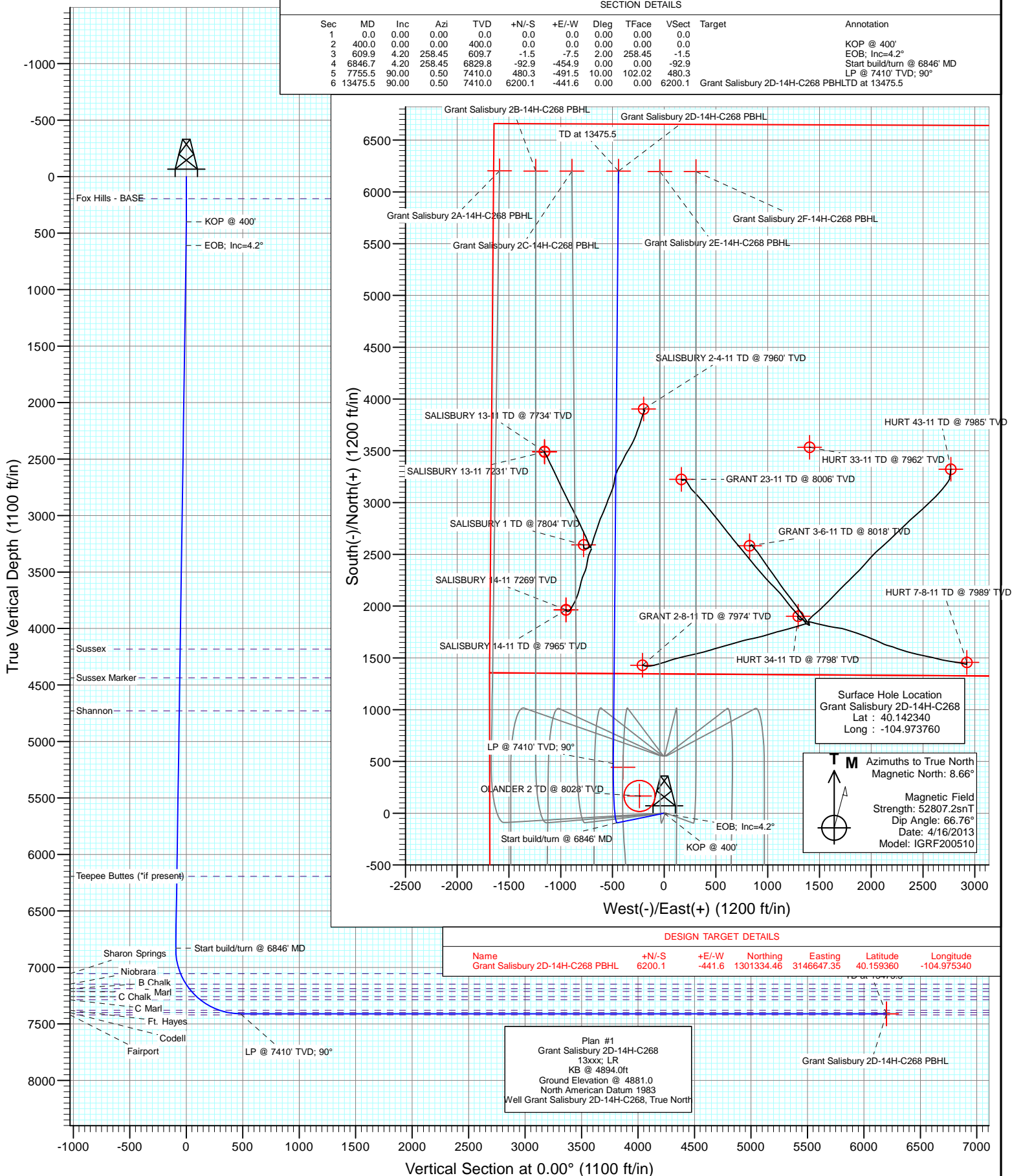




Project: DJ Wattenberg
Site: S14-T2N-R68W (Grant Elmquist/Salisbury)
Well: Grant Salisbury 2D-14H-C268
Wellbore: Hz
Design: Plan #1



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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 2D-14H-C268					
Well Position	+N/-S	0.0 ft	Northing:	1,295,137.10 ft	Latitude:	40.142340
	+E/-W	0.0 ft	Easting:	3,147,125.75 ft	Longitude:	-104.973760
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
			(°)	(°)	(nT)
	IGRF200510	4/16/2013	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	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
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	
609.9	4.20	258.45	609.7	-1.5	-7.5	2.00	2.00	0.00	258.45	
6,846.7	4.20	258.45	6,829.8	-92.9	-454.9	0.00	0.00	0.00	0.00	
7,755.5	90.00	0.50	7,410.0	480.3	-491.5	10.00	9.44	11.23	102.02	
13,475.5	90.00	0.50	7,410.0	6,200.1	-441.6	0.00	0.00	0.00	0.00	Grant Salisbury 2D-14

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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	258.45	500.0	-0.3	-1.7	-0.3	2.00	2.00	
600.0	4.00	258.45	599.8	-1.4	-6.8	-1.4	2.00	2.00	
609.9	4.20	258.45	609.7	-1.5	-7.5	-1.5	2.00	2.00	EOB; Inc=4.2°
700.0	4.20	258.45	699.6	-2.9	-14.0	-2.9	0.00	0.00	
800.0	4.20	258.45	799.3	-4.3	-21.2	-4.3	0.00	0.00	
900.0	4.20	258.45	899.0	-5.8	-28.3	-5.8	0.00	0.00	
1,000.0	4.20	258.45	998.8	-7.3	-35.5	-7.3	0.00	0.00	
1,100.0	4.20	258.45	1,098.5	-8.7	-42.7	-8.7	0.00	0.00	
1,200.0	4.20	258.45	1,198.2	-10.2	-49.9	-10.2	0.00	0.00	
1,300.0	4.20	258.45	1,298.0	-11.7	-57.0	-11.7	0.00	0.00	
1,400.0	4.20	258.45	1,397.7	-13.1	-64.2	-13.1	0.00	0.00	
1,500.0	4.20	258.45	1,497.4	-14.6	-71.4	-14.6	0.00	0.00	
1,600.0	4.20	258.45	1,597.2	-16.0	-78.5	-16.0	0.00	0.00	
1,700.0	4.20	258.45	1,696.9	-17.5	-85.7	-17.5	0.00	0.00	
1,800.0	4.20	258.45	1,796.6	-19.0	-92.9	-19.0	0.00	0.00	
1,900.0	4.20	258.45	1,896.4	-20.4	-100.1	-20.4	0.00	0.00	
2,000.0	4.20	258.45	1,996.1	-21.9	-107.2	-21.9	0.00	0.00	
2,100.0	4.20	258.45	2,095.8	-23.4	-114.4	-23.4	0.00	0.00	
2,200.0	4.20	258.45	2,195.5	-24.8	-121.6	-24.8	0.00	0.00	
2,300.0	4.20	258.45	2,295.3	-26.3	-128.8	-26.3	0.00	0.00	
2,400.0	4.20	258.45	2,395.0	-27.8	-135.9	-27.8	0.00	0.00	
2,500.0	4.20	258.45	2,494.7	-29.2	-143.1	-29.2	0.00	0.00	
2,600.0	4.20	258.45	2,594.5	-30.7	-150.3	-30.7	0.00	0.00	
2,700.0	4.20	258.45	2,694.2	-32.2	-157.4	-32.2	0.00	0.00	
2,800.0	4.20	258.45	2,793.9	-33.6	-164.6	-33.6	0.00	0.00	
2,900.0	4.20	258.45	2,893.7	-35.1	-171.8	-35.1	0.00	0.00	
3,000.0	4.20	258.45	2,993.4	-36.6	-179.0	-36.6	0.00	0.00	
3,100.0	4.20	258.45	3,093.1	-38.0	-186.1	-38.0	0.00	0.00	
3,200.0	4.20	258.45	3,192.9	-39.5	-193.3	-39.5	0.00	0.00	
3,300.0	4.20	258.45	3,292.6	-41.0	-200.5	-41.0	0.00	0.00	
3,400.0	4.20	258.45	3,392.3	-42.4	-207.7	-42.4	0.00	0.00	
3,500.0	4.20	258.45	3,492.1	-43.9	-214.8	-43.9	0.00	0.00	
3,600.0	4.20	258.45	3,591.8	-45.4	-222.0	-45.4	0.00	0.00	
3,700.0	4.20	258.45	3,691.5	-46.8	-229.2	-46.8	0.00	0.00	
3,800.0	4.20	258.45	3,791.3	-48.3	-236.3	-48.3	0.00	0.00	
3,900.0	4.20	258.45	3,891.0	-49.8	-243.5	-49.8	0.00	0.00	
4,000.0	4.20	258.45	3,990.7	-51.2	-250.7	-51.2	0.00	0.00	
4,100.0	4.20	258.45	4,090.4	-52.7	-257.9	-52.7	0.00	0.00	
4,191.8	4.20	258.45	4,182.0	-54.0	-264.4	-54.0	0.00	0.00	Sussex
4,200.0	4.20	258.45	4,190.2	-54.1	-265.0	-54.1	0.00	0.00	
4,300.0	4.20	258.45	4,289.9	-55.6	-272.2	-55.6	0.00	0.00	
4,400.0	4.20	258.45	4,389.6	-57.1	-279.4	-57.1	0.00	0.00	
4,446.5	4.20	258.45	4,436.0	-57.8	-282.7	-57.8	0.00	0.00	Sussex Marker
4,500.0	4.20	258.45	4,489.4	-58.5	-286.6	-58.5	0.00	0.00	
4,600.0	4.20	258.45	4,589.1	-60.0	-293.7	-60.0	0.00	0.00	
4,700.0	4.20	258.45	4,688.8	-61.5	-300.9	-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 2D-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 2D-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
4,740.3	4.20	258.45	4,729.0	-62.1	-303.8	-62.1	0.00	0.00	Shannon
4,800.0	4.20	258.45	4,788.6	-62.9	-308.1	-62.9	0.00	0.00	
4,900.0	4.20	258.45	4,888.3	-64.4	-315.2	-64.4	0.00	0.00	
5,000.0	4.20	258.45	4,988.0	-65.9	-322.4	-65.9	0.00	0.00	
5,100.0	4.20	258.45	5,087.8	-67.3	-329.6	-67.3	0.00	0.00	
5,200.0	4.20	258.45	5,187.5	-68.8	-336.8	-68.8	0.00	0.00	
5,300.0	4.20	258.45	5,287.2	-70.3	-343.9	-70.3	0.00	0.00	
5,400.0	4.20	258.45	5,387.0	-71.7	-351.1	-71.7	0.00	0.00	
5,500.0	4.20	258.45	5,486.7	-73.2	-358.3	-73.2	0.00	0.00	
5,600.0	4.20	258.45	5,586.4	-74.7	-365.5	-74.7	0.00	0.00	
5,700.0	4.20	258.45	5,686.2	-76.1	-372.6	-76.1	0.00	0.00	
5,800.0	4.20	258.45	5,785.9	-77.6	-379.8	-77.6	0.00	0.00	
5,900.0	4.20	258.45	5,885.6	-79.1	-387.0	-79.1	0.00	0.00	
6,000.0	4.20	258.45	5,985.3	-80.5	-394.1	-80.5	0.00	0.00	
6,100.0	4.20	258.45	6,085.1	-82.0	-401.3	-82.0	0.00	0.00	
6,200.0	4.20	258.45	6,184.8	-83.5	-408.5	-83.5	0.00	0.00	
6,209.2	4.20	258.45	6,194.0	-83.6	-409.1	-83.6	0.00	0.00	Teepee Buttes (*if present)
6,300.0	4.20	258.45	6,284.5	-84.9	-415.7	-84.9	0.00	0.00	
6,400.0	4.20	258.45	6,384.3	-86.4	-422.8	-86.4	0.00	0.00	
6,500.0	4.20	258.45	6,484.0	-87.9	-430.0	-87.9	0.00	0.00	
6,600.0	4.20	258.45	6,583.7	-89.3	-437.2	-89.3	0.00	0.00	
6,700.0	4.20	258.45	6,683.5	-90.8	-444.4	-90.8	0.00	0.00	
6,800.0	4.20	258.45	6,783.2	-92.2	-451.5	-92.2	0.00	0.00	
6,846.7	4.20	258.45	6,829.8	-92.9	-454.9	-92.9	0.00	0.00	Start build/turn @ 6846' MD
6,900.0	6.06	317.91	6,882.9	-91.2	-458.7	-91.2	10.00	3.48	
7,000.0	15.01	344.98	6,981.2	-74.8	-465.6	-74.8	10.00	8.96	
7,078.1	22.62	350.58	7,055.0	-50.2	-470.7	-50.2	10.00	9.74	Sharon Springs
7,100.0	24.78	351.55	7,075.1	-41.4	-472.0	-41.4	10.00	9.84	
7,183.3	33.02	354.16	7,148.0	-1.5	-476.9	-1.5	10.00	9.89	Niobrara
7,200.0	34.67	354.54	7,161.8	7.7	-477.8	7.7	10.00	9.92	
7,232.5	37.89	355.21	7,188.0	26.8	-479.5	26.8	10.00	9.93	B Chalk
7,263.5	40.98	355.76	7,212.0	46.5	-481.1	46.5	10.00	9.94	B Marl
7,300.0	44.60	356.33	7,238.7	71.2	-482.8	71.2	10.00	9.94	
7,329.2	47.51	356.73	7,259.0	92.2	-484.1	92.2	10.00	9.95	C Chalk
7,370.8	51.65	357.24	7,286.0	123.9	-485.7	123.9	10.00	9.96	C Marl
7,400.0	54.56	357.57	7,303.5	147.2	-486.8	147.2	10.00	9.96	
7,500.0	64.52	358.54	7,354.1	233.2	-489.7	233.2	10.00	9.97	
7,569.0	71.40	359.12	7,380.0	297.1	-491.0	297.1	10.00	9.97	Ft. Hayes
7,600.0	74.50	359.36	7,389.1	326.7	-491.4	326.7	10.00	9.97	
7,648.1	79.29	359.72	7,400.0	373.6	-491.7	373.6	10.00	9.97	Codell
7,700.0	84.47	0.10	7,407.3	424.9	-491.8	424.9	10.00	9.97	
7,755.5	90.00	0.50	7,410.0	480.3	-491.5	480.3	10.00	9.97	LP @ 7410' TVD; 90°
7,800.0	90.00	0.50	7,410.0	524.8	-491.1	524.8	0.00	0.00	
7,900.0	90.00	0.50	7,410.0	624.8	-490.3	624.8	0.00	0.00	
8,000.0	90.00	0.50	7,410.0	724.8	-489.4	724.8	0.00	0.00	
8,100.0	90.00	0.50	7,410.0	824.8	-488.5	824.8	0.00	0.00	
8,200.0	90.00	0.50	7,410.0	924.8	-487.6	924.8	0.00	0.00	
8,300.0	90.00	0.50	7,410.0	1,024.8	-486.8	1,024.8	0.00	0.00	
8,400.0	90.00	0.50	7,410.0	1,124.8	-485.9	1,124.8	0.00	0.00	
8,500.0	90.00	0.50	7,410.0	1,224.8	-485.0	1,224.8	0.00	0.00	
8,600.0	90.00	0.50	7,410.0	1,324.8	-484.2	1,324.8	0.00	0.00	
8,700.0	90.00	0.50	7,410.0	1,424.8	-483.3	1,424.8	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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
8,800.0	90.00	0.50	7,410.0	1,524.8	-482.4	1,524.8	0.00	0.00	
8,900.0	90.00	0.50	7,410.0	1,624.8	-481.5	1,624.8	0.00	0.00	
9,000.0	90.00	0.50	7,410.0	1,724.8	-480.7	1,724.8	0.00	0.00	
9,100.0	90.00	0.50	7,410.0	1,824.8	-479.8	1,824.8	0.00	0.00	
9,200.0	90.00	0.50	7,410.0	1,924.8	-478.9	1,924.8	0.00	0.00	
9,300.0	90.00	0.50	7,410.0	2,024.8	-478.0	2,024.8	0.00	0.00	
9,400.0	90.00	0.50	7,410.0	2,124.8	-477.2	2,124.8	0.00	0.00	
9,500.0	90.00	0.50	7,410.0	2,224.8	-476.3	2,224.8	0.00	0.00	
9,600.0	90.00	0.50	7,410.0	2,324.8	-475.4	2,324.8	0.00	0.00	
9,700.0	90.00	0.50	7,410.0	2,424.8	-474.6	2,424.8	0.00	0.00	
9,800.0	90.00	0.50	7,410.0	2,524.8	-473.7	2,524.8	0.00	0.00	
9,900.0	90.00	0.50	7,410.0	2,624.8	-472.8	2,624.8	0.00	0.00	
10,000.0	90.00	0.50	7,410.0	2,724.8	-471.9	2,724.8	0.00	0.00	
10,100.0	90.00	0.50	7,410.0	2,824.8	-471.1	2,824.8	0.00	0.00	
10,200.0	90.00	0.50	7,410.0	2,924.7	-470.2	2,924.7	0.00	0.00	
10,300.0	90.00	0.50	7,410.0	3,024.7	-469.3	3,024.7	0.00	0.00	
10,400.0	90.00	0.50	7,410.0	3,124.7	-468.4	3,124.7	0.00	0.00	
10,500.0	90.00	0.50	7,410.0	3,224.7	-467.6	3,224.7	0.00	0.00	
10,600.0	90.00	0.50	7,410.0	3,324.7	-466.7	3,324.7	0.00	0.00	
10,700.0	90.00	0.50	7,410.0	3,424.7	-465.8	3,424.7	0.00	0.00	
10,800.0	90.00	0.50	7,410.0	3,524.7	-465.0	3,524.7	0.00	0.00	
10,900.0	90.00	0.50	7,410.0	3,624.7	-464.1	3,624.7	0.00	0.00	
11,000.0	90.00	0.50	7,410.0	3,724.7	-463.2	3,724.7	0.00	0.00	
11,100.0	90.00	0.50	7,410.0	3,824.7	-462.3	3,824.7	0.00	0.00	
11,200.0	90.00	0.50	7,410.0	3,924.7	-461.5	3,924.7	0.00	0.00	
11,300.0	90.00	0.50	7,410.0	4,024.7	-460.6	4,024.7	0.00	0.00	
11,400.0	90.00	0.50	7,410.0	4,124.7	-459.7	4,124.7	0.00	0.00	
11,500.0	90.00	0.50	7,410.0	4,224.7	-458.8	4,224.7	0.00	0.00	
11,600.0	90.00	0.50	7,410.0	4,324.7	-458.0	4,324.7	0.00	0.00	
11,700.0	90.00	0.50	7,410.0	4,424.7	-457.1	4,424.7	0.00	0.00	
11,800.0	90.00	0.50	7,410.0	4,524.7	-456.2	4,524.7	0.00	0.00	
11,900.0	90.00	0.50	7,410.0	4,624.7	-455.4	4,624.7	0.00	0.00	
12,000.0	90.00	0.50	7,410.0	4,724.7	-454.5	4,724.7	0.00	0.00	
12,100.0	90.00	0.50	7,410.0	4,824.7	-453.6	4,824.7	0.00	0.00	
12,200.0	90.00	0.50	7,410.0	4,924.7	-452.7	4,924.7	0.00	0.00	
12,300.0	90.00	0.50	7,410.0	5,024.7	-451.9	5,024.7	0.00	0.00	
12,400.0	90.00	0.50	7,410.0	5,124.7	-451.0	5,124.7	0.00	0.00	
12,500.0	90.00	0.50	7,410.0	5,224.7	-450.1	5,224.7	0.00	0.00	
12,600.0	90.00	0.50	7,410.0	5,324.7	-449.2	5,324.7	0.00	0.00	
12,700.0	90.00	0.50	7,410.0	5,424.7	-448.4	5,424.7	0.00	0.00	
12,800.0	90.00	0.50	7,410.0	5,524.6	-447.5	5,524.6	0.00	0.00	
12,900.0	90.00	0.50	7,410.0	5,624.6	-446.6	5,624.6	0.00	0.00	
13,000.0	90.00	0.50	7,410.0	5,724.6	-445.8	5,724.6	0.00	0.00	
13,100.0	90.00	0.50	7,410.0	5,824.6	-444.9	5,824.6	0.00	0.00	
13,200.0	90.00	0.50	7,410.0	5,924.6	-444.0	5,924.6	0.00	0.00	
13,300.0	90.00	0.50	7,410.0	6,024.6	-443.1	6,024.6	0.00	0.00	
13,400.0	90.00	0.50	7,410.0	6,124.6	-442.3	6,124.6	0.00	0.00	
13,475.5	90.00	0.50	7,410.0	6,200.1	-441.6	6,200.1	0.00	0.00	TD at 13475.5 - Grant Salisbury 2D-14H-C268 I

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-14H-C268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Grant Salisbury 2D-14H-	0.00	0.00	7,410.0	6,200.1	-441.6	1,301,334.46	3,146,647.35	40.159360	-104.975340
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
194.0	194.0	Fox Hills - BASE				
4,191.8	4,182.0	Sussex				
4,446.5	4,436.0	Sussex Marker				
4,740.3	4,729.0	Shannon				
6,209.2	6,194.0	Teepee Buttes (*if present)				
7,078.1	7,055.0	Sharon Springs				
7,183.3	7,148.0	Niobrara				
7,232.5	7,188.0	B Chalk				
7,263.5	7,212.0	B Marl				
7,329.2	7,259.0	C Chalk				
7,370.8	7,286.0	C Marl				
7,569.0	7,380.0	Ft. Hayes				
7,648.1	7,400.0	Codell				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400'
609.9	609.7	-1.5	-7.5	EOB; Inc=4.2°
6,846.7	6,829.8	-92.9	-454.9	Start build/turn @ 6846' MD
7,755.5	7,410.0	480.3	-491.5	LP @ 7410' TVD; 90°
13,475.5	7,410.0	6,200.1	-441.6	TD at 13475.5

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S14-T2N-R68W (Grant Elmquist/Salisbury)

Grant Salisbury 2D-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 2D-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 2D-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	13,475.5	Plan #1 (Hz)	MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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 Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
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	8,708.1	7,668.5	274.3	229.6	6.129	CC, ES, SF
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						Out of range
Grant Elmquist 2C-14H-C268 - Hz - Plan #1	7,265.3	7,971.2	194.3	164.8	6.601	CC, ES, SF
Grant Elmquist 2D-14H-C268 - Hz - Plan #1	7,644.5	7,840.0	92.5	63.4	3.178	CC, ES
Grant Elmquist 2D-14H-C268 - Hz - Plan #1	7,800.0	7,686.4	94.4	64.5	3.156	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	28.0	27.3	42.829	CC, ES
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	700.0	692.3	56.9	54.5	23.840	SF
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	300.0	300.0	19.6	18.6	19.534	CC, ES
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	600.0	597.5	28.3	26.2	13.825	SF
Grant Salisbury 2C-14H-C268 - Hz - Plan #1	400.0	400.0	8.4	7.0	6.209	CC
Grant Salisbury 2C-14H-C268 - Hz - Plan #1	600.0	599.4	8.5	6.4	4.139	ES
Grant Salisbury 2C-14H-C268 - Hz - Plan #1	13,475.5	13,363.4	471.6	259.3	2.221	SF
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	400.0	400.0	11.2	9.8	8.278	CC, ES
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	13,475.5	13,253.7	450.1	252.0	2.272	SF
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	400.0	400.0	19.6	18.2	14.487	CC, ES
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	500.0	500.0	21.3	19.6	12.524	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	3,245.0	3,230.7	210.9	198.6	17.121	CC
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	3,400.0	3,385.3	211.2	198.3	16.347	ES
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	7,411.4	7,303.0	248.6	222.5	9.525	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	9,859.1	7,377.5	304.6	249.6	5.537	CC, ES
SALISBURY 1 (EXISTING) - EXISTING - GYRO	9,900.0	7,377.6	307.4	251.7	5.517	SF
SALISBURY 13-11 (EXISTING) - EXISTING - SURVEYS						Out of range
SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS	9,235.6	7,451.9	470.0	415.3	8.596	CC, ES
SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS	9,300.0	7,451.9	474.4	418.7	8.510	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 2D-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 2D-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)						
SALISBURY 2-4-11 (EXISTING) - EXISTING - SURVEYS	11,174.1	7,597.6	261.2	163.5	2.673	CC, ES, SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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 2-8-11 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 62-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		
8,300.0	7,410.0	7,671.8	7,401.1	24.8	33.0	90.66	1,430.5	-208.9	491.7	453.2	38.51	12.771		
8,400.0	7,410.0	7,671.0	7,400.3	26.3	33.0	90.49	1,430.5	-208.9	412.5	372.5	39.99	10.315		
8,500.0	7,410.0	7,670.2	7,399.5	27.7	33.0	90.33	1,430.5	-208.9	344.3	302.8	41.51	8.294		
8,600.0	7,410.0	7,669.4	7,398.7	29.2	33.0	90.16	1,430.5	-208.9	294.9	251.8	43.06	6.848		
8,700.0	7,410.0	7,668.6	7,397.9	30.7	33.0	89.99	1,430.5	-208.9	274.4	229.8	44.63	6.149		
8,708.1	7,410.0	7,668.5	7,397.8	30.8	33.0	89.98	1,430.5	-208.9	274.3	229.6	44.76	6.129	CC, ES, SF	
8,800.0	7,410.0	7,667.8	7,397.0	32.2	33.0	89.82	1,430.5	-208.9	289.3	243.1	46.22	6.259		
8,900.0	7,410.0	7,666.9	7,396.2	33.8	33.0	89.65	1,430.6	-208.9	334.8	286.9	47.82	7.000		
9,000.0	7,410.0	7,666.1	7,395.4	35.3	33.0	89.48	1,430.6	-208.9	400.5	351.1	49.44	8.102		
9,100.0	7,410.0	7,665.3	7,394.6	36.9	33.0	89.30	1,430.6	-208.9	478.3	427.3	51.07	9.366		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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 Elmquist 2C-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						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	6,783.2	8,111.0	7,200.0	14.4	21.7	13.73	-91.1	-675.7	473.3	442.7	30.60	15.467		
6,900.0	6,882.9	8,110.0	7,200.0	14.6	21.7	-55.04	-90.1	-675.7	384.3	354.9	29.39	13.073		
7,000.0	6,981.2	8,093.6	7,200.0	14.8	21.5	-90.87	-73.7	-675.6	303.3	275.0	28.30	10.719		
7,100.0	7,075.1	8,060.3	7,200.0	14.9	21.1	-96.88	-40.4	-675.5	238.7	210.4	28.27	8.443		
7,200.0	7,161.8	8,011.2	7,200.0	15.1	20.7	-91.58	8.7	-675.2	201.0	172.1	28.90	6.955		
7,265.3	7,213.3	7,971.2	7,200.0	15.3	20.3	-84.02	48.7	-675.0	194.3	164.8	29.43	6.601	CC, ES, SF	
7,300.0	7,238.7	7,947.7	7,200.0	15.4	20.1	-79.16	72.2	-674.9	195.9	166.4	29.56	6.628		
7,400.0	7,303.5	7,871.8	7,200.0	15.8	19.4	-64.48	148.1	-674.5	214.3	185.4	28.90	7.417		
7,500.0	7,354.1	7,785.8	7,200.0	16.3	18.8	-52.46	234.2	-674.0	240.3	213.5	26.84	8.954		
7,600.0	7,389.1	7,692.2	7,200.0	16.9	18.2	-44.86	327.7	-673.5	262.6	237.9	24.67	10.643		
7,700.0	7,407.3	7,594.0	7,200.0	17.8	17.8	-41.28	425.9	-673.0	275.4	251.8	23.56	11.685		
7,800.0	7,410.0	7,514.9	7,196.7	18.7	17.5	-40.31	504.9	-672.3	280.5	256.7	23.81	11.783		
7,900.0	7,410.0	7,442.2	7,184.4	19.8	17.3	-38.59	576.5	-670.7	292.9	268.9	23.97	12.217		
8,000.0	7,410.0	7,373.6	7,164.7	21.0	17.3	-36.01	642.1	-668.4	314.7	290.8	23.96	13.135		
8,100.0	7,410.0	7,310.5	7,139.7	22.2	17.3	-33.07	699.9	-665.6	346.4	322.6	23.83	14.534		
8,200.0	7,410.0	7,250.0	7,110.0	23.5	17.3	-30.00	752.5	-662.4	387.6	364.0	23.59	16.427		
8,300.0	7,410.0	7,200.0	7,081.4	24.8	17.3	-27.43	793.4	-659.3	437.4	414.0	23.43	18.670		
8,400.0	7,410.0	7,150.0	7,049.3	26.3	17.4	-24.91	831.6	-656.0	495.0	471.8	23.20	21.335		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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 Elmquist 2D-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						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		
7,000.0	6,981.2	8,280.8	7,410.0	14.8	19.6	152.58	-72.3	-398.9	434.0	401.4	32.57	13.325		
7,100.0	7,075.1	8,247.6	7,410.0	14.9	19.2	154.18	-39.1	-400.0	342.6	311.5	31.12	11.008		
7,200.0	7,161.8	8,199.0	7,410.0	15.1	18.7	152.36	9.5	-401.4	259.7	230.3	29.35	8.848		
7,300.0	7,238.7	8,136.2	7,410.0	15.4	18.1	146.94	72.2	-402.5	189.1	161.5	27.63	6.846		
7,400.0	7,303.5	8,061.3	7,410.0	15.8	17.4	136.69	147.1	-402.9	135.5	108.9	26.66	5.083		
7,500.0	7,354.1	7,976.6	7,410.0	16.3	16.6	120.76	231.9	-402.3	103.7	76.5	27.29	3.802		
7,600.0	7,389.1	7,883.3	7,410.0	16.9	16.0	102.94	325.2	-400.7	93.1	64.4	28.68	3.247		
7,644.5	7,399.3	7,840.0	7,410.0	17.3	15.7	96.77	368.4	-399.9	92.5	63.4	29.09	3.178 CC, ES		
7,700.0	7,407.3	7,785.1	7,410.0	17.8	15.4	91.73	423.3	-398.9	92.9	63.6	29.35	3.166		
7,800.0	7,410.0	7,686.4	7,404.7	18.7	15.1	86.76	521.7	-396.9	94.4	64.5	29.92	3.156 SF		
7,900.0	7,410.0	7,592.3	7,384.3	19.8	14.9	75.04	613.5	-394.2	100.1	70.1	30.05	3.333		
8,000.0	7,410.0	7,506.8	7,353.0	21.0	14.9	60.00	692.9	-391.0	118.1	89.3	28.81	4.101		
8,100.0	7,410.0	7,432.1	7,316.3	22.2	14.9	47.24	757.8	-387.7	153.1	126.2	26.84	5.702		
8,200.0	7,410.0	7,368.2	7,278.4	23.5	15.0	38.31	809.1	-384.7	203.2	178.0	25.20	8.067		
8,300.0	7,410.0	7,314.3	7,242.1	24.8	15.1	32.37	848.9	-381.9	264.8	240.7	24.12	10.979		
8,400.0	7,410.0	7,268.9	7,208.8	26.3	15.3	28.36	879.7	-379.5	334.5	311.0	23.50	14.237		
8,500.0	7,410.0	7,230.6	7,179.0	27.7	15.3	25.56	903.4	-377.3	410.2	387.0	23.18	17.695		
8,600.0	7,410.0	7,200.0	7,153.9	29.2	15.4	23.64	921.0	-375.6	490.3	467.2	23.11	21.218		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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						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	-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	CC, ES	
300.0	300.0	299.0	299.0	0.5	0.5	-90.20	-0.1	-29.7	29.7	28.7	1.00	29.579		
400.0	400.0	397.8	397.6	0.7	0.7	-90.67	-0.4	-34.8	34.9	33.5	1.37	25.451		
500.0	500.0	496.2	495.7	0.9	0.9	10.74	-0.9	-43.2	41.7	40.1	1.69	24.651		
600.0	599.8	594.4	593.2	1.0	1.2	11.21	-1.6	-55.0	48.6	46.6	2.04	23.849		
700.0	699.6	692.3	689.9	1.2	1.5	11.78	-2.5	-70.1	56.9	54.5	2.39	23.840	SF	
800.0	799.3	789.5	785.3	1.4	1.8	12.02	-3.6	-88.3	68.6	65.8	2.74	25.066		
900.0	899.0	886.2	879.6	1.7	2.2	12.02	-4.9	-109.6	83.5	80.4	3.08	27.098		
1,000.0	998.8	984.8	975.6	1.9	2.7	11.97	-6.2	-132.5	99.7	96.3	3.43	29.059		
1,100.0	1,098.5	1,083.5	1,071.5	2.1	3.1	11.94	-7.6	-155.5	116.0	112.2	3.78	30.656		
1,200.0	1,198.2	1,182.2	1,167.5	2.3	3.5	11.91	-9.0	-178.4	132.2	128.1	4.13	31.983		
1,300.0	1,298.0	1,280.9	1,263.4	2.5	4.0	11.89	-10.3	-201.4	148.4	143.9	4.48	33.103		
1,400.0	1,397.7	1,379.5	1,359.4	2.7	4.4	11.87	-11.7	-224.3	164.7	159.8	4.83	34.060		
1,500.0	1,497.4	1,478.2	1,455.4	2.9	4.8	11.86	-13.1	-247.3	180.9	175.7	5.18	34.888		
1,600.0	1,597.2	1,576.9	1,551.3	3.1	5.3	11.85	-14.5	-270.2	197.1	191.6	5.53	35.611		
1,700.0	1,696.9	1,675.6	1,647.3	3.4	5.7	11.84	-15.8	-293.2	213.3	207.4	5.89	36.248		
1,800.0	1,796.6	1,774.2	1,743.2	3.6	6.2	11.83	-17.2	-316.1	229.6	223.3	6.24	36.813		
1,900.0	1,896.4	1,872.9	1,839.2	3.8	6.6	11.82	-18.6	-339.1	245.8	239.2	6.59	37.319		
2,000.0	1,996.1	1,971.6	1,935.2	4.0	7.1	11.82	-19.9	-362.1	262.0	255.1	6.94	37.773		
2,100.0	2,095.8	2,070.2	2,031.1	4.2	7.5	11.81	-21.3	-385.0	278.2	270.9	7.29	38.183		
2,200.0	2,195.5	2,168.9	2,127.1	4.4	7.9	11.81	-22.7	-408.0	294.5	286.8	7.64	38.556		
2,300.0	2,295.3	2,267.6	2,223.0	4.6	8.4	11.80	-24.0	-430.9	310.7	302.7	7.99	38.897		
2,400.0	2,395.0	2,366.3	2,319.0	4.9	8.8	11.80	-25.4	-453.9	326.9	318.6	8.34	39.208		
2,500.0	2,494.7	2,464.9	2,414.9	5.1	9.3	11.79	-26.8	-476.8	343.1	334.4	8.69	39.495		
2,600.0	2,594.5	2,563.6	2,510.9	5.3	9.7	11.79	-28.2	-499.8	359.4	350.3	9.04	39.759		
2,700.0	2,694.2	2,662.3	2,606.9	5.5	10.2	11.79	-29.5	-522.7	375.6	366.2	9.39	40.004		
2,800.0	2,793.9	2,761.0	2,702.8	5.7	10.6	11.79	-30.9	-545.7	391.8	382.1	9.74	40.231		
2,900.0	2,893.7	2,859.6	2,798.8	5.9	11.1	11.78	-32.3	-568.6	408.0	398.0	10.09	40.442		
3,000.0	2,993.4	2,958.3	2,894.7	6.2	11.5	11.78	-33.6	-591.6	424.3	413.8	10.44	40.639		
3,100.0	3,093.1	3,057.0	2,990.7	6.4	12.0	11.78	-35.0	-614.5	440.5	429.7	10.79	40.823		
3,200.0	3,192.9	3,155.7	3,086.7	6.6	12.4	11.78	-36.4	-637.5	456.7	445.6	11.14	40.996		
3,300.0	3,292.6	3,254.3	3,182.6	6.8	12.8	11.77	-37.7	-660.5	472.9	461.5	11.49	41.158		
3,400.0	3,392.3	3,353.0	3,278.6	7.0	13.3	11.77	-39.1	-683.4	489.2	477.3	11.84	41.310		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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							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	-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	CC, ES			
400.0	400.0	399.3	399.3	0.7	0.7	-90.38	-0.1	-21.3	21.3	19.9	1.35	15.751				
500.0	500.0	498.4	498.3	0.9	0.9	11.02	-0.6	-26.4	24.8	23.1	1.70	14.594				
600.0	599.8	597.5	596.9	1.0	1.1	11.73	-1.3	-34.9	28.3	26.2	2.04	13.825	SF			
700.0	699.6	696.3	695.0	1.2	1.3	12.49	-2.3	-46.8	33.2	30.8	2.39	13.855				
800.0	799.3	794.7	792.2	1.4	1.6	12.54	-3.5	-62.0	41.5	38.7	2.74	15.116				
900.0	899.0	893.7	889.6	1.7	2.0	12.30	-5.0	-79.7	52.3	49.2	3.09	16.887				
1,000.0	998.8	993.1	987.4	1.9	2.3	12.12	-6.5	-97.6	63.2	59.7	3.45	18.329				
1,100.0	1,098.5	1,092.5	1,085.2	2.1	2.6	12.00	-8.0	-115.6	74.1	70.3	3.80	19.503				
1,200.0	1,198.2	1,191.9	1,182.9	2.3	3.0	11.91	-9.5	-133.5	85.0	80.8	4.15	20.479				
1,300.0	1,298.0	1,291.3	1,280.7	2.5	3.3	11.85	-11.0	-151.4	95.9	91.4	4.50	21.302				
1,400.0	1,397.7	1,390.7	1,378.5	2.7	3.7	11.79	-12.4	-169.3	106.8	102.0	4.85	22.005				
1,500.0	1,497.4	1,490.1	1,476.2	2.9	4.1	11.75	-13.9	-187.2	117.7	112.5	5.21	22.614				
1,600.0	1,597.2	1,589.5	1,574.0	3.1	4.4	11.71	-15.4	-205.1	128.6	123.1	5.56	23.146				
1,700.0	1,696.9	1,688.9	1,671.8	3.4	4.8	11.68	-16.9	-223.0	139.5	133.6	5.91	23.614				
1,800.0	1,796.6	1,788.3	1,769.5	3.6	5.1	11.65	-18.4	-240.9	150.4	144.2	6.26	24.030				
1,900.0	1,896.4	1,887.7	1,867.3	3.8	5.5	11.63	-19.9	-258.8	161.4	154.7	6.61	24.401				
2,000.0	1,996.1	1,987.1	1,965.1	4.0	5.8	11.61	-21.4	-276.7	172.3	165.3	6.96	24.735				
2,100.0	2,095.8	2,086.5	2,062.8	4.2	6.2	11.59	-22.9	-294.6	183.2	175.9	7.32	25.037				
2,200.0	2,195.5	2,185.9	2,160.6	4.4	6.6	11.57	-24.3	-312.5	194.1	186.4	7.67	25.311				
2,300.0	2,295.3	2,285.3	2,258.4	4.6	6.9	11.56	-25.8	-330.4	205.0	197.0	8.02	25.561				
2,400.0	2,395.0	2,384.7	2,356.1	4.9	7.3	11.55	-27.3	-348.3	215.9	207.5	8.37	25.790				
2,500.0	2,494.7	2,484.1	2,453.9	5.1	7.6	11.54	-28.8	-366.2	226.8	218.1	8.72	26.001				
2,600.0	2,594.5	2,583.6	2,551.7	5.3	8.0	11.52	-30.3	-384.1	237.7	228.6	9.07	26.195				
2,700.0	2,694.2	2,683.0	2,649.4	5.5	8.4	11.52	-31.8	-402.0	248.6	239.2	9.43	26.375				
2,800.0	2,793.9	2,782.4	2,747.2	5.7	8.7	11.51	-33.3	-419.9	259.5	249.8	9.78	26.542				
2,900.0	2,893.7	2,881.8	2,845.0	5.9	9.1	11.50	-34.8	-437.8	270.4	260.3	10.13	26.697				
3,000.0	2,993.4	2,981.2	2,942.7	6.2	9.5	11.49	-36.2	-455.7	281.3	270.9	10.48	26.842				
3,100.0	3,093.1	3,080.6	3,040.5	6.4	9.8	11.48	-37.7	-473.6	292.3	281.4	10.83	26.978				
3,200.0	3,192.9	3,180.0	3,138.3	6.6	10.2	11.48	-39.2	-491.5	303.2	292.0	11.19	27.104				
3,300.0	3,292.6	3,279.4	3,236.0	6.8	10.5	11.47	-40.7	-509.4	314.1	302.5	11.54	27.224				
3,400.0	3,392.3	3,378.8	3,333.8	7.0	10.9	11.47	-42.2	-527.3	325.0	313.1	11.89	27.336				
3,500.0	3,492.1	3,478.2	3,431.6	7.2	11.3	11.46	-43.7	-545.2	335.9	323.7	12.24	27.441				
3,600.0	3,591.8	3,577.6	3,529.3	7.4	11.6	11.46	-45.2	-563.1	346.8	334.2	12.59	27.541				
3,700.0	3,691.5	3,677.0	3,627.1	7.7	12.0	11.45	-46.7	-581.0	357.7	344.8	12.94	27.636				
3,800.0	3,791.3	3,776.4	3,724.9	7.9	12.3	11.45	-48.1	-598.9	368.6	355.3	13.30	27.725				
3,900.0	3,891.0	3,875.8	3,822.6	8.1	12.7	11.44	-49.6	-616.8	379.5	365.9	13.65	27.810				
4,000.0	3,990.7	3,975.2	3,920.4	8.3	13.1	11.44	-51.1	-634.7	390.4	376.4	14.00	27.890				
4,100.0	4,090.4	4,074.6	4,018.2	8.5	13.4	11.44	-52.6	-652.6	401.3	387.0	14.35	27.967				
4,200.0	4,190.2	4,174.0	4,115.9	8.7	13.8	11.43	-54.1	-670.5	412.3	397.6	14.70	28.040				
4,300.0	4,289.9	4,273.4	4,213.7	9.0	14.2	11.43	-55.6	-688.4	423.2	408.1	15.05	28.109				
4,400.0	4,389.6	4,372.8	4,311.5	9.2	14.5	11.43	-57.1	-706.4	434.1	418.7	15.41	28.175				
4,500.0	4,489.4	4,472.2	4,409.2	9.4	14.9	11.42	-58.6	-724.3	445.0	429.2	15.76	28.239				
4,600.0	4,589.1	4,571.6	4,507.0	9.6	15.2	11.42	-60.0	-742.2	455.9	439.8	16.11	28.299				
4,700.0	4,688.8	4,671.0	4,604.8	9.8	15.6	11.42	-61.5	-760.1	466.8	450.3	16.46	28.357				
4,800.0	4,788.6	4,770.4	4,702.5	10.0	16.0	11.42	-63.0	-778.0	477.7	460.9	16.81	28.413				
4,900.0	4,888.3	4,869.8	4,800.3	10.3	16.3	11.41	-64.5	-795.9	488.6	471.5	17.16	28.466				
5,000.0	4,988.0	4,969.2	4,898.1	10.5	16.7	11.41	-66.0	-813.8	499.5	482.0	17.52	28.517				

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 2D-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 2D-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 2C-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-8.4	8.4						
100.0	100.0	100.0	100.0	0.2	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	499.7	499.7	0.9	0.9	12.49	-0.2	-10.1	8.4	6.7	1.70	4.947			
600.0	599.8	599.4	599.3	1.0	1.0	15.31	-0.8	-15.3	8.5	6.4	2.05	4.139 ES			
700.0	699.6	699.1	698.6	1.2	1.3	17.12	-1.9	-23.9	10.0	7.6	2.40	4.157			
800.0	799.3	798.8	797.5	1.4	1.5	15.51	-3.3	-35.6	14.5	11.8	2.75	5.284			
900.0	899.0	898.6	896.6	1.7	1.7	14.38	-4.8	-47.8	19.7	16.6	3.11	6.334			
1,000.0	998.8	998.5	995.7	1.9	2.0	13.72	-6.3	-60.1	24.8	21.3	3.46	7.171			
1,100.0	1,098.5	1,098.4	1,094.8	2.1	2.3	13.29	-7.8	-72.4	29.9	26.1	3.81	7.854			
1,200.0	1,198.2	1,198.3	1,193.9	2.3	2.5	12.98	-9.3	-84.6	35.1	30.9	4.16	8.421			
1,300.0	1,298.0	1,298.1	1,293.0	2.5	2.8	12.76	-10.8	-96.9	40.2	35.7	4.52	8.900			
1,400.0	1,397.7	1,398.0	1,392.1	2.7	3.1	12.58	-12.2	-109.2	45.3	40.5	4.87	9.309			
1,500.0	1,497.4	1,497.9	1,491.2	2.9	3.3	12.44	-13.7	-121.4	50.5	45.2	5.22	9.663			
1,600.0	1,597.2	1,597.7	1,590.3	3.1	3.6	12.32	-15.2	-133.7	55.6	50.0	5.57	9.973			
1,700.0	1,696.9	1,697.6	1,689.4	3.4	3.9	12.23	-16.7	-146.0	60.7	54.8	5.93	10.246			
1,800.0	1,796.6	1,797.5	1,788.5	3.6	4.2	12.15	-18.2	-158.2	65.8	59.6	6.28	10.488			
1,900.0	1,896.4	1,897.3	1,887.6	3.8	4.4	12.08	-19.7	-170.5	71.0	64.4	6.63	10.704			
2,000.0	1,996.1	1,997.2	1,986.7	4.0	4.7	12.02	-21.2	-182.8	76.1	69.1	6.98	10.898			
2,100.0	2,095.8	2,097.1	2,085.8	4.2	5.0	11.97	-22.7	-195.0	81.2	73.9	7.34	11.074			
2,200.0	2,195.5	2,196.9	2,184.9	4.4	5.3	11.92	-24.2	-207.3	86.4	78.7	7.69	11.234			
2,300.0	2,295.3	2,296.8	2,284.0	4.6	5.5	11.88	-25.7	-219.6	91.5	83.5	8.04	11.379			
2,400.0	2,395.0	2,396.7	2,383.1	4.9	5.8	11.84	-27.1	-231.8	96.6	88.3	8.39	11.513			
2,500.0	2,494.7	2,496.5	2,482.2	5.1	6.1	11.81	-28.6	-244.1	101.8	93.0	8.75	11.636			
2,600.0	2,594.5	2,596.4	2,581.3	5.3	6.4	11.78	-30.1	-256.4	106.9	97.8	9.10	11.749			
2,700.0	2,694.2	2,696.3	2,680.4	5.5	6.6	11.76	-31.6	-268.6	112.0	102.6	9.45	11.853			
2,800.0	2,793.9	2,796.1	2,779.5	5.7	6.9	11.73	-33.1	-280.9	117.2	107.4	9.81	11.951			
2,900.0	2,893.7	2,896.0	2,878.6	5.9	7.2	11.71	-34.6	-293.2	122.3	112.2	10.16	12.041			
3,000.0	2,993.4	2,995.9	2,977.8	6.2	7.5	11.69	-36.1	-305.4	127.4	116.9	10.51	12.125			
3,100.0	3,093.1	3,095.7	3,076.9	6.4	7.8	11.67	-37.6	-317.7	132.6	121.7	10.86	12.204			
3,200.0	3,192.9	3,195.6	3,176.0	6.6	8.0	11.65	-39.1	-330.0	137.7	126.5	11.22	12.278			
3,300.0	3,292.6	3,295.5	3,275.1	6.8	8.3	11.64	-40.6	-342.2	142.8	131.3	11.57	12.348			
3,400.0	3,392.3	3,395.4	3,374.2	7.0	8.6	11.62	-42.0	-354.5	148.0	136.1	11.92	12.413			
3,500.0	3,492.1	3,495.2	3,473.3	7.2	8.9	11.61	-43.5	-366.8	153.1	140.8	12.27	12.475			
3,600.0	3,591.8	3,595.1	3,572.4	7.4	9.1	11.59	-45.0	-379.0	158.2	145.6	12.63	12.533			
3,700.0	3,691.5	3,695.0	3,671.5	7.7	9.4	11.58	-46.5	-391.3	163.4	150.4	12.98	12.588			
3,800.0	3,791.3	3,794.8	3,770.6	7.9	9.7	11.57	-48.0	-403.6	168.5	155.2	13.33	12.640			
3,900.0	3,891.0	3,894.7	3,869.7	8.1	10.0	11.56	-49.5	-415.8	173.6	160.0	13.68	12.689			
4,000.0	3,990.7	3,994.6	3,968.8	8.3	10.2	11.55	-51.0	-428.1	178.8	164.7	14.04	12.736			
4,100.0	4,090.4	4,094.4	4,067.9	8.5	10.5	11.54	-52.5	-440.4	183.9	169.5	14.39	12.781			
4,200.0	4,190.2	4,194.3	4,167.0	8.7	10.8	11.53	-54.0	-452.6	189.0	174.3	14.74	12.823			
4,300.0	4,289.9	4,294.2	4,266.1	9.0	11.1	11.52	-55.5	-464.9	194.2	179.1	15.09	12.864			
4,400.0	4,389.6	4,394.0	4,365.2	9.2	11.4	11.51	-56.9	-477.2	199.3	183.9	15.45	12.902			
4,500.0	4,489.4	4,493.9	4,464.3	9.4	11.6	11.50	-58.4	-489.4	204.4	188.6	15.80	12.939			
4,600.0	4,589.1	4,593.8	4,563.4	9.6	11.9	11.50	-59.9	-501.7	209.6	193.4	16.15	12.974			
4,700.0	4,688.8	4,693.6	4,662.5	9.8	12.2	11.49	-61.4	-514.0	214.7	198.2	16.51	13.008			
4,800.0	4,788.6	4,793.5	4,761.6	10.0	12.5	11.48	-62.9	-526.2	219.8	203.0	16.86	13.041			
4,900.0	4,888.3	4,893.4	4,860.7	10.3	12.8	11.47	-64.4	-538.5	225.0	207.8	17.21	13.072			
5,000.0	4,988.0	4,993.2	4,959.8	10.5	13.0	11.47	-65.9	-550.8	230.1	212.5	17.56	13.101			
5,100.0	5,087.8	5,093.1	5,058.9	10.7	13.3	11.46	-67.4	-563.0	235.2	217.3	17.92	13.130			

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 2D-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 2D-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 2C-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)				
5,200.0	5,187.5	5,193.0	5,158.0	10.9	13.6	11.46	-68.9	-575.3	240.4	222.1	18.27	13.158		
5,300.0	5,287.2	5,292.8	5,257.1	11.1	13.9	11.45	-70.4	-587.6	245.5	226.9	18.62	13.184		
5,400.0	5,387.0	5,392.7	5,356.2	11.3	14.1	11.45	-71.9	-599.8	250.6	231.7	18.97	13.210		
5,500.0	5,486.7	5,492.6	5,455.3	11.6	14.4	11.44	-73.3	-612.1	255.8	236.4	19.33	13.234		
5,600.0	5,586.4	5,592.5	5,554.4	11.8	14.7	11.44	-74.8	-624.4	260.9	241.2	19.68	13.258		
5,700.0	5,686.2	5,692.3	5,653.5	12.0	15.0	11.43	-76.3	-636.6	266.0	246.0	20.03	13.281		
5,800.0	5,785.9	5,792.2	5,752.6	12.2	15.3	11.43	-77.8	-648.9	271.2	250.8	20.38	13.303		
5,900.0	5,885.6	5,892.1	5,851.7	12.4	15.5	11.42	-79.3	-661.2	276.3	255.6	20.74	13.324		
6,000.0	5,985.3	5,991.9	5,950.8	12.6	15.8	11.42	-80.8	-673.4	281.4	260.3	21.09	13.345		
6,100.0	6,085.1	6,091.8	6,049.9	12.9	16.1	11.42	-82.3	-685.7	286.6	265.1	21.44	13.365		
6,200.0	6,184.8	6,191.7	6,149.0	13.1	16.4	11.41	-83.8	-698.0	291.7	269.9	21.80	13.384		
6,300.0	6,284.5	6,291.5	6,248.1	13.3	16.6	11.41	-85.3	-710.2	296.8	274.7	22.15	13.403		
6,400.0	6,384.3	6,391.4	6,347.2	13.5	16.9	11.40	-86.8	-722.5	302.0	279.5	22.50	13.421		
6,500.0	6,484.0	6,491.3	6,446.3	13.7	17.2	11.40	-88.2	-734.8	307.1	284.3	22.85	13.438		
6,600.0	6,583.7	6,591.1	6,545.4	13.9	17.5	11.40	-89.7	-747.0	312.2	289.0	23.21	13.455		
6,700.0	6,683.5	6,691.0	6,644.5	14.2	17.8	11.39	-91.2	-759.3	317.4	293.8	23.56	13.472		
6,800.0	6,783.2	6,790.5	6,743.2	14.4	18.0	11.80	-90.4	-771.6	322.5	298.6	23.92	13.483		
6,900.0	6,882.9	6,887.3	6,837.9	14.6	18.3	-44.64	-75.1	-783.4	328.2	303.9	24.36	13.474		
7,000.0	6,981.2	6,981.4	6,926.2	14.8	18.5	-68.16	-45.1	-794.6	334.9	310.2	24.73	13.542		
7,100.0	7,075.1	7,073.3	7,006.7	14.9	18.7	-71.48	-2.1	-805.0	342.2	317.2	24.99	13.693		
7,200.0	7,161.8	7,163.3	7,077.9	15.1	19.0	-71.54	52.1	-814.3	349.6	324.5	25.09	13.934		
7,300.0	7,238.7	7,250.0	7,137.7	15.4	19.3	-70.80	114.2	-822.2	356.8	331.5	25.21	14.153		
7,400.0	7,303.5	7,339.3	7,188.8	15.8	19.7	-69.84	187.0	-829.2	363.3	337.8	25.53	14.233		
7,500.0	7,354.1	7,425.8	7,227.0	16.3	20.1	-69.02	264.3	-834.6	368.9	342.7	26.24	14.059		
7,600.0	7,389.1	7,511.7	7,253.1	16.9	20.7	-68.43	346.0	-838.6	373.4	345.8	27.52	13.567		
7,700.0	7,407.3	7,600.0	7,267.1	17.8	21.3	-68.11	433.0	-841.0	376.4	347.0	29.45	12.782		
7,800.0	7,410.0	7,688.8	7,269.0	18.7	22.1	-68.11	521.8	-842.1	378.2	346.5	31.65	11.949		
7,900.0	7,410.0	7,788.8	7,269.0	19.8	23.0	-68.21	621.8	-842.9	379.8	346.0	33.85	11.219		
8,000.0	7,410.0	7,888.8	7,269.0	21.0	24.0	-68.30	721.7	-843.8	381.4	345.2	36.22	10.531		
8,100.0	7,410.0	7,988.8	7,269.0	22.2	25.1	-68.40	821.7	-844.7	383.1	344.3	38.72	9.892		
8,200.0	7,410.0	8,088.8	7,269.0	23.5	26.2	-68.49	921.7	-845.5	384.7	343.3	41.34	9.305		
8,300.0	7,410.0	8,188.7	7,269.0	24.8	27.5	-68.59	1,021.7	-846.4	386.3	342.3	44.05	8.770		
8,400.0	7,410.0	8,288.7	7,269.0	26.3	28.8	-68.68	1,121.7	-847.3	387.9	341.1	46.83	8.283		
8,500.0	7,410.0	8,388.7	7,269.0	27.7	30.1	-68.78	1,221.6	-848.2	389.6	339.9	49.68	7.841		
8,600.0	7,410.0	8,488.7	7,269.0	29.2	31.5	-68.87	1,321.6	-849.0	391.2	338.6	52.59	7.439		
8,700.0	7,410.0	8,588.7	7,269.0	30.7	32.9	-68.96	1,421.6	-849.9	392.8	337.3	55.54	7.073		
8,800.0	7,410.0	8,688.7	7,269.0	32.2	34.3	-69.05	1,521.6	-850.8	394.4	335.9	58.53	6.739		
8,900.0	7,410.0	8,788.6	7,269.0	33.8	35.8	-69.14	1,621.6	-851.6	396.1	334.5	61.56	6.434		
9,000.0	7,410.0	8,888.6	7,269.0	35.3	37.3	-69.23	1,721.5	-852.5	397.7	333.1	64.62	6.154		
9,100.0	7,410.0	8,988.6	7,269.0	36.9	38.8	-69.32	1,821.5	-853.4	399.3	331.6	67.71	5.898		
9,200.0	7,410.0	9,088.6	7,269.0	38.5	40.3	-69.41	1,921.5	-854.3	401.0	330.2	70.82	5.662		
9,300.0	7,410.0	9,188.6	7,269.0	40.2	41.9	-69.50	2,021.5	-855.1	402.6	328.7	73.95	5.444		
9,400.0	7,410.0	9,288.6	7,269.0	41.8	43.4	-69.58	2,121.5	-856.0	404.2	327.1	77.10	5.243		
9,500.0	7,410.0	9,388.6	7,269.0	43.4	45.0	-69.67	2,221.5	-856.9	405.9	325.6	80.27	5.057		
9,600.0	7,410.0	9,488.5	7,269.0	45.1	46.6	-69.75	2,321.4	-857.8	407.5	324.1	83.45	4.883		
9,700.0	7,410.0	9,588.5	7,269.0	46.7	48.2	-69.84	2,421.4	-858.6	409.2	322.5	86.65	4.722		
9,800.0	7,410.0	9,688.5	7,269.0	48.4	49.8	-69.92	2,521.4	-859.5	410.8	320.9	89.86	4.572		
9,900.0	7,410.0	9,788.5	7,269.0	50.0	51.5	-70.01	2,621.4	-860.4	412.4	319.3	93.08	4.431		
10,000.0	7,410.0	9,888.5	7,269.0	51.7	53.1	-70.09	2,721.4	-861.2	414.1	317.8	96.31	4.299		
10,100.0	7,410.0	9,988.5	7,269.0	53.4	54.7	-70.17	2,821.3	-862.1	415.7	316.2	99.56	4.176		
10,200.0	7,410.0	10,088.4	7,269.0	55.1	56.4	-70.25	2,921.3	-863.0	417.4	314.5	102.81	4.060		
10,300.0	7,410.0	10,188.4	7,269.0	56.8	58.0	-70.33	3,021.3	-863.9	419.0	312.9	106.07	3.950		

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 2D-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 2D-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 2C-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)			
10,400.0	7,410.0	10,288.4	7,269.0	58.5	59.7	-70.41	3,121.3	-864.7	420.6	311.3	109.34	3.847	
10,500.0	7,410.0	10,388.4	7,269.0	60.1	61.3	-70.49	3,221.3	-865.6	422.3	309.7	112.62	3.750	
10,600.0	7,410.0	10,488.4	7,269.0	61.8	63.0	-70.57	3,321.2	-866.5	423.9	308.0	115.90	3.658	
10,700.0	7,410.0	10,588.4	7,269.0	63.5	64.7	-70.65	3,421.2	-867.4	425.6	306.4	119.19	3.571	
10,800.0	7,410.0	10,688.4	7,269.0	65.3	66.4	-70.73	3,521.2	-868.2	427.2	304.7	122.49	3.488	
10,900.0	7,410.0	10,788.3	7,269.0	67.0	68.0	-70.80	3,621.2	-869.1	428.9	303.1	125.79	3.409	
11,000.0	7,410.0	10,888.3	7,269.0	68.7	69.7	-70.88	3,721.2	-870.0	430.5	301.4	129.10	3.335	
11,100.0	7,410.0	10,988.3	7,269.0	70.4	71.4	-70.96	3,821.1	-870.8	432.2	299.8	132.41	3.264	
11,200.0	7,410.0	11,088.3	7,269.0	72.1	73.1	-71.03	3,921.1	-871.7	433.8	298.1	135.73	3.196	
11,300.0	7,410.0	11,188.3	7,269.0	73.8	74.8	-71.11	4,021.1	-872.6	435.5	296.4	139.06	3.132	
11,400.0	7,410.0	11,288.3	7,269.0	75.5	76.5	-71.18	4,121.1	-873.5	437.1	294.7	142.39	3.070	
11,500.0	7,410.0	11,388.2	7,269.0	77.2	78.2	-71.25	4,221.1	-874.3	438.8	293.1	145.72	3.011	
11,600.0	7,410.0	11,488.2	7,269.0	79.0	79.9	-71.33	4,321.1	-875.2	440.4	291.4	149.06	2.955	
11,700.0	7,410.0	11,588.2	7,269.0	80.7	81.6	-71.40	4,421.0	-876.1	442.1	289.7	152.40	2.901	
11,800.0	7,410.0	11,688.2	7,269.0	82.4	83.3	-71.47	4,521.0	-877.0	443.7	288.0	155.75	2.849	
11,900.0	7,410.0	11,788.2	7,269.0	84.1	85.0	-71.54	4,621.0	-877.8	445.4	286.3	159.10	2.799	
12,000.0	7,410.0	11,888.2	7,269.0	85.9	86.7	-71.61	4,721.0	-878.7	447.0	284.6	162.45	2.752	
12,100.0	7,410.0	11,988.2	7,269.0	87.6	88.4	-71.68	4,821.0	-879.6	448.7	282.9	165.81	2.706	
12,200.0	7,410.0	12,088.1	7,269.0	89.3	90.2	-71.75	4,920.9	-880.4	450.4	281.2	169.17	2.662	
12,300.0	7,410.0	12,188.1	7,269.0	91.0	91.9	-71.82	5,020.9	-881.3	452.0	279.5	172.53	2.620	
12,400.0	7,410.0	12,288.1	7,269.0	92.8	93.6	-71.89	5,120.9	-882.2	453.7	277.8	175.90	2.579	
12,500.0	7,410.0	12,388.1	7,269.0	94.5	95.3	-71.96	5,220.9	-883.1	455.3	276.1	179.27	2.540	
12,600.0	7,410.0	12,488.1	7,269.0	96.2	97.0	-72.03	5,320.9	-883.9	457.0	274.4	182.64	2.502	
12,700.0	7,410.0	12,588.1	7,269.0	98.0	98.7	-72.09	5,420.8	-884.8	458.7	272.6	186.02	2.466	
12,800.0	7,410.0	12,688.1	7,269.0	99.7	100.5	-72.16	5,520.8	-885.7	460.3	270.9	189.40	2.430	
12,900.0	7,410.0	12,788.0	7,269.0	101.4	102.2	-72.23	5,620.8	-886.5	462.0	269.2	192.78	2.396	
13,000.0	7,410.0	12,888.0	7,269.0	103.2	103.9	-72.29	5,720.8	-887.4	463.6	267.5	196.16	2.364	
13,100.0	7,410.0	12,988.0	7,269.0	104.9	105.6	-72.36	5,820.8	-888.3	465.3	265.8	199.55	2.332	
13,200.0	7,410.0	13,088.0	7,269.0	106.6	107.4	-72.42	5,920.7	-889.2	467.0	264.0	202.94	2.301	
13,300.0	7,410.0	13,188.0	7,269.0	108.4	109.1	-72.49	6,020.7	-890.0	468.6	262.3	206.33	2.271	
13,400.0	7,410.0	13,288.0	7,269.0	110.1	110.8	-72.55	6,120.7	-890.9	470.3	260.6	209.73	2.242	
13,475.5	7,410.0	13,363.4	7,269.0	111.4	112.1	-72.60	6,196.2	-891.6	471.6	259.3	212.29	2.221 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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 2E-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							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	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		
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	11.2	11.2	9.8	1.35	8.278 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-170.00	0.0	11.2	12.9	11.2	1.70	7.590		
600.0	599.8	599.8	599.8	1.0	1.0	-172.87	0.0	11.2	18.1	16.0	2.05	8.833		
700.0	699.6	699.6	699.6	1.2	1.2	-174.92	0.0	11.2	25.3	22.9	2.39	10.582		
800.0	799.3	799.3	799.3	1.4	1.4	-176.06	0.0	11.2	32.6	29.9	2.74	11.898		
900.0	899.0	899.0	899.0	1.7	1.5	-176.78	0.0	11.2	39.9	36.9	3.09	12.921		
1,000.0	998.8	998.8	998.8	1.9	1.7	-177.28	0.0	11.2	47.3	43.8	3.44	13.737		
1,100.0	1,098.5	1,098.5	1,098.5	2.1	1.9	-177.64	0.0	11.2	54.6	50.8	3.79	14.404		
1,200.0	1,198.2	1,198.2	1,198.2	2.3	2.1	-177.92	0.0	11.2	61.9	57.7	4.14	14.959		
1,300.0	1,298.0	1,298.0	1,298.0	2.5	2.2	-178.14	0.0	11.2	69.2	64.7	4.49	15.429		
1,400.0	1,397.7	1,397.7	1,397.7	2.7	2.4	-178.32	0.0	11.2	76.5	71.7	4.83	15.830		
1,500.0	1,497.4	1,497.4	1,497.4	2.9	2.6	-178.47	0.0	11.2	83.8	78.7	5.18	16.178		
1,600.0	1,597.2	1,597.2	1,597.2	3.1	2.8	-178.59	0.0	11.2	91.2	85.6	5.53	16.482		
1,700.0	1,696.9	1,696.9	1,696.9	3.4	2.9	-178.69	0.0	11.2	98.5	92.6	5.88	16.750		
1,800.0	1,796.6	1,796.6	1,796.6	3.6	3.1	-178.78	0.0	11.2	105.8	99.6	6.23	16.988		
1,900.0	1,896.4	1,896.4	1,896.4	3.8	3.3	-178.86	0.0	11.2	113.1	106.5	6.58	17.201		
2,000.0	1,996.1	1,996.1	1,996.1	4.0	3.5	-178.93	0.0	11.2	120.4	113.5	6.92	17.393		
2,100.0	2,095.8	2,095.8	2,095.8	4.2	3.6	-178.99	0.0	11.2	127.7	120.5	7.27	17.566		
2,200.0	2,195.5	2,195.5	2,195.5	4.4	3.8	-179.05	0.0	11.2	135.1	127.4	7.62	17.724		
2,300.0	2,295.3	2,295.3	2,295.3	4.6	4.0	-179.10	0.0	11.2	142.4	134.4	7.97	17.867		
2,400.0	2,395.0	2,395.0	2,395.0	4.9	4.2	-179.14	0.0	11.2	149.7	141.4	8.32	17.999		
2,500.0	2,494.7	2,494.7	2,494.7	5.1	4.3	-179.18	0.0	11.2	157.0	148.4	8.67	18.120		
2,600.0	2,594.5	2,594.5	2,594.5	5.3	4.5	-179.22	0.0	11.2	164.3	155.3	9.01	18.232		
2,700.0	2,694.2	2,694.2	2,694.2	5.5	4.7	-179.25	0.0	11.2	171.7	162.3	9.36	18.335		
2,800.0	2,793.9	2,793.9	2,793.9	5.7	4.9	-179.28	0.0	11.2	179.0	169.3	9.71	18.431		
2,900.0	2,893.7	2,893.7	2,893.7	5.9	5.0	-179.31	0.0	11.2	186.3	176.2	10.06	18.520		
3,000.0	2,993.4	2,993.4	2,993.4	6.2	5.2	-179.34	0.0	11.2	193.6	183.2	10.41	18.604		
3,100.0	3,093.1	3,093.1	3,093.1	6.4	5.4	-179.36	0.0	11.2	200.9	190.2	10.76	18.682		
3,200.0	3,192.9	3,192.9	3,192.9	6.6	5.5	-179.38	0.0	11.2	208.3	197.2	11.10	18.755		
3,300.0	3,292.6	3,292.6	3,292.6	6.8	5.7	-179.40	0.0	11.2	215.6	204.1	11.45	18.823		
3,400.0	3,392.3	3,392.3	3,392.3	7.0	5.9	-179.42	0.0	11.2	222.9	211.1	11.80	18.888		
3,500.0	3,492.1	3,492.1	3,492.1	7.2	6.1	-179.44	0.0	11.2	230.2	218.1	12.15	18.949		
3,600.0	3,591.8	3,591.8	3,591.8	7.4	6.2	-179.46	0.0	11.2	237.6	225.1	12.50	19.006		
3,700.0	3,691.5	3,691.5	3,691.5	7.7	6.4	-179.47	0.0	11.2	244.9	232.0	12.85	19.061		
3,800.0	3,791.3	3,791.3	3,791.3	7.9	6.6	-179.49	0.0	11.2	252.2	239.0	13.20	19.112		
3,900.0	3,891.0	3,891.0	3,891.0	8.1	6.8	-179.50	0.0	11.2	259.5	246.0	13.54	19.161		
4,000.0	3,990.7	3,990.7	3,990.7	8.3	6.9	-179.52	0.0	11.2	266.8	252.9	13.89	19.208		
4,100.0	4,090.4	4,090.4	4,090.4	8.5	7.1	-179.53	0.0	11.2	274.2	259.9	14.24	19.252		
4,200.0	4,190.2	4,190.2	4,190.2	8.7	7.3	-179.54	0.0	11.2	281.5	266.9	14.59	19.294		
4,300.0	4,289.9	4,289.9	4,289.9	9.0	7.5	-179.55	0.0	11.2	288.8	273.9	14.94	19.334		
4,400.0	4,389.6	4,389.6	4,389.6	9.2	7.6	-179.57	0.0	11.2	296.1	280.8	15.29	19.372		
4,500.0	4,489.4	4,489.4	4,489.4	9.4	7.8	-179.58	0.0	11.2	303.4	287.8	15.63	19.409		
4,600.0	4,589.1	4,589.1	4,589.1	9.6	8.0	-179.59	0.0	11.2	310.8	294.8	15.98	19.444		
4,700.0	4,688.8	4,688.8	4,688.8	9.8	8.2	-179.60	0.0	11.2	318.1	301.7	16.33	19.477		
4,800.0	4,788.6	4,788.6	4,788.6	10.0	8.3	-179.60	0.0	11.2	325.4	308.7	16.68	19.509		
4,900.0	4,888.3	4,888.3	4,888.3	10.3	8.5	-179.61	0.0	11.2	332.7	315.7	17.03	19.540		
5,000.0	4,988.0	4,988.0	4,988.0	10.5	8.7	-179.62	0.0	11.2	340.0	322.7	17.38	19.569		
5,100.0	5,087.8	5,093.9	5,093.9	10.7	8.9	-179.42	-1.4	10.6	346.6	328.8	17.74	19.542		

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 2D-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 2D-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 2E-14H-C268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,187.5	5,200.3	5,200.2	10.9	9.1	-178.68	-6.5	8.6	351.2	333.1	18.10	19.404		
5,300.0	5,287.2	5,300.1	5,299.7	11.1	9.2	-177.77	-12.9	6.1	354.9	336.5	18.45	19.236		
5,400.0	5,387.0	5,399.9	5,399.3	11.3	9.4	-176.88	-19.2	3.6	358.8	340.0	18.81	19.077		
5,500.0	5,486.7	5,499.7	5,498.8	11.6	9.6	-176.01	-25.5	1.1	362.7	343.5	19.16	18.926		
5,600.0	5,586.4	5,599.4	5,598.3	11.8	9.8	-175.15	-31.9	-1.4	366.7	347.2	19.52	18.783		
5,700.0	5,686.2	5,699.2	5,697.9	12.0	10.0	-174.32	-38.2	-3.9	370.8	350.9	19.89	18.647		
5,800.0	5,785.9	5,799.0	5,797.4	12.2	10.1	-173.50	-44.6	-6.5	375.0	354.7	20.25	18.518		
5,900.0	5,885.6	5,898.7	5,896.9	12.4	10.3	-172.70	-50.9	-9.0	379.2	358.6	20.62	18.395		
6,000.0	5,985.3	5,998.5	5,996.5	12.6	10.5	-171.92	-57.3	-11.5	383.5	362.5	20.98	18.278		
6,100.0	6,085.1	6,098.3	6,096.0	12.9	10.7	-171.16	-63.6	-14.0	387.9	366.6	21.35	18.166		
6,200.0	6,184.8	6,198.1	6,195.6	13.1	10.9	-170.42	-70.0	-16.5	392.4	370.6	21.72	18.060		
6,300.0	6,284.5	6,297.8	6,295.1	13.3	11.1	-169.69	-76.3	-19.0	396.9	374.8	22.10	17.959		
6,400.0	6,384.3	6,397.6	6,394.6	13.5	11.3	-168.98	-82.7	-21.5	401.5	379.0	22.47	17.863		
6,500.0	6,484.0	6,497.4	6,494.2	13.7	11.4	-168.28	-89.0	-24.0	406.1	383.2	22.85	17.771		
6,600.0	6,583.7	6,597.1	6,593.7	13.9	11.6	-167.60	-95.4	-26.6	410.8	387.6	23.23	17.684		
6,700.0	6,683.5	6,697.8	6,694.2	14.2	11.8	-166.15	-92.9	-29.1	415.4	391.9	23.55	17.638		
6,800.0	6,783.2	6,794.2	6,788.6	14.4	11.9	-170.90	-74.2	-31.5	420.5	396.7	23.80	17.669		
6,900.0	6,882.9	6,882.7	6,871.4	14.6	12.0	125.37	-43.3	-33.6	428.0	403.9	24.03	17.809		
7,000.0	6,981.2	6,966.6	6,944.6	14.8	12.2	94.06	-2.5	-35.4	437.7	413.4	24.34	17.985		
7,100.0	7,075.1	7,050.0	7,010.7	14.9	12.4	83.64	48.2	-37.1	448.7	424.0	24.75	18.129		
7,200.0	7,161.8	7,125.6	7,063.7	15.1	12.6	77.55	102.0	-38.4	460.0	434.8	25.23	18.232		
7,300.0	7,238.7	7,200.0	7,108.6	15.4	13.0	73.21	161.3	-39.5	470.7	444.9	25.75	18.277		
7,400.0	7,303.5	7,276.8	7,146.4	15.8	13.4	69.96	228.1	-40.5	480.0	453.6	26.36	18.209		
7,500.0	7,354.1	7,350.0	7,173.8	16.3	14.0	67.67	295.9	-41.2	487.4	460.4	27.03	18.031		
7,600.0	7,389.1	7,423.7	7,192.5	16.9	14.6	66.16	367.1	-41.7	492.5	464.6	27.86	17.674		
7,700.0	7,407.3	7,500.0	7,202.0	17.8	15.4	65.38	442.8	-41.9	494.9	466.0	28.91	17.118		
7,800.0	7,410.0	7,582.1	7,203.0	18.7	16.3	65.26	524.8	-41.9	494.6	464.1	30.47	16.233		
7,900.0	7,410.0	7,682.1	7,203.0	19.8	17.6	65.22	624.8	-41.9	493.8	461.2	32.66	15.120		
8,000.0	7,410.0	7,782.1	7,203.0	21.0	18.8	65.17	724.8	-41.9	493.0	458.0	35.00	14.088		
8,100.0	7,410.0	7,882.1	7,203.0	22.2	20.2	65.13	824.8	-41.9	492.2	454.8	37.46	13.141		
8,200.0	7,410.0	7,982.1	7,203.0	23.5	21.6	65.09	924.8	-41.9	491.4	451.4	40.02	12.280		
8,300.0	7,410.0	8,082.1	7,203.0	24.8	23.1	65.05	1,024.8	-41.9	490.7	448.0	42.66	11.501		
8,400.0	7,410.0	8,182.1	7,203.0	26.3	24.6	65.00	1,124.8	-41.9	489.9	444.5	45.37	10.797		
8,500.0	7,410.0	8,282.1	7,203.0	27.7	26.1	64.96	1,224.8	-41.9	489.1	440.9	48.13	10.161		
8,600.0	7,410.0	8,382.1	7,203.0	29.2	27.7	64.92	1,324.8	-41.9	488.3	437.3	50.94	9.585		
8,700.0	7,410.0	8,482.1	7,203.0	30.7	29.3	64.87	1,424.8	-41.9	487.5	433.7	53.79	9.063		
8,800.0	7,410.0	8,582.1	7,203.0	32.2	30.9	64.83	1,524.8	-41.9	486.7	430.0	56.67	8.589		
8,900.0	7,410.0	8,682.1	7,203.0	33.8	32.5	64.78	1,624.8	-41.9	485.9	426.3	59.57	8.157		
9,000.0	7,410.0	8,782.1	7,203.0	35.3	34.1	64.74	1,724.8	-41.9	485.1	422.6	62.50	7.762		
9,100.0	7,410.0	8,882.1	7,203.0	36.9	35.8	64.70	1,824.8	-41.9	484.3	418.9	65.45	7.400		
9,200.0	7,410.0	8,982.1	7,203.0	38.5	37.4	64.65	1,924.8	-41.9	483.5	415.1	68.41	7.068		
9,300.0	7,410.0	9,082.0	7,203.0	40.2	39.1	64.61	2,024.8	-41.9	482.8	411.4	71.39	6.762		
9,400.0	7,410.0	9,182.0	7,203.0	41.8	40.8	64.56	2,124.8	-41.9	482.0	407.6	74.38	6.480		
9,500.0	7,410.0	9,282.0	7,203.0	43.4	42.4	64.52	2,224.8	-41.9	481.2	403.8	77.38	6.218		
9,600.0	7,410.0	9,382.0	7,203.0	45.1	44.1	64.47	2,324.8	-41.9	480.4	400.0	80.39	5.976		
9,700.0	7,410.0	9,482.0	7,203.0	46.7	45.8	64.43	2,424.8	-41.9	479.6	396.2	83.40	5.750		
9,800.0	7,410.0	9,582.0	7,203.0	48.4	47.5	64.38	2,524.8	-41.9	478.8	392.4	86.43	5.540		
9,900.0	7,410.0	9,682.0	7,203.0	50.0	49.2	64.34	2,624.8	-41.9	478.0	388.6	89.46	5.344		
10,000.0	7,410.0	9,782.0	7,203.0	51.7	50.9	64.29	2,724.8	-41.9	477.2	384.8	92.49	5.160		
10,100.0	7,410.0	9,882.0	7,203.0	53.4	52.6	64.25	2,824.8	-41.9	476.5	380.9	95.53	4.988		
10,200.0	7,410.0	9,982.0	7,203.0	55.1	54.3	64.20	2,924.7	-41.9	475.7	377.1	98.57	4.826		
10,300.0	7,410.0	10,082.0	7,203.0	56.8	56.0	64.16	3,024.7	-41.9	474.9	373.3	101.61	4.673		

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 2D-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 2D-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 2E-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						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	7,410.0	10,182.0	7,203.0	58.5	57.7	64.11	3,124.7	-41.9	474.1	369.4	104.66	4.530		
10,500.0	7,410.0	10,282.0	7,203.0	60.1	59.5	64.06	3,224.7	-41.9	473.3	365.6	107.71	4.394		
10,600.0	7,410.0	10,382.0	7,203.0	61.8	61.2	64.02	3,324.7	-41.9	472.5	361.8	110.76	4.266		
10,700.0	7,410.0	10,482.0	7,203.0	63.5	62.9	63.97	3,424.7	-41.9	471.7	357.9	113.81	4.145		
10,800.0	7,410.0	10,582.0	7,203.0	65.3	64.6	63.93	3,524.7	-41.9	471.0	354.1	116.86	4.030		
10,900.0	7,410.0	10,682.0	7,203.0	67.0	66.3	63.88	3,624.7	-41.9	470.2	350.3	119.91	3.921		
11,000.0	7,410.0	10,782.0	7,203.0	68.7	68.1	63.83	3,724.7	-41.9	469.4	346.4	122.97	3.817		
11,100.0	7,410.0	10,882.0	7,203.0	70.4	69.8	63.78	3,824.7	-41.9	468.6	342.6	126.02	3.719		
11,200.0	7,410.0	10,982.0	7,203.0	72.1	71.5	63.74	3,924.7	-41.9	467.8	338.8	129.07	3.625		
11,300.0	7,410.0	11,082.0	7,203.0	73.8	73.2	63.69	4,024.7	-41.9	467.0	334.9	132.13	3.535		
11,400.0	7,410.0	11,182.0	7,203.0	75.5	75.0	63.64	4,124.7	-41.9	466.3	331.1	135.18	3.449		
11,500.0	7,410.0	11,282.0	7,203.0	77.2	76.7	63.60	4,224.7	-41.9	465.5	327.3	138.23	3.368		
11,600.0	7,410.0	11,382.0	7,203.0	79.0	78.4	63.55	4,324.7	-41.9	464.7	323.4	141.28	3.289		
11,700.0	7,410.0	11,482.0	7,203.0	80.7	80.2	63.50	4,424.7	-41.9	463.9	319.6	144.33	3.214		
11,800.0	7,410.0	11,582.0	7,203.0	82.4	81.9	63.45	4,524.7	-41.9	463.1	315.8	147.38	3.143		
11,900.0	7,410.0	11,681.9	7,203.0	84.1	83.6	63.40	4,624.7	-41.9	462.4	311.9	150.42	3.074		
12,000.0	7,410.0	11,781.9	7,203.0	85.9	85.4	63.35	4,724.7	-41.9	461.6	308.1	153.47	3.008		
12,100.0	7,410.0	11,881.9	7,203.0	87.6	87.1	63.31	4,824.7	-41.9	460.8	304.3	156.51	2.944		
12,200.0	7,410.0	11,981.9	7,203.0	89.3	88.8	63.26	4,924.7	-41.9	460.0	300.5	159.55	2.883		
12,300.0	7,410.0	12,081.9	7,203.0	91.0	90.6	63.21	5,024.7	-41.9	459.2	296.6	162.59	2.824		
12,400.0	7,410.0	12,181.9	7,203.0	92.8	92.3	63.16	5,124.7	-41.9	458.5	292.8	165.63	2.768		
12,500.0	7,410.0	12,281.9	7,203.0	94.5	94.1	63.11	5,224.7	-41.9	457.7	289.0	168.67	2.714		
12,600.0	7,410.0	12,381.9	7,203.0	96.2	95.8	63.06	5,324.7	-41.9	456.9	285.2	171.70	2.661		
12,700.0	7,410.0	12,481.9	7,203.0	98.0	97.5	63.01	5,424.7	-41.9	456.1	281.4	174.73	2.610		
12,800.0	7,410.0	12,581.9	7,203.0	99.7	99.3	62.96	5,524.6	-41.9	455.3	277.6	177.76	2.562		
12,900.0	7,410.0	12,681.9	7,203.0	101.4	101.0	62.91	5,624.6	-41.9	454.6	273.8	180.79	2.514		
13,000.0	7,410.0	12,781.9	7,203.0	103.2	102.8	62.86	5,724.6	-41.9	453.8	270.0	183.82	2.469		
13,100.0	7,410.0	12,881.9	7,203.0	104.9	104.5	62.81	5,824.6	-41.9	453.0	266.2	186.84	2.425		
13,200.0	7,410.0	12,981.9	7,203.0	106.6	106.2	62.76	5,924.6	-41.9	452.2	262.4	189.86	2.382		
13,300.0	7,410.0	13,081.9	7,203.0	108.4	108.0	62.71	6,024.6	-41.9	451.5	258.6	192.88	2.341		
13,400.0	7,410.0	13,181.9	7,203.0	110.1	109.7	62.66	6,124.6	-41.9	450.7	254.8	195.90	2.301		
13,474.6	7,410.0	13,253.7	7,203.0	111.4	111.0	62.62	6,196.4	-41.9	450.1	252.0	198.10	2.272		
13,475.5	7,410.0	13,253.7	7,203.0	111.4	111.0	62.62	6,196.4	-41.9	450.1	252.0	198.12	2.272 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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 2F-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						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	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	-169.39	0.0	19.6	21.3	19.6	1.70	12.524 SF				
600.0	599.8	599.8	599.8	1.0	1.0	-171.46	0.0	19.6	26.4	24.4	2.05	12.923				
700.0	699.6	698.5	698.5	1.2	1.2	-172.12	-0.6	21.2	35.2	32.8	2.39	14.726				
800.0	799.3	797.4	797.3	1.4	1.4	-171.15	-2.1	25.3	46.5	43.8	2.74	16.973				
900.0	899.0	896.8	896.5	1.7	1.6	-170.48	-3.7	29.6	58.0	54.9	3.09	18.770				
1,000.0	998.8	996.1	995.8	1.9	1.7	-170.03	-5.3	33.9	69.5	66.1	3.44	20.202				
1,100.0	1,098.5	1,095.4	1,095.0	2.1	1.9	-169.71	-6.9	38.3	81.0	77.2	3.79	21.369				
1,200.0	1,198.2	1,194.8	1,194.2	2.3	2.1	-169.47	-8.5	42.6	92.5	88.4	4.14	22.338				
1,300.0	1,298.0	1,294.1	1,293.5	2.5	2.3	-169.28	-10.0	46.9	104.0	99.6	4.49	23.155				
1,400.0	1,397.7	1,393.4	1,392.7	2.7	2.5	-169.13	-11.6	51.2	115.6	110.7	4.84	23.854				
1,500.0	1,497.4	1,492.8	1,491.9	2.9	2.7	-169.00	-13.2	55.6	127.1	121.9	5.20	24.458				
1,600.0	1,597.2	1,592.1	1,591.1	3.1	2.9	-168.90	-14.8	59.9	138.6	133.0	5.55	24.985				
1,700.0	1,696.9	1,691.4	1,690.4	3.4	3.1	-168.81	-16.4	64.2	150.1	144.2	5.90	25.449				
1,800.0	1,796.6	1,790.8	1,789.6	3.6	3.2	-168.74	-18.0	68.5	161.6	155.3	6.25	25.861				
1,900.0	1,896.4	1,890.1	1,888.8	3.8	3.4	-168.67	-19.6	72.9	173.1	166.5	6.60	26.230				
2,000.0	1,996.1	1,989.5	1,988.1	4.0	3.6	-168.62	-21.2	77.2	184.6	177.7	6.95	26.560				
2,100.0	2,095.8	2,088.8	2,087.3	4.2	3.8	-168.57	-22.8	81.5	196.1	188.8	7.30	26.859				
2,200.0	2,195.5	2,188.1	2,186.5	4.4	4.0	-168.52	-24.3	85.8	207.6	200.0	7.65	27.131				
2,300.0	2,295.3	2,287.5	2,285.7	4.6	4.2	-168.48	-25.9	90.2	219.1	211.1	8.00	27.378				
2,400.0	2,395.0	2,386.8	2,385.0	4.9	4.4	-168.45	-27.5	94.5	230.6	222.3	8.36	27.605				
2,500.0	2,494.7	2,486.1	2,484.2	5.1	4.6	-168.41	-29.1	98.8	242.2	233.4	8.71	27.813				
2,600.0	2,594.5	2,585.5	2,583.4	5.3	4.8	-168.38	-30.7	103.2	253.7	244.6	9.06	28.005				
2,700.0	2,694.2	2,684.8	2,682.7	5.5	5.0	-168.36	-32.3	107.5	265.2	255.8	9.41	28.183				
2,800.0	2,793.9	2,784.1	2,781.9	5.7	5.1	-168.33	-33.9	111.8	276.7	266.9	9.76	28.348				
2,900.0	2,893.7	2,883.5	2,881.1	5.9	5.3	-168.31	-35.5	116.1	288.2	278.1	10.11	28.501				
3,000.0	2,993.4	2,982.8	2,980.3	6.2	5.5	-168.29	-37.1	120.5	299.7	289.2	10.46	28.644				
3,100.0	3,093.1	3,082.1	3,079.6	6.4	5.7	-168.27	-38.7	124.8	311.2	300.4	10.81	28.778				
3,200.0	3,192.9	3,181.5	3,178.8	6.6	5.9	-168.25	-40.2	129.1	322.7	311.6	11.17	28.904				
3,300.0	3,292.6	3,280.8	3,278.0	6.8	6.1	-168.24	-41.8	133.4	334.2	322.7	11.52	29.021				
3,400.0	3,392.3	3,380.1	3,377.2	7.0	6.3	-168.22	-43.4	137.8	345.7	333.9	11.87	29.132				
3,500.0	3,492.1	3,479.5	3,476.5	7.2	6.5	-168.20	-45.0	142.1	357.3	345.0	12.22	29.236				
3,600.0	3,591.8	3,578.8	3,575.7	7.4	6.7	-168.19	-46.6	146.4	368.8	356.2	12.57	29.335				
3,700.0	3,691.5	3,678.2	3,674.9	7.7	6.9	-168.18	-48.2	150.7	380.3	367.4	12.92	29.428				
3,800.0	3,791.3	3,777.5	3,774.2	7.9	7.0	-168.17	-49.8	155.1	391.8	378.5	13.27	29.516				
3,900.0	3,891.0	3,876.8	3,873.4	8.1	7.2	-168.15	-51.4	159.4	403.3	389.7	13.63	29.600				
4,000.0	3,990.7	3,976.2	3,972.6	8.3	7.4	-168.14	-53.0	163.7	414.8	400.8	13.98	29.679				
4,100.0	4,090.4	4,075.5	4,071.8	8.5	7.6	-168.13	-54.5	168.1	426.3	412.0	14.33	29.755				
4,200.0	4,190.2	4,174.8	4,171.1	8.7	7.8	-168.12	-56.1	172.4	437.8	423.2	14.68	29.827				
4,300.0	4,289.9	4,274.2	4,270.3	9.0	8.0	-168.11	-57.7	176.7	449.3	434.3	15.03	29.895				
4,400.0	4,389.6	4,373.5	4,369.5	9.2	8.2	-168.11	-59.3	181.0	460.9	445.5	15.38	29.961				
4,500.0	4,489.4	4,472.8	4,468.8	9.4	8.4	-168.10	-60.9	185.4	472.4	456.6	15.73	30.023				
4,600.0	4,589.1	4,572.2	4,568.0	9.6	8.6	-168.09	-62.5	189.7	483.9	467.8	16.08	30.083				
4,700.0	4,688.8	4,671.5	4,667.2	9.8	8.8	-168.08	-64.1	194.0	495.4	479.0	16.44	30.140				

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 2D-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 2D-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 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	-55.11	166.5	-238.8	291.1					
100.0	100.0	93.0	93.0	0.2	0.2	-55.11	166.5	-238.8	291.1	290.7	0.31	925.894		
200.0	200.0	193.0	193.0	0.3	0.3	-55.11	166.5	-238.8	291.1	290.4	0.66	438.728		
300.0	300.0	293.0	293.0	0.5	0.5	-55.11	166.5	-238.8	291.1	290.0	1.01	287.472		
400.0	400.0	393.0	393.0	0.7	0.7	-55.11	166.5	-238.8	291.1	289.7	1.36	213.772		
500.0	500.0	493.0	493.0	0.9	0.9	46.70	166.5	-238.8	289.9	288.1	1.71	169.369		
600.0	599.8	592.8	592.8	1.0	1.0	47.52	166.5	-238.8	286.3	284.2	2.07	138.462		
700.0	699.6	692.6	692.6	1.2	1.2	48.62	166.5	-238.8	281.4	279.0	2.43	115.809		
800.0	799.3	792.3	792.3	1.4	1.4	49.75	166.5	-238.8	276.6	273.8	2.80	98.912		
900.0	899.0	892.0	892.0	1.7	1.6	50.93	166.5	-238.8	271.9	268.8	3.17	85.879		
1,000.0	998.8	991.8	991.8	1.9	1.7	52.15	166.5	-238.8	267.4	263.8	3.54	75.545		
1,100.0	1,098.5	1,091.5	1,091.5	2.1	1.9	53.40	166.5	-238.8	262.9	259.0	3.91	67.170		
1,200.0	1,198.2	1,191.2	1,191.2	2.3	2.1	54.70	166.5	-238.8	258.6	254.3	4.29	60.257		
1,300.0	1,298.0	1,291.0	1,291.0	2.5	2.3	56.05	166.5	-238.8	254.5	249.8	4.67	54.465		
1,400.0	1,397.7	1,390.7	1,390.7	2.7	2.4	57.43	166.5	-238.8	250.4	245.4	5.05	49.551		
1,500.0	1,497.4	1,490.4	1,490.4	2.9	2.6	58.86	166.5	-238.8	246.6	241.1	5.44	45.339		
1,600.0	1,597.2	1,590.2	1,590.2	3.1	2.8	60.34	166.5	-238.8	242.9	237.0	5.82	41.696		
1,700.0	1,696.9	1,689.9	1,689.9	3.4	2.9	61.86	166.5	-238.8	239.3	233.1	6.21	38.520		
1,800.0	1,796.6	1,789.6	1,789.6	3.6	3.1	63.42	166.5	-238.8	235.9	229.3	6.60	35.734		
1,900.0	1,896.4	1,889.4	1,889.4	3.8	3.3	65.03	166.5	-238.8	232.8	225.8	6.99	33.277		
2,000.0	1,996.1	1,989.1	1,989.1	4.0	3.5	66.68	166.5	-238.8	229.8	222.4	7.39	31.099		
2,100.0	2,095.8	2,088.8	2,088.8	4.2	3.6	68.38	166.5	-238.8	226.9	219.2	7.78	29.162		
2,200.0	2,195.5	2,188.5	2,188.5	4.4	3.8	70.11	166.5	-238.8	224.3	216.2	8.18	27.432		
2,300.0	2,295.3	2,288.3	2,288.3	4.6	4.0	71.88	166.5	-238.8	222.0	213.4	8.58	25.884		
2,400.0	2,395.0	2,388.0	2,388.0	4.9	4.2	73.69	166.5	-238.8	219.8	210.8	8.97	24.495		
2,500.0	2,494.7	2,487.7	2,487.7	5.1	4.3	75.54	166.5	-238.8	217.8	208.5	9.37	23.246		
2,600.0	2,594.5	2,587.5	2,587.5	5.3	4.5	77.41	166.5	-238.8	216.1	206.4	9.77	22.123		
2,700.0	2,694.2	2,687.2	2,687.2	5.5	4.7	79.32	166.5	-238.8	214.6	204.5	10.17	21.111		
2,800.0	2,793.9	2,786.9	2,786.9	5.7	4.9	81.24	166.5	-238.8	213.4	202.8	10.56	20.200		
2,900.0	2,893.7	2,886.7	2,886.7	5.9	5.0	83.19	166.5	-238.8	212.4	201.4	10.96	19.378		
3,000.0	2,993.4	2,986.4	2,986.4	6.2	5.2	85.15	166.5	-238.8	211.7	200.3	11.36	18.638		
3,100.0	3,093.1	3,086.1	3,086.1	6.4	5.4	87.13	166.5	-238.8	211.2	199.4	11.75	17.971		
3,200.0	3,192.9	3,185.9	3,185.9	6.6	5.6	89.11	166.5	-238.8	210.9	198.8	12.14	17.371		
3,245.0	3,237.7	3,230.7	3,230.7	6.7	5.6	90.00	166.5	-238.8	210.9	198.6	12.32	17.121 CC		
3,300.0	3,292.6	3,285.6	3,285.6	6.8	5.7	91.09	166.5	-238.8	210.9	198.4	12.53	16.831		
3,400.0	3,392.3	3,385.3	3,385.3	7.0	5.9	93.07	166.5	-238.8	211.2	198.3	12.92	16.347 ES		
3,500.0	3,492.1	3,485.1	3,485.1	7.2	6.1	95.05	166.5	-238.8	211.7	198.4	13.30	15.913		
3,600.0	3,591.8	3,584.8	3,584.8	7.4	6.3	97.01	166.5	-238.8	212.5	198.8	13.69	15.525		
3,700.0	3,691.5	3,684.5	3,684.5	7.7	6.4	98.95	166.5	-238.8	213.5	199.4	14.07	15.180		
3,800.0	3,791.3	3,784.3	3,784.3	7.9	6.6	100.88	166.5	-238.8	214.8	200.3	14.44	14.872		
3,900.0	3,891.0	3,884.0	3,884.0	8.1	6.8	102.78	166.5	-238.8	216.3	201.5	14.81	14.600		
4,000.0	3,990.7	3,983.7	3,983.7	8.3	7.0	104.65	166.5	-238.8	218.0	202.8	15.18	14.359		
4,100.0	4,090.4	4,083.4	4,083.4	8.5	7.1	106.49	166.5	-238.8	220.0	204.4	15.55	14.148		
4,200.0	4,190.2	4,183.2	4,183.2	8.7	7.3	108.29	166.5	-238.8	222.2	206.3	15.91	13.963		
4,300.0	4,289.9	4,282.9	4,282.9	9.0	7.5	110.06	166.5	-238.8	224.6	208.3	16.27	13.802		
4,400.0	4,389.6	4,382.6	4,382.6	9.2	7.6	111.79	166.5	-238.8	227.2	210.6	16.63	13.663		
4,500.0	4,489.4	4,482.4	4,482.4	9.4	7.8	113.48	166.5	-238.8	230.0	213.1	16.98	13.545		
4,600.0	4,589.1	4,582.1	4,582.1	9.6	8.0	115.13	166.5	-238.8	233.1	215.7	17.34	13.445		
4,700.0	4,688.8	4,681.8	4,681.8	9.8	8.2	116.74	166.5	-238.8	236.3	218.6	17.68	13.361		
4,800.0	4,788.6	4,781.6	4,781.6	10.0	8.3	118.30	166.5	-238.8	239.7	221.6	18.03	13.292		
4,900.0	4,888.3	4,881.3	4,881.3	10.3	8.5	119.81	166.5	-238.8	243.2	224.8	18.38	13.237		
5,000.0	4,988.0	4,981.0	4,981.0	10.5	8.7	121.28	166.5	-238.8	247.0	228.2	18.72	13.194		

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 2D-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 2D-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							
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	
5,100.0	5,087.8	5,080.8	5,080.8	10.7	8.9	122.71	166.5	-238.8	250.8	231.8	19.06	13.162		
5,200.0	5,187.5	5,180.5	5,180.5	10.9	9.0	124.09	166.5	-238.8	254.9	235.5	19.40	13.140		
5,300.0	5,287.2	5,280.2	5,280.2	11.1	9.2	125.43	166.5	-238.8	259.1	239.3	19.74	13.127		
5,400.0	5,387.0	5,380.0	5,380.0	11.3	9.4	126.72	166.5	-238.8	263.4	243.3	20.07	13.122		
5,500.0	5,486.7	5,479.7	5,479.7	11.6	9.6	127.98	166.5	-238.8	267.8	247.4	20.41	13.124		
5,600.0	5,586.4	5,579.4	5,579.4	11.8	9.7	129.19	166.5	-238.8	272.4	251.7	20.74	13.133		
5,700.0	5,686.2	5,679.2	5,679.2	12.0	9.9	130.36	166.5	-238.8	277.1	256.0	21.08	13.147		
5,800.0	5,785.9	5,778.9	5,778.9	12.2	10.1	131.49	166.5	-238.8	281.9	260.5	21.41	13.167		
5,900.0	5,885.6	5,878.6	5,878.6	12.4	10.3	132.59	166.5	-238.8	286.8	265.1	21.74	13.191		
6,000.0	5,985.3	5,978.3	5,978.3	12.6	10.4	133.64	166.5	-238.8	291.8	269.7	22.07	13.220		
6,100.0	6,085.1	6,078.1	6,078.1	12.9	10.6	134.67	166.5	-238.8	296.9	274.5	22.41	13.252		
6,200.0	6,184.8	6,177.8	6,177.8	13.1	10.8	135.65	166.5	-238.8	302.1	279.4	22.74	13.287		
6,300.0	6,284.5	6,277.5	6,277.5	13.3	11.0	136.60	166.5	-238.8	307.4	284.3	23.07	13.326		
6,400.0	6,384.3	6,377.3	6,377.3	13.5	11.1	137.52	166.5	-238.8	312.8	289.4	23.40	13.366		
6,500.0	6,484.0	6,477.0	6,477.0	13.7	11.3	138.41	166.5	-238.8	318.2	294.5	23.73	13.409		
6,600.0	6,583.7	6,576.7	6,576.7	13.9	11.5	139.27	166.5	-238.8	323.7	299.7	24.06	13.454		
6,700.0	6,683.5	6,676.5	6,676.5	14.2	11.7	140.10	166.5	-238.8	329.3	304.9	24.39	13.500		
6,800.0	6,783.2	6,776.2	6,776.2	14.4	11.8	140.90	166.5	-238.8	335.0	310.3	24.73	13.548		
6,900.0	6,882.9	6,875.9	6,875.9	14.6	12.0	82.61	166.5	-238.8	338.8	313.7	25.05	13.522		
7,000.0	6,981.2	6,974.2	6,974.2	14.8	12.2	59.14	166.5	-238.8	331.1	306.0	25.12	13.184		
7,100.0	7,075.1	7,068.1	7,068.1	14.9	12.3	59.22	166.5	-238.8	312.5	287.5	25.00	12.498		
7,200.0	7,161.8	7,154.8	7,154.8	15.1	12.5	66.27	166.5	-238.8	287.0	261.9	25.05	11.456		
7,300.0	7,238.7	7,231.7	7,231.7	15.4	12.6	77.24	166.5	-238.8	262.0	236.5	25.48	10.281		
7,400.0	7,303.5	7,296.5	7,296.5	15.8	12.7	88.83	166.5	-238.8	248.8	222.7	26.04	9.554		
7,411.4	7,310.0	7,303.0	7,303.0	15.8	12.7	90.00	166.5	-238.8	248.6	222.5	26.10	9.525 SF		
7,500.0	7,354.1	7,347.1	7,347.1	16.3	12.8	97.19	166.5	-238.8	259.6	233.2	26.49	9.803		
7,600.0	7,389.1	7,382.1	7,382.1	16.9	12.9	99.86	166.5	-238.8	299.2	272.0	27.16	11.014		
7,700.0	7,407.3	7,400.3	7,400.3	17.8	12.9	95.60	166.5	-238.8	361.7	333.4	28.35	12.759		
7,800.0	7,410.0	7,403.0	7,403.0	18.7	12.9	90.00	166.5	-238.8	438.3	408.8	29.50	14.860		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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) - SALISBURY 1 (EXISTING) - EXISTING - GYRO			Offset Site Error:	0.0 ft					
Survey Program:				100-Gyro															Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance									Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor								
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)										
9,500.0	7,410.0	7,376.0	7,375.1	43.4	6.5	-90.02	2,586.5	-777.8	470.9	422.0	48.97	9.617								
9,600.0	7,410.0	7,376.4	7,375.5	45.1	6.5	-90.10	2,586.5	-777.8	399.9	349.3	50.65	7.896								
9,700.0	7,410.0	7,376.8	7,375.9	46.7	6.5	-90.17	2,586.5	-777.8	343.7	291.4	52.33	6.567								
9,800.0	7,410.0	7,377.2	7,376.3	48.4	6.5	-90.25	2,586.5	-777.8	310.3	256.3	54.02	5.744								
9,859.1	7,410.0	7,377.5	7,376.5	49.4	6.5	-90.29	2,586.5	-777.8	304.6	249.6	55.02	5.537	CC, ES							
9,900.0	7,410.0	7,377.6	7,376.7	50.0	6.5	-90.32	2,586.5	-777.8	307.4	251.7	55.72	5.517	SF							
10,000.0	7,410.0	7,378.0	7,377.1	51.7	6.5	-90.40	2,586.5	-777.8	335.6	278.2	57.41	5.846								
10,100.0	7,410.0	7,378.4	7,377.5	53.4	6.5	-90.47	2,586.5	-777.8	388.4	329.3	59.12	6.570								
10,200.0	7,410.0	7,378.8	7,377.9	55.1	6.5	-90.55	2,586.5	-777.8	457.2	396.4	60.82	7.517								

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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 14-11 (EXISTING) - EXISTING - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 104-MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
9,100.0	7,410.0	7,451.8	7,393.4	36.9	17.1	-90.17	1,964.5	-948.6	489.2	436.7	52.44	9.328		
9,200.0	7,410.0	7,451.8	7,393.5	38.5	17.1	-90.18	1,964.5	-948.6	471.3	417.3	54.09	8.714		
9,235.6	7,410.0	7,451.9	7,393.5	39.1	17.1	-90.19	1,964.5	-948.6	470.0	415.3	54.68	8.596 CC, ES		
9,300.0	7,410.0	7,451.9	7,393.6	40.2	17.1	-90.19	1,964.5	-948.6	474.4	418.7	55.75	8.510 SF		
9,400.0	7,410.0	7,452.0	7,393.7	41.8	17.1	-90.21	1,964.5	-948.6	497.9	440.5	57.41	8.673		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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) - SALISBURY 2-4-11 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 104-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		
10,800.0	7,410.0	7,592.3	7,387.1	65.3	28.0	88.93	3,896.5	-200.5	456.2	365.0	91.25	5.000		
10,900.0	7,410.0	7,593.7	7,388.5	67.0	28.0	89.24	3,896.5	-200.5	378.6	285.6	92.98	4.072		
11,000.0	7,410.0	7,595.1	7,390.0	68.7	28.0	89.56	3,896.5	-200.5	313.9	219.2	94.71	3.314		
11,100.0	7,410.0	7,596.5	7,391.4	70.4	28.0	89.87	3,896.5	-200.5	271.5	175.1	96.44	2.815		
11,174.1	7,410.0	7,597.6	7,392.5	71.6	28.0	90.11	3,896.5	-200.5	261.2	163.5	97.72	2.673	CC, ES, SF	
11,200.0	7,410.0	7,598.0	7,392.9	72.1	28.0	90.19	3,896.5	-200.5	262.5	164.3	98.16	2.674		
11,300.0	7,410.0	7,599.5	7,394.3	73.8	28.0	90.52	3,896.6	-200.5	290.0	190.1	99.89	2.903		
11,400.0	7,410.0	7,601.0	7,395.8	75.5	28.0	90.84	3,896.6	-200.5	345.3	243.7	101.61	3.398		
11,500.0	7,410.0	7,602.5	7,397.3	77.2	28.0	91.17	3,896.6	-200.5	417.6	314.3	103.33	4.042		
11,600.0	7,410.0	7,604.0	7,398.8	79.0	28.0	91.50	3,896.6	-200.5	499.6	394.5	105.05	4.756		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Grant Salisbury 2D-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 2D-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

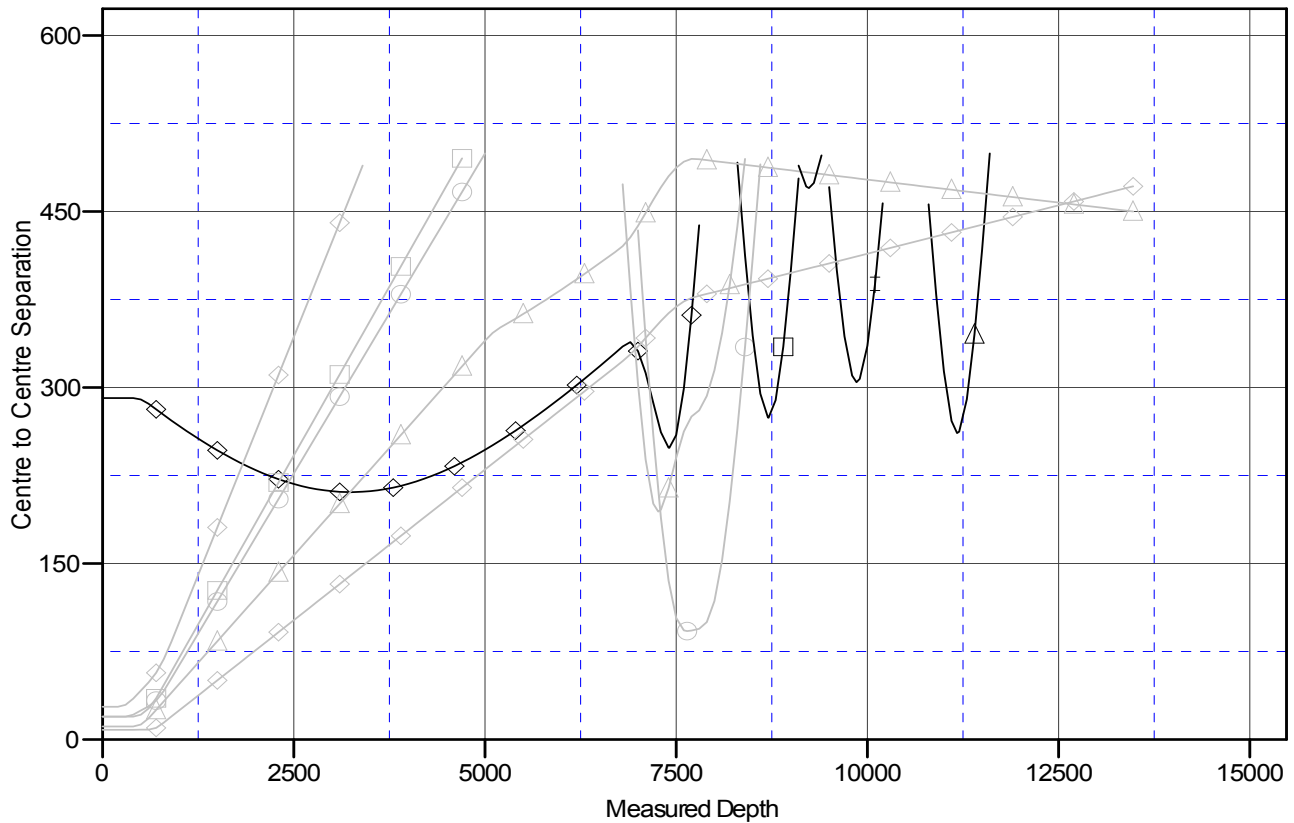
Central Meridian is -105.500000 °

Coordinates are relative to: Grant Salisbury 2D-14H-C268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

Y1 (EXISTING), EXISTING, GYRO V0	GRANT 2-8-11 (EXISTING), EXISTING, SURVEYS V0	GrantSalisbury2F-14H-C268, Hz, Plan #1
Y2 (EXISTING), EXISTING, NO SURVEYS V0	GrantSalisbury2E-14H-C268, Hz, Plan #1 V0	SALISBURY 14-11 (EXISTING), EXISTING
Y2-4-11 (EXISTING), EXISTING, SURVEYS V0	GrantSalisbury2A-14H-C268, Hz, Plan #1 V0	GrantElmquist2D-14H-C268, Hz, Plan #1
bury2B-14H-C268, Hz, Plan #1 V0	GrantElmquist2C-14H-C268, Hz, Plan #1 V0	GrantSalisbury2C-14H-C268, Hz, Plan #1