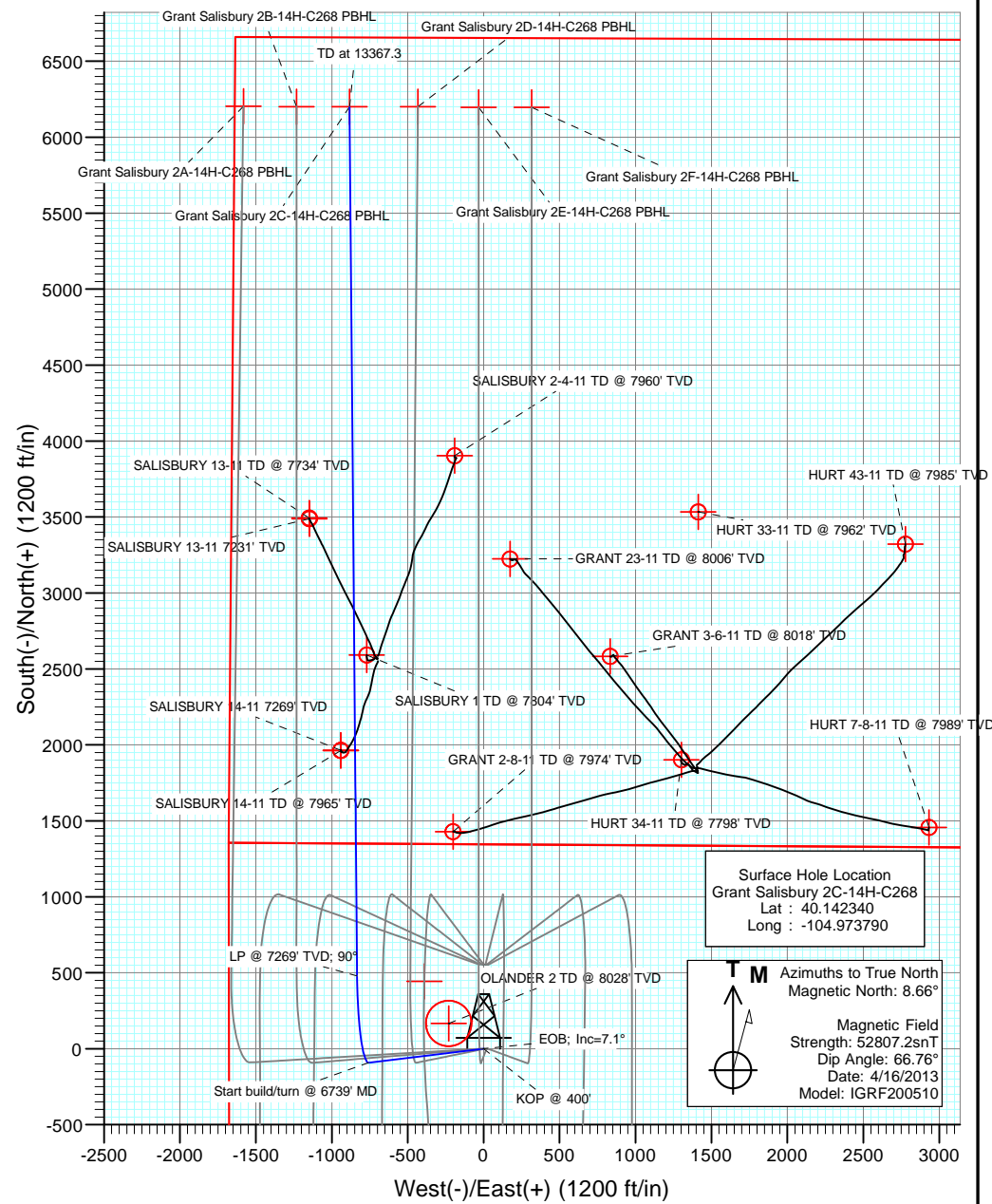
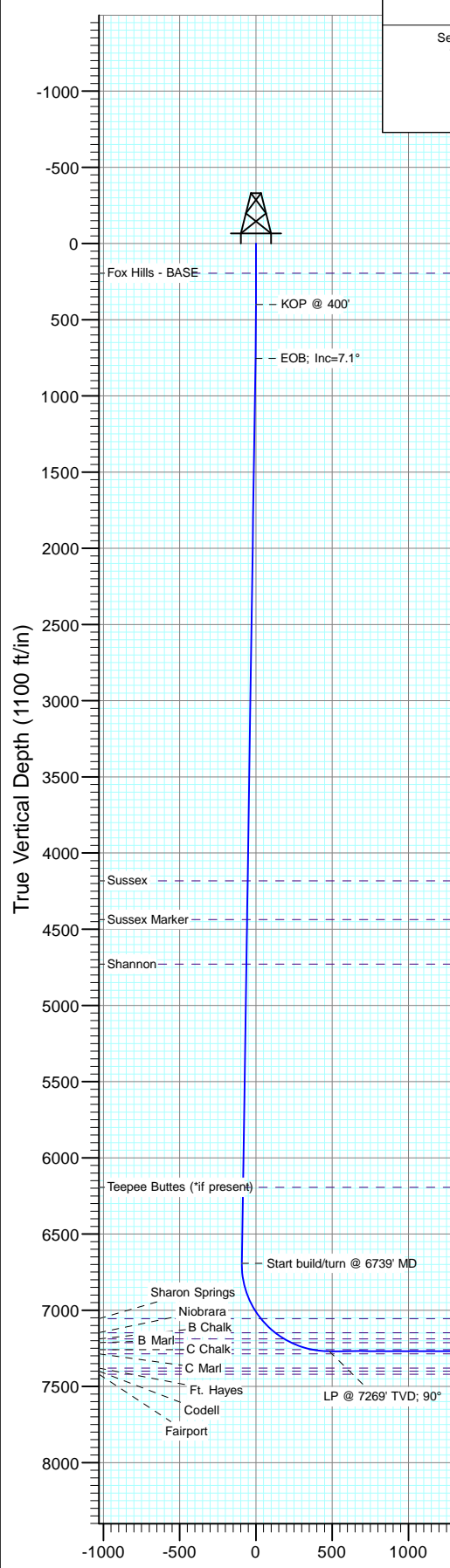




Project: DJ Wattenberg
 Site: S14-T2N-R68W (Grant Elmquist/Salisbury)
 Well: Grant Salisbury 2C-14H-C268
 Wellbore: Hz
 Design: Plan #1



SECTION DETAILS											Annotation
Sec	MD	Inc	Azi	TVD	+N-/S	+E-/W	Dleg	TFace	VSec	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	KOP @ 400'
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	0.0	EOB; Inc=7.1°
3	755.4	7.11	263.07	754.5	-2.7	-21.9	2.00	263.07	-2.7	-2.7	Start build/turn @ 6739' MD
4	6739.4	7.11	263.07	6692.5	-91.9	-756.9	0.00	0.00	-91.9	-91.9	LP @ 7269' TVD; 90°
5	7647.3	90.00	359.50	7269.0	480.3	-833.3	10.00	96.38	480.3	480.3	
6	13367.3	90.00	359.50	7269.0	6200.1	-883.2	0.00	0.00	6200.1	6200.1	Grant Salisbury 2C-14H-C268 PBHLTD at 13367.3



DESIGN TARGET DETAILS						
Name	+N-/S	+E-/W	Northing	Easting	Latitude	Longitude
Grant Salisbury 2C-14H-C268 PBHL	6200.1	-883.2	1301331.80	3146197.36	40.159360	-104.976950

Plan #1
 Grant Salisbury 2C-14H-C268
 13xxx: LR
 KB @ 4894.0ft
 Ground Elevation @ 4881.0
 North American Datum 1983
 Well Grant Salisbury 2C-14H-C268, True North

Vertical Section at 0.00° (1100 ft/in)

Cathedral Energy Services

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well Grant Salisbury 2C-14H-C268
Company: EnCana Oil & Gas (USA) Inc	TVD Reference: KB @ 4894.0ft
Project: DJ Wattenberg	MD Reference: KB @ 4894.0ft
Site: S14-T2N-R68W (Grant Elmquist/Salisbury)	North Reference: True
Well: Grant Salisbury 2C-14H-C268	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)					
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 Salisbury 2C-14H-C268						
Well Position	+N/-S	0.0 ft	Northing:	1,295,137.05 ft	Latitude:	40.142340
	+E/-W	0.0 ft	Easting:	3,147,117.36 ft	Longitude:	-104.973790
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,881.0 ft

Wellbore Hz					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	4/16/2013	(°)	(°)	(nT)
			8.66	66.76	52,807

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	
755.4	7.11	263.07	754.5	-2.7	-21.9	2.00	2.00	0.00	263.07	
6,739.4	7.11	263.07	6,692.5	-91.9	-756.9	0.00	0.00	0.00	0.00	
7,647.3	90.00	359.50	7,269.0	480.3	-833.3	10.00	9.13	10.62	96.38	
13,367.3	90.00	359.50	7,269.0	6,200.1	-883.2	0.00	0.00	0.00	0.00	Grant Salisbury 2C-14

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 4894.0ft
Project:	DJ Wattenberg	MD Reference:	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	North Reference:	True
Well:	Grant Salisbury 2C-14H-C268	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	
194.0	0.00	0.00	194.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	2.00	263.07	500.0	-0.2	-1.7	-0.2	2.00	2.00	
600.0	4.00	263.07	599.8	-0.8	-6.9	-0.8	2.00	2.00	
700.0	6.00	263.07	699.5	-1.9	-15.6	-1.9	2.00	2.00	
755.4	7.11	263.07	754.5	-2.7	-21.9	-2.7	2.00	2.00	EOB; Inc=7.1°
800.0	7.11	263.07	798.7	-3.3	-27.3	-3.3	0.00	0.00	
900.0	7.11	263.07	898.0	-4.8	-39.6	-4.8	0.00	0.00	
1,000.0	7.11	263.07	997.2	-6.3	-51.9	-6.3	0.00	0.00	
1,100.0	7.11	263.07	1,096.4	-7.8	-64.2	-7.8	0.00	0.00	
1,200.0	7.11	263.07	1,195.7	-9.3	-76.5	-9.3	0.00	0.00	
1,300.0	7.11	263.07	1,294.9	-10.8	-88.7	-10.8	0.00	0.00	
1,400.0	7.11	263.07	1,394.1	-12.3	-101.0	-12.3	0.00	0.00	
1,500.0	7.11	263.07	1,493.4	-13.8	-113.3	-13.8	0.00	0.00	
1,600.0	7.11	263.07	1,592.6	-15.3	-125.6	-15.3	0.00	0.00	
1,700.0	7.11	263.07	1,691.8	-16.7	-137.9	-16.7	0.00	0.00	
1,800.0	7.11	263.07	1,791.1	-18.2	-150.2	-18.2	0.00	0.00	
1,900.0	7.11	263.07	1,890.3	-19.7	-162.4	-19.7	0.00	0.00	
2,000.0	7.11	263.07	1,989.5	-21.2	-174.7	-21.2	0.00	0.00	
2,100.0	7.11	263.07	2,088.8	-22.7	-187.0	-22.7	0.00	0.00	
2,200.0	7.11	263.07	2,188.0	-24.2	-199.3	-24.2	0.00	0.00	
2,300.0	7.11	263.07	2,287.2	-25.7	-211.6	-25.7	0.00	0.00	
2,400.0	7.11	263.07	2,386.5	-27.2	-223.9	-27.2	0.00	0.00	
2,500.0	7.11	263.07	2,485.7	-28.7	-236.1	-28.7	0.00	0.00	
2,600.0	7.11	263.07	2,584.9	-30.2	-248.4	-30.2	0.00	0.00	
2,700.0	7.11	263.07	2,684.1	-31.7	-260.7	-31.7	0.00	0.00	
2,800.0	7.11	263.07	2,783.4	-33.2	-273.0	-33.2	0.00	0.00	
2,900.0	7.11	263.07	2,882.6	-34.7	-285.3	-34.7	0.00	0.00	
3,000.0	7.11	263.07	2,981.8	-36.1	-297.6	-36.1	0.00	0.00	
3,100.0	7.11	263.07	3,081.1	-37.6	-309.8	-37.6	0.00	0.00	
3,200.0	7.11	263.07	3,180.3	-39.1	-322.1	-39.1	0.00	0.00	
3,300.0	7.11	263.07	3,279.5	-40.6	-334.4	-40.6	0.00	0.00	
3,400.0	7.11	263.07	3,378.8	-42.1	-346.7	-42.1	0.00	0.00	
3,500.0	7.11	263.07	3,478.0	-43.6	-359.0	-43.6	0.00	0.00	
3,600.0	7.11	263.07	3,577.2	-45.1	-371.3	-45.1	0.00	0.00	
3,700.0	7.11	263.07	3,676.5	-46.6	-383.5	-46.6	0.00	0.00	
3,800.0	7.11	263.07	3,775.7	-48.1	-395.8	-48.1	0.00	0.00	
3,900.0	7.11	263.07	3,874.9	-49.6	-408.1	-49.6	0.00	0.00	
4,000.0	7.11	263.07	3,974.2	-51.1	-420.4	-51.1	0.00	0.00	
4,100.0	7.11	263.07	4,073.4	-52.6	-432.7	-52.6	0.00	0.00	
4,200.0	7.11	263.07	4,172.6	-54.1	-445.0	-54.1	0.00	0.00	
4,209.5	7.11	263.07	4,182.0	-54.2	-446.1	-54.2	0.00	0.00	Sussex
4,300.0	7.11	263.07	4,271.9	-55.5	-457.2	-55.5	0.00	0.00	
4,400.0	7.11	263.07	4,371.1	-57.0	-469.5	-57.0	0.00	0.00	
4,465.4	7.11	263.07	4,436.0	-58.0	-477.6	-58.0	0.00	0.00	Sussex Marker
4,500.0	7.11	263.07	4,470.3	-58.5	-481.8	-58.5	0.00	0.00	
4,600.0	7.11	263.07	4,569.5	-60.0	-494.1	-60.0	0.00	0.00	
4,700.0	7.11	263.07	4,668.8	-61.5	-506.4	-61.5	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 4894.0ft
Project:	DJ Wattenberg	MD Reference:	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	North Reference:	True
Well:	Grant Salisbury 2C-14H-C268	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
4,760.7	7.11	263.07	4,729.0	-62.4	-513.8	-62.4	0.00	0.00	Shannon
4,800.0	7.11	263.07	4,768.0	-63.0	-518.7	-63.0	0.00	0.00	
4,900.0	7.11	263.07	4,867.2	-64.5	-530.9	-64.5	0.00	0.00	
5,000.0	7.11	263.07	4,966.5	-66.0	-543.2	-66.0	0.00	0.00	
5,100.0	7.11	263.07	5,065.7	-67.5	-555.5	-67.5	0.00	0.00	
5,200.0	7.11	263.07	5,164.9	-69.0	-567.8	-69.0	0.00	0.00	
5,300.0	7.11	263.07	5,264.2	-70.5	-580.1	-70.5	0.00	0.00	
5,400.0	7.11	263.07	5,363.4	-72.0	-592.4	-72.0	0.00	0.00	
5,500.0	7.11	263.07	5,462.6	-73.5	-604.6	-73.5	0.00	0.00	
5,600.0	7.11	263.07	5,561.9	-74.9	-616.9	-74.9	0.00	0.00	
5,700.0	7.11	263.07	5,661.1	-76.4	-629.2	-76.4	0.00	0.00	
5,800.0	7.11	263.07	5,760.3	-77.9	-641.5	-77.9	0.00	0.00	
5,900.0	7.11	263.07	5,859.6	-79.4	-653.8	-79.4	0.00	0.00	
6,000.0	7.11	263.07	5,958.8	-80.9	-666.1	-80.9	0.00	0.00	
6,100.0	7.11	263.07	6,058.0	-82.4	-678.3	-82.4	0.00	0.00	
6,200.0	7.11	263.07	6,157.2	-83.9	-690.6	-83.9	0.00	0.00	
6,237.0	7.11	263.07	6,194.0	-84.4	-695.2	-84.4	0.00	0.00	Teepee Buttes (*if present)
6,300.0	7.11	263.07	6,256.5	-85.4	-702.9	-85.4	0.00	0.00	
6,400.0	7.11	263.07	6,355.7	-86.9	-715.2	-86.9	0.00	0.00	
6,500.0	7.11	263.07	6,454.9	-88.4	-727.5	-88.4	0.00	0.00	
6,600.0	7.11	263.07	6,554.2	-89.9	-739.8	-89.9	0.00	0.00	
6,700.0	7.11	263.07	6,653.4	-91.4	-752.0	-91.4	0.00	0.00	
6,739.4	7.11	263.07	6,692.5	-91.9	-756.9	-91.9	0.00	0.00	Start build/turn @ 6739' MD
6,800.0	8.80	306.35	6,752.6	-89.6	-764.3	-89.6	10.00	2.80	
6,900.0	16.78	335.25	6,850.1	-72.0	-776.6	-72.0	10.00	7.98	
7,000.0	26.17	344.90	6,943.1	-37.5	-788.4	-37.5	10.00	9.39	
7,100.0	35.88	349.64	7,028.7	12.8	-799.4	12.8	10.00	9.70	
7,133.2	39.12	350.74	7,055.0	32.7	-802.9	32.7	10.00	9.79	Sharon Springs
7,200.0	45.69	352.55	7,104.3	77.2	-809.4	77.2	10.00	9.83	
7,266.6	52.26	354.00	7,148.0	127.1	-815.2	127.1	10.00	9.87	Niobrara
7,300.0	55.57	354.63	7,167.7	154.0	-817.9	154.0	10.00	9.88	
7,337.8	59.30	355.28	7,188.0	185.7	-820.7	185.7	10.00	9.89	B Chalk
7,388.6	64.34	356.09	7,212.0	230.3	-824.1	230.3	10.00	9.90	B Marl
7,400.0	65.47	356.26	7,216.8	240.6	-824.7	240.6	10.00	9.91	
7,500.0	75.38	357.65	7,250.3	334.6	-829.7	334.6	10.00	9.91	
7,539.7	79.32	358.16	7,259.0	373.3	-831.1	373.3	10.00	9.92	C Chalk
7,600.0	85.30	358.92	7,267.1	433.0	-832.6	433.0	10.00	9.92	
7,647.3	90.00	359.50	7,269.0	480.3	-833.3	480.3	10.00	9.92	LP @ 7269' TVD; 90°
7,700.0	90.00	359.50	7,269.0	533.0	-833.8	533.0	0.00	0.00	
7,800.0	90.00	359.50	7,269.0	633.0	-834.6	633.0	0.00	0.00	
7,900.0	90.00	359.50	7,269.0	733.0	-835.5	733.0	0.00	0.00	
8,000.0	90.00	359.50	7,269.0	833.0	-836.4	833.0	0.00	0.00	
8,100.0	90.00	359.50	7,269.0	932.9	-837.3	932.9	0.00	0.00	
8,200.0	90.00	359.50	7,269.0	1,032.9	-838.1	1,032.9	0.00	0.00	
8,300.0	90.00	359.50	7,269.0	1,132.9	-839.0	1,132.9	0.00	0.00	
8,400.0	90.00	359.50	7,269.0	1,232.9	-839.9	1,232.9	0.00	0.00	
8,500.0	90.00	359.50	7,269.0	1,332.9	-840.7	1,332.9	0.00	0.00	
8,600.0	90.00	359.50	7,269.0	1,432.9	-841.6	1,432.9	0.00	0.00	
8,700.0	90.00	359.50	7,269.0	1,532.9	-842.5	1,532.9	0.00	0.00	
8,800.0	90.00	359.50	7,269.0	1,632.9	-843.4	1,632.9	0.00	0.00	
8,900.0	90.00	359.50	7,269.0	1,732.9	-844.2	1,732.9	0.00	0.00	
9,000.0	90.00	359.50	7,269.0	1,832.9	-845.1	1,832.9	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 4894.0ft
Project:	DJ Wattenberg	MD Reference:	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	North Reference:	True
Well:	Grant Salisbury 2C-14H-C268	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
9,100.0	90.00	359.50	7,269.0	1,932.9	-846.0	1,932.9	0.00	0.00	
9,200.0	90.00	359.50	7,269.0	2,032.9	-846.9	2,032.9	0.00	0.00	
9,300.0	90.00	359.50	7,269.0	2,132.9	-847.7	2,132.9	0.00	0.00	
9,400.0	90.00	359.50	7,269.0	2,232.9	-848.6	2,232.9	0.00	0.00	
9,500.0	90.00	359.50	7,269.0	2,332.9	-849.5	2,332.9	0.00	0.00	
9,600.0	90.00	359.50	7,269.0	2,432.9	-850.3	2,432.9	0.00	0.00	
9,700.0	90.00	359.50	7,269.0	2,532.9	-851.2	2,532.9	0.00	0.00	
9,800.0	90.00	359.50	7,269.0	2,632.9	-852.1	2,632.9	0.00	0.00	
9,900.0	90.00	359.50	7,269.0	2,732.9	-853.0	2,732.9	0.00	0.00	
10,000.0	90.00	359.50	7,269.0	2,832.9	-853.8	2,832.9	0.00	0.00	
10,100.0	90.00	359.50	7,269.0	2,932.9	-854.7	2,932.9	0.00	0.00	
10,200.0	90.00	359.50	7,269.0	3,032.9	-855.6	3,032.9	0.00	0.00	
10,300.0	90.00	359.50	7,269.0	3,132.9	-856.5	3,132.9	0.00	0.00	
10,400.0	90.00	359.50	7,269.0	3,232.9	-857.3	3,232.9	0.00	0.00	
10,500.0	90.00	359.50	7,269.0	3,332.9	-858.2	3,332.9	0.00	0.00	
10,600.0	90.00	359.50	7,269.0	3,432.9	-859.1	3,432.9	0.00	0.00	
10,700.0	90.00	359.50	7,269.0	3,532.8	-859.9	3,532.8	0.00	0.00	
10,800.0	90.00	359.50	7,269.0	3,632.8	-860.8	3,632.8	0.00	0.00	
10,900.0	90.00	359.50	7,269.0	3,732.8	-861.7	3,732.8	0.00	0.00	
11,000.0	90.00	359.50	7,269.0	3,832.8	-862.6	3,832.8	0.00	0.00	
11,100.0	90.00	359.50	7,269.0	3,932.8	-863.4	3,932.8	0.00	0.00	
11,200.0	90.00	359.50	7,269.0	4,032.8	-864.3	4,032.8	0.00	0.00	
11,300.0	90.00	359.50	7,269.0	4,132.8	-865.2	4,132.8	0.00	0.00	
11,400.0	90.00	359.50	7,269.0	4,232.8	-866.1	4,232.8	0.00	0.00	
11,500.0	90.00	359.50	7,269.0	4,332.8	-866.9	4,332.8	0.00	0.00	
11,600.0	90.00	359.50	7,269.0	4,432.8	-867.8	4,432.8	0.00	0.00	
11,700.0	90.00	359.50	7,269.0	4,532.8	-868.7	4,532.8	0.00	0.00	
11,800.0	90.00	359.50	7,269.0	4,632.8	-869.5	4,632.8	0.00	0.00	
11,900.0	90.00	359.50	7,269.0	4,732.8	-870.4	4,732.8	0.00	0.00	
12,000.0	90.00	359.50	7,269.0	4,832.8	-871.3	4,832.8	0.00	0.00	
12,100.0	90.00	359.50	7,269.0	4,932.8	-872.2	4,932.8	0.00	0.00	
12,200.0	90.00	359.50	7,269.0	5,032.8	-873.0	5,032.8	0.00	0.00	
12,300.0	90.00	359.50	7,269.0	5,132.8	-873.9	5,132.8	0.00	0.00	
12,400.0	90.00	359.50	7,269.0	5,232.8	-874.8	5,232.8	0.00	0.00	
12,500.0	90.00	359.50	7,269.0	5,332.8	-875.6	5,332.8	0.00	0.00	
12,600.0	90.00	359.50	7,269.0	5,432.8	-876.5	5,432.8	0.00	0.00	
12,700.0	90.00	359.50	7,269.0	5,532.8	-877.4	5,532.8	0.00	0.00	
12,800.0	90.00	359.50	7,269.0	5,632.8	-878.3	5,632.8	0.00	0.00	
12,900.0	90.00	359.50	7,269.0	5,732.8	-879.1	5,732.8	0.00	0.00	
13,000.0	90.00	359.50	7,269.0	5,832.8	-880.0	5,832.8	0.00	0.00	
13,100.0	90.00	359.50	7,269.0	5,932.8	-880.9	5,932.8	0.00	0.00	
13,200.0	90.00	359.50	7,269.0	6,032.8	-881.8	6,032.8	0.00	0.00	
13,300.0	90.00	359.50	7,269.0	6,132.8	-882.6	6,132.8	0.00	0.00	
13,367.3	90.00	359.50	7,269.0	6,200.1	-883.2	6,200.1	0.00	0.00	TD at 13367.3 - Grant Salisbury 2C-14H-C268 I

Cathedral Energy Services

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well Grant Salisbury 2C-14H-C268
Company: EnCana Oil & Gas (USA) Inc	TVD Reference: KB @ 4894.0ft
Project: DJ Wattenberg	MD Reference: KB @ 4894.0ft
Site: S14-T2N-R68W (Grant Elmquist/Salisbury)	North Reference: True
Well: Grant Salisbury 2C-14H-C268	Survey Calculation Method: Minimum Curvature
Wellbore: Hz	
Design: Plan #1	

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Grant Salisbury 2C-14H- - plan hits target center - Point	0.00	0.00	7,269.0	6,200.1	-883.2	1,301,331.80	3,146,197.36	40.159360	-104.976950

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
194.0	194.0	Fox Hills - BASE				
4,209.5	4,182.0	Sussex				
4,465.4	4,436.0	Sussex Marker				
4,760.7	4,729.0	Shannon				
6,237.0	6,194.0	Teepee Buttes (*if present)				
7,133.2	7,055.0	Sharon Springs				
7,266.6	7,148.0	Niobrara				
7,337.8	7,188.0	B Chalk				
7,388.6	7,212.0	B Marl				
7,539.7	7,259.0	C Chalk				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
		(ft)	(ft)		
400.0	400.0	0.0	0.0	KOP @ 400'	
755.4	754.5	-2.7	-21.9	EOB; Inc=7.1°	
6,739.4	6,692.5	-91.9	-756.9	Start build/turn @ 6739' MD	
7,647.3	7,269.0	480.3	-833.3	LP @ 7269' TVD; 90°	
13,367.3	7,269.0	6,200.1	-883.2	TD at 13367.3	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S14-T2N-R68W (Grant Elmquist/Salisbury)

Grant Salisbury 2C-14H-C268

Hz

Plan #1

Anticollision Report

08 May, 2013

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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	5/8/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	13,374.3	Plan #1 (Hz)	MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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)						
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
GRANT 23-11 (EXISTING) - EXISTING - SURVEYS						Out of range
GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS						Out of range
GRANT 3-6-11 (EXISTING) - EXISTING - SURVEYS						Out of range
Grant Elmquist 2A-14H-C268 - Hz - Plan #1						Out of range
Grant Elmquist 2B-14H-C268 - Hz - Plan #1	8,031.8	7,362.7	244.6	209.9	7.043	CC, ES, SF
Grant Elmquist 2C-14H-C268 - Hz - Plan #1	7,318.1	7,851.7	154.9	126.3	5.413	CC, ES, SF
Grant Elmquist 2D-14H-C268 - Hz - Plan #1	7,925.8	7,426.1	458.8	425.9	13.958	CC, ES
Grant Elmquist 2D-14H-C268 - Hz - Plan #1	8,100.0	7,300.0	471.8	436.3	13.294	SF
Grant Elmquist 2E-14H-C268 - Hz - Plan #1						Out of range
Grant Elmquist 2F-14H-C268 - Hz - Plan #1						Out of range
Grant Elmquist 2G-14H-C268 - Hz - Plan #1						Out of range
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	200.0	200.0	19.6	18.9	29.980	CC, ES
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	400.0	398.3	26.5	25.1	19.314	SF
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.162	CC, ES
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	13,367.3	13,388.2	351.4	130.1	1.588	SF
Grant Salisbury 2D-14H-C268 - Hz - Plan #1	400.0	400.0	8.4	7.0	6.209	CC
Grant Salisbury 2D-14H-C268 - Hz - Plan #1	600.0	600.6	8.5	6.4	4.136	ES
Grant Salisbury 2D-14H-C268 - Hz - Plan #1	13,367.3	13,471.5	471.6	258.9	2.217	SF
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	400.0	400.0	19.6	18.2	14.487	CC, ES
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	500.0	500.0	21.3	19.6	12.537	SF
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	400.0	400.0	28.0	26.6	20.695	CC, ES
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	600.0	599.8	34.9	32.8	17.055	SF
HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 33-11 (EXISTING) - EXISTING - NO SURVEY						Out of range
HURT 34-11 (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 43-11 (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 7-8-11 (EXISTING) - EXISTING - SURVEYS						Out of range
MDM 33-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
MDM 34-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
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	2,263.4	2,243.9	193.0	183.7	20.626	CC
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	2,300.0	2,280.2	193.1	183.6	20.277	ES
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	3,100.0	3,074.1	219.0	206.4	17.295	SF
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	9,752.2	7,234.2	81.5	26.4	1.480	Level 3, CC, ES, SF
SALISBURY 13-11 (EXISTING) - EXISTING - SURVEYS	10,658.5	7,354.1	288.0	202.9	3.384	CC, ES, SF
SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS	9,132.2	7,309.3	94.2	39.5	1.724	CC, ES, SF
SALISBURY 2-4-11 (EXISTING) - EXISTING - SURVEYS						Out of range

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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) - Grant Elmquist 2B-14H-C268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-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		
7,100.0	7,028.7	8,262.2	7,410.0	18.8	26.0	-119.38	16.1	-1,115.6	495.3	467.0	28.36	17.466		
7,200.0	7,104.3	8,197.8	7,410.0	19.1	25.6	-121.98	80.4	-1,114.9	432.2	404.5	27.65	15.632		
7,300.0	7,167.7	8,121.2	7,410.0	19.5	25.1	-121.77	157.1	-1,114.1	382.7	355.8	26.94	14.206		
7,400.0	7,216.8	8,034.6	7,410.0	20.0	24.6	-120.09	243.7	-1,113.2	347.2	320.6	26.55	13.073		
7,500.0	7,250.3	7,940.7	7,410.0	20.6	24.1	-118.13	337.6	-1,112.2	324.5	298.0	26.52	12.237		
7,600.0	7,267.1	7,842.3	7,410.0	21.3	23.8	-116.99	435.9	-1,111.2	313.1	286.5	26.59	11.775		
7,700.0	7,269.0	7,700.5	7,393.9	22.2	23.5	-114.58	576.4	-1,107.1	303.7	276.3	27.33	11.110		
7,800.0	7,269.0	7,572.1	7,350.3	23.1	23.4	-107.13	696.6	-1,098.9	283.8	254.1	29.65	9.570		
7,900.0	7,269.0	7,467.1	7,295.7	24.1	23.3	-96.01	785.7	-1,089.3	260.6	228.2	32.37	8.050		
8,000.0	7,269.0	7,384.8	7,242.2	25.2	23.3	-83.73	847.5	-1,080.2	245.7	211.4	34.35	7.154		
8,031.8	7,269.0	7,362.7	7,226.4	25.6	23.3	-79.98	862.7	-1,077.5	244.6	209.9	34.73	7.043	CC, ES, SF	
8,100.0	7,269.0	7,321.0	7,195.1	26.4	23.3	-72.57	889.6	-1,072.3	250.1	215.0	35.17	7.112		
8,200.0	7,269.0	7,271.3	7,155.3	27.6	23.3	-63.54	918.7	-1,065.6	278.8	243.6	35.22	7.917		
8,300.0	7,269.0	7,231.9	7,122.2	28.9	23.3	-56.62	939.1	-1,060.2	328.7	293.8	34.96	9.403		
8,400.0	7,269.0	7,200.0	7,094.3	30.2	23.3	-51.30	954.0	-1,055.6	393.6	358.9	34.65	11.356		
8,500.0	7,269.0	7,174.6	7,071.5	31.6	23.3	-47.34	964.7	-1,051.8	468.2	433.7	34.47	13.583		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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) - Grant Elmquist 2C-14H-C268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-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		
6,800.0	6,752.6	8,110.1	7,200.0	18.1	21.7	158.64	-90.2	-667.3	457.8	425.1	32.75	13.980		
6,900.0	6,850.1	8,092.5	7,200.0	18.3	21.5	145.73	-72.5	-667.2	366.6	331.8	34.75	10.550		
7,000.0	6,943.1	8,058.0	7,200.0	18.5	21.1	140.57	-38.1	-667.1	284.1	250.2	33.89	8.385		
7,100.0	7,028.7	8,007.8	7,200.0	18.8	20.6	132.70	12.1	-666.8	216.7	184.9	31.77	6.820		
7,200.0	7,104.3	7,943.4	7,200.0	19.1	20.0	120.05	76.5	-666.5	172.0	142.4	29.63	5.804		
7,300.0	7,167.7	7,866.7	7,200.0	19.5	19.4	103.10	153.2	-666.1	155.2	126.6	28.66	5.418		
7,318.1	7,177.7	7,851.7	7,200.0	19.6	19.3	99.85	168.2	-666.0	154.9	126.3	28.62	5.413	CC, ES, SF	
7,400.0	7,216.8	7,780.1	7,200.0	20.0	18.7	86.16	239.8	-665.6	160.0	131.6	28.40	5.635		
7,500.0	7,250.3	7,686.2	7,200.0	20.6	18.2	74.13	333.7	-665.1	172.1	144.3	27.84	6.183		
7,600.0	7,267.1	7,587.8	7,200.0	21.3	17.7	68.40	432.1	-664.6	180.9	153.7	27.26	6.637		
7,700.0	7,269.0	7,500.0	7,194.9	22.2	17.5	66.46	519.7	-663.6	186.0	158.6	27.43	6.781		
7,800.0	7,269.0	7,416.6	7,178.0	23.1	17.3	62.23	601.2	-661.5	198.1	170.5	27.65	7.166		
7,900.0	7,269.0	7,339.8	7,152.1	24.1	17.3	56.47	673.4	-658.6	220.2	192.7	27.55	7.995		
8,000.0	7,269.0	7,271.1	7,121.0	25.2	17.3	50.62	734.6	-655.2	253.8	226.6	27.25	9.314		
8,100.0	7,269.0	7,210.8	7,087.9	26.4	17.3	45.50	784.7	-651.6	298.7	271.8	26.92	11.097		
8,200.0	7,269.0	7,150.0	7,049.3	27.6	17.4	40.67	831.6	-647.6	353.7	327.3	26.45	13.372		
8,300.0	7,269.0	7,113.9	7,024.2	28.9	17.5	38.05	857.3	-645.0	416.6	390.1	26.54	15.698		
8,400.0	7,269.0	7,075.4	6,995.6	30.2	17.5	35.47	883.0	-642.0	486.2	459.6	26.53	18.323		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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-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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
7,300.0	7,167.7	8,055.2	7,410.0	19.5	17.3	117.85	153.3	-394.6	487.8	459.7	28.14	17.337			
7,400.0	7,216.8	7,974.6	7,410.0	20.0	16.6	113.89	233.9	-393.9	472.3	444.5	27.78	17.001			
7,500.0	7,250.3	7,881.5	7,410.0	20.6	16.0	110.23	327.0	-392.2	465.8	437.8	28.01	16.627			
7,574.4	7,264.4	7,808.5	7,410.0	21.1	15.5	108.41	399.9	-391.0	464.6	436.1	28.46	16.326			
7,600.0	7,267.1	7,783.1	7,410.0	21.3	15.4	108.02	425.3	-390.5	464.7	436.1	28.63	16.231			
7,700.0	7,269.0	7,663.7	7,401.1	22.2	15.0	106.51	544.1	-387.9	465.1	435.7	29.48	15.780			
7,800.0	7,269.0	7,548.5	7,369.7	23.1	14.9	102.60	654.8	-384.2	462.1	431.3	30.79	15.006			
7,900.0	7,269.0	7,449.0	7,325.3	24.1	14.9	97.05	743.6	-380.1	459.0	426.6	32.43	14.153			
7,925.8	7,269.0	7,426.1	7,313.0	24.4	14.9	95.50	762.8	-379.1	458.8	425.9	32.87	13.958 CC, ES			
8,000.0	7,269.0	7,366.9	7,277.6	25.2	15.0	91.07	810.1	-376.2	460.8	426.8	34.05	13.532			
8,100.0	7,269.0	7,300.0	7,231.9	26.4	15.2	85.43	858.9	-372.8	471.8	436.3	35.49	13.294 SF			
8,200.0	7,269.0	7,250.0	7,194.3	27.6	15.3	80.91	891.6	-370.0	494.6	457.9	36.77	13.453			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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) - Grant Salisbury 2A-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-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	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-19.6	19.6	19.3	0.30	64.441		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-19.6	19.6	18.9	0.65	29.980	CC, ES	
300.0	300.0	299.3	299.3	0.5	0.5	-90.28	-0.1	-21.3	21.3	20.3	1.00	21.213		
400.0	400.0	398.3	398.2	0.7	0.7	-90.89	-0.4	-26.4	26.5	25.1	1.37	19.314	SF	
500.0	500.0	497.1	496.5	0.9	0.9	5.69	-0.9	-34.9	33.4	31.7	1.69	19.698		
600.0	599.8	595.6	594.3	1.0	1.2	5.76	-1.6	-46.8	40.2	38.2	2.04	19.723		
700.0	699.5	693.8	691.4	1.3	1.5	6.06	-2.5	-62.0	47.1	44.7	2.39	19.730		
800.0	798.7	791.8	787.6	1.5	1.9	6.48	-3.6	-80.4	54.2	51.5	2.73	19.832		
900.0	898.0	889.7	883.1	1.7	2.3	6.68	-4.9	-102.0	64.1	61.1	3.08	20.809		
1,000.0	997.2	989.1	979.7	2.0	2.7	6.78	-6.3	-125.1	75.3	71.8	3.44	21.916		
1,100.0	1,096.4	1,088.4	1,076.3	2.3	3.1	6.86	-7.7	-148.2	86.4	82.6	3.79	22.816		
1,200.0	1,195.7	1,187.8	1,173.0	2.5	3.6	6.92	-9.1	-171.4	97.6	93.4	4.14	23.563		
1,300.0	1,294.9	1,287.2	1,269.6	2.8	4.0	6.96	-10.4	-194.5	108.7	104.2	4.49	24.192		
1,400.0	1,394.1	1,386.6	1,366.3	3.1	4.4	7.00	-11.8	-217.6	119.8	115.0	4.85	24.729		
1,500.0	1,493.4	1,486.0	1,462.9	3.3	4.9	7.03	-13.2	-240.7	131.0	125.8	5.20	25.193		
1,600.0	1,592.6	1,585.3	1,559.5	3.6	5.3	7.06	-14.6	-263.8	142.1	136.6	5.55	25.598		
1,700.0	1,691.8	1,684.7	1,656.2	3.9	5.8	7.08	-16.0	-286.9	153.3	147.4	5.90	25.954		
1,800.0	1,791.1	1,784.1	1,752.8	4.2	6.2	7.10	-17.3	-310.1	164.4	158.1	6.26	26.270		
1,900.0	1,890.3	1,883.5	1,849.5	4.4	6.7	7.11	-18.7	-333.2	175.5	168.9	6.61	26.553		
2,000.0	1,989.5	1,982.8	1,946.1	4.7	7.1	7.13	-20.1	-356.3	186.7	179.7	6.96	26.806		
2,100.0	2,088.8	2,082.2	2,042.8	5.0	7.6	7.14	-21.5	-379.4	197.8	190.5	7.32	27.035		
2,200.0	2,188.0	2,181.6	2,139.4	5.3	8.0	7.15	-22.8	-402.5	209.0	201.3	7.67	27.243		
2,300.0	2,287.2	2,281.0	2,236.0	5.5	8.5	7.16	-24.2	-425.6	220.1	212.1	8.02	27.433		
2,400.0	2,386.5	2,380.4	2,332.7	5.8	8.9	7.17	-25.6	-448.8	231.2	222.9	8.38	27.606		
2,500.0	2,485.7	2,479.7	2,429.3	6.1	9.3	7.18	-27.0	-471.9	242.4	233.6	8.73	27.766		
2,600.0	2,584.9	2,579.1	2,526.0	6.4	9.8	7.19	-28.4	-495.0	253.5	244.4	9.08	27.913		
2,700.0	2,684.1	2,678.5	2,622.6	6.7	10.2	7.20	-29.7	-518.1	264.7	255.2	9.44	28.049		
2,800.0	2,783.4	2,777.9	2,719.2	6.9	10.7	7.20	-31.1	-541.2	275.8	266.0	9.79	28.175		
2,900.0	2,882.6	2,877.2	2,815.9	7.2	11.1	7.21	-32.5	-564.3	286.9	276.8	10.14	28.293		
3,000.0	2,981.8	2,976.6	2,912.5	7.5	11.6	7.22	-33.9	-587.5	298.1	287.6	10.49	28.402		
3,100.0	3,081.1	3,076.0	3,009.2	7.8	12.0	7.22	-35.3	-610.6	309.2	298.4	10.85	28.504		
3,200.0	3,180.3	3,175.4	3,105.8	8.0	12.5	7.23	-36.6	-633.7	320.4	309.2	11.20	28.600		
3,300.0	3,279.5	3,274.7	3,202.5	8.3	12.9	7.23	-38.0	-656.8	331.5	319.9	11.55	28.690		
3,400.0	3,378.8	3,374.1	3,299.1	8.6	13.4	7.24	-39.4	-679.9	342.6	330.7	11.91	28.775		
3,500.0	3,478.0	3,473.5	3,395.7	8.9	13.8	7.24	-40.8	-703.0	353.8	341.5	12.26	28.855		
3,600.0	3,577.2	3,572.9	3,492.4	9.2	14.3	7.24	-42.2	-726.2	364.9	352.3	12.61	28.930		
3,700.0	3,676.5	3,672.3	3,589.0	9.4	14.7	7.25	-43.5	-749.3	376.1	363.1	12.97	29.001		
3,800.0	3,775.7	3,771.6	3,685.7	9.7	15.2	7.25	-44.9	-772.4	387.2	373.9	13.32	29.069		
3,900.0	3,874.9	3,871.0	3,782.3	10.0	15.6	7.25	-46.3	-795.5	398.3	384.7	13.67	29.133		
4,000.0	3,974.2	3,970.4	3,878.9	10.3	16.1	7.26	-47.7	-818.6	409.5	395.5	14.03	29.193		
4,100.0	4,073.4	4,069.8	3,975.6	10.5	16.5	7.26	-49.1	-841.7	420.6	406.2	14.38	29.251		
4,200.0	4,172.6	4,169.1	4,072.2	10.8	17.0	7.26	-50.4	-864.9	431.8	417.0	14.73	29.306		
4,300.0	4,271.9	4,268.5	4,168.9	11.1	17.4	7.26	-51.8	-888.0	442.9	427.8	15.09	29.358		
4,400.0	4,371.1	4,367.9	4,265.5	11.4	17.9	7.27	-53.2	-911.1	454.0	438.6	15.44	29.408		
4,500.0	4,470.3	4,467.3	4,362.2	11.7	18.3	7.27	-54.6	-934.2	465.2	449.4	15.79	29.456		
4,600.0	4,569.5	4,566.7	4,458.8	11.9	18.8	7.27	-56.0	-957.3	476.3	460.2	16.15	29.502		
4,700.0	4,668.8	4,666.0	4,555.4	12.2	19.2	7.27	-57.3	-980.5	487.5	471.0	16.50	29.545		
4,800.0	4,768.0	4,765.4	4,652.1	12.5	19.7	7.27	-58.7	-1,003.6	498.6	481.7	16.85	29.587		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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) - Grant Salisbury 2B-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total	Separation	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-11.2	11.2	10.9	0.30	36.823		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-11.2	11.2	10.5	0.65	17.132		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-11.2	11.2	10.2	1.00	11.162 CC, ES		
400.0	400.0	399.6	399.6	0.7	0.7	-90.64	-0.1	-12.9	12.9	11.6	1.35	9.548		
500.0	500.0	499.0	498.8	0.9	0.9	5.65	-0.6	-18.1	16.4	14.7	1.70	9.647		
600.0	599.8	598.3	597.8	1.0	1.1	5.61	-1.3	-26.6	19.8	17.8	2.04	9.700		
700.0	699.5	697.5	696.2	1.3	1.3	5.91	-2.3	-38.6	23.3	20.9	2.39	9.733		
800.0	798.7	796.6	794.1	1.5	1.6	6.33	-3.6	-54.0	27.0	24.3	2.74	9.871		
900.0	898.0	896.2	892.1	1.7	2.0	6.43	-5.0	-71.8	32.7	29.6	3.09	10.586		
1,000.0	997.2	996.0	990.3	2.0	2.3	6.49	-6.5	-89.8	38.5	35.1	3.44	11.183		
1,100.0	1,096.4	1,095.8	1,088.5	2.3	2.7	6.53	-8.0	-107.8	44.3	40.5	3.80	11.669		
1,200.0	1,195.7	1,195.7	1,186.6	2.5	3.0	6.56	-9.5	-125.7	50.1	46.0	4.15	12.072		
1,300.0	1,294.9	1,295.5	1,284.8	2.8	3.4	6.59	-11.0	-143.7	55.9	51.4	4.50	12.412		
1,400.0	1,394.1	1,395.3	1,383.0	3.1	3.7	6.61	-12.5	-161.7	61.7	56.8	4.86	12.702		
1,500.0	1,493.4	1,495.2	1,481.2	3.3	4.1	6.62	-14.0	-179.7	67.5	62.3	5.21	12.952		
1,600.0	1,592.6	1,595.0	1,579.4	3.6	4.4	6.64	-15.5	-197.7	73.3	67.7	5.56	13.171		
1,700.0	1,691.8	1,694.8	1,677.6	3.9	4.8	6.65	-17.0	-215.6	79.1	73.1	5.92	13.364		
1,800.0	1,791.1	1,794.7	1,775.8	4.2	5.2	6.66	-18.5	-233.6	84.9	78.6	6.27	13.535		
1,900.0	1,890.3	1,894.5	1,874.0	4.4	5.5	6.67	-20.0	-251.6	90.6	84.0	6.62	13.687		
2,000.0	1,989.5	1,994.3	1,972.2	4.7	5.9	6.68	-21.5	-269.6	96.4	89.5	6.98	13.825		
2,100.0	2,088.8	2,094.2	2,070.3	5.0	6.2	6.69	-23.0	-287.6	102.2	94.9	7.33	13.948		
2,200.0	2,188.0	2,194.0	2,168.5	5.3	6.6	6.69	-24.5	-305.6	108.0	100.3	7.68	14.061		
2,300.0	2,287.2	2,293.8	2,266.7	5.5	7.0	6.70	-26.0	-323.5	113.8	105.8	8.04	14.163		
2,400.0	2,386.5	2,393.7	2,364.9	5.8	7.3	6.70	-27.4	-341.5	119.6	111.2	8.39	14.257		
2,500.0	2,485.7	2,493.5	2,463.1	6.1	7.7	6.71	-28.9	-359.5	125.4	116.7	8.74	14.344		
2,600.0	2,584.9	2,593.3	2,561.3	6.4	8.0	6.71	-30.4	-377.5	131.2	122.1	9.10	14.423		
2,700.0	2,684.1	2,693.2	2,659.5	6.7	8.4	6.72	-31.9	-395.5	137.0	127.5	9.45	14.497		
2,800.0	2,783.4	2,793.0	2,757.7	6.9	8.8	6.72	-33.4	-413.4	142.8	133.0	9.80	14.565		
2,900.0	2,882.6	2,892.8	2,855.8	7.2	9.1	6.72	-34.9	-431.4	148.6	138.4	10.16	14.629		
3,000.0	2,981.8	2,992.7	2,954.0	7.5	9.5	6.73	-36.4	-449.4	154.4	143.8	10.51	14.688		
3,100.0	3,081.1	3,092.5	3,052.2	7.8	9.9	6.73	-37.9	-467.4	160.1	149.3	10.86	14.743		
3,200.0	3,180.3	3,192.3	3,150.4	8.0	10.2	6.73	-39.4	-485.4	165.9	154.7	11.22	14.795		
3,300.0	3,279.5	3,292.2	3,248.6	8.3	10.6	6.73	-40.9	-503.3	171.7	160.2	11.57	14.844		
3,400.0	3,378.8	3,392.0	3,346.8	8.6	10.9	6.74	-42.4	-521.3	177.5	165.6	11.92	14.890		
3,500.0	3,478.0	3,491.8	3,445.0	8.9	11.3	6.74	-43.9	-539.3	183.3	171.0	12.28	14.933		
3,600.0	3,577.2	3,591.7	3,543.2	9.2	11.7	6.74	-45.4	-557.3	189.1	176.5	12.63	14.974		
3,700.0	3,676.5	3,691.5	3,641.4	9.4	12.0	6.74	-46.9	-575.3	194.9	181.9	12.98	15.012		
3,800.0	3,775.7	3,791.3	3,739.5	9.7	12.4	6.74	-48.4	-593.2	200.7	187.4	13.34	15.049		
3,900.0	3,874.9	3,891.1	3,837.7	10.0	12.8	6.75	-49.9	-611.2	206.5	192.8	13.69	15.084		
4,000.0	3,974.2	3,991.0	3,935.9	10.3	13.1	6.75	-51.4	-629.2	212.3	198.2	14.04	15.116		
4,100.0	4,073.4	4,090.8	4,034.1	10.5	13.5	6.75	-52.8	-647.2	218.1	203.7	14.40	15.148		
4,200.0	4,172.6	4,190.6	4,132.3	10.8	13.9	6.75	-54.3	-665.2	223.9	209.1	14.75	15.178		
4,300.0	4,271.9	4,290.5	4,230.5	11.1	14.2	6.75	-55.8	-683.1	229.7	214.6	15.10	15.206		
4,400.0	4,371.1	4,390.3	4,328.7	11.4	14.6	6.75	-57.3	-701.1	235.4	220.0	15.46	15.233		
4,500.0	4,470.3	4,490.1	4,426.9	11.7	14.9	6.75	-58.8	-719.1	241.2	225.4	15.81	15.259		
4,600.0	4,569.5	4,590.0	4,525.0	11.9	15.3	6.76	-60.3	-737.1	247.0	230.9	16.16	15.284		
4,700.0	4,668.8	4,689.8	4,623.2	12.2	15.7	6.76	-61.8	-755.1	252.8	236.3	16.52	15.307		
4,800.0	4,768.0	4,789.6	4,721.4	12.5	16.0	6.76	-63.3	-773.0	258.6	241.7	16.87	15.330		
4,900.0	4,867.2	4,889.5	4,819.6	12.8	16.4	6.76	-64.8	-791.0	264.4	247.2	17.22	15.352		
5,000.0	4,966.5	4,989.3	4,917.8	13.0	16.8	6.76	-66.3	-809.0	270.2	252.6	17.58	15.373		
5,100.0	5,065.7	5,089.1	5,016.0	13.3	17.1	6.76	-67.8	-827.0	276.0	258.1	17.93	15.393		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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-MWD													Offset Well Error:		0.0 ft			
Reference													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	5,164.9	5,189.0	5,114.2	13.6	17.5	6.76	-69.3	-845.0	281.8	263.5	18.28	15.412						
5,300.0	5,264.2	5,288.8	5,212.4	13.9	17.9	6.76	-70.8	-862.9	287.6	268.9	18.64	15.430						
5,400.0	5,363.4	5,388.6	5,310.6	14.2	18.2	6.76	-72.3	-880.9	293.4	274.4	18.99	15.448						
5,500.0	5,462.6	5,488.5	5,408.7	14.4	18.6	6.76	-73.8	-898.9	299.2	279.8	19.34	15.465						
5,600.0	5,561.9	5,588.3	5,506.9	14.7	19.0	6.77	-75.3	-916.9	305.0	285.3	19.70	15.482						
5,700.0	5,661.1	5,688.1	5,605.1	15.0	19.3	6.77	-76.7	-934.9	310.7	290.7	20.05	15.498						
5,800.0	5,760.3	5,788.0	5,703.3	15.3	19.7	6.77	-78.2	-952.8	316.5	296.1	20.40	15.513						
5,900.0	5,859.6	5,887.8	5,801.5	15.6	20.0	6.77	-79.7	-970.8	322.3	301.6	20.76	15.528						
6,000.0	5,958.8	5,987.6	5,899.7	15.8	20.4	6.77	-81.2	-988.8	328.1	307.0	21.11	15.543						
6,100.0	6,058.0	6,087.5	5,997.9	16.1	20.8	6.77	-82.7	-1,006.8	333.9	312.4	21.46	15.557						
6,200.0	6,157.2	6,187.3	6,096.1	16.4	21.1	6.77	-84.2	-1,024.8	339.7	317.9	21.82	15.570						
6,300.0	6,256.5	6,287.1	6,194.2	16.7	21.5	6.77	-85.7	-1,042.7	345.5	323.3	22.17	15.583						
6,400.0	6,355.7	6,387.0	6,292.4	16.9	21.9	6.77	-87.2	-1,060.7	351.3	328.8	22.52	15.596						
6,500.0	6,454.9	6,486.8	6,390.6	17.2	22.2	6.77	-88.7	-1,078.7	357.1	334.2	22.88	15.608						
6,600.0	6,554.2	6,586.6	6,488.8	17.5	22.6	6.77	-90.2	-1,096.7	362.9	339.6	23.23	15.620						
6,700.0	6,653.4	6,686.4	6,587.0	17.8	23.0	6.77	-91.7	-1,114.7	368.7	345.1	23.58	15.632						
6,800.0	6,752.6	6,786.3	6,685.2	18.1	23.3	-36.18	-92.6	-1,132.7	374.4	350.5	23.92	15.655						
6,900.0	6,850.1	6,887.0	6,783.4	18.3	23.7	-64.78	-80.6	-1,150.6	380.1	355.9	24.17	15.723						
7,000.0	6,943.1	6,988.8	6,879.1	18.5	24.0	-74.11	-50.9	-1,168.2	385.3	360.9	24.44	15.769						
7,100.0	7,028.7	7,091.6	6,968.9	18.8	24.3	-78.48	-4.0	-1,184.6	390.1	365.3	24.81	15.727						
7,200.0	7,104.3	7,195.5	7,049.8	19.1	24.7	-80.97	59.2	-1,199.4	394.2	368.8	25.40	15.524						
7,300.0	7,167.7	7,300.2	7,118.7	19.5	25.0	-82.53	136.9	-1,212.0	397.5	371.2	26.29	15.120						
7,400.0	7,216.8	7,405.7	7,172.9	20.0	25.5	-83.54	226.7	-1,222.0	399.9	372.3	27.56	14.511						
7,500.0	7,250.3	7,511.7	7,210.1	20.6	26.0	-84.17	325.5	-1,228.8	401.2	372.0	29.19	13.744						
7,600.0	7,267.1	7,618.0	7,228.8	21.3	26.6	-84.50	430.0	-1,232.2	401.4	370.2	31.14	12.888						
7,700.0	7,269.0	7,721.1	7,231.0	22.2	27.3	-84.56	533.0	-1,232.6	400.6	367.3	33.36	12.010						
7,800.0	7,269.0	7,821.1	7,231.0	23.1	28.1	-84.55	633.0	-1,232.6	399.8	364.0	35.78	11.172						
7,900.0	7,269.0	7,921.1	7,231.0	24.1	28.9	-84.53	733.0	-1,232.6	398.9	360.5	38.37	10.395						
8,000.0	7,269.0	8,021.1	7,231.0	25.2	29.8	-84.52	833.0	-1,232.6	398.0	356.9	41.10	9.685						
8,100.0	7,269.0	8,121.1	7,231.0	26.4	30.8	-84.51	932.9	-1,232.6	397.2	353.2	43.93	9.041						
8,200.0	7,269.0	8,221.0	7,231.0	27.6	31.8	-84.50	1,032.9	-1,232.6	396.3	349.4	46.85	8.459						
8,300.0	7,269.0	8,321.0	7,231.0	28.9	33.0	-84.49	1,132.9	-1,232.6	395.4	345.6	49.84	7.933						
8,400.0	7,269.0	8,421.0	7,231.0	30.2	34.1	-84.47	1,232.9	-1,232.6	394.6	341.7	52.90	7.459						
8,500.0	7,269.0	8,521.0	7,231.0	31.6	35.3	-84.46	1,332.9	-1,232.6	393.7	337.7	56.00	7.030						
8,600.0	7,269.0	8,621.0	7,231.0	33.0	36.6	-84.45	1,432.9	-1,232.6	392.8	333.7	59.15	6.641						
8,700.0	7,269.0	8,721.0	7,231.0	34.5	37.9	-84.44	1,532.9	-1,232.6	392.0	329.6	62.34	6.287						
8,800.0	7,269.0	8,821.0	7,231.0	35.9	39.2	-84.42	1,632.9	-1,232.6	391.1	325.5	65.56	5.966						
8,900.0	7,269.0	8,921.0	7,231.0	37.4	40.6	-84.41	1,732.9	-1,232.6	390.2	321.4	68.80	5.672						
9,000.0	7,269.0	9,021.0	7,231.0	39.0	42.0	-84.40	1,832.9	-1,232.6	389.3	317.3	72.06	5.403						
9,100.0	7,269.0	9,121.0	7,231.0	40.5	43.4	-84.39	1,932.9	-1,232.6	388.5	313.1	75.35	5.156						
9,200.0	7,269.0	9,221.0	7,231.0	42.0	44.8	-84.37	2,032.9	-1,232.6	387.6	309.0	78.65	4.928						
9,300.0	7,269.0	9,321.0	7,231.0	43.6	46.3	-84.36	2,132.9	-1,232.6	386.7	304.8	81.97	4.718						
9,400.0	7,269.0	9,421.0	7,231.0	45.2	47.8	-84.35	2,232.9	-1,232.6	385.9	300.6	85.30	4.524						
9,500.0	7,269.0	9,521.0	7,231.0	46.8	49.3	-84.34	2,332.9	-1,232.6	385.0	296.4	88.65	4.343						
9,600.0	7,269.0	9,621.0	7,231.0	48.4	50.8	-84.32	2,432.9	-1,232.6	384.1	292.1	92.00	4.175						
9,700.0	7,269.0	9,721.0	7,231.0	50.0	52.4	-84.31	2,532.9	-1,232.6	383.3	287.9	95.37	4.019						
9,800.0	7,269.0	9,821.0	7,231.0	51.6	53.9	-84.30	2,632.9	-1,232.6	382.4	283.7	98.74	3.873						
9,900.0	7,269.0	9,921.0	7,231.0	53.3	55.5	-84.28	2,732.9	-1,232.6	381.5	279.4	102.12	3.736						
10,000.0	7,269.0	10,021.0	7,231.0	54.9	57.0	-84.27	2,832.9	-1,232.6	380.7	275.2	105.51	3.608						
10,100.0	7,269.0	10,121.0	7,231.0	56.6	58.6	-84.26	2,932.9	-1,232.6	379.8	270.9	108.90	3.488						
10,200.0	7,269.0	10,221.0	7,231.0	58.2	60.2	-84.24	3,032.9	-1,232.6	378.9	266.6	112.30	3.374						
10,300.0	7,269.0	10,321.0	7,231.0	59.9	61.8	-84.23	3,132.9	-1,232.6	378.1	262.4	115.70	3.267						

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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) - Grant Salisbury 2B-14H-C268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-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	7,269.0	10,421.0	7,231.0	61.5	63.4	-84.22	3,232.9	-1,232.6	377.2	258.1	119.11	3.167		
10,500.0	7,269.0	10,521.0	7,231.0	63.2	65.0	-84.20	3,332.9	-1,232.6	376.3	253.8	122.53	3.071		
10,600.0	7,269.0	10,621.0	7,231.0	64.9	66.7	-84.19	3,432.9	-1,232.6	375.5	249.5	125.94	2.981		
10,700.0	7,269.0	10,721.0	7,231.0	66.6	68.3	-84.18	3,532.8	-1,232.6	374.6	245.2	129.36	2.896		
10,800.0	7,269.0	10,820.9	7,231.0	68.2	69.9	-84.16	3,632.8	-1,232.6	373.7	240.9	132.79	2.814		
10,900.0	7,269.0	10,920.9	7,231.0	69.9	71.6	-84.15	3,732.8	-1,232.6	372.8	236.6	136.22	2.737		
11,000.0	7,269.0	11,020.9	7,231.0	71.6	73.2	-84.14	3,832.8	-1,232.6	372.0	232.3	139.64	2.664		
11,100.0	7,269.0	11,120.9	7,231.0	73.3	74.9	-84.12	3,932.8	-1,232.6	371.1	228.0	143.08	2.594		
11,200.0	7,269.0	11,220.9	7,231.0	75.0	76.5	-84.11	4,032.8	-1,232.6	370.2	223.7	146.51	2.527		
11,300.0	7,269.0	11,320.9	7,231.0	76.7	78.2	-84.09	4,132.8	-1,232.6	369.4	219.4	149.95	2.463		
11,400.0	7,269.0	11,420.9	7,231.0	78.4	79.9	-84.08	4,232.8	-1,232.6	368.5	215.1	153.39	2.402		
11,500.0	7,269.0	11,520.9	7,231.0	80.1	81.5	-84.07	4,332.8	-1,232.6	367.6	210.8	156.83	2.344		
11,600.0	7,269.0	11,620.9	7,231.0	81.8	83.2	-84.05	4,432.8	-1,232.6	366.8	206.5	160.27	2.288		
11,700.0	7,269.0	11,720.9	7,231.0	83.5	84.9	-84.04	4,532.8	-1,232.6	365.9	202.2	163.72	2.235		
11,800.0	7,269.0	11,820.9	7,231.0	85.2	86.6	-84.02	4,632.8	-1,232.6	365.0	197.9	167.16	2.184		
11,900.0	7,269.0	11,920.9	7,231.0	86.9	88.2	-84.01	4,732.8	-1,232.6	364.2	193.6	170.61	2.135		
12,000.0	7,269.0	12,020.9	7,231.0	88.6	89.9	-84.00	4,832.8	-1,232.6	363.3	189.2	174.06	2.087		
12,100.0	7,269.0	12,120.9	7,231.0	90.4	91.6	-83.98	4,932.8	-1,232.6	362.4	184.9	177.51	2.042		
12,200.0	7,269.0	12,220.9	7,231.0	92.1	93.3	-83.97	5,032.8	-1,232.6	361.6	180.6	180.96	1.998		
12,300.0	7,269.0	12,320.9	7,231.0	93.8	95.0	-83.95	5,132.8	-1,232.6	360.7	176.3	184.41	1.956		
12,400.0	7,269.0	12,420.9	7,231.0	95.5	96.7	-83.94	5,232.8	-1,232.6	359.8	172.0	187.86	1.915		
12,500.0	7,269.0	12,520.9	7,231.0	97.2	98.4	-83.92	5,332.8	-1,232.6	359.0	167.6	191.32	1.876		
12,600.0	7,269.0	12,620.9	7,231.0	99.0	100.1	-83.91	5,432.8	-1,232.6	358.1	163.3	194.77	1.839		
12,700.0	7,269.0	12,720.9	7,231.0	100.7	101.8	-83.89	5,532.8	-1,232.6	357.2	159.0	198.22	1.802		
12,800.0	7,269.0	12,820.9	7,231.0	102.4	103.5	-83.88	5,632.8	-1,232.6	356.4	154.7	201.68	1.767		
12,900.0	7,269.0	12,920.9	7,231.0	104.1	105.2	-83.86	5,732.8	-1,232.6	355.5	150.4	205.14	1.733		
13,000.0	7,269.0	13,020.9	7,231.0	105.8	106.9	-83.85	5,832.8	-1,232.6	354.6	146.0	208.60	1.700		
13,100.0	7,269.0	13,120.9	7,231.0	107.6	108.6	-83.83	5,932.8	-1,232.6	353.8	141.7	212.05	1.668		
13,200.0	7,269.0	13,220.9	7,231.0	109.3	110.3	-83.82	6,032.8	-1,232.6	352.9	137.4	215.51	1.637		
13,300.0	7,269.0	13,320.9	7,231.0	111.0	112.0	-83.80	6,132.8	-1,232.6	352.0	133.0	218.97	1.608		
13,367.3	7,269.0	13,388.2	7,231.0	112.2	113.2	-83.79	6,200.1	-1,232.6	351.4	130.1	221.30	1.588 SF		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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-MWD													Offset Well Error:		0.0 ft				
Reference													Semi Major Axis		Distance		Total	Separation	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor							
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	8.4	8.4										
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	8.4	8.4	8.1	0.30	27.617							
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	8.4	8.4	7.7	0.65	12.849							
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	8.4	8.4	7.4	1.00	8.372							
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	8.4	8.4	7.0	1.35	6.209 CC							
500.0	500.0	500.3	500.3	0.9	0.9	-172.12	-0.4	6.7	8.4	6.7	1.70	4.945							
600.0	599.8	600.6	600.4	1.0	1.0	-169.28	-1.4	1.5	8.5	6.4	2.05	4.136 ES							
700.0	699.5	700.6	700.2	1.3	1.2	-167.49	-2.9	-5.6	10.0	7.6	2.40	4.168							
800.0	798.7	800.5	799.8	1.5	1.4	-169.11	-4.3	-12.8	14.6	11.8	2.75	5.307							
900.0	898.0	900.3	899.4	1.7	1.7	-170.22	-5.8	-20.0	19.7	16.6	3.10	6.355							
1,000.0	997.2	1,000.2	999.0	2.0	1.9	-170.88	-7.3	-27.1	24.8	21.4	3.45	7.191							
1,100.0	1,096.4	1,100.1	1,098.6	2.3	2.1	-171.31	-8.7	-34.3	30.0	26.2	3.81	7.872							
1,200.0	1,195.7	1,199.9	1,198.2	2.5	2.3	-171.62	-10.2	-41.5	35.1	30.9	4.16	8.438							
1,300.0	1,294.9	1,299.8	1,297.8	2.8	2.5	-171.85	-11.6	-48.6	40.2	35.7	4.51	8.916							
1,400.0	1,394.1	1,399.7	1,397.4	3.1	2.7	-172.02	-13.1	-55.8	45.4	40.5	4.86	9.325							
1,500.0	1,493.4	1,499.6	1,497.0	3.3	2.9	-172.16	-14.6	-63.0	50.5	45.3	5.22	9.678							
1,600.0	1,592.6	1,599.4	1,596.6	3.6	3.1	-172.28	-16.0	-70.1	55.6	50.1	5.57	9.987							
1,700.0	1,691.8	1,699.3	1,696.2	3.9	3.3	-172.37	-17.5	-77.3	60.8	54.8	5.92	10.259							
1,800.0	1,791.1	1,799.2	1,795.8	4.2	3.6	-172.45	-19.0	-84.4	65.9	59.6	6.28	10.500							
1,900.0	1,890.3	1,899.0	1,895.4	4.4	3.8	-172.52	-20.4	-91.6	71.0	64.4	6.63	10.716							
2,000.0	1,989.5	1,998.9	1,995.0	4.7	4.0	-172.58	-21.9	-98.8	76.2	69.2	6.98	10.910							
2,100.0	2,088.8	2,098.8	2,094.6	5.0	4.2	-172.63	-23.4	-105.9	81.3	74.0	7.33	11.085							
2,200.0	2,188.0	2,198.6	2,194.2	5.3	4.4	-172.68	-24.8	-113.1	86.4	78.7	7.69	11.245							
2,300.0	2,287.2	2,298.5	2,293.8	5.5	4.6	-172.72	-26.3	-120.3	91.6	83.5	8.04	11.390							
2,400.0	2,386.5	2,398.4	2,393.4	5.8	4.9	-172.76	-27.7	-127.4	96.7	88.3	8.39	11.523							
2,500.0	2,485.7	2,498.2	2,493.0	6.1	5.1	-172.79	-29.2	-134.6	101.8	93.1	8.74	11.645							
2,600.0	2,584.9	2,598.1	2,592.6	6.4	5.3	-172.82	-30.7	-141.7	107.0	97.9	9.10	11.758							
2,700.0	2,684.1	2,698.0	2,692.2	6.7	5.5	-172.84	-32.1	-148.9	112.1	102.6	9.45	11.862							
2,800.0	2,783.4	2,797.8	2,791.8	6.9	5.7	-172.87	-33.6	-156.1	117.2	107.4	9.80	11.959							
2,900.0	2,882.6	2,897.7	2,891.4	7.2	5.9	-172.89	-35.1	-163.2	122.4	112.2	10.15	12.050							
3,000.0	2,981.8	2,997.6	2,991.0	7.5	6.1	-172.91	-36.5	-170.4	127.5	117.0	10.51	12.134							
3,100.0	3,081.1	3,097.4	3,090.6	7.8	6.4	-172.93	-38.0	-177.6	132.6	121.8	10.86	12.212							
3,200.0	3,180.3	3,197.3	3,190.2	8.0	6.6	-172.95	-39.5	-184.7	137.8	126.5	11.21	12.286							
3,300.0	3,279.5	3,297.2	3,289.8	8.3	6.8	-172.96	-40.9	-191.9	142.9	131.3	11.56	12.355							
3,400.0	3,378.8	3,397.0	3,389.4	8.6	7.0	-172.98	-42.4	-199.1	148.0	136.1	11.92	12.420							
3,500.0	3,478.0	3,496.9	3,489.0	8.9	7.2	-172.99	-43.8	-206.2	153.2	140.9	12.27	12.482							
3,600.0	3,577.2	3,596.8	3,588.6	9.2	7.4	-173.01	-45.3	-213.4	158.3	145.7	12.62	12.540							
3,700.0	3,676.5	3,696.7	3,688.2	9.4	7.7	-173.02	-46.8	-220.5	163.4	150.4	12.98	12.594							
3,800.0	3,775.7	3,796.5	3,787.8	9.7	7.9	-173.03	-48.2	-227.7	168.6	155.2	13.33	12.646							
3,900.0	3,874.9	3,896.4	3,887.4	10.0	8.1	-173.04	-49.7	-234.9	173.7	160.0	13.68	12.696							
4,000.0	3,974.2	3,996.3	3,987.0	10.3	8.3	-173.05	-51.2	-242.0	178.8	164.8	14.03	12.742							
4,100.0	4,073.4	4,096.1	4,086.6	10.5	8.5	-173.06	-52.6	-249.2	184.0	169.6	14.39	12.787							
4,200.0	4,172.6	4,196.0	4,186.2	10.8	8.7	-173.07	-54.1	-256.4	189.1	174.3	14.74	12.829							
4,300.0	4,271.9	4,295.9	4,285.8	11.1	9.0	-173.08	-55.6	-263.5	194.2	179.1	15.09	12.869							
4,400.0	4,371.1	4,395.7	4,385.4	11.4	9.2	-173.09	-57.0	-270.7	199.4	183.9	15.44	12.908							
4,500.0	4,470.3	4,495.6	4,485.0	11.7	9.4	-173.10	-58.5	-277.8	204.5	188.7	15.80	12.945							
4,600.0	4,569.5	4,595.5	4,584.6	11.9	9.6	-173.10	-59.9	-285.0	209.6	193.5	16.15	12.980							
4,700.0	4,668.8	4,695.3	4,684.2	12.2	9.8	-173.11	-61.4	-292.2	214.8	198.2	16.50	13.014							
4,800.0	4,768.0	4,795.2	4,783.8	12.5	10.0	-173.12	-62.9	-299.3	219.9	203.0	16.85	13.046							
4,900.0	4,867.2	4,895.1	4,883.4	12.8	10.2	-173.12	-64.3	-306.5	225.0	207.8	17.21	13.077							
5,000.0	4,966.5	4,994.9	4,983.0	13.0	10.5	-173.13	-65.8	-313.7	230.1	212.6	17.56	13.107							
5,100.0	5,065.7	5,094.8	5,082.6	13.3	10.7	-173.14	-67.3	-320.8	235.3	217.4	17.91	13.135							

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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-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	Warning									
5,200.0	5,164.9	5,194.7	5,182.2	13.6	10.9	-173.14	-68.7	-328.0	240.4	222.2	18.27	13.163										
5,300.0	5,264.2	5,294.5	5,281.8	13.9	11.1	-173.15	-70.2	-335.2	245.5	226.9	18.62	13.189										
5,400.0	5,363.4	5,394.4	5,381.4	14.2	11.3	-173.15	-71.7	-342.3	250.7	231.7	18.97	13.214										
5,500.0	5,462.6	5,494.3	5,481.0	14.4	11.5	-173.16	-73.1	-349.5	255.8	236.5	19.32	13.239										
5,600.0	5,561.9	5,594.1	5,580.6	14.7	11.8	-173.16	-74.6	-356.6	260.9	241.3	19.68	13.262										
5,700.0	5,661.1	5,694.0	5,680.2	15.0	12.0	-173.17	-76.0	-363.8	266.1	246.1	20.03	13.285										
5,800.0	5,760.3	5,793.9	5,779.8	15.3	12.2	-173.17	-77.5	-371.0	271.2	250.8	20.38	13.307										
5,900.0	5,859.6	5,893.8	5,879.4	15.6	12.4	-173.18	-79.0	-378.1	276.3	255.6	20.73	13.328										
6,000.0	5,958.8	5,993.6	5,979.0	15.8	12.6	-173.18	-80.4	-385.3	281.5	260.4	21.09	13.349										
6,100.0	6,058.0	6,093.5	6,078.6	16.1	12.8	-173.18	-81.9	-392.5	286.6	265.2	21.44	13.369										
6,200.0	6,157.2	6,193.4	6,178.2	16.4	13.1	-173.19	-83.4	-399.6	291.7	270.0	21.79	13.388										
6,300.0	6,256.5	6,293.2	6,277.8	16.7	13.3	-173.19	-84.8	-406.8	296.9	274.7	22.14	13.407										
6,400.0	6,355.7	6,393.1	6,377.4	16.9	13.5	-173.20	-86.3	-414.0	302.0	279.5	22.50	13.425										
6,500.0	6,454.9	6,493.0	6,477.0	17.2	13.7	-173.20	-87.7	-421.1	307.1	284.3	22.85	13.442										
6,600.0	6,554.2	6,592.8	6,576.6	17.5	13.9	-173.20	-89.2	-428.3	312.3	289.1	23.20	13.459										
6,700.0	6,653.4	6,692.7	6,676.2	17.8	14.1	-173.21	-90.7	-435.4	317.4	293.9	23.56	13.475										
6,800.0	6,752.6	6,792.5	6,775.7	18.1	14.4	144.14	-92.1	-442.6	322.6	298.7	23.91	13.493										
6,900.0	6,850.1	6,891.7	6,874.7	18.3	14.6	118.31	-91.8	-449.7	328.4	304.1	24.31	13.510										
7,000.0	6,943.1	6,994.4	6,975.8	18.5	14.7	112.03	-76.1	-456.8	335.4	310.8	24.61	13.630										
7,100.0	7,028.7	7,101.1	7,076.1	18.8	14.9	110.46	-41.0	-463.7	343.3	318.5	24.78	13.852										
7,200.0	7,104.3	7,212.0	7,171.6	19.1	15.1	110.43	14.6	-470.1	351.5	326.6	24.93	14.102										
7,300.0	7,167.7	7,327.0	7,257.5	19.5	15.5	110.91	90.6	-475.6	359.5	334.3	25.24	14.243										
7,400.0	7,216.8	7,446.0	7,328.6	20.0	16.0	111.46	185.6	-479.9	366.7	340.7	26.00	14.105										
7,500.0	7,250.3	7,568.1	7,379.7	20.6	16.7	111.86	296.2	-482.6	372.5	345.0	27.44	13.575										
7,600.0	7,267.1	7,692.4	7,406.5	21.3	17.7	111.98	417.4	-483.4	376.4	346.7	29.64	12.700										
7,700.0	7,269.0	7,805.1	7,410.0	22.2	18.8	111.88	529.9	-482.7	378.3	346.3	32.03	11.812										
7,800.0	7,269.0	7,905.0	7,410.0	23.1	19.9	111.79	629.9	-481.8	379.9	345.7	34.27	11.087										
7,900.0	7,269.0	8,005.0	7,410.0	24.1	21.0	111.69	729.9	-481.0	381.6	344.9	36.67	10.406										
8,000.0	7,269.0	8,105.0	7,410.0	25.2	22.3	111.59	829.8	-480.1	383.2	344.0	39.19	9.777										
8,100.0	7,269.0	8,205.0	7,410.0	26.4	23.6	111.50	929.8	-479.2	384.8	343.0	41.83	9.199										
8,200.0	7,269.0	8,305.0	7,410.0	27.6	24.9	111.40	1,029.8	-478.3	386.4	341.9	44.56	8.673										
8,300.0	7,269.0	8,405.0	7,410.0	28.9	26.3	111.31	1,129.8	-477.5	388.1	340.7	47.35	8.195										
8,400.0	7,269.0	8,505.0	7,410.0	30.2	27.8	111.22	1,229.8	-476.6	389.7	339.5	50.22	7.760										
8,500.0	7,269.0	8,604.9	7,410.0	31.6	29.2	111.12	1,329.7	-475.7	391.3	338.2	53.13	7.365										
8,600.0	7,269.0	8,704.9	7,410.0	33.0	30.8	111.03	1,429.7	-474.9	392.9	336.8	56.10	7.005										
8,700.0	7,269.0	8,804.9	7,410.0	34.5	32.3	110.94	1,529.7	-474.0	394.6	335.5	59.10	6.677										
8,800.0	7,269.0	8,904.9	7,410.0	35.9	33.8	110.85	1,629.7	-473.1	396.2	334.1	62.13	6.377										
8,900.0	7,269.0	9,004.9	7,410.0	37.4	35.4	110.76	1,729.7	-472.2	397.8	332.6	65.20	6.102										
9,000.0	7,269.0	9,104.9	7,410.0	39.0	37.0	110.67	1,829.7	-471.4	399.5	331.2	68.29	5.850										
9,100.0	7,269.0	9,204.8	7,410.0	40.5	38.6	110.58	1,929.6	-470.5	401.1	329.7	71.40	5.617										
9,200.0	7,269.0	9,304.8	7,410.0	42.0	40.2	110.50	2,029.6	-469.6	402.7	328.2	74.54	5.403										
9,300.0	7,269.0	9,404.8	7,410.0	43.6	41.9	110.41	2,129.6	-468.7	404.4	326.7	77.69	5.205										
9,400.0	7,269.0	9,504.8	7,410.0	45.2	43.5	110.32	2,229.6	-467.9	406.0	325.1	80.87	5.021										
9,500.0	7,269.0	9,604.8	7,410.0	46.8	45.1	110.24	2,329.6	-467.0	407.6	323.6	84.05	4.850										
9,600.0	7,269.0	9,704.8	7,410.0	48.4	46.8	110.15	2,429.5	-466.1	409.3	322.0	87.25	4.691										
9,700.0	7,269.0	9,804.8	7,410.0	50.0	48.5	110.07	2,529.5	-465.3	410.9	320.5	90.47	4.542										
9,800.0	7,269.0	9,904.7	7,410.0	51.6	50.1	109.99	2,629.5	-464.4	412.6	318.9	93.69	4.403										
9,900.0	7,269.0	10,004.7	7,410.0	53.3	51.8	109.90	2,729.5	-463.5	414.2	317.3	96.93	4.273										
10,000.0	7,269.0	10,104.7	7,410.0	54.9	53.5	109.82	2,829.5	-462.6	415.8	315.7	100.17	4.151										
10,100.0	7,269.0	10,204.7	7,410.0	56.6	55.2	109.74	2,929.4	-461.8	417.5	314.1	103.42	4.037										
10,200.0	7,269.0	10,304.7	7,410.0	58.2	56.8	109.66	3,029.4	-460.9	419.1	312.4	106.69	3.929										
10,300.0	7,269.0	10,404.7	7,410.0	59.9	58.5	109.58	3,129.4	-460.0	420.8	310.8	109.96	3.827										

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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) - Grant Salisbury 2D-14H-C268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-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		
10,400.0	7,269.0	10,504.6	7,410.0	61.5	60.2	109.50	3,229.4	-459.1	422.4	309.2	113.24	3.730		
10,500.0	7,269.0	10,604.6	7,410.0	63.2	61.9	109.42	3,329.4	-458.3	424.1	307.5	116.52	3.639		
10,600.0	7,269.0	10,704.6	7,410.0	64.9	63.6	109.35	3,429.3	-457.4	425.7	305.9	119.82	3.553		
10,700.0	7,269.0	10,804.6	7,410.0	66.6	65.3	109.27	3,529.3	-456.5	427.4	304.2	123.11	3.471		
10,800.0	7,269.0	10,904.6	7,410.0	68.2	67.0	109.19	3,629.3	-455.7	429.0	302.6	126.42	3.394		
10,900.0	7,269.0	11,004.6	7,410.0	69.9	68.7	109.11	3,729.3	-454.8	430.7	300.9	129.73	3.320		
11,000.0	7,269.0	11,104.6	7,410.0	71.6	70.5	109.04	3,829.3	-453.9	432.3	299.3	133.04	3.249		
11,100.0	7,269.0	11,204.5	7,410.0	73.3	72.2	108.96	3,929.3	-453.0	434.0	297.6	136.36	3.182		
11,200.0	7,269.0	11,304.5	7,410.0	75.0	73.9	108.89	4,029.2	-452.2	435.6	295.9	139.69	3.118		
11,300.0	7,269.0	11,404.5	7,410.0	76.7	75.6	108.81	4,129.2	-451.3	437.3	294.2	143.02	3.057		
11,400.0	7,269.0	11,504.5	7,410.0	78.4	77.3	108.74	4,229.2	-450.4	438.9	292.6	146.35	2.999		
11,500.0	7,269.0	11,604.5	7,410.0	80.1	79.0	108.67	4,329.2	-449.6	440.6	290.9	149.69	2.943		
11,600.0	7,269.0	11,704.5	7,410.0	81.8	80.8	108.60	4,429.2	-448.7	442.2	289.2	153.04	2.890		
11,700.0	7,269.0	11,804.5	7,410.0	83.5	82.5	108.52	4,529.1	-447.8	443.9	287.5	156.38	2.838		
11,800.0	7,269.0	11,904.4	7,410.0	85.2	84.2	108.45	4,629.1	-446.9	445.5	285.8	159.73	2.789		
11,900.0	7,269.0	12,004.4	7,410.0	86.9	85.9	108.38	4,729.1	-446.1	447.2	284.1	163.09	2.742		
12,000.0	7,269.0	12,104.4	7,410.0	88.6	87.7	108.31	4,829.1	-445.2	448.8	282.4	166.45	2.697		
12,100.0	7,269.0	12,204.4	7,410.0	90.4	89.4	108.24	4,929.1	-444.3	450.5	280.7	169.81	2.653		
12,200.0	7,269.0	12,304.4	7,410.0	92.1	91.1	108.17	5,029.0	-443.4	452.2	279.0	173.17	2.611		
12,300.0	7,269.0	12,404.4	7,410.0	93.8	92.8	108.10	5,129.0	-442.6	453.8	277.3	176.54	2.571		
12,400.0	7,269.0	12,504.3	7,410.0	95.5	94.6	108.04	5,229.0	-441.7	455.5	275.6	179.91	2.532		
12,500.0	7,269.0	12,604.3	7,410.0	97.2	96.3	107.97	5,329.0	-440.8	457.1	273.8	183.28	2.494		
12,600.0	7,269.0	12,704.3	7,410.0	99.0	98.0	107.90	5,429.0	-440.0	458.8	272.1	186.66	2.458		
12,700.0	7,269.0	12,804.3	7,410.0	100.7	99.8	107.83	5,528.9	-439.1	460.5	270.4	190.04	2.423		
12,800.0	7,269.0	12,904.3	7,410.0	102.4	101.5	107.77	5,628.9	-438.2	462.1	268.7	193.42	2.389		
12,900.0	7,269.0	13,004.3	7,410.0	104.1	103.2	107.70	5,728.9	-437.3	463.8	267.0	196.81	2.356		
13,000.0	7,269.0	13,104.3	7,410.0	105.8	105.0	107.64	5,828.9	-436.5	465.4	265.2	200.20	2.325		
13,100.0	7,269.0	13,204.2	7,410.0	107.6	106.7	107.57	5,928.9	-435.6	467.1	263.5	203.59	2.294		
13,200.0	7,269.0	13,304.2	7,410.0	109.3	108.4	107.51	6,028.9	-434.7	468.8	261.8	206.98	2.265		
13,300.0	7,269.0	13,404.2	7,410.0	111.0	110.2	107.44	6,128.8	-433.8	470.4	260.1	210.37	2.236		
13,367.3	7,269.0	13,471.5	7,410.0	112.2	111.4	107.40	6,196.2	-433.3	471.6	258.9	212.66	2.217 SF		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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) - Grant Salisbury 2E-14H-C268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-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	90.00	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	19.6	19.6	19.3	0.30	64.441		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	19.6	19.6	18.9	0.65	29.980		
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	19.6	19.6	18.6	1.00	19.534		
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	19.6	19.6	18.2	1.35	14.487 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-173.64	0.0	19.6	21.3	19.6	1.70	12.537 SF		
600.0	599.8	599.8	599.8	1.0	1.0	-174.88	0.0	19.6	26.5	24.5	2.05	12.957		
700.0	699.5	699.5	699.5	1.3	1.2	-176.13	0.0	19.6	35.2	32.8	2.39	14.727		
800.0	798.7	798.7	798.7	1.5	1.4	-177.10	0.0	19.6	47.0	44.3	2.73	17.195		
900.0	898.0	898.0	898.0	1.7	1.5	-177.70	0.0	19.6	59.4	56.3	3.08	19.267		
1,000.0	997.2	997.2	997.2	2.0	1.7	-178.10	0.0	19.6	71.7	68.3	3.43	20.921		
1,100.0	1,096.4	1,096.4	1,096.4	2.3	1.9	-178.38	0.0	19.6	84.1	80.3	3.78	22.271		
1,200.0	1,195.7	1,195.7	1,195.7	2.5	2.1	-178.59	0.0	19.6	96.5	92.4	4.12	23.395		
1,300.0	1,294.9	1,294.9	1,294.9	2.8	2.2	-178.75	0.0	19.6	108.9	104.4	4.47	24.344		
1,400.0	1,394.1	1,394.1	1,394.1	3.1	2.4	-178.88	0.0	19.6	121.2	116.4	4.82	25.157		
1,500.0	1,493.4	1,493.4	1,493.4	3.3	2.6	-178.98	0.0	19.6	133.6	128.4	5.17	25.861		
1,600.0	1,592.6	1,592.6	1,592.6	3.6	2.8	-179.07	0.0	19.6	146.0	140.5	5.51	26.476		
1,700.0	1,691.8	1,691.8	1,691.8	3.9	2.9	-179.14	0.0	19.6	158.3	152.5	5.86	27.018		
1,800.0	1,791.1	1,791.1	1,791.1	4.2	3.1	-179.20	0.0	19.6	170.7	164.5	6.21	27.500		
1,900.0	1,890.3	1,890.3	1,890.3	4.4	3.3	-179.26	0.0	19.6	183.1	176.5	6.55	27.931		
2,000.0	1,989.5	1,989.5	1,989.5	4.7	3.4	-179.30	0.0	19.6	195.5	188.6	6.90	28.318		
2,100.0	2,088.8	2,088.8	2,088.8	5.0	3.6	-179.34	0.0	19.6	207.8	200.6	7.25	28.669		
2,200.0	2,188.0	2,188.0	2,188.0	5.3	3.8	-179.38	0.0	19.6	220.2	212.6	7.60	28.987		
2,300.0	2,287.2	2,287.2	2,287.2	5.5	4.0	-179.41	0.0	19.6	232.6	224.6	7.94	29.278		
2,400.0	2,386.5	2,386.5	2,386.5	5.8	4.1	-179.44	0.0	19.6	244.9	236.7	8.29	29.544		
2,500.0	2,485.7	2,485.7	2,485.7	6.1	4.3	-179.47	0.0	19.6	257.3	248.7	8.64	29.789		
2,600.0	2,584.9	2,584.9	2,584.9	6.4	4.5	-179.49	0.0	19.6	269.7	260.7	8.99	30.015		
2,700.0	2,684.1	2,684.1	2,684.1	6.7	4.7	-179.52	0.0	19.6	282.1	272.7	9.33	30.224		
2,800.0	2,783.4	2,783.4	2,783.4	6.9	4.8	-179.54	0.0	19.6	294.4	284.8	9.68	30.418		
2,900.0	2,882.6	2,882.6	2,882.6	7.2	5.0	-179.56	0.0	19.6	306.8	296.8	10.03	30.599		
3,000.0	2,981.8	2,981.8	2,981.8	7.5	5.2	-179.57	0.0	19.6	319.2	308.8	10.37	30.767		
3,100.0	3,081.1	3,081.1	3,081.1	7.8	5.4	-179.59	0.0	19.6	331.6	320.8	10.72	30.925		
3,200.0	3,180.3	3,180.3	3,180.3	8.0	5.5	-179.60	0.0	19.6	343.9	332.9	11.07	31.073		
3,300.0	3,279.5	3,279.5	3,279.5	8.3	5.7	-179.62	0.0	19.6	356.3	344.9	11.42	31.212		
3,400.0	3,378.8	3,378.8	3,378.8	8.6	5.9	-179.63	0.0	19.6	368.7	356.9	11.76	31.342		
3,500.0	3,478.0	3,478.0	3,478.0	8.9	6.0	-179.64	0.0	19.6	381.1	368.9	12.11	31.466		
3,600.0	3,577.2	3,577.2	3,577.2	9.2	6.2	-179.65	0.0	19.6	393.4	381.0	12.46	31.582		
3,700.0	3,676.5	3,676.5	3,676.5	9.4	6.4	-179.66	0.0	19.6	405.8	393.0	12.80	31.692		
3,800.0	3,775.7	3,775.7	3,775.7	9.7	6.6	-179.67	0.0	19.6	418.2	405.0	13.15	31.796		
3,900.0	3,874.9	3,874.9	3,874.9	10.0	6.7	-179.68	0.0	19.6	430.5	417.0	13.50	31.895		
4,000.0	3,974.2	3,974.2	3,974.2	10.3	6.9	-179.69	0.0	19.6	442.9	429.1	13.85	31.989		
4,100.0	4,073.4	4,073.4	4,073.4	10.5	7.1	-179.70	0.0	19.6	455.3	441.1	14.19	32.078		
4,200.0	4,172.6	4,172.6	4,172.6	10.8	7.3	-179.71	0.0	19.6	467.7	453.1	14.54	32.163		
4,300.0	4,271.9	4,271.9	4,271.9	11.1	7.4	-179.72	0.0	19.6	480.0	465.1	14.89	32.244		
4,400.0	4,371.1	4,371.1	4,371.1	11.4	7.6	-179.72	0.0	19.6	492.4	477.2	15.23	32.322		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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-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	28.0	28.0						
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	28.0	28.0	27.7	0.30	92.058			
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	28.0	28.0	27.3	0.65	42.829			
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	28.0	28.0	27.0	1.00	27.906			
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	28.0	28.0	26.6	1.35	20.695 CC, ES			
500.0	500.0	500.0	500.0	0.9	0.8	-173.48	0.0	28.0	29.7	28.0	1.70	17.472			
600.0	599.8	599.8	599.8	1.0	1.0	-174.44	0.0	28.0	34.9	32.8	2.05	17.055 SF			
700.0	699.5	698.0	698.0	1.3	1.2	-174.70	-0.6	29.5	45.2	42.8	2.39	18.907			
800.0	798.7	796.2	796.1	1.5	1.4	-174.17	-2.1	33.6	61.0	58.3	2.73	22.336			
900.0	898.0	894.8	894.6	1.7	1.6	-173.85	-3.7	37.9	77.6	74.5	3.08	25.200			
1,000.0	997.2	993.5	993.1	2.0	1.7	-173.64	-5.2	42.2	94.2	90.8	3.43	27.480			
1,100.0	1,096.4	1,092.1	1,091.6	2.3	1.9	-173.50	-6.8	46.5	110.8	107.0	3.78	29.337			
1,200.0	1,195.7	1,190.7	1,190.1	2.5	2.1	-173.39	-8.4	50.8	127.4	123.3	4.13	30.879			
1,300.0	1,294.9	1,289.3	1,288.6	2.8	2.3	-173.31	-10.0	55.1	144.0	139.5	4.47	32.180			
1,400.0	1,394.1	1,387.9	1,387.2	3.1	2.5	-173.25	-11.5	59.4	160.6	155.7	4.82	33.292			
1,500.0	1,493.4	1,486.5	1,485.7	3.3	2.7	-173.19	-13.1	63.7	177.2	172.0	5.17	34.253			
1,600.0	1,592.6	1,585.1	1,584.2	3.6	2.9	-173.15	-14.7	68.0	193.8	188.2	5.52	35.093			
1,700.0	1,691.8	1,683.7	1,682.7	3.9	3.0	-173.11	-16.3	72.3	210.3	204.5	5.87	35.832			
1,800.0	1,791.1	1,782.4	1,781.2	4.2	3.2	-173.08	-17.9	76.6	226.9	220.7	6.22	36.487			
1,900.0	1,890.3	1,881.0	1,879.7	4.4	3.4	-173.05	-19.4	80.9	243.5	237.0	6.57	37.073			
2,000.0	1,989.5	1,979.6	1,978.2	4.7	3.6	-173.03	-21.0	85.1	260.1	253.2	6.92	37.600			
2,100.0	2,088.8	2,078.2	2,076.7	5.0	3.8	-173.01	-22.6	89.4	276.7	269.5	7.27	38.075			
2,200.0	2,188.0	2,176.8	2,175.2	5.3	4.0	-172.99	-24.2	93.7	293.3	285.7	7.62	38.507			
2,300.0	2,287.2	2,275.4	2,273.7	5.5	4.2	-172.97	-25.7	98.0	309.9	301.9	7.97	38.901			
2,400.0	2,386.5	2,374.0	2,372.2	5.8	4.4	-172.96	-27.3	102.3	326.5	318.2	8.32	39.262			
2,500.0	2,485.7	2,472.7	2,470.7	6.1	4.5	-172.95	-28.9	106.6	343.1	334.4	8.67	39.593			
2,600.0	2,584.9	2,571.3	2,569.2	6.4	4.7	-172.93	-30.5	110.9	359.7	350.7	9.02	39.899			
2,700.0	2,684.1	2,669.9	2,667.7	6.7	4.9	-172.92	-32.1	115.2	376.3	366.9	9.36	40.182			
2,800.0	2,783.4	2,768.5	2,766.3	6.9	5.1	-172.91	-33.6	119.5	392.9	383.2	9.71	40.444			
2,900.0	2,882.6	2,867.1	2,864.8	7.2	5.3	-172.90	-35.2	123.8	409.5	399.4	10.06	40.689			
3,000.0	2,981.8	2,965.7	2,963.3	7.5	5.5	-172.89	-36.8	128.1	426.1	415.7	10.41	40.916			
3,100.0	3,081.1	3,064.3	3,061.8	7.8	5.7	-172.89	-38.4	132.4	442.7	431.9	10.76	41.129			
3,200.0	3,180.3	3,163.0	3,160.3	8.0	5.9	-172.88	-39.9	136.7	459.3	448.1	11.11	41.329			
3,300.0	3,279.5	3,261.6	3,258.8	8.3	6.1	-172.87	-41.5	141.0	475.9	464.4	11.46	41.516			
3,400.0	3,378.8	3,360.2	3,357.3	8.6	6.2	-172.87	-43.1	145.3	492.4	480.6	11.81	41.692			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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) - OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8028-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance				Total	Separation	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-54.15	166.5	-230.4	284.3					
100.0	100.0	93.0	93.0	0.2	0.2	-54.15	166.5	-230.4	284.2	283.9	0.31	904.137		
200.0	200.0	193.0	193.0	0.3	0.3	-54.15	166.5	-230.4	284.2	283.6	0.66	428.419		
300.0	300.0	293.0	293.0	0.5	0.5	-54.15	166.5	-230.4	284.2	283.2	1.01	280.718		
400.0	400.0	393.0	393.0	0.7	0.7	-54.15	166.5	-230.4	284.2	282.9	1.36	208.749		
500.0	500.0	493.0	493.0	0.9	0.9	43.04	166.5	-230.4	282.9	281.2	1.71	165.344		
600.0	599.8	592.8	592.8	1.0	1.0	43.82	166.5	-230.4	279.1	277.1	2.07	135.132		
700.0	699.5	692.5	692.5	1.3	1.2	45.18	166.5	-230.4	272.9	270.5	2.43	112.215		
800.0	798.7	791.7	791.7	1.5	1.4	47.05	166.5	-230.4	264.7	261.9	2.82	94.001		
900.0	898.0	891.0	891.0	1.7	1.6	49.07	166.5	-230.4	256.4	253.2	3.21	79.794		
1,000.0	997.2	990.2	990.2	2.0	1.7	51.22	166.5	-230.4	248.4	244.8	3.62	68.601		
1,100.0	1,096.4	1,089.4	1,089.4	2.3	1.9	53.50	166.5	-230.4	240.8	236.8	4.04	59.616		
1,200.0	1,195.7	1,188.7	1,188.7	2.5	2.1	55.93	166.5	-230.4	233.6	229.2	4.47	52.294		
1,300.0	1,294.9	1,287.9	1,287.9	2.8	2.2	58.50	166.5	-230.4	226.9	222.0	4.90	46.256		
1,400.0	1,394.1	1,387.1	1,387.1	3.1	2.4	61.23	166.5	-230.4	220.6	215.3	5.35	41.231		
1,500.0	1,493.4	1,486.4	1,486.4	3.3	2.6	64.10	166.5	-230.4	214.9	209.1	5.81	37.020		
1,600.0	1,592.6	1,585.6	1,585.6	3.6	2.8	67.12	166.5	-230.4	209.8	203.5	6.27	33.475		
1,700.0	1,691.8	1,684.8	1,684.8	3.9	2.9	70.29	166.5	-230.4	205.2	198.5	6.73	30.483		
1,800.0	1,791.1	1,784.1	1,784.1	4.2	3.1	73.58	166.5	-230.4	201.4	194.2	7.20	27.956		
1,900.0	1,890.3	1,883.3	1,883.3	4.4	3.3	76.99	166.5	-230.4	198.2	190.5	7.67	25.826		
2,000.0	1,989.5	1,982.5	1,982.5	4.7	3.5	80.49	166.5	-230.4	195.8	187.6	8.15	24.035		
2,100.0	2,088.8	2,081.8	2,081.8	5.0	3.6	84.07	166.5	-230.4	194.1	185.5	8.61	22.539		
2,200.0	2,188.0	2,181.0	2,181.0	5.3	3.8	87.69	166.5	-230.4	193.2	184.1	9.07	21.297		
2,263.4	2,250.9	2,243.9	2,243.9	5.4	3.9	90.00	166.5	-230.4	193.0	183.7	9.36	20.626	CC	
2,300.0	2,287.2	2,280.2	2,280.2	5.5	4.0	91.33	166.5	-230.4	193.1	183.6	9.52	20.277	ES	
2,400.0	2,386.5	2,379.5	2,379.5	5.8	4.2	94.97	166.5	-230.4	193.8	183.8	9.96	19.450		
2,500.0	2,485.7	2,478.7	2,478.7	6.1	4.3	98.56	166.5	-230.4	195.3	184.9	10.39	18.792		
2,600.0	2,584.9	2,577.9	2,577.9	6.4	4.5	102.08	166.5	-230.4	197.5	186.7	10.80	18.280		
2,700.0	2,684.1	2,677.1	2,677.1	6.7	4.7	105.52	166.5	-230.4	200.5	189.3	11.20	17.895		
2,800.0	2,783.4	2,776.4	2,776.4	6.9	4.8	108.84	166.5	-230.4	204.1	192.6	11.59	17.618		
2,900.0	2,882.6	2,875.6	2,875.6	7.2	5.0	112.04	166.5	-230.4	208.5	196.5	11.96	17.435		
3,000.0	2,981.8	2,974.8	2,974.8	7.5	5.2	115.10	166.5	-230.4	213.5	201.2	12.32	17.331		
3,100.0	3,081.1	3,074.1	3,074.1	7.8	5.4	118.02	166.5	-230.4	219.0	206.4	12.67	17.295	SF	
3,200.0	3,180.3	3,173.3	3,173.3	8.0	5.5	120.78	166.5	-230.4	225.2	212.2	13.00	17.315		
3,300.0	3,279.5	3,272.5	3,272.5	8.3	5.7	123.40	166.5	-230.4	231.8	218.4	13.33	17.383		
3,400.0	3,378.8	3,371.8	3,371.8	8.6	5.9	125.86	166.5	-230.4	238.8	225.2	13.66	17.490		
3,500.0	3,478.0	3,471.0	3,471.0	8.9	6.1	128.19	166.5	-230.4	246.3	232.4	13.97	17.628		
3,600.0	3,577.2	3,570.2	3,570.2	9.2	6.2	130.37	166.5	-230.4	254.2	239.9	14.29	17.793		
3,700.0	3,676.5	3,669.5	3,669.5	9.4	6.4	132.42	166.5	-230.4	262.4	247.8	14.60	17.978		
3,800.0	3,775.7	3,768.7	3,768.7	9.7	6.6	134.34	166.5	-230.4	271.0	256.0	14.90	18.180		
3,900.0	3,874.9	3,867.9	3,867.9	10.0	6.8	136.15	166.5	-230.4	279.8	264.6	15.21	18.394		
4,000.0	3,974.2	3,967.2	3,967.2	10.3	6.9	137.84	166.5	-230.4	288.9	273.3	15.52	18.618		
4,100.0	4,073.4	4,066.4	4,066.4	10.5	7.1	139.43	166.5	-230.4	298.2	282.4	15.82	18.848		
4,200.0	4,172.6	4,165.6	4,165.6	10.8	7.3	140.93	166.5	-230.4	307.7	291.6	16.12	19.083		
4,300.0	4,271.9	4,264.9	4,264.9	11.1	7.4	142.33	166.5	-230.4	317.4	301.0	16.43	19.321		
4,400.0	4,371.1	4,364.1	4,364.1	11.4	7.6	143.65	166.5	-230.4	327.3	310.6	16.74	19.560		
4,500.0	4,470.3	4,463.3	4,463.3	11.7	7.8	144.89	166.5	-230.4	337.4	320.4	17.04	19.799		
4,600.0	4,569.5	4,562.5	4,562.5	11.9	8.0	146.06	166.5	-230.4	347.6	330.3	17.35	20.037		
4,700.0	4,668.8	4,661.8	4,661.8	12.2	8.1	147.17	166.5	-230.4	358.0	340.3	17.66	20.273		
4,800.0	4,768.0	4,761.0	4,761.0	12.5	8.3	148.21	166.5	-230.4	368.5	350.5	17.97	20.507		
4,900.0	4,867.2	4,860.2	4,860.2	12.8	8.5	149.19	166.5	-230.4	379.1	360.8	18.28	20.738		
5,000.0	4,966.5	4,959.5	4,959.5	13.0	8.7	150.12	166.5	-230.4	389.8	371.2	18.59	20.965		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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: 8028-MWD													Offset Well Error:		0.0 ft
S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS															
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			
5,100.0	5,065.7	5,058.7	5,058.7	13.3	8.8	151.00	166.5	-230.4	400.6	381.7	18.90	21.189			
5,200.0	5,164.9	5,157.9	5,157.9	13.6	9.0	151.84	166.5	-230.4	411.5	392.2	19.22	21.408			
5,300.0	5,264.2	5,257.2	5,257.2	13.9	9.2	152.63	166.5	-230.4	422.4	402.9	19.54	21.623			
5,400.0	5,363.4	5,356.4	5,356.4	14.2	9.3	153.38	166.5	-230.4	433.5	413.6	19.85	21.834			
5,500.0	5,462.6	5,455.6	5,455.6	14.4	9.5	154.09	166.5	-230.4	444.6	424.4	20.17	22.041			
5,600.0	5,561.9	5,554.9	5,554.9	14.7	9.7	154.77	166.5	-230.4	455.8	435.3	20.49	22.243			
5,700.0	5,661.1	5,654.1	5,654.1	15.0	9.9	155.42	166.5	-230.4	467.0	446.2	20.81	22.440			
5,800.0	5,760.3	5,753.3	5,753.3	15.3	10.0	156.03	166.5	-230.4	478.3	457.2	21.13	22.633			
5,900.0	5,859.6	5,852.6	5,852.6	15.6	10.2	156.62	166.5	-230.4	489.6	468.2	21.45	22.822			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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) - SALISBURY 1 (EXISTING) - EXISTING - GYRO													Offset Well Error:	0.0 ft
Survey Program: 100-Gyro														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,300.0	7,269.0	7,230.8	7,229.9	43.6	6.3	87.09	2,585.8	-770.3	459.5	412.1	47.35	9.704		
9,400.0	7,269.0	7,231.6	7,230.6	45.2	6.3	87.64	2,585.8	-770.2	361.5	312.5	49.05	7.371		
9,500.0	7,269.0	7,232.3	7,231.4	46.8	6.3	88.18	2,585.8	-770.2	265.0	214.3	50.74	5.223		
9,600.0	7,269.0	7,233.1	7,232.2	48.4	6.3	88.72	2,585.8	-770.2	172.6	120.2	52.44	3.292		
9,700.0	7,269.0	7,233.8	7,232.9	50.0	6.3	89.25	2,585.8	-770.2	96.8	42.6	54.15	1.787		
9,752.2	7,269.0	7,234.2	7,233.3	50.9	6.3	89.52	2,585.8	-770.2	81.5	26.4	55.04	1.480	Level 3, CC, ES, SF	
9,800.0	7,269.0	7,234.6	7,233.7	51.6	6.3	89.78	2,585.8	-770.2	94.4	38.6	55.85	1.691		
9,900.0	7,269.0	7,235.3	7,234.4	53.3	6.3	90.30	2,585.8	-770.2	168.7	111.2	57.55	2.932		
10,000.0	7,269.0	7,236.1	7,235.2	54.9	6.3	90.81	2,585.8	-770.2	260.8	201.6	59.26	4.401		
10,100.0	7,269.0	7,236.8	7,235.9	56.6	6.3	91.32	2,585.8	-770.2	357.2	296.2	60.96	5.859		
10,200.0	7,269.0	7,237.5	7,236.6	58.2	6.3	91.83	2,585.9	-770.2	455.1	392.4	62.66	7.263		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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: 716-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		
10,300.0	7,269.0	7,351.6	7,251.2	59.9	22.3	-89.51	3,488.8	-1,147.6	459.8	380.9	78.94	5.826			
10,400.0	7,269.0	7,352.3	7,251.8	61.5	22.3	-89.65	3,488.8	-1,147.6	387.0	306.3	80.65	4.798			
10,500.0	7,269.0	7,353.0	7,252.5	63.2	22.3	-89.79	3,488.8	-1,147.6	328.7	246.4	82.37	3.991			
10,600.0	7,269.0	7,353.7	7,253.2	64.9	22.3	-89.93	3,488.8	-1,147.6	293.9	209.8	84.09	3.495			
10,658.5	7,269.0	7,354.1	7,253.6	65.9	22.3	-90.01	3,488.8	-1,147.6	288.0	202.9	85.10	3.384	CC, ES, SF		
10,700.0	7,269.0	7,354.4	7,253.9	66.6	22.3	-90.07	3,488.8	-1,147.6	291.0	205.2	85.81	3.391			
10,800.0	7,269.0	7,355.1	7,254.6	68.2	22.3	-90.20	3,488.8	-1,147.6	320.9	233.4	87.53	3.666			
10,900.0	7,269.0	7,355.8	7,255.3	69.9	22.3	-90.34	3,488.8	-1,147.6	375.9	286.6	89.25	4.211			
11,000.0	7,269.0	7,356.5	7,256.0	71.6	22.3	-90.48	3,488.9	-1,147.6	446.7	355.7	90.98	4.910			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2C-14H-C268
Project:	DJ Wattenberg	TVD Reference:	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference:	KB @ 4894.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	Grant Salisbury 2C-14H-C268	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: 104-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		
8,700.0	7,269.0	7,309.0	7,250.6	34.5	16.9	-89.78	1,964.3	-940.4	442.4	394.8	47.54	9.305			
8,800.0	7,269.0	7,309.1	7,250.7	35.9	16.9	-89.82	1,964.3	-940.4	345.3	296.1	49.16	7.025			
8,900.0	7,269.0	7,309.1	7,250.8	37.4	16.9	-89.86	1,964.3	-940.4	250.6	199.8	50.79	4.934			
9,000.0	7,269.0	7,309.2	7,250.8	39.0	16.9	-89.91	1,964.3	-940.4	162.3	109.9	52.43	3.096			
9,100.0	7,269.0	7,309.3	7,250.9	40.5	16.9	-89.95	1,964.3	-940.4	99.5	45.4	54.08	1.840			
9,132.2	7,269.0	7,309.3	7,250.9	41.0	16.9	-89.96	1,964.3	-940.4	94.2	39.5	54.62	1.724	CC, ES, SF		
9,200.0	7,269.0	7,309.3	7,251.0	42.0	16.9	-89.99	1,964.3	-940.4	116.0	60.3	55.75	2.081			
9,300.0	7,269.0	7,309.4	7,251.1	43.6	16.9	-90.03	1,964.3	-940.4	192.4	135.0	57.42	3.351			
9,400.0	7,269.0	7,309.5	7,251.1	45.2	16.9	-90.07	1,964.3	-940.4	283.9	224.8	59.09	4.804			
9,500.0	7,269.0	7,309.5	7,251.2	46.8	16.9	-90.12	1,964.3	-940.4	379.6	318.9	60.77	6.247			
9,600.0	7,269.0	7,309.6	7,251.3	48.4	16.9	-90.16	1,964.3	-940.4	477.2	414.7	62.46	7.639			

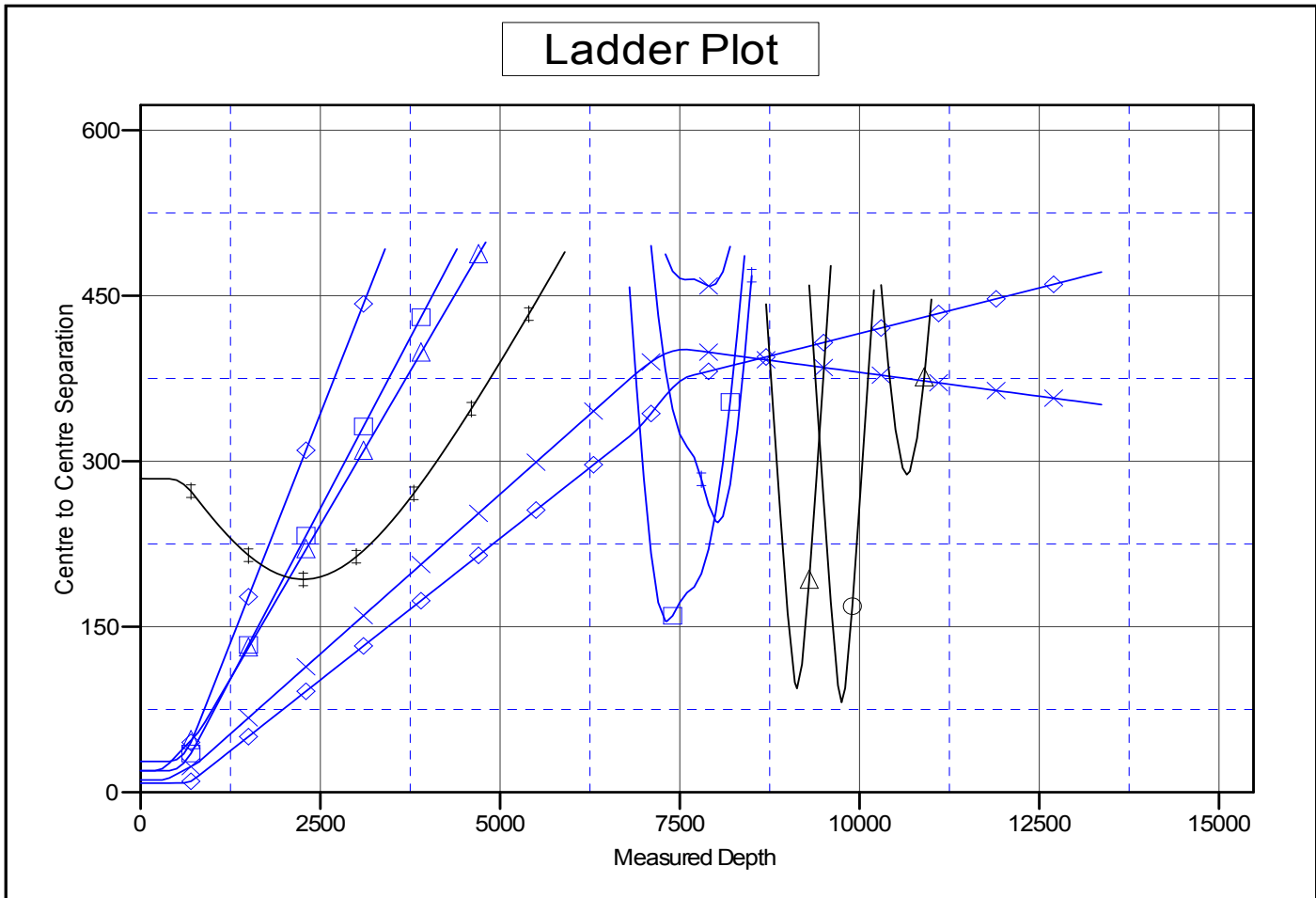
Cathedral Energy Services

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well Grant Salisbury 2C-14H-C268
Project: DJ Wattenberg	TVD Reference: KB @ 4894.0ft
Reference Site: S14-T2N-R68W (Grant Elmquist/Salisbury)	MD Reference: KB @ 4894.0ft
Site Error: 0.0ft	North Reference: True
Reference Well: Grant Salisbury 2C-14H-C268	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 KB @ 4894.0ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: Grant Salisbury 2C-14H-C268
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.34°



LEGEND

- | | | |
|---|---|--------------------------------------|
| Grant Salisbury 2B-14H-C268, Hz, Plan #1 V0 | Grant Salisbury 2B-14H-C268, Hz, Plan #1 V0 | OLANDER 2 (EXISTING), EXISTING, NO S |
| Grant Salisbury 2C-14H-C268, Hz, Plan #1 V0 | Grant Salisbury 2D-14H-C268, Hz, Plan #1 V0 | SALISBURY 1 (EXISTING), EXISTING, GY |
| Grant Salisbury 2D-14H-C268, Hz, Plan #1 V0 | Grant Salisbury 2E-14H-C268, Hz, Plan #1 V0 | SALISBURY 13-11 (EXISTING), EXISTING |
| Grant Salisbury 2A-14H-C268, Hz, Plan #1 V0 | Grant Salisbury 2F-14H-C268, Hz, Plan #1 V0 | SALISBURY 14-11 (EXISTING), EXISTING |

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