-124.94	3,347.7	354.9	384.1	281.3	102.81	3.736		
10,500.0	7,180.0	10,699.2	7,400.0	64.4	63.7	-124.87	3,447.7	354.9	384.8	279.1	105.71	3.640		
10,600.0	7,180.0	10,799.2	7,400.0	66.1	65.4	-124.79	3,547.7	354.9	385.6	276.9	108.63	3.549		
10,700.0	7,180.0	10,899.2	7,400.0	67.8	67.1	-124.72	3,647.7	354.9	386.3	274.7	111.55	3.463		
10,800.0	7,180.0	10,999.2	7,400.0	69.5	68.9	-124.65	3,747.7	354.9	387.0	272.5	114.48	3.381		
10,900.0	7,180.0	11,099.2	7,400.0	71.2	70.6	-124.57	3,847.7	354.9	387.7	270.3	117.41	3.302		
11,000.0	7,180.0	11,199.2	7,400.0	72.9	72.3	-124.50	3,947.7	354.9	388.4	268.1	120.36	3.227		
11,100.0	7,180.0	11,299.2	7,400.0	74.6	74.0	-124.43	4,047.7	354.9	389.1	265.8	123.31	3.156		
11,200.0	7,180.0	11,399.2	7,400.0	76.3	75.7	-124.35	4,147.7	354.9	389.9	263.6	126.26	3.088		
11,300.0	7,180.0	11,499.2	7,400.0	78.0	77.5	-124.28	4,247.7	354.9	390.6	261.4	129.23	3.023		
11,400.0	7,180.0	11,599.2	7,400.0	79.7	79.2	-124.21	4,347.7	354.9	391.3	259.1	132.20	2.960		
11,500.0	7,180.0	11,699.2	7,400.0	81.5	80.9	-124.14	4,447.7	354.9	392.0	256.9	135.17	2.900		
11,600.0	7,180.0	11,799.2	7,400.0	83.2	82.6	-124.07	4,547.7	354.9	392.8	254.6	138.15	2.843		
11,700.0	7,180.0	11,899.2	7,400.0	84.9	84.4	-124.00	4,647.7	354.9	393.5	252.3	141.14	2.788		
11,800.0	7,180.0	11,999.2	7,400.0	86.6	86.1	-123.92	4,747.7	354.9	394.2	250.1	144.13	2.735		
11,900.0	7,180.0	12,099.2	7,400.0	88.3	87.8	-123.85	4,847.7	354.9	394.9	247.8	147.13	2.684		
12,000.0	7,180.0	12,199.2	7,400.0	90.1	89.6	-123.78	4,947.7	354.9	395.7	245.5	150.13	2.635		
12,100.0	7,180.0	12,299.2	7,400.0	91.8	91.3	-123.71	5,047.7	354.9	396.4	243.2	153.14	2.588		
12,200.0	7,180.0	12,399.2	7,400.0	93.5	93.0	-123.64	5,147.7	354.9	397.1	240.9	156.16	2.543		
12,300.0	7,180.0	12,499.2	7,400.0	95.2	94.8	-123.57	5,247.7	354.9	397.8	238.7	159.18	2.499		
12,400.0	7,180.0	12,599.2	7,400.0	97.0	96.5	-123.50	5,347.7	354.9	398.6	236.4	162.20	2.457		
12,500.0	7,180.0	12,699.2	7,400.0	98.7	98.2	-123.44	5,447.7	354.9	399.3	234.1	165.23	2.417		
12,600.0	7,180.0	12,799.2	7,400.0	100.4	100.0	-123.37	5,547.6	354.9	400.0	231.7	168.26	2.377		
12,700.0	7,180.0	12,899.2	7,400.0	102.2	101.7	-123.30	5,647.6	354.9	400.7	229.4	171.30	2.339		
12,800.0	7,180.0	12,999.1	7,400.0	103.9	103.4	-123.23	5,747.6	354.9	401.5	227.1	174.35	2.303		
12,900.0	7,180.0	13,099.1	7,400.0	105.6	105.2	-123.16	5,847.6	354.9	402.2	224.8	177.39	2.267		
13,000.0	7,180.0	13,199.1	7,400.0	107.4	106.9	-123.09	5,947.6	354.9	402.9	222.5	180.45	2.233		
13,100.0	7,180.0	13,299.1	7,400.0	109.1	108.7	-123.03	6,047.6	354.9	403.7	220.2	183.51	2.200		
13,200.0	7,180.0	13,399.1	7,400.0	110.8	110.4	-122.96	6,147.6	354.9	404.4	217.8	186.57	2.168		
13,300.0	7,180.0	13,499.1	7,400.0	112.6	112.1	-122.89	6,247.6	354.9	405.1	215.5	189.63	2.136		
13,400.0	7,180.0	13,599.1	7,400.0	114.3	113.9	-122.82	6,347.6	354.9	405.9	213.2	192.70	2.106		
13,500.0	7,180.0	13,699.1	7,400.0	116.0	115.6	-122.76	6,447.6	354.9	406.6	210.8	195.78	2.077		
13,600.0	7,180.0	13,799.1	7,400.0	117.8	117.4	-122.69	6,547.6	354.9	407.3	208.5	198.86	2.048		
13,700.0	7,180.0	13,899.1	7,400.0	119.5	119.1	-122.63	6,647.6	354.9	408.1	206.1	201.94	2.021		
13,800.0	7,180.0	13,999.1	7,400.0	121.2	120.8	-122.56	6,747.6	354.9	408.8	203.8	205.03	1.994		
13,900.0	7,180.0	14,099.1	7,400.0	123.0	122.6	-122.49	6,847.6	354.9	409.5	201.4	208.12	1.968		
14,000.0	7,180.0	14,199.1	7,400.0	124.7	124.3	-122.43	6,947.6	354.9	410.3	199.1	211.21	1.942		
14,100.0	7,180.0	14,299.1	7,400.0	126.4	126.1	-122.36	7,047.6	354.9	411.0	196.7	214.31	1.918		
14,200.0	7,180.0	14,399.1	7,400.0	128.2	127.8	-122.30	7,147.6	354.9	411.7	194.3	217.41	1.894		
14,300.0	7,180.0	14,499.1	7,400.0	129.9	129.6	-122.23	7,247.6	354.9	412.5	192.0	220.52	1.870		
14,352.6	7,180.0	14,551.7	7,400.0	130.8	130.5	-122.20	7,300.2	354.9	412.9	190.7	222.16	1.858 SF		

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 1F-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 1F-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													Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1G-14H-G268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	89.98	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	89.98	0.0	11.2	11.2	10.9	0.26	42.717		
200.0	200.0	200.0	200.0	0.3	0.3	89.98	0.0	11.2	11.2	10.6	0.61	18.307		
300.0	300.0	300.0	300.0	0.5	0.5	89.98	0.0	11.2	11.2	10.2	0.96	11.650	CC, ES	
400.0	400.0	399.8	399.8	0.7	0.7	90.35	-0.1	12.0	12.1	10.7	1.31	9.204		
500.0	500.0	499.6	499.5	0.8	0.8	-7.62	-0.3	14.6	13.8	12.1	1.66	8.321		
600.0	600.0	599.3	599.2	1.0	1.0	-7.65	-0.7	19.0	15.5	13.5	2.01	7.746		
700.0	699.9	699.0	698.7	1.2	1.2	-8.00	-1.3	25.0	17.3	14.9	2.35	7.343		
800.0	799.7	798.7	798.0	1.4	1.4	-8.58	-2.0	32.8	19.0	16.3	2.70	7.047		
900.0	899.4	898.3	897.2	1.6	1.7	-9.32	-2.8	42.3	20.8	17.8	3.05	6.819		
1,000.0	998.9	997.9	996.2	1.8	1.9	-10.15	-3.8	53.5	22.7	19.3	3.40	6.662		
1,100.0	1,098.4	1,097.4	1,094.9	2.0	2.2	-10.51	-5.0	66.4	25.9	22.1	3.76	6.883		
1,200.0	1,197.9	1,196.8	1,193.2	2.3	2.5	-10.37	-6.3	80.9	30.8	26.7	4.11	7.486		
1,300.0	1,297.4	1,296.7	1,291.8	2.5	2.8	-10.10	-7.7	96.4	36.5	32.0	4.46	8.176		
1,400.0	1,396.9	1,396.5	1,390.4	2.7	3.1	-9.91	-9.2	111.9	42.2	37.4	4.82	8.765		
1,500.0	1,496.5	1,496.4	1,489.1	3.0	3.4	-9.76	-10.6	127.3	47.9	42.8	5.17	9.274		
1,600.0	1,596.0	1,596.2	1,587.7	3.2	3.7	-9.65	-12.0	142.8	53.7	48.1	5.52	9.717		
1,700.0	1,695.5	1,696.0	1,686.3	3.5	4.0	-9.55	-13.4	158.2	59.4	53.5	5.87	10.107		
1,800.0	1,795.0	1,795.9	1,784.9	3.7	4.3	-9.48	-14.8	173.7	65.1	58.9	6.23	10.453		
1,900.0	1,894.5	1,895.7	1,883.5	3.9	4.6	-9.41	-16.2	189.1	70.8	64.2	6.58	10.762		
2,000.0	1,994.0	1,995.5	1,982.2	4.2	4.9	-9.36	-17.6	204.6	76.5	69.6	6.93	11.039		
2,100.0	2,093.5	2,095.4	2,080.8	4.4	5.3	-9.31	-19.0	220.0	82.3	75.0	7.29	11.290		
2,200.0	2,193.0	2,195.2	2,179.4	4.7	5.6	-9.27	-20.4	235.5	88.0	80.4	7.64	11.517		
2,300.0	2,292.5	2,295.0	2,278.0	4.9	5.9	-9.23	-21.8	251.0	93.7	85.7	7.99	11.724		
2,400.0	2,392.0	2,394.9	2,376.7	5.2	6.2	-9.20	-23.2	266.4	99.4	91.1	8.35	11.914		
2,500.0	2,491.5	2,494.7	2,475.3	5.4	6.5	-9.17	-24.6	281.9	105.2	96.5	8.70	12.088		
2,600.0	2,591.0	2,594.5	2,573.9	5.6	6.9	-9.15	-26.0	297.3	110.9	101.8	9.05	12.249		
2,700.0	2,690.5	2,694.4	2,672.5	5.9	7.2	-9.12	-27.4	312.8	116.6	107.2	9.41	12.397		
2,800.0	2,790.1	2,794.2	2,771.1	6.1	7.5	-9.10	-28.8	328.2	122.3	112.6	9.76	12.535		
2,900.0	2,889.6	2,894.1	2,869.8	6.4	7.8	-9.09	-30.3	343.7	128.1	117.9	10.11	12.663		
3,000.0	2,989.1	2,993.9	2,968.4	6.6	8.2	-9.07	-31.7	359.2	133.8	123.3	10.47	12.783		
3,100.0	3,088.6	3,093.7	3,067.0	6.9	8.5	-9.05	-33.1	374.6	139.5	128.7	10.82	12.895		
3,200.0	3,188.1	3,193.6	3,165.6	7.1	8.8	-9.04	-34.5	390.1	145.2	134.1	11.17	12.999		
3,300.0	3,287.6	3,293.4	3,264.3	7.4	9.1	-9.02	-35.9	405.5	151.0	139.4	11.53	13.098		
3,400.0	3,387.1	3,393.2	3,362.9	7.6	9.4	-9.01	-37.3	421.0	156.7	144.8	11.88	13.190		
3,500.0	3,486.6	3,493.1	3,461.5	7.8	9.8	-9.00	-38.7	436.4	162.4	150.2	12.23	13.277		
3,600.0	3,586.1	3,592.9	3,560.1	8.1	10.1	-8.99	-40.1	451.9	168.1	155.5	12.59	13.359		
3,700.0	3,685.6	3,692.7	3,658.7	8.3	10.4	-8.98	-41.5	467.4	173.9	160.9	12.94	13.437		
3,800.0	3,785.1	3,792.6	3,757.4	8.6	10.7	-8.97	-42.9	482.8	179.6	166.3	13.29	13.510		
3,900.0	3,884.6	3,892.4	3,856.0	8.8	11.1	-8.96	-44.3	498.3	185.3	171.7	13.65	13.580		
4,000.0	3,984.2	3,992.3	3,954.6	9.1	11.4	-8.95	-45.7	513.7	191.0	177.0	14.00	13.646		
4,100.0	4,083.7	4,092.1	4,053.2	9.3	11.7	-8.94	-47.1	529.2	196.8	182.4	14.35	13.709		
4,200.0	4,183.2	4,191.9	4,151.9	9.6	12.0	-8.94	-48.5	544.6	202.5	187.8	14.70	13.769		
4,300.0	4,282.7	4,291.8	4,250.5	9.8	12.4	-8.93	-49.9	560.1	208.2	193.1	15.06	13.827		
4,400.0	4,382.2	4,391.6	4,349.1	10.1	12.7	-8.92	-51.3	575.5	213.9	198.5	15.41	13.881		
4,500.0	4,481.7	4,491.4	4,447.7	10.3	13.0	-8.92	-52.8	591.0	219.6	203.9	15.76	13.933		
4,600.0	4,581.2	4,591.3	4,546.3	10.5	13.3	-8.91	-54.2	606.5	225.4	209.3	16.12	13.983		
4,700.0	4,680.7	4,691.1	4,645.0	10.8	13.7	-8.90	-55.6	621.9	231.1	214.6	16.47	14.031		
4,800.0	4,780.2	4,790.9	4,743.6	11.0	14.0	-8.90	-57.0	637.4	236.8	220.0	16.82	14.076		
4,900.0	4,879.7	4,890.8	4,842.2	11.3	14.3	-8.89	-58.4	652.8	242.5	225.4	17.18	14.120		
5,000.0	4,979.2	4,990.6	4,940.8	11.5	14.6	-8.89	-59.8	668.3	248.3	230.7	17.53	14.162		
5,100.0	5,078.7	5,090.4	5,039.5	11.8	14.9	-8.88	-61.2	683.7	254.0	236.1	17.88	14.202		

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 1F-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 1F-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													Offset Site Error:	0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - Grant-Hurt 1G-14H-G268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
5,200.0	5,178.3	5,190.3	5,138.1	12.0	15.3	-8.88	-62.6	699.2	259.7	241.5	18.24	14.241		
5,300.0	5,277.8	5,290.1	5,236.7	12.3	15.6	-8.88	-64.0	714.7	265.4	246.9	18.59	14.278		
5,400.0	5,377.3	5,390.0	5,335.3	12.5	15.9	-8.87	-65.4	730.1	271.2	252.2	18.94	14.314		
5,500.0	5,476.8	5,489.8	5,433.9	12.8	16.2	-8.87	-66.8	745.6	276.9	257.6	19.30	14.349		
5,600.0	5,576.3	5,589.6	5,532.6	13.0	16.6	-8.86	-68.2	761.0	282.6	263.0	19.65	14.382		
5,700.0	5,675.8	5,689.5	5,631.2	13.2	16.9	-8.86	-69.6	776.5	288.3	268.3	20.00	14.415		
5,800.0	5,775.3	5,789.3	5,729.8	13.5	17.2	-8.86	-71.0	791.9	294.1	273.7	20.36	14.446		
5,900.0	5,874.8	5,889.1	5,828.4	13.7	17.5	-8.85	-72.4	807.4	299.8	279.1	20.71	14.476		
6,000.0	5,974.3	5,989.0	5,927.1	14.0	17.9	-8.85	-73.9	822.8	305.5	284.4	21.06	14.505		
6,100.0	6,073.8	6,088.8	6,025.7	14.2	18.2	-8.85	-75.3	838.3	311.2	289.8	21.42	14.533		
6,200.0	6,173.3	6,188.6	6,124.3	14.5	18.5	-8.84	-76.7	853.8	317.0	295.2	21.77	14.560		
6,300.0	6,272.8	6,288.5	6,222.9	14.7	18.8	-8.84	-78.1	869.2	322.7	300.6	22.12	14.586		
6,400.0	6,372.3	6,388.3	6,321.5	15.0	19.2	-8.84	-79.5	884.7	328.4	305.9	22.48	14.612		
6,500.0	6,471.9	6,488.2	6,420.2	15.2	19.5	-8.83	-80.9	900.1	334.1	311.3	22.83	14.636		
6,600.0	6,571.4	6,588.0	6,518.8	15.5	19.8	-8.83	-82.3	915.6	339.9	316.7	23.18	14.660		
6,700.0	6,670.8	6,687.7	6,617.2	15.7	20.1	46.62	-83.7	931.0	345.5	322.0	23.50	14.702		
6,800.0	6,768.3	6,785.2	6,713.6	15.9	20.5	72.44	-85.1	946.1	351.6	327.9	23.69	14.839		
6,900.0	6,861.0	6,877.8	6,805.1	16.1	20.8	83.91	-86.4	960.5	360.8	336.8	24.00	15.034		
7,000.0	6,946.1	6,977.3	6,903.2	16.4	21.1	92.84	-82.4	975.8	376.0	351.4	24.58	15.295		
7,100.0	7,020.9	7,091.3	7,012.9	16.7	21.4	100.28	-57.3	993.0	395.7	370.4	25.35	15.608		
7,200.0	7,083.3	7,221.3	7,129.1	17.1	21.8	106.62	-2.7	1,011.2	417.6	391.6	26.06	16.025		
7,300.0	7,131.3	7,371.0	7,243.9	17.6	22.2	111.92	91.1	1,029.2	438.7	412.0	26.75	16.403		
7,400.0	7,163.4	7,542.6	7,340.8	18.3	23.0	115.91	231.1	1,044.4	455.3	428.0	27.37	16.634		
7,500.0	7,178.7	7,731.9	7,395.1	19.2	24.1	118.05	411.3	1,052.9	463.8	435.5	28.25	16.420		
7,600.0	7,180.0	7,868.6	7,400.0	20.1	25.0	118.32	547.8	1,053.7	463.8	433.8	29.98	15.469		
7,700.0	7,180.0	7,968.6	7,400.0	21.1	25.9	118.37	647.8	1,053.7	463.0	430.8	32.18	14.387		
7,800.0	7,180.0	8,068.6	7,400.0	22.3	26.8	118.42	747.8	1,053.7	462.3	427.7	34.52	13.392		
7,900.0	7,180.0	8,168.6	7,400.0	23.5	27.8	118.47	847.8	1,053.7	461.5	424.5	36.96	12.486		
8,000.0	7,180.0	8,268.6	7,400.0	24.7	28.9	118.52	947.8	1,053.7	460.7	421.2	39.49	11.667		
8,100.0	7,180.0	8,368.6	7,400.0	26.1	30.0	118.58	1,047.8	1,053.7	460.0	417.9	42.09	10.929		
8,200.0	7,180.0	8,468.6	7,400.0	27.4	31.2	118.63	1,147.8	1,053.7	459.2	414.5	44.74	10.263		
8,300.0	7,180.0	8,568.6	7,400.0	28.9	32.5	118.68	1,247.8	1,053.7	458.4	411.0	47.45	9.662		
8,400.0	7,180.0	8,668.6	7,400.0	30.3	33.8	118.73	1,347.8	1,053.7	457.7	407.5	50.19	9.119		
8,500.0	7,180.0	8,768.6	7,400.0	31.8	35.1	118.78	1,447.8	1,053.7	456.9	403.9	52.96	8.627		
8,600.0	7,180.0	8,868.6	7,400.0	33.3	36.5	118.84	1,547.8	1,053.7	456.1	400.4	55.77	8.179		
8,700.0	7,180.0	8,968.6	7,400.0	34.8	37.9	118.89	1,647.8	1,053.7	455.4	396.8	58.59	7.772		
8,800.0	7,180.0	9,068.6	7,400.0	36.4	39.3	118.94	1,747.8	1,053.7	454.6	393.2	61.43	7.400		
8,900.0	7,180.0	9,168.6	7,400.0	38.0	40.7	119.00	1,847.8	1,053.7	453.8	389.6	64.29	7.059		
9,000.0	7,180.0	9,268.6	7,400.0	39.5	42.2	119.05	1,947.8	1,053.7	453.1	385.9	67.17	6.746		
9,100.0	7,180.0	9,368.6	7,400.0	41.1	43.7	119.10	2,047.8	1,053.7	452.3	382.3	70.05	6.457		
9,200.0	7,180.0	9,468.6	7,400.0	42.7	45.2	119.16	2,147.8	1,053.7	451.6	378.6	72.94	6.190		
9,300.0	7,180.0	9,568.6	7,400.0	44.4	46.8	119.21	2,247.8	1,053.7	450.8	374.9	75.85	5.944		
9,400.0	7,180.0	9,668.6	7,400.0	46.0	48.3	119.27	2,347.8	1,053.7	450.0	371.3	78.76	5.714		
9,500.0	7,180.0	9,768.6	7,400.0	47.6	49.9	119.32	2,447.8	1,053.7	449.3	367.6	81.67	5.501		
9,600.0	7,180.0	9,868.6	7,400.0	49.3	51.4	119.38	2,547.8	1,053.7	448.5	363.9	84.59	5.302		
9,700.0	7,180.0	9,968.6	7,400.0	50.9	53.0	119.43	2,647.8	1,053.7	447.8	360.2	87.51	5.117		
9,800.0	7,180.0	10,068.6	7,400.0	52.6	54.6	119.48	2,747.8	1,053.7	447.0	356.6	90.44	4.943		
9,900.0	7,180.0	10,168.6	7,400.0	54.3	56.2	119.54	2,847.8	1,053.7	446.2	352.9	93.37	4.779		
10,000.0	7,180.0	10,268.5	7,400.0	55.9	57.8	119.60	2,947.7	1,053.7	445.5	349.2	96.30	4.626		
10,100.0	7,180.0	10,368.5	7,400.0	57.6	59.5	119.65	3,047.7	1,053.7	444.7	345.5	99.23	4.482		
10,200.0	7,180.0	10,468.5	7,400.0	59.3	61.1	119.71	3,147.7	1,053.7	444.0	341.8	102.16	4.346		
10,300.0	7,180.0	10,568.5	7,400.0	61.0	62.7	119.76	3,247.7	1,053.7	443.2	338.1	105.09	4.217		

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 1F-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 1F-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													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			
10,400.0	7,180.0	10,668.5	7,400.0	62.7	64.4	119.82	3,347.7	1,053.7	442.4	334.4	108.02	4.096			
10,500.0	7,180.0	10,768.5	7,400.0	64.4	66.0	119.87	3,447.7	1,053.7	441.7	330.7	110.96	3.981			
10,600.0	7,180.0	10,868.5	7,400.0	66.1	67.7	119.93	3,547.7	1,053.7	440.9	327.0	113.89	3.872			
10,700.0	7,180.0	10,968.5	7,400.0	67.8	69.3	119.99	3,647.7	1,053.7	440.2	323.4	116.82	3.768			
10,800.0	7,180.0	11,068.5	7,400.0	69.5	71.0	120.04	3,747.7	1,053.7	439.4	319.7	119.75	3.669			
10,900.0	7,180.0	11,168.5	7,400.0	71.2	72.7	120.10	3,847.7	1,053.7	438.7	316.0	122.68	3.576			
11,000.0	7,180.0	11,268.5	7,400.0	72.9	74.3	120.16	3,947.7	1,053.7	437.9	312.3	125.61	3.486			
11,100.0	7,180.0	11,368.5	7,400.0	74.6	76.0	120.22	4,047.7	1,053.7	437.2	308.6	128.53	3.401			
11,200.0	7,180.0	11,468.5	7,400.0	76.3	77.7	120.27	4,147.7	1,053.7	436.4	304.9	131.46	3.320			
11,300.0	7,180.0	11,568.5	7,400.0	78.0	79.4	120.33	4,247.7	1,053.7	435.6	301.3	134.38	3.242			
11,400.0	7,180.0	11,668.5	7,400.0	79.7	81.1	120.39	4,347.7	1,053.7	434.9	297.6	137.30	3.167			
11,500.0	7,180.0	11,768.5	7,400.0	81.5	82.7	120.45	4,447.7	1,053.7	434.1	293.9	140.22	3.096			
11,600.0	7,180.0	11,868.5	7,400.0	83.2	84.4	120.51	4,547.7	1,053.7	433.4	290.3	143.13	3.028			
11,700.0	7,180.0	11,968.5	7,400.0	84.9	86.1	120.57	4,647.7	1,053.7	432.6	286.6	146.05	2.962			
11,800.0	7,180.0	12,068.5	7,400.0	86.6	87.8	120.62	4,747.7	1,053.7	431.9	282.9	148.96	2.899			
11,900.0	7,180.0	12,168.5	7,400.0	88.3	89.5	120.68	4,847.7	1,053.7	431.1	279.3	151.86	2.839			
12,000.0	7,180.0	12,268.5	7,400.0	90.1	91.2	120.74	4,947.7	1,053.7	430.4	275.6	154.77	2.781			
12,100.0	7,180.0	12,368.5	7,400.0	91.8	92.9	120.80	5,047.7	1,053.7	429.6	272.0	157.67	2.725			
12,200.0	7,180.0	12,468.5	7,400.0	93.5	94.6	120.86	5,147.7	1,053.7	428.9	268.3	160.57	2.671			
12,300.0	7,180.0	12,568.5	7,400.0	95.2	96.3	120.92	5,247.7	1,053.7	428.1	264.7	163.46	2.619			
12,400.0	7,180.0	12,668.5	7,400.0	97.0	98.0	120.98	5,347.7	1,053.7	427.4	261.0	166.35	2.569			
12,500.0	7,180.0	12,768.5	7,400.0	98.7	99.8	121.04	5,447.7	1,053.7	426.6	257.4	169.24	2.521			
12,600.0	7,180.0	12,868.4	7,400.0	100.4	101.5	121.10	5,547.6	1,053.7	425.9	253.8	172.13	2.474			
12,700.0	7,180.0	12,968.4	7,400.0	102.2	103.2	121.16	5,647.6	1,053.7	425.1	250.1	175.01	2.429			
12,800.0	7,180.0	13,068.4	7,400.0	103.9	104.9	121.22	5,747.6	1,053.7	424.4	246.5	177.89	2.386			
12,900.0	7,180.0	13,168.4	7,400.0	105.6	106.6	121.29	5,847.6	1,053.7	423.7	242.9	180.76	2.344			
13,000.0	7,180.0	13,268.4	7,400.0	107.4	108.3	121.35	5,947.6	1,053.7	422.9	239.3	183.63	2.303			
13,100.0	7,180.0	13,368.4	7,400.0	109.1	110.0	121.41	6,047.6	1,053.7	422.2	235.7	186.50	2.264			
13,200.0	7,180.0	13,468.4	7,400.0	110.8	111.8	121.47	6,147.6	1,053.7	421.4	232.1	189.36	2.225			
13,300.0	7,180.0	13,568.4	7,400.0	112.6	113.5	121.53	6,247.6	1,053.7	420.7	228.5	192.22	2.188			
13,400.0	7,180.0	13,668.4	7,400.0	114.3	115.2	121.60	6,347.6	1,053.7	419.9	224.9	195.08	2.153			
13,500.0	7,180.0	13,768.4	7,400.0	116.0	116.9	121.66	6,447.6	1,053.7	419.2	221.3	197.93	2.118			
13,600.0	7,180.0	13,868.4	7,400.0	117.8	118.6	121.72	6,547.6	1,053.7	418.4	217.7	200.77	2.084			
13,700.0	7,180.0	13,968.4	7,400.0	119.5	120.4	121.78	6,647.6	1,053.7	417.7	214.1	203.62	2.051			
13,800.0	7,180.0	14,068.4	7,400.0	121.2	122.1	121.85	6,747.6	1,053.7	417.0	210.5	206.45	2.020			
13,900.0	7,180.0	14,168.4	7,400.0	123.0	123.8	121.91	6,847.6	1,053.7	416.2	206.9	209.29	1.989			
14,000.0	7,180.0	14,268.4	7,400.0	124.7	125.5	121.97	6,947.6	1,053.7	415.5	203.4	212.12	1.959			
14,100.0	7,180.0	14,368.4	7,400.0	126.4	127.3	122.04	7,047.6	1,053.7	414.7	199.8	214.94	1.930			
14,200.0	7,180.0	14,468.4	7,400.0	128.2	129.0	122.10	7,147.6	1,053.7	414.0	196.2	217.77	1.901			
14,300.0	7,180.0	14,568.4	7,400.0	129.9	130.7	122.17	7,247.6	1,053.7	413.3	192.7	220.58	1.873			
14,352.6	7,180.0	14,621.0	7,400.0	130.8	131.6	122.20	7,300.2	1,053.7	412.9	190.8	222.06	1.859 SF			

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 1F-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 1F-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	22.4	22.4					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	22.4	22.4	22.1	0.26	85.434		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	22.4	22.4	21.8	0.61	36.615 CC, ES		
300.0	300.0	299.6	299.6	0.5	0.5	90.15	-0.1	23.2	23.2	22.3	0.96	24.198		
400.0	400.0	399.1	399.1	0.7	0.7	90.53	-0.2	25.8	25.8	24.5	1.31	19.668		
500.0	500.0	498.6	498.5	0.8	0.8	-7.57	-0.5	30.1	29.3	27.7	1.66	17.700		
600.0	600.0	598.0	597.7	1.0	1.0	-7.58	-1.0	36.2	32.8	30.8	2.00	16.360		
700.0	699.9	697.3	696.7	1.2	1.3	-7.79	-1.5	43.9	36.3	33.9	2.35	15.418		
800.0	799.7	796.6	795.6	1.4	1.5	-8.16	-2.2	53.3	39.7	37.0	2.70	14.719		
900.0	899.4	895.9	894.1	1.6	1.7	-8.64	-2.9	64.5	43.2	40.2	3.05	14.179		
1,000.0	998.9	995.0	992.5	1.8	2.0	-9.20	-3.8	77.3	46.8	43.4	3.40	13.771 SF		
1,100.0	1,098.4	1,094.0	1,090.4	2.0	2.3	-9.58	-4.8	91.8	51.7	47.9	3.75	13.783		
1,200.0	1,197.9	1,192.9	1,187.9	2.3	2.6	-9.74	-6.0	108.0	58.3	54.2	4.10	14.212		
1,300.0	1,297.4	1,291.5	1,284.9	2.5	3.0	-9.72	-7.2	125.8	66.6	62.2	4.45	14.959		
1,400.0	1,396.9	1,389.7	1,381.2	2.7	3.3	-9.58	-8.6	145.1	76.6	71.8	4.80	15.954		
1,500.0	1,496.5	1,488.7	1,478.0	3.0	3.7	-9.40	-10.0	165.9	87.9	82.8	5.15	17.059		
1,600.0	1,596.0	1,588.1	1,575.1	3.2	4.1	-9.26	-11.5	186.8	99.3	93.8	5.51	18.035		
1,700.0	1,695.5	1,687.4	1,672.2	3.5	4.5	-9.15	-12.9	207.8	110.7	104.8	5.86	18.893		
1,800.0	1,795.0	1,786.8	1,769.3	3.7	4.9	-9.06	-14.4	228.7	122.1	115.9	6.21	19.655		
1,900.0	1,894.5	1,886.1	1,866.4	3.9	5.3	-8.98	-15.9	249.6	133.5	126.9	6.56	20.335		
2,000.0	1,994.0	1,985.5	1,963.5	4.2	5.7	-8.92	-17.3	270.6	144.8	137.9	6.91	20.945		
2,100.0	2,093.5	2,084.8	2,060.6	4.4	6.1	-8.86	-18.8	291.5	156.2	148.9	7.27	21.497		
2,200.0	2,193.0	2,184.2	2,157.7	4.7	6.5	-8.81	-20.3	312.4	167.6	160.0	7.62	21.998		
2,300.0	2,292.5	2,283.5	2,254.8	4.9	6.9	-8.77	-21.7	333.3	179.0	171.0	7.97	22.454		
2,400.0	2,392.0	2,382.9	2,352.0	5.2	7.3	-8.74	-23.2	354.3	190.4	182.0	8.32	22.872		
2,500.0	2,491.5	2,482.2	2,449.1	5.4	7.8	-8.70	-24.6	375.2	201.7	193.1	8.67	23.256		
2,600.0	2,591.0	2,581.6	2,546.2	5.6	8.2	-8.68	-26.1	396.1	213.1	204.1	9.03	23.610		
2,700.0	2,690.5	2,680.9	2,643.3	5.9	8.6	-8.65	-27.6	417.0	224.5	215.1	9.38	23.938		
2,800.0	2,790.1	2,780.3	2,740.4	6.1	9.0	-8.63	-29.0	438.0	235.9	226.1	9.73	24.242		
2,900.0	2,889.6	2,879.6	2,837.5	6.4	9.4	-8.60	-30.5	458.9	247.3	237.2	10.08	24.524		
3,000.0	2,989.1	2,979.0	2,934.6	6.6	9.8	-8.59	-31.9	479.8	258.6	248.2	10.43	24.788		
3,100.0	3,088.6	3,078.3	3,031.7	6.9	10.2	-8.57	-33.4	500.8	270.0	259.2	10.79	25.035		
3,200.0	3,188.1	3,177.7	3,128.8	7.1	10.6	-8.55	-34.9	521.7	281.4	270.3	11.14	25.265		
3,300.0	3,287.6	3,277.0	3,225.9	7.4	11.0	-8.54	-36.3	542.6	292.8	281.3	11.49	25.482		
3,400.0	3,387.1	3,376.4	3,323.1	7.6	11.4	-8.52	-37.8	563.5	304.2	292.3	11.84	25.686		
3,500.0	3,486.6	3,475.7	3,420.2	7.8	11.8	-8.51	-39.3	584.5	315.5	303.3	12.19	25.878		
3,600.0	3,586.1	3,575.1	3,517.3	8.1	12.3	-8.50	-40.7	605.4	326.9	314.4	12.55	26.060		
3,700.0	3,685.6	3,674.4	3,614.4	8.3	12.7	-8.49	-42.2	626.3	338.3	325.4	12.90	26.231		
3,800.0	3,785.1	3,773.8	3,711.5	8.6	13.1	-8.48	-43.6	647.2	349.7	336.4	13.25	26.393		
3,900.0	3,884.6	3,873.1	3,808.6	8.8	13.5	-8.47	-45.1	668.2	361.1	347.5	13.60	26.547		
4,000.0	3,984.2	3,972.5	3,905.7	9.1	13.9	-8.46	-46.6	689.1	372.4	358.5	13.95	26.694		
4,100.0	4,083.7	4,071.8	4,002.8	9.3	14.3	-8.45	-48.0	710.0	383.8	369.5	14.30	26.833		
4,200.0	4,183.2	4,171.2	4,099.9	9.6	14.7	-8.44	-49.5	730.9	395.2	380.5	14.66	26.965		
4,300.0	4,282.7	4,270.5	4,197.0	9.8	15.1	-8.43	-50.9	751.9	406.6	391.6	15.01	27.091		
4,400.0	4,382.2	4,369.9	4,294.2	10.1	15.5	-8.42	-52.4	772.8	418.0	402.6	15.36	27.211		
4,500.0	4,481.7	4,469.2	4,391.3	10.3	16.0	-8.42	-53.9	793.7	429.3	413.6	15.71	27.326		
4,600.0	4,581.2	4,568.6	4,488.4	10.5	16.4	-8.41	-55.3	814.7	440.7	424.7	16.06	27.436		
4,700.0	4,680.7	4,667.9	4,585.5	10.8	16.8	-8.40	-56.8	835.6	452.1	435.7	16.42	27.542		
4,800.0	4,780.2	4,767.3	4,682.6	11.0	17.2	-8.40	-58.3	856.5	463.5	446.7	16.77	27.642		
4,900.0	4,879.7	4,866.6	4,779.7	11.3	17.6	-8.39	-59.7	877.4	474.9	457.8	17.12	27.739		
5,000.0	4,979.2	4,966.0	4,876.8	11.5	18.0	-8.39	-61.2	898.4	486.3	468.8	17.47	27.832		
5,100.0	5,078.7	5,065.3	4,973.9	11.8	18.4	-8.38	-62.6	919.3	497.6	479.8	17.82	27.921		

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 1F-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 1F-14H-G268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1F-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 1F-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													Offset Site Error:	0.0 ft	
Survey Program: 8026-Geolink MWD													Offset Well Error:		0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - HURT 1 (EXISTING) - ENCANA WELL - NO SURVEY															
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			
10,200.0	7,180.0	7,170.0	7,170.0	59.3	12.5	-90.00	3,547.4	523.0	425.2	354.4	70.74	6.010			
10,300.0	7,180.0	7,170.0	7,170.0	61.0	12.5	-90.00	3,547.4	523.0	333.3	260.8	72.46	4.600			
10,400.0	7,180.0	7,170.0	7,170.0	62.7	12.5	-90.00	3,547.4	523.0	247.8	173.6	74.18	3.341			
10,500.0	7,180.0	7,170.0	7,170.0	64.4	12.5	-90.00	3,547.4	523.0	178.2	102.3	75.90	2.347			
10,598.4	7,180.0	7,170.0	7,170.0	66.0	12.5	-90.00	3,547.4	523.0	148.5	70.9	77.59	1.914 CC			
10,600.0	7,180.0	7,170.0	7,170.0	66.1	12.5	-90.00	3,547.4	523.0	148.5	70.9	77.62	1.914 ES, SF			
10,700.0	7,180.0	7,170.0	7,170.0	67.8	12.5	-90.00	3,547.4	523.0	180.0	100.6	79.35	2.268			
10,800.0	7,180.0	7,170.0	7,170.0	69.5	12.5	-90.00	3,547.4	523.0	250.4	169.4	81.07	3.089			
10,900.0	7,180.0	7,170.0	7,170.0	71.2	12.5	-90.00	3,547.4	523.0	336.2	253.4	82.80	4.061			
11,000.0	7,180.0	7,170.0	7,170.0	72.9	12.5	-90.00	3,547.4	523.0	428.2	343.7	84.53	5.066			

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 1F-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 1F-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													Offset Site Error:	0.0 ft		
Survey Program: 70-MWD													S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) - HURT 43-11 (EXISTING) - ENCANA WELL - SURVEY		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)						
11,000.0	7,180.0	7,480.0	7,128.1	72.9	37.4	75.75	4,373.4	747.8	432.3	334.6	97.70	4.424				
11,100.0	7,180.0	7,482.0	7,130.1	74.6	37.4	77.35	4,373.5	747.8	334.0	234.0	99.98	3.341				
11,200.0	7,180.0	7,486.3	7,134.3	76.3	37.4	80.73	4,373.7	747.9	237.2	134.5	102.72	2.309				
11,300.0	7,180.0	7,490.6	7,138.7	78.0	37.4	84.28	4,373.9	748.0	144.6	39.5	105.18	1.375	Level 3			
11,400.0	7,180.0	7,495.1	7,143.1	79.7	37.4	87.96	4,374.1	748.1	74.4	-32.9	107.30	0.693	Level 1			
11,427.1	7,180.0	7,496.3	7,144.4	80.2	37.4	88.98	4,374.2	748.1	69.3	-38.5	107.80	0.643	Level 1, CC, ES, SF			
11,500.0	7,180.0	7,499.7	7,147.7	81.5	37.4	91.76	4,374.3	748.2	100.6	-8.4	109.00	0.923	Level 1			
11,600.0	7,180.0	7,504.4	7,152.5	83.2	37.5	95.65	4,374.5	748.2	186.1	75.9	110.22	1.689				
11,700.0	7,180.0	7,509.3	7,157.4	84.9	37.5	99.59	4,374.8	748.3	281.3	170.4	110.93	2.536				
11,800.0	7,180.0	7,514.4	7,162.4	86.6	37.5	103.55	4,375.0	748.4	378.9	267.8	111.10	3.411				
11,900.0	7,180.0	7,519.6	7,167.6	88.3	37.5	107.50	4,375.3	748.5	477.5	366.7	110.72	4.312				

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 1F-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 1F-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												Offset Site Error:	0.0 ft	
Survey Program: 70-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	
9,200.0	7,180.0	7,414.4	7,143.9	42.7	31.6	88.84	2,559.2	907.6	480.6	424.6	55.97	8.586		
9,300.0	7,180.0	7,415.6	7,145.2	44.4	31.6	89.13	2,559.3	907.6	397.8	340.1	57.64	6.900		
9,400.0	7,180.0	7,416.9	7,146.4	46.0	31.6	89.42	2,559.3	907.6	324.8	265.5	59.32	5.475		
9,500.0	7,180.0	7,418.1	7,147.7	47.6	31.6	89.71	2,559.3	907.6	269.7	208.7	61.01	4.421		
9,600.0	7,180.0	7,419.4	7,148.9	49.3	31.6	90.00	2,559.3	907.6	245.0	182.3	62.70	3.908		
9,613.7	7,180.0	7,419.5	7,149.1	49.5	31.6	90.04	2,559.3	907.6	244.6	181.7	62.93	3.887	CC, ES, SF	
9,700.0	7,180.0	7,420.6	7,150.2	50.9	31.6	90.29	2,559.3	907.6	259.4	195.0	64.39	4.029		
9,800.0	7,180.0	7,421.9	7,151.4	52.6	31.6	90.59	2,559.3	907.6	307.5	241.4	66.08	4.653		
9,900.0	7,180.0	7,423.1	7,152.7	54.3	31.6	90.88	2,559.4	907.6	376.6	308.8	67.78	5.556		
10,000.0	7,180.0	7,424.4	7,153.9	55.9	31.6	91.17	2,559.4	907.6	457.2	387.8	69.47	6.581		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1F-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 1F-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

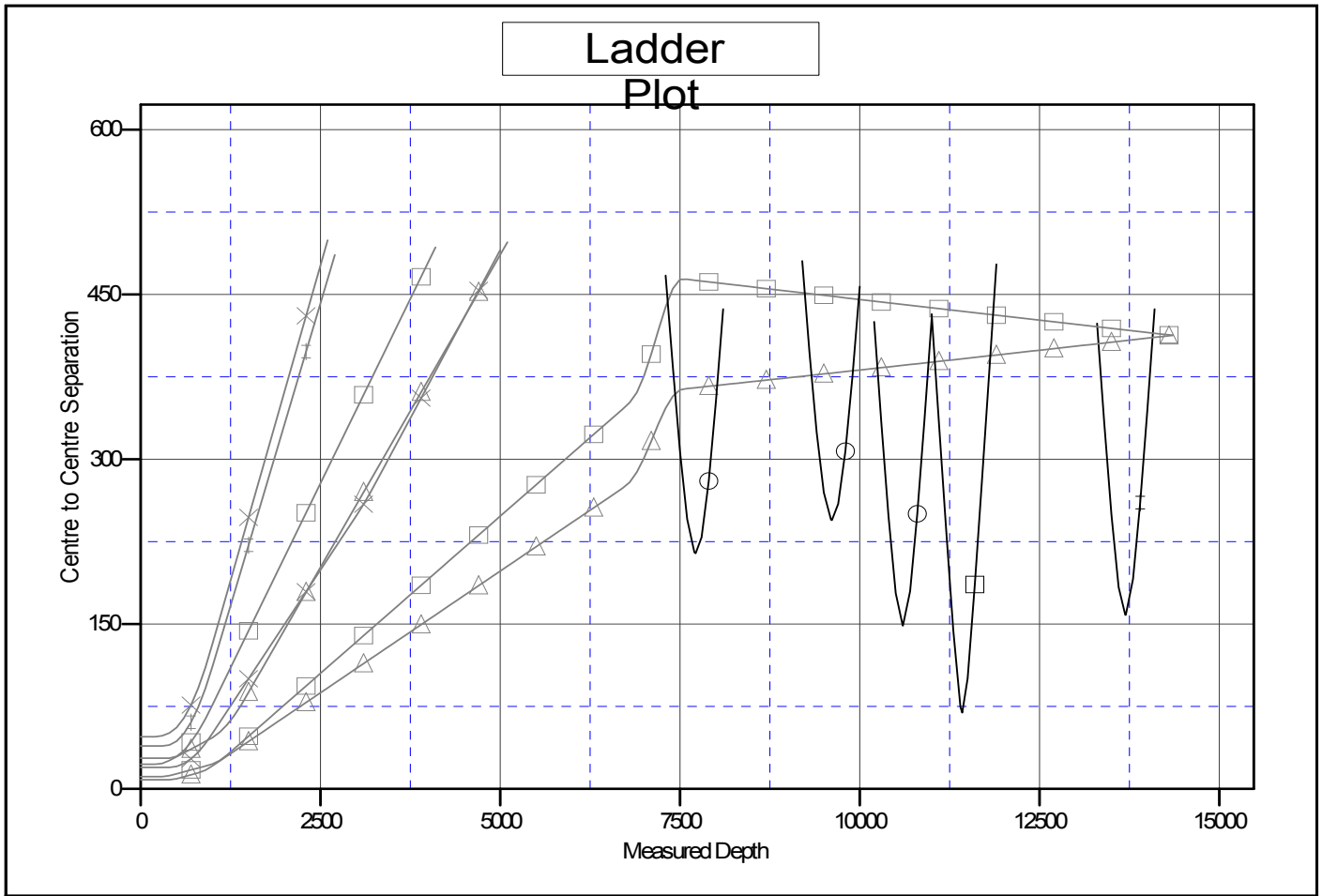
Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 655-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
7,300.0	7,131.3	7,213.5	7,111.8	17.6	19.5	49.82	665.3	861.3	467.3	442.7	24.64	18.963			
7,400.0	7,163.4	7,246.6	7,144.8	18.3	19.5	69.80	665.5	861.0	384.7	357.7	26.93	14.283			
7,500.0	7,178.7	7,262.4	7,160.7	19.2	19.5	86.29	665.5	860.8	307.0	278.3	28.65	10.713			
7,600.0	7,180.0	7,264.1	7,162.4	20.1	19.5	90.37	665.6	860.8	245.5	215.8	29.73	8.258			
7,700.0	7,180.0	7,264.5	7,162.7	21.1	19.5	90.47	665.6	860.8	215.3	184.3	30.97	6.951			
7,719.6	7,180.0	7,264.6	7,162.8	21.3	19.5	90.49	665.6	860.8	214.4	183.2	31.23	6.865	CC, ES, SF		
7,800.0	7,180.0	7,264.9	7,163.1	22.3	19.5	90.57	665.6	860.8	229.0	196.7	32.29	7.091			
7,900.0	7,180.0	7,265.2	7,163.5	23.5	19.5	90.66	665.6	860.8	280.2	246.5	33.68	8.320			
8,000.0	7,180.0	7,265.6	7,163.8	24.7	19.5	90.76	665.6	860.8	353.0	317.9	35.12	10.051			
8,100.0	7,180.0	7,265.9	7,164.2	26.1	19.5	90.86	665.6	860.8	436.7	400.1	36.60	11.931			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant-Hurt 1F-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 1F-14H-G268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

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



LEGEND

- | | | |
|------------------------------------|--|------------------------------------|
| (EXISTING), PDC WELL, NOSURVEYS V0 | ✕ Grant-Hurt 1D-14H-G268, Hz, Plan #1 V0 | ○ HURT 1 (EXISTING), ENCANA WELL |
| └─ Plan #1 V0 | ▲ Grant-Hurt 1E-14H-G268, Hz, Plan #1 V0 | ■ HURT 43-11 (EXISTING), ENCANA V |
| └─ Plan #1 V0 | ▣ Grant-Hurt 1G-14H-G268, Hz, Plan #1 V0 | ○ HURT 7-8-11 (EXISTING), ENCANA V |
| └─ Plan #1 V0 | ▲ Grant-Hurt 1H-14H-G268, Hz, Plan #1 V0 | ○ STANLEY OLSON 2 (EXISTING), WF |