



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 1B-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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		S34-T2N-R66W (McConahay)			
Site Position:		Northing:	1,280,109.37 ft	Latitude:	40.099880
From:	Lat/Long	Easting:	3,208,491.04 ft	Longitude:	-104.754720
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.48 °

Well	McConahay 1B-34H-H266					
Well Position	+N/-S	0.0 ft	Northing:	1,279,424.78 ft	Latitude:	40.098020
	+E/-W	0.0 ft	Easting:	3,207,654.71 ft	Longitude:	-104.757730
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,062.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/16/2013	8.55	66.74	52,752

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	256.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,155.2	9.55	25.68	1,150.8	71.6	34.4	1.00	1.00	0.00	25.68	
6,980.6	9.55	25.68	6,895.4	942.8	453.3	0.00	0.00	0.00	0.00	
7,940.7	90.00	256.59	7,523.0	890.4	-120.0	10.00	8.38	-13.45	-128.70	McConahay 1B-34H-H
10,788.3	90.00	256.59	7,523.0	230.0	-2,890.0	0.00	0.00	0.00	0.00	McConahay 1B-34H-H
11,483.5	90.00	274.24	7,523.0	174.6	-3,580.2	2.54	0.00	2.54	90.00	
11,638.3	90.00	274.24	7,523.0	186.1	-3,734.7	0.00	0.00	0.00	0.00	McConahay 1B-34H-H

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 1B-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
300.0	1.00	25.68	300.0	0.8	0.4	-0.6	1.00	1.00	
400.0	2.00	25.68	400.0	3.1	1.5	-2.2	1.00	1.00	
500.0	3.00	25.68	499.9	7.1	3.4	-5.0	1.00	1.00	
600.0	4.00	25.68	599.7	12.6	6.0	-8.9	1.00	1.00	
700.0	5.00	25.68	699.4	19.6	9.4	-13.9	1.00	1.00	
800.0	6.00	25.68	798.9	28.3	13.6	-20.0	1.00	1.00	
900.0	7.00	25.68	898.3	38.5	18.5	-27.3	1.00	1.00	
996.6	7.97	25.68	994.0	49.8	24.0	-35.3	1.00	1.00	Fox Hills - BASE
1,000.0	8.00	25.68	997.4	50.3	24.2	-35.6	1.00	1.00	
1,100.0	9.00	25.68	1,096.3	63.6	30.6	-45.0	1.00	1.00	
1,155.2	9.55	25.68	1,150.8	71.6	34.4	-50.7	1.00	1.00	EOB @ Inc. = 9.55°
1,200.0	9.55	25.68	1,195.0	78.3	37.6	-55.5	0.00	0.00	
1,300.0	9.55	25.68	1,293.6	93.2	44.8	-66.1	0.00	0.00	
1,400.0	9.55	25.68	1,392.2	108.2	52.0	-76.7	0.00	0.00	
1,500.0	9.55	25.68	1,490.8	123.2	59.2	-87.2	0.00	0.00	
1,600.0	9.55	25.68	1,589.4	138.1	66.4	-97.8	0.00	0.00	
1,700.0	9.55	25.68	1,688.0	153.1	73.6	-108.4	0.00	0.00	
1,800.0	9.55	25.68	1,786.6	168.0	80.8	-119.0	0.00	0.00	
1,900.0	9.55	25.68	1,885.3	183.0	88.0	-129.6	0.00	0.00	
2,000.0	9.55	25.68	1,983.9	197.9	95.2	-140.2	0.00	0.00	
2,100.0	9.55	25.68	2,082.5	212.9	102.4	-150.8	0.00	0.00	
2,200.0	9.55	25.68	2,181.1	227.8	109.5	-161.4	0.00	0.00	
2,300.0	9.55	25.68	2,279.7	242.8	116.7	-172.0	0.00	0.00	
2,400.0	9.55	25.68	2,378.3	257.8	123.9	-182.6	0.00	0.00	
2,500.0	9.55	25.68	2,476.9	272.7	131.1	-193.2	0.00	0.00	
2,600.0	9.55	25.68	2,575.6	287.7	138.3	-203.8	0.00	0.00	
2,700.0	9.55	25.68	2,674.2	302.6	145.5	-214.4	0.00	0.00	
2,800.0	9.55	25.68	2,772.8	317.6	152.7	-225.0	0.00	0.00	
2,900.0	9.55	25.68	2,871.4	332.5	159.9	-235.6	0.00	0.00	
3,000.0	9.55	25.68	2,970.0	347.5	167.1	-246.2	0.00	0.00	
3,100.0	9.55	25.68	3,068.6	362.4	174.3	-256.8	0.00	0.00	
3,200.0	9.55	25.68	3,167.2	377.4	181.4	-267.4	0.00	0.00	
3,300.0	9.55	25.68	3,265.8	392.4	188.6	-278.0	0.00	0.00	
3,400.0	9.55	25.68	3,364.5	407.3	195.8	-288.6	0.00	0.00	
3,500.0	9.55	25.68	3,463.1	422.3	203.0	-299.1	0.00	0.00	
3,600.0	9.55	25.68	3,561.7	437.2	210.2	-309.7	0.00	0.00	
3,700.0	9.55	25.68	3,660.3	452.2	217.4	-320.3	0.00	0.00	
3,800.0	9.55	25.68	3,758.9	467.1	224.6	-330.9	0.00	0.00	
3,900.0	9.55	25.68	3,857.5	482.1	231.8	-341.5	0.00	0.00	
4,000.0	9.55	25.68	3,956.1	497.0	239.0	-352.1	0.00	0.00	
4,100.0	9.55	25.68	4,054.8	512.0	246.2	-362.7	0.00	0.00	
4,200.0	9.55	25.68	4,153.4	527.0	253.4	-373.3	0.00	0.00	
4,300.0	9.55	25.68	4,252.0	541.9	260.5	-383.9	0.00	0.00	
4,400.0	9.55	25.68	4,350.6	556.9	267.7	-394.5	0.00	0.00	
4,500.0	9.55	25.68	4,449.2	571.8	274.9	-405.1	0.00	0.00	
4,600.0	9.55	25.68	4,547.8	586.8	282.1	-415.7	0.00	0.00	
4,694.5	9.55	25.68	4,641.0	600.9	288.9	-425.7	0.00	0.00	Sussex
4,700.0	9.55	25.68	4,646.4	601.7	289.3	-426.3	0.00	0.00	
4,800.0	9.55	25.68	4,745.0	616.7	296.5	-436.9	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 1B-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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
4,900.0	9.55	25.68	4,843.7	631.6	303.7	-447.5	0.00	0.00	
4,907.4	9.55	25.68	4,851.0	632.8	304.2	-448.3	0.00	0.00	Sussex Marker
5,000.0	9.55	25.68	4,942.3	646.6	310.9	-458.1	0.00	0.00	
5,100.0	9.55	25.68	5,040.9	661.6	318.1	-468.7	0.00	0.00	
5,200.0	9.55	25.68	5,139.5	676.5	325.3	-479.3	0.00	0.00	
5,300.0	9.55	25.68	5,238.1	691.5	332.4	-489.9	0.00	0.00	
5,336.4	9.55	25.68	5,274.0	696.9	335.1	-493.7	0.00	0.00	Shannon
5,400.0	9.55	25.68	5,336.7	706.4	339.6	-500.4	0.00	0.00	
5,500.0	9.55	25.68	5,435.3	721.4	346.8	-511.0	0.00	0.00	
5,600.0	9.55	25.68	5,534.0	736.3	354.0	-521.6	0.00	0.00	
5,700.0	9.55	25.68	5,632.6	751.3	361.2	-532.2	0.00	0.00	
5,800.0	9.55	25.68	5,731.2	766.2	368.4	-542.8	0.00	0.00	
5,900.0	9.55	25.68	5,829.8	781.2	375.6	-553.4	0.00	0.00	
6,000.0	9.55	25.68	5,928.4	796.2	382.8	-564.0	0.00	0.00	
6,100.0	9.55	25.68	6,027.0	811.1	390.0	-574.6	0.00	0.00	
6,200.0	9.55	25.68	6,125.6	826.1	397.2	-585.2	0.00	0.00	
6,300.0	9.55	25.68	6,224.3	841.0	404.3	-595.8	0.00	0.00	
6,400.0	9.55	25.68	6,322.9	856.0	411.5	-606.4	0.00	0.00	
6,478.2	9.55	25.68	6,400.0	867.7	417.2	-614.7	0.00	0.00	Teepee Buttes (*if present)
6,500.0	9.55	25.68	6,421.5	870.9	418.7	-617.0	0.00	0.00	
6,600.0	9.55	25.68	6,520.1	885.9	425.9	-627.6	0.00	0.00	
6,700.0	9.55	25.68	6,618.7	900.8	433.1	-638.2	0.00	0.00	
6,800.0	9.55	25.68	6,717.3	915.8	440.3	-648.8	0.00	0.00	
6,900.0	9.55	25.68	6,815.9	930.8	447.5	-659.4	0.00	0.00	
6,980.6	9.55	25.68	6,895.4	942.8	453.3	-667.9	0.00	0.00	Start 10° Build/Turn
7,000.0	8.47	15.36	6,914.6	945.6	454.4	-669.6	10.00	-5.56	
7,050.0	7.50	339.42	6,964.1	952.3	454.2	-671.1	10.00	-1.95	
7,100.0	9.51	307.85	7,013.6	957.8	449.8	-668.1	10.00	4.01	
7,150.0	13.20	290.43	7,062.6	962.4	441.2	-660.9	10.00	7.39	
7,200.0	17.54	280.99	7,110.8	965.8	428.4	-649.3	10.00	8.69	
7,250.0	22.16	275.29	7,157.9	968.1	411.6	-633.6	10.00	9.23	
7,259.9	23.09	274.43	7,167.0	968.4	407.8	-630.0	10.00	9.42	Sharon Springs
7,300.0	26.91	271.50	7,203.3	969.3	390.9	-613.8	10.00	9.52	
7,308.6	27.74	270.97	7,211.0	969.4	386.9	-610.0	10.00	9.59	Niobrara
7,350.0	31.73	268.79	7,246.9	969.3	366.4	-590.0	10.00	9.65	
7,398.4	36.44	266.78	7,287.0	968.2	339.3	-563.5	10.00	9.73	B Chalk
7,400.0	36.59	266.72	7,288.3	968.2	338.4	-562.6	10.00	9.76	
7,423.7	38.91	265.90	7,307.0	967.2	323.9	-548.3	10.00	9.77	B Marl
7,450.0	41.49	265.08	7,327.1	965.9	307.0	-531.5	10.00	9.80	
7,488.4	45.26	264.03	7,355.0	963.4	280.7	-505.5	10.00	9.82	C Chalk
7,500.0	46.40	263.74	7,363.1	962.5	272.5	-497.2	10.00	9.84	
7,539.0	50.24	262.83	7,389.0	959.1	243.6	-468.4	10.00	9.85	C Marl
7,550.0	51.32	262.59	7,396.0	958.0	235.1	-459.9	10.00	9.86	
7,600.0	56.26	261.60	7,425.5	952.4	195.2	-419.8	10.00	9.87	
7,650.0	61.20	260.71	7,451.4	945.9	152.9	-377.2	10.00	9.88	
7,700.0	66.15	259.90	7,473.6	938.3	108.8	-332.5	10.00	9.89	
7,750.0	71.10	259.15	7,491.8	929.8	63.0	-286.1	10.00	9.90	
7,760.0	72.09	259.01	7,495.0	928.0	53.7	-276.6	10.00	9.91	Ft. Hayes
7,800.0	76.05	258.45	7,506.0	920.5	16.0	-238.2	10.00	9.91	
7,850.0	81.01	257.77	7,515.9	910.4	-32.0	-189.2	10.00	9.91	
7,864.6	82.46	257.58	7,518.0	907.4	-46.1	-174.8	10.00	9.91	Codell
7,900.0	85.97	257.12	7,521.6	899.6	-80.4	-139.6	10.00	9.91	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 1B-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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
7,940.7	90.00	256.59	7,523.0	890.4	-120.0	-99.0	10.00	9.92	LP @ 7,523' TVD, 90°
8,000.0	90.00	256.59	7,523.0	876.6	-177.7	-39.6	0.00	0.00	
8,100.0	90.00	256.59	7,523.0	853.4	-275.0	60.4	0.00	0.00	
8,200.0	90.00	256.59	7,523.0	830.3	-372.3	160.3	0.00	0.00	
8,300.0	90.00	256.59	7,523.0	807.1	-469.5	260.3	0.00	0.00	
8,400.0	90.00	256.59	7,523.0	783.9	-566.8	360.3	0.00	0.00	
8,500.0	90.00	256.59	7,523.0	760.7	-664.1	460.3	0.00	0.00	
8,600.0	90.00	256.59	7,523.0	737.5	-761.4	560.3	0.00	0.00	
8,700.0	90.00	256.59	7,523.0	714.3	-858.6	660.3	0.00	0.00	
8,800.0	90.00	256.59	7,523.0	691.1	-955.9	760.3	0.00	0.00	
8,900.0	90.00	256.59	7,523.0	667.9	-1,053.2	860.3	0.00	0.00	
9,000.0	90.00	256.59	7,523.0	644.7	-1,150.5	960.3	0.00	0.00	
9,100.0	90.00	256.59	7,523.0	621.5	-1,247.7	1,060.3	0.00	0.00	
9,200.0	90.00	256.59	7,523.0	598.3	-1,345.0	1,160.3	0.00	0.00	
9,300.0	90.00	256.59	7,523.0	575.2	-1,442.3	1,260.3	0.00	0.00	
9,400.0	90.00	256.59	7,523.0	552.0	-1,539.5	1,360.3	0.00	0.00	
9,500.0	90.00	256.59	7,523.0	528.8	-1,636.8	1,460.3	0.00	0.00	
9,600.0	90.00	256.59	7,523.0	505.6	-1,734.1	1,560.3	0.00	0.00	
9,700.0	90.00	256.59	7,523.0	482.4	-1,831.4	1,660.3	0.00	0.00	
9,800.0	90.00	256.59	7,523.0	459.2	-1,928.6	1,760.3	0.00	0.00	
9,900.0	90.00	256.59	7,523.0	436.0	-2,025.9	1,860.3	0.00	0.00	
10,000.0	90.00	256.59	7,523.0	412.8	-2,123.2	1,960.3	0.00	0.00	
10,100.0	90.00	256.59	7,523.0	389.6	-2,220.5	2,060.2	0.00	0.00	
10,200.0	90.00	256.59	7,523.0	366.4	-2,317.7	2,160.2	0.00	0.00	
10,300.0	90.00	256.59	7,523.0	343.2	-2,415.0	2,260.2	0.00	0.00	
10,400.0	90.00	256.59	7,523.0	320.1	-2,512.3	2,360.2	0.00	0.00	
10,500.0	90.00	256.59	7,523.0	296.9	-2,609.6	2,460.2	0.00	0.00	
10,600.0	90.00	256.59	7,523.0	273.7	-2,706.8	2,560.2	0.00	0.00	
10,700.0	90.00	256.59	7,523.0	250.5	-2,804.1	2,660.2	0.00	0.00	
10,788.3	90.00	256.59	7,523.0	230.0	-2,890.0	2,748.5	0.00	0.00	Start Turn
10,800.0	90.00	256.89	7,523.0	227.3	-2,901.4	2,760.2	2.54	0.00	
10,900.0	90.00	259.43	7,523.0	206.8	-2,999.2	2,860.1	2.54	0.00	
11,000.0	90.00	261.96	7,523.0	190.6	-3,097.9	2,959.8	2.54	0.00	
11,100.0	90.00	264.50	7,523.0	178.8	-3,197.2	3,059.0	2.54	0.00	
11,200.0	90.00	267.04	7,523.0	171.5	-3,296.9	3,157.5	2.54	0.00	
11,300.0	90.00	269.58	7,523.0	168.5	-3,396.9	3,255.2	2.54	0.00	
11,400.0	90.00	272.12	7,523.0	170.0	-3,496.9	3,351.9	2.54	0.00	
11,483.5	90.00	274.24	7,523.0	174.6	-3,580.2	3,431.6	2.54	0.00	Hold
11,500.0	90.00	274.24	7,523.0	175.9	-3,596.7	3,447.3	0.00	0.00	
11,600.0	90.00	274.24	7,523.0	183.2	-3,696.4	3,542.3	0.00	0.00	
11,638.3	90.00	274.24	7,523.0	186.1	-3,734.7	3,578.7	0.00	0.00	TD @ 11,638.3' MD

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 1B-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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)		
McConahay 1B-34H-H2I - plan misses target center by 2.3ft at 10798.0ft MD (7523.0 TVD, 227.8 N, -2899.5 E) - Point	0.00	0.00	7,523.0	230.0	-2,900.0	1,279,630.50	3,204,752.89	40.098651	-104.768096
McConahay 1B-34H-H2I - plan hits target center - Point	0.00	0.00	7,523.0	230.0	-2,890.0	1,279,630.58	3,204,762.89	40.098651	-104.768061
McConahay 1B-34H-H2I - plan hits target center - Point	0.00	0.00	7,523.0	186.1	-3,734.7	1,279,579.58	3,203,918.63	40.098530	-104.771080
McConahay 1B-34H-H2I - plan hits target center - Point	0.00	0.00	7,523.0	890.4	-120.0	1,280,314.14	3,207,527.26	40.100464	-104.758159

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
996.6	994.0	Fox Hills - BASE				
4,694.5	4,641.0	Sussex				
4,907.4	4,851.0	Sussex Marker				
5,336.4	5,274.0	Shannon				
6,478.2	6,400.0	Teepee Buttes (*if present)				
7,259.9	7,167.0	Sharon Springs				
7,308.6	7,211.0	Niobrara				
7,398.4	7,287.0	B Chalk				
7,423.7	7,307.0	B Marl				
7,488.4	7,355.0	C Chalk				
7,539.0	7,389.0	C Marl				
7,760.0	7,495.0	Ft. Hayes				
7,864.6	7,518.0	Codell				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
200.0	200.0	0.0	0.0	KOP @ 200'	
1,155.2	1,150.8	71.6	34.4	EOB @ Inc. = 9.55°	
6,980.6	6,895.4	942.8	453.3	Start 10° Build/Turn	
7,940.7	7,523.0	890.4	-120.0	LP @ 7,523' TVD, 90°	
10,788.3	7,523.0	230.0	-2,890.0	Start Turn	
11,483.5	7,523.0	174.6	-3,580.2	Hold	
11,638.3	7,523.0	186.1	-3,734.7	TD @ 11,638.3' MD	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S34-T2N-R66W (McConahay)

McConahay 1B-34H-H266

Hz

Plan #3

Anticollision Report

20 August, 2013

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Reference	Plan #3		
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 1,410.7ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	8/20/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,638.3	Plan #3 (Hz)	Geolink MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
S26-T2N-R66W (Rodman Bruntz)						
BADDING-USX W 35-4 (EXISTING) - Existing - Existing	7,019.5	6,932.9	1,310.5	1,277.5	39.641	CC, ES, SF
Rodman Bruntz 2A-26H - DD - Plan #2	7,100.0	12,875.9	874.3	756.6	7.425	SF
Rodman Bruntz 2A-26H - DD - Plan #2	7,181.7	12,869.1	864.9	750.7	7.571	CC, ES
SHAHER 4-35A (EXISTING) - Existing - Existing	7,022.3	6,929.6	1,078.5	1,045.6	32.835	CC, ES, SF
S34-T2N-R66W (McConahay)						
CONNER 11-34 (EXISTING) - MACEY & MERSHON WE						Out of range
CONNER 21-34 (EXISTING) - FOUNDATION WELL - NO						Out of range
CONNER 22-34 (EXISTING) - ENCANA WELL - GYRO	10,333.3	7,466.2	879.8	807.9	12.237	CC, ES
CONNER 22-34 (EXISTING) - ENCANA WELL - GYRO	10,600.0	7,466.8	919.3	841.1	11.748	SF
ERICA 1 (EXISTING) - GREAT WESTERN WELL - NO S	11,073.2	7,440.0	164.6	67.6	1.697	CC, ES, SF
MCCONAHAY 1 (EXISTING) - ENCANA WELL - GYRO	100.0	86.0	580.1	580.0	4,425.968	CC
MCCONAHAY 1 (EXISTING) - ENCANA WELL - GYRO	200.0	183.1	580.3	580.0	1,535.409	ES
MCCONAHAY 1 (EXISTING) - ENCANA WELL - GYRO	9,200.0	7,508.2	1,075.1	1,029.7	23.679	SF
McConahay 1A-34H - Hz - Hz	7,266.3	7,491.9	406.8	373.9	12.350	CC, ES
McConahay 1A-34H - Hz - Hz	11,300.0	11,552.1	705.9	526.0	3.923	SF
McConahay 1C-34H-H266 - Hz - Plan #1	200.0	200.0	10.9	10.3	17.890	CC, ES
McConahay 1C-34H-H266 - Hz - Plan #1	11,638.3	11,987.9	1,356.5	1,163.7	7.034	SF
McConahay 1D-34H-H266 - Hz - Plan #1	166.3	167.3	21.9	21.4	44.148	CC
McConahay 1D-34H-H266 - Hz - Plan #1	200.0	201.0	21.9	21.2	35.678	ES
McConahay 1D-34H-H266 - Hz - Plan #1	500.0	499.6	34.9	33.3	20.948	SF
MCCONAHAY 31-34 (EXISTING) - ENCANA WELL - GY	8,720.3	7,520.9	53.7	18.7	1.536	CC, ES, SF
MCCONAHAY 31-34 (EXISTING) MRP - MACHII-ROSS	2,372.8	2,299.5	1,153.1	1,142.6	109.525	CC
MCCONAHAY 31-34 (EXISTING) MRP - MACHII-ROSS	2,600.0	2,523.6	1,153.7	1,142.1	98.779	ES
MCCONAHAY 31-34 (EXISTING) MRP - MACHII-ROSS	5,100.0	4,861.0	1,245.3	1,221.8	52.907	SF
MCCONAHAY 41-34 (EXISTING) - ENCANA WELL - GY	6,406.7	6,318.0	52.1	26.5	2.038	CC, ES, SF
MCCONAHAY 6-4-34 (EXISTING) - ENCANA WELL - SU	100.0	75.0	532.4	532.2	2,016.465	CC
MCCONAHAY 6-4-34 (EXISTING) - ENCANA WELL - SU	200.0	174.7	532.5	531.9	865.349	ES
MCCONAHAY 6-4-34 (EXISTING) - ENCANA WELL - SU	4,000.0	3,750.4	1,375.0	1,359.0	85.935	SF
RANCHERO 12-34 (EXISTING) - MACHII-ROSS WELL						Out of range
RANCHERO 32-34 (EXISTING) - ENCANA WELL - GYR	100.0	86.0	997.2	997.1	7,608.018	CC
RANCHERO 32-34 (EXISTING) - ENCANA WELL - GYR	200.0	181.8	997.4	997.0	2,645.506	ES
RANCHERO 32-34 (EXISTING) - ENCANA WELL - GYR	9,600.0	7,482.0	1,230.0	1,175.5	22.556	SF
S34-T2N-R68W (Billings, Erica)						
Erica 1 - DD - DD	11,372.4	7,453.2	561.9	464.5	5.771	CC
Erica 1 - DD - DD	11,400.0	7,453.1	562.4	464.5	5.743	ES
Erica 1 - DD - DD	11,500.0	7,452.7	572.7	472.8	5.730	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R66W (Rodman Bruntz) - BADDING-USX W 35-4 (EXISTING) - Existing - Existing													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		
5,700.0	5,632.6	5,631.6	5,631.6	17.7	9.8	59.00	890.7	1,764.0	1,409.8	1,383.9	25.85	54.528		
5,800.0	5,731.2	5,730.2	5,730.2	18.1	10.0	59.58	890.7	1,764.0	1,401.2	1,374.8	26.39	53.094		
5,900.0	5,829.8	5,828.8	5,828.8	18.4	10.2	60.16	890.7	1,764.0	1,392.8	1,365.8	26.93	51.719		
6,000.0	5,928.4	5,927.4	5,927.4	18.8	10.3	60.75	890.7	1,764.0	1,384.5	1,357.0	27.47	50.399		
6,100.0	6,027.0	6,026.0	6,026.0	19.1	10.5	61.34	890.7	1,764.0	1,376.4	1,348.4	28.01	49.132		
6,200.0	6,125.6	6,124.6	6,124.6	19.4	10.7	61.95	890.7	1,764.0	1,368.4	1,339.9	28.56	47.914		
6,300.0	6,224.3	6,223.3	6,223.3	19.8	10.9	62.56	890.7	1,764.0	1,360.6	1,331.5	29.11	46.745		
6,400.0	6,322.9	6,321.9	6,321.9	20.1	11.0	63.17	890.7	1,764.0	1,353.0	1,323.3	29.66	45.621		
6,500.0	6,421.5	6,420.5	6,420.5	20.5	11.2	63.80	890.7	1,764.0	1,345.5	1,315.3	30.21	44.540		
6,600.0	6,520.1	6,519.1	6,519.1	20.8	11.4	64.43	890.7	1,764.0	1,338.1	1,307.4	30.76	43.501		
6,700.0	6,618.7	6,617.7	6,617.7	21.1	11.6	65.07	890.7	1,764.0	1,331.0	1,299.7	31.32	42.502		
6,800.0	6,717.3	6,716.3	6,716.3	21.5	11.7	65.71	890.7	1,764.0	1,324.0	1,292.1	31.87	41.541		
6,900.0	6,815.9	6,814.9	6,814.9	21.8	11.9	66.36	890.7	1,764.0	1,317.2	1,284.7	32.43	40.617		
7,000.0	6,914.6	6,913.6	6,913.6	22.1	12.1	77.18	890.7	1,764.0	1,310.8	1,277.9	32.99	39.738		
7,019.5	6,933.9	6,932.9	6,932.9	22.2	12.1	90.00	890.7	1,764.0	1,310.5	1,277.5	33.06	39.641	CC, ES, SF	
7,100.0	7,013.6	7,012.6	7,012.6	22.3	12.2	144.71	890.7	1,764.0	1,316.0	1,282.9	33.09	39.774		
7,200.0	7,110.8	7,109.8	7,109.8	22.4	12.4	171.85	890.7	1,764.0	1,337.7	1,305.3	32.44	41.236		
7,300.0	7,203.3	7,202.3	7,202.3	22.3	12.6	-178.01	890.7	1,764.0	1,375.4	1,344.3	31.09	44.232		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R66W (Rodman Bruntz) - Rodman Bruntz 2A-26H - DD - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
6,300.0	6,224.3	12,992.7	7,315.0	19.8	100.8	76.53	841.1	1,267.2	1,397.8	1,277.8	120.00	11.649	
6,400.0	6,322.9	12,977.8	7,315.0	20.1	100.5	75.49	856.1	1,267.2	1,317.0	1,196.9	120.07	10.969	
6,500.0	6,421.5	12,962.8	7,315.0	20.5	100.3	74.45	871.0	1,267.2	1,238.7	1,118.6	120.10	10.314	
6,600.0	6,520.1	12,947.8	7,315.0	20.8	100.0	73.39	886.0	1,267.2	1,163.6	1,043.5	120.09	9.690	
6,700.0	6,618.7	12,932.9	7,315.0	21.1	99.7	72.33	900.9	1,267.2	1,092.3	972.3	120.03	9.100	
6,800.0	6,717.3	12,917.9	7,315.0	21.5	99.5	71.27	915.9	1,267.2	1,025.6	905.6	119.94	8.551	
6,900.0	6,815.9	12,903.0	7,315.0	21.8	99.2	70.20	930.8	1,267.2	964.4	844.6	119.80	8.050	
7,000.0	6,914.6	12,888.1	7,315.0	22.1	99.0	78.98	945.7	1,267.2	910.1	790.5	119.62	7.608	
7,100.0	7,013.6	12,875.9	7,315.0	22.3	98.8	143.90	957.9	1,267.2	874.3	756.6	117.76	7.425 SF	
7,181.7	7,093.3	12,869.1	7,315.0	22.4	98.7	166.64	964.8	1,267.2	864.9	750.7	114.25	7.571 CC, ES	
7,200.0	7,110.8	12,867.9	7,315.0	22.4	98.6	169.33	965.9	1,267.2	865.4	752.2	113.23	7.643	
7,300.0	7,203.3	12,864.5	7,315.0	22.3	98.6	178.42	969.4	1,267.2	884.5	778.3	106.26	8.324	
7,400.0	7,288.3	12,865.6	7,315.0	22.1	98.6	-176.04	968.2	1,267.2	929.5	832.3	97.20	9.562	
7,500.0	7,363.1	12,871.2	7,315.0	21.8	98.7	-170.58	962.6	1,267.2	995.5	908.8	86.64	11.490	
7,600.0	7,425.5	12,881.3	7,315.0	21.5	98.9	-162.76	952.5	1,267.2	1,076.8	1,001.2	75.59	14.245	
7,700.0	7,473.6	12,895.4	7,315.0	21.2	99.1	-147.95	938.4	1,267.2	1,168.0	1,102.0	66.05	17.684	
7,800.0	7,506.0	12,913.2	7,315.0	21.0	99.4	-115.39	920.6	1,267.2	1,264.4	1,203.9	60.42	20.926	
7,900.0	7,521.6	12,934.1	7,315.0	20.9	99.8	-70.78	899.8	1,267.2	1,362.0	1,307.4	54.60	24.944	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S26-T2N-R66W (Rodman Bruntz) - SHAFER 4-35A (EXISTING) - Existing - Existing													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)				
3,700.0	3,660.3	3,653.3	3,653.3	11.0	6.4	44.41	939.2	1,533.3	1,403.1	1,387.8	15.30	91.701		
3,800.0	3,758.9	3,751.9	3,751.9	11.3	6.5	44.89	939.2	1,533.3	1,391.2	1,375.4	15.78	88.176		
3,900.0	3,857.5	3,850.5	3,850.5	11.7	6.7	45.37	939.2	1,533.3	1,379.4	1,363.1	16.26	84.847		
4,000.0	3,956.1	3,949.1	3,949.1	12.0	6.9	45.86	939.2	1,533.3	1,367.7	1,351.0	16.74	81.700		
4,100.0	4,054.8	4,047.8	4,047.8	12.3	7.1	46.36	939.2	1,533.3	1,356.1	1,338.9	17.23	78.720		
4,200.0	4,153.4	4,146.4	4,146.4	12.7	7.2	46.87	939.2	1,533.3	1,344.6	1,326.9	17.72	75.896		
4,300.0	4,252.0	4,245.0	4,245.0	13.0	7.4	47.39	939.2	1,533.3	1,333.3	1,315.1	18.21	73.217		
4,400.0	4,350.6	4,343.6	4,343.6	13.4	7.6	47.91	939.2	1,533.3	1,322.0	1,303.3	18.71	70.671		
4,500.0	4,449.2	4,442.2	4,442.2	13.7	7.8	48.45	939.2	1,533.3	1,310.9	1,291.6	19.21	68.252		
4,600.0	4,547.8	4,540.8	4,540.8	14.0	7.9	48.99	939.2	1,533.3	1,299.8	1,280.1	19.71	65.950		
4,700.0	4,646.4	4,639.4	4,639.4	14.4	8.1	49.54	939.2	1,533.3	1,288.9	1,268.7	20.22	63.757		
4,800.0	4,745.0	4,738.0	4,738.0	14.7	8.3	50.10	939.2	1,533.3	1,278.1	1,257.4	20.73	61.667		
4,900.0	4,843.7	4,836.7	4,836.7	15.0	8.4	50.67	939.2	1,533.3	1,267.4	1,246.2	21.24	59.674		
5,000.0	4,942.3	4,935.3	4,935.3	15.4	8.6	51.25	939.2	1,533.3	1,256.9	1,235.1	21.76	57.772		
5,100.0	5,040.9	5,033.9	5,033.9	15.7	8.8	51.84	939.2	1,533.3	1,246.5	1,224.2	22.28	55.956		
5,200.0	5,139.5	5,132.5	5,132.5	16.1	9.0	52.44	939.2	1,533.3	1,236.2	1,213.4	22.80	54.220		
5,300.0	5,238.1	5,231.1	5,231.1	16.4	9.1	53.05	939.2	1,533.3	1,226.1	1,202.8	23.33	52.560		
5,400.0	5,336.7	5,329.7	5,329.7	16.7	9.3	53.67	939.2	1,533.3	1,216.1	1,192.2	23.86	50.972		
5,500.0	5,435.3	5,428.3	5,428.3	17.1	9.5	54.30	939.2	1,533.3	1,206.3	1,181.9	24.39	49.453		
5,600.0	5,534.0	5,527.0	5,527.0	17.4	9.6	54.94	939.2	1,533.3	1,196.6	1,171.6	24.93	47.998		
5,700.0	5,632.6	5,625.6	5,625.6	17.7	9.8	55.59	939.2	1,533.3	1,187.0	1,161.5	25.47	46.605		
5,800.0	5,731.2	5,724.2	5,724.2	18.1	10.0	56.25	939.2	1,533.3	1,177.6	1,151.6	26.01	45.270		
5,900.0	5,829.8	5,822.8	5,822.8	18.4	10.2	56.92	939.2	1,533.3	1,168.4	1,141.8	26.56	43.990		
6,000.0	5,928.4	5,921.4	5,921.4	18.8	10.3	57.60	939.2	1,533.3	1,159.3	1,132.2	27.11	42.764		
6,100.0	6,027.0	6,020.0	6,020.0	19.1	10.5	58.29	939.2	1,533.3	1,150.4	1,122.8	27.66	41.587		
6,200.0	6,125.6	6,118.6	6,118.6	19.4	10.7	58.99	939.2	1,533.3	1,141.7	1,113.5	28.22	40.459		
6,300.0	6,224.3	6,217.3	6,217.3	19.8	10.9	59.70	939.2	1,533.3	1,133.2	1,104.4	28.78	39.376		
6,400.0	6,322.9	6,315.9	6,315.9	20.1	11.0	60.43	939.2	1,533.3	1,124.8	1,095.5	29.34	38.337		
6,500.0	6,421.5	6,414.5	6,414.5	20.5	11.2	61.16	939.2	1,533.3	1,116.6	1,086.7	29.90	37.340		
6,600.0	6,520.1	6,513.1	6,513.1	20.8	11.4	61.90	939.2	1,533.3	1,108.6	1,078.1	30.47	36.384		
6,700.0	6,618.7	6,611.7	6,611.7	21.1	11.5	62.66	939.2	1,533.3	1,100.8	1,069.8	31.04	35.465		
6,800.0	6,717.3	6,710.3	6,710.3	21.5	11.7	63.42	939.2	1,533.3	1,093.2	1,061.6	31.61	34.584		
6,900.0	6,815.9	6,808.9	6,808.9	21.8	11.9	64.19	939.2	1,533.3	1,085.8	1,053.6	32.18	33.738		
7,000.0	6,914.6	6,907.6	6,907.6	22.1	12.1	75.15	939.2	1,533.3	1,078.9	1,046.2	32.76	32.935		
7,022.3	6,936.6	6,929.6	6,929.6	22.2	12.1	90.00	939.2	1,533.3	1,078.5	1,045.6	32.85	32.835 CC, ES, SF		
7,100.0	7,013.6	7,006.6	7,006.6	22.3	12.2	142.76	939.2	1,533.3	1,083.6	1,050.8	32.88	32.958		
7,200.0	7,110.8	7,103.8	7,103.8	22.4	12.4	169.93	939.2	1,533.3	1,105.2	1,072.9	32.25	34.270		
7,300.0	7,203.3	7,196.3	7,196.3	22.3	12.6	-179.99	939.2	1,533.3	1,142.8	1,111.9	30.91	36.974		
7,400.0	7,288.3	7,281.3	7,281.3	22.1	12.7	-174.19	939.2	1,533.3	1,195.2	1,166.3	28.95	41.282		
7,500.0	7,363.1	7,356.1	7,356.1	21.8	12.8	-169.44	939.2	1,533.3	1,261.0	1,234.4	26.57	47.455		
7,600.0	7,425.5	7,418.5	7,418.5	21.5	12.9	-164.13	939.2	1,533.3	1,338.2	1,314.1	24.12	55.480		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - CONNER 22-34 (EXISTING) - ENCANA WELL - 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 (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	7,523.0	7,464.3	7,463.3	42.7	6.6	-90.08	-520.3	-2,243.4	1,357.1	1,309.4	47.72	28.438		
9,400.0	7,523.0	7,464.5	7,463.4	44.9	6.6	-90.09	-520.3	-2,243.4	1,282.6	1,232.6	50.01	25.648		
9,500.0	7,523.0	7,464.7	7,463.6	47.2	6.6	-90.10	-520.3	-2,243.4	1,211.8	1,159.5	52.31	23.164		
9,600.0	7,523.0	7,464.9	7,463.8	49.4	6.6	-90.12	-520.3	-2,243.4	1,145.3	1,090.7	54.63	20.965		
9,700.0	7,523.0	7,465.0	7,464.0	51.7	6.6	-90.13	-520.3	-2,243.4	1,084.0	1,027.1	56.96	19.032		
9,800.0	7,523.0	7,465.2	7,464.2	54.0	6.6	-90.14	-520.3	-2,243.4	1,028.8	969.5	59.30	17.350		
9,900.0	7,523.0	7,465.4	7,464.3	56.3	6.6	-90.15	-520.3	-2,243.4	980.7	919.1	61.65	15.909		
10,000.0	7,523.0	7,465.6	7,464.5	58.6	6.6	-90.16	-520.3	-2,243.4	940.8	876.8	64.00	14.700		
10,100.0	7,523.0	7,465.8	7,464.7	60.9	6.6	-90.18	-520.3	-2,243.4	910.2	843.8	66.36	13.715		
10,200.0	7,523.0	7,466.0	7,464.9	63.3	6.6	-90.19	-520.3	-2,243.4	889.8	821.1	68.73	12.946		
10,300.0	7,523.0	7,466.2	7,465.1	65.6	6.6	-90.20	-520.3	-2,243.4	880.4	809.3	71.11	12.382		
10,333.3	7,523.0	7,466.2	7,465.2	66.4	6.6	-90.21	-520.3	-2,243.4	879.8	807.9	71.90	12.237	CC, ES	
10,400.0	7,523.0	7,466.4	7,465.3	68.0	6.6	-90.22	-520.3	-2,243.4	882.3	808.8	73.49	12.007		
10,500.0	7,523.0	7,466.6	7,465.5	70.3	6.6	-90.23	-520.3	-2,243.4	895.4	819.6	75.87	11.802		
10,600.0	7,523.0	7,466.8	7,465.7	72.7	6.6	-90.24	-520.3	-2,243.4	919.3	841.1	78.26	11.748	SF	
10,700.0	7,523.0	7,467.0	7,465.9	75.0	6.6	-90.25	-520.3	-2,243.4	953.2	872.5	80.65	11.819		
10,800.0	7,523.0	7,467.2	7,466.1	77.4	6.6	-90.27	-520.3	-2,243.4	995.9	912.8	83.10	11.985		
10,900.0	7,523.0	7,467.4	7,466.3	79.8	6.6	-90.29	-520.3	-2,243.4	1,048.8	962.9	85.92	12.206		
11,000.0	7,523.0	7,467.6	7,466.6	82.2	6.6	-90.32	-520.3	-2,243.4	1,111.6	1,023.0	88.62	12.543		
11,100.0	7,523.0	7,467.9	7,466.8	84.7	6.6	-90.35	-520.3	-2,243.4	1,182.6	1,091.5	91.18	12.970		
11,200.0	7,523.0	7,468.2	7,467.1	87.1	6.6	-90.39	-520.3	-2,243.4	1,260.4	1,166.8	93.60	13.466		
11,300.0	7,523.0	7,468.5	7,467.4	89.5	6.6	-90.44	-520.3	-2,243.4	1,343.5	1,247.7	95.86	14.016		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - ERICA 1 (EXISTING) - GREAT WESTERN WELL - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 8118-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,700.0	7,523.0	7,440.0	7,440.0	51.7	13.0	90.00	345.2	-3,188.3	1,363.8	1,300.4	63.43	21.503		
9,800.0	7,523.0	7,440.0	7,440.0	54.0	13.0	90.00	345.2	-3,188.3	1,264.8	1,199.0	65.77	19.232		
9,900.0	7,523.0	7,440.0	7,440.0	56.3	13.0	90.00	345.2	-3,188.3	1,165.9	1,097.8	68.11	17.117		
10,000.0	7,523.0	7,440.0	7,440.0	58.6	13.0	90.00	345.2	-3,188.3	1,067.2	996.8	70.47	15.145		
10,100.0	7,523.0	7,440.0	7,440.0	60.9	13.0	90.00	345.2	-3,188.3	968.8	896.0	72.83	13.303		
10,200.0	7,523.0	7,440.0	7,440.0	63.3	13.0	90.00	345.2	-3,188.3	870.8	795.6	75.20	11.580		
10,300.0	7,523.0	7,440.0	7,440.0	65.6	13.0	90.00	345.2	-3,188.3	773.3	695.7	77.57	9.968		
10,400.0	7,523.0	7,440.0	7,440.0	68.0	13.0	90.00	345.2	-3,188.3	676.5	596.5	79.95	8.461		
10,500.0	7,523.0	7,440.0	7,440.0	70.3	13.0	90.00	345.2	-3,188.3	580.7	498.4	82.34	7.053		
10,600.0	7,523.0	7,440.0	7,440.0	72.7	13.0	90.00	345.2	-3,188.3	486.7	402.0	84.72	5.745		
10,700.0	7,523.0	7,440.0	7,440.0	75.0	13.0	90.00	345.2	-3,188.3	395.7	308.6	87.11	4.542		
10,800.0	7,523.0	7,440.0	7,440.0	77.4	13.0	90.00	345.2	-3,188.3	310.2	220.6	89.56	3.463		
10,900.0	7,523.0	7,440.0	7,440.0	79.8	13.0	90.00	345.2	-3,188.3	234.3	141.9	92.39	2.536		
11,000.0	7,523.0	7,440.0	7,440.0	82.2	13.0	90.00	345.2	-3,188.3	179.0	83.9	95.09	1.883		
11,073.2	7,523.0	7,440.0	7,440.0	84.0	13.0	90.00	345.2	-3,188.3	164.6	67.6	96.97	1.697 CC, ES, SF		
11,100.0	7,523.0	7,440.0	7,440.0	84.7	13.0	90.00	345.2	-3,188.3	166.6	68.9	97.65	1.706		
11,200.0	7,523.0	7,440.0	7,440.0	87.1	13.0	90.00	345.2	-3,188.3	204.9	104.8	100.06	2.048		
11,300.0	7,523.0	7,440.0	7,440.0	89.5	13.0	90.00	345.2	-3,188.3	273.4	171.0	102.32	2.672		
11,400.0	7,523.0	7,440.0	7,440.0	92.0	13.0	90.00	345.2	-3,188.3	354.8	250.4	104.42	3.398		
11,500.0	7,523.0	7,440.0	7,440.0	94.4	13.0	90.00	345.2	-3,188.3	442.1	335.7	106.45	4.153		
11,600.0	7,523.0	7,440.0	7,440.0	96.8	13.0	90.00	345.2	-3,188.3	533.3	424.4	108.89	4.898		
11,638.3	7,523.0	7,440.0	7,440.0	97.7	13.0	90.00	345.2	-3,188.3	569.1	459.2	109.83	5.181		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 1 (EXISTING) - ENCANA WELL - GYRO														Offset Site Error:	0.0 ft
Survey Program: 200-Gyro														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			
0.0	0.0	0.0	0.0	0.0	0.0	-109.06	-189.4	-548.3	580.3						
100.0	100.0	86.0	86.0	0.1	0.0	-109.06	-189.4	-548.3	580.1	580.0	0.13	4,425.968 CC			
200.0	200.0	183.1	183.1	0.3	0.1	-109.07	-189.7	-548.5	580.3	580.0	0.38	1,535.409 ES			
300.0	300.0	280.3	280.2	0.5	0.2	-134.83	-190.1	-549.1	581.7	581.1	0.64	912.051			
400.0	400.0	380.2	380.2	0.7	0.2	-134.97	-190.3	-550.1	584.6	583.7	0.90	647.950			
500.0	499.9	483.1	483.1	0.8	0.3	-135.21	-190.1	-551.0	588.4	587.3	1.17	501.545			
600.0	599.7	579.7	579.7	1.0	0.4	-135.55	-190.1	-551.7	593.4	592.0	1.44	410.812			
700.0	699.4	683.0	683.0	1.3	0.5	-136.05	-190.4	-552.5	599.9	598.2	1.73	347.036			
800.0	798.9	778.4	778.3	1.5	0.6	-136.57	-190.4	-553.1	607.5	605.5	2.01	301.594			
900.0	898.3	876.6	876.6	1.7	0.7	-137.17	-190.2	-554.5	617.0	614.7	2.31	266.964			
1,000.0	997.4	978.0	978.0	2.0	0.8	-137.86	-190.0	-555.8	627.8	625.1	2.62	239.587			
1,100.0	1,096.3	1,077.0	1,076.9	2.3	0.9	-138.60	-189.6	-556.8	639.6	636.7	2.94	217.832			
1,200.0	1,195.0	1,172.6	1,172.5	2.6	0.9	-139.41	-189.4	-558.0	653.1	649.8	3.25	200.647			
1,300.0	1,293.6	1,270.0	1,269.9	3.0	1.0	-140.29	-189.7	-559.4	667.2	663.7	3.57	186.734			
1,400.0	1,392.2	1,369.8	1,369.8	3.3	1.1	-141.16	-189.9	-560.8	681.5	677.6	3.89	175.113			
1,500.0	1,490.8	1,469.6	1,469.5	3.6	1.2	-141.97	-189.9	-562.0	695.7	691.5	4.21	165.307			
1,600.0	1,589.4	1,566.4	1,566.3	3.9	1.3	-142.74	-190.0	-563.2	710.0	705.5	4.52	157.066			
1,700.0	1,688.0	1,663.5	1,663.4	4.3	1.4	-143.51	-190.5	-564.5	724.8	719.9	4.83	150.065			
1,800.0	1,786.6	1,763.6	1,763.5	4.6	1.5	-144.28	-191.0	-565.8	739.6	734.5	5.14	143.951			
1,900.0	1,885.3	1,863.2	1,863.1	4.9	1.5	-145.01	-191.5	-566.8	754.3	748.9	5.44	138.576			
2,000.0	1,983.9	1,959.8	1,959.6	5.3	1.6	-145.69	-191.9	-567.8	769.2	763.5	5.74	133.904			
2,100.0	2,082.5	2,058.2	2,058.1	5.6	1.7	-146.35	-192.4	-569.2	784.4	778.4	6.04	129.772			
2,200.0	2,181.1	2,156.7	2,156.6	5.9	1.8	-146.99	-192.9	-570.4	799.6	793.3	6.34	126.077			
2,300.0	2,279.7	2,254.0	2,253.8	6.3	1.9	-147.64	-193.8	-571.4	815.0	808.4	6.64	122.829			
2,400.0	2,378.3	2,354.3	2,354.1	6.6	2.0	-148.25	-194.4	-572.7	830.5	823.6	6.93	119.856			
2,500.0	2,476.9	2,457.5	2,457.3	6.9	2.1	-148.84	-194.6	-573.7	845.7	838.5	7.22	117.067			
2,600.0	2,575.6	2,555.4	2,555.2	7.3	2.2	-149.38	-194.6	-574.4	860.6	853.0	7.51	114.531			
2,700.0	2,674.2	2,652.5	2,652.3	7.6	2.2	-149.85	-194.2	-575.8	875.8	868.0	7.80	112.231			
2,800.0	2,772.8	2,751.1	2,750.9	8.0	2.3	-150.31	-193.7	-577.1	891.1	883.0	8.09	110.108			
2,900.0	2,871.4	2,848.7	2,848.5	8.3	2.4	-150.75	-193.3	-578.5	906.5	898.1	8.38	108.176			
3,000.0	2,970.0	2,946.0	2,945.8	8.6	2.5	-151.18	-193.0	-580.0	922.1	913.4	8.67	106.411			
3,100.0	3,068.6	3,045.1	3,044.9	9.0	2.6	-151.63	-193.1	-581.3	937.8	928.9	8.95	104.799			
3,200.0	3,167.2	3,145.1	3,144.9	9.3	2.7	-152.06	-193.0	-582.5	953.4	944.2	9.23	103.268			
3,300.0	3,265.8	3,242.5	3,242.3	9.6	2.8	-152.43	-192.5	-584.0	969.1	959.5	9.51	101.846			
3,400.0	3,364.5	3,344.1	3,343.8	10.0	2.9	-152.83	-192.2	-585.4	984.8	975.0	9.80	100.506			
3,500.0	3,463.1	3,447.0	3,446.7	10.3	2.9	-153.20	-191.3	-586.6	999.9	989.9	10.08	99.172			
3,600.0	3,561.7	3,543.9	3,543.6	10.6	3.0	-153.53	-190.3	-587.7	1,015.1	1,004.8	10.36	97.957			
3,700.0	3,660.3	3,641.1	3,640.8	11.0	3.1	-153.87	-189.8	-588.7	1,030.5	1,019.9	10.64	96.851			
3,800.0	3,758.9	3,742.8	3,742.5	11.3	3.2	-154.23	-189.3	-589.7	1,046.0	1,035.0	10.92	95.793			
3,900.0	3,857.5	3,844.3	3,844.0	11.7	3.3	-154.57	-188.5	-590.3	1,060.9	1,049.7	11.20	94.751			
4,000.0	3,956.1	3,942.4	3,942.1	12.0	3.4	-154.90	-187.8	-591.0	1,076.0	1,064.6	11.47	93.801			
4,100.0	4,054.8	4,044.1	4,043.8	12.3	3.5	-155.27	-187.6	-591.0	1,091.0	1,079.2	11.74	92.896			
4,200.0	4,153.4	4,144.6	4,144.3	12.7	3.5	-155.62	-187.0	-590.9	1,105.7	1,093.7	12.02	92.023			
4,300.0	4,252.0	4,243.0	4,242.7	13.0	3.6	-155.96	-186.7	-590.6	1,120.4	1,108.2	12.28	91.213			
4,400.0	4,350.6	4,339.2	4,338.9	13.4	3.7	-156.29	-186.5	-590.4	1,135.3	1,122.7	12.55	90.459			
4,500.0	4,449.2	4,436.0	4,435.7	13.7	3.8	-156.56	-185.5	-591.2	1,150.5	1,137.7	12.82	89.723			
4,600.0	4,547.8	4,536.5	4,536.2	14.0	3.9	-156.78	-183.8	-592.5	1,165.6	1,152.5	13.10	88.971			
4,700.0	4,646.4	4,635.3	4,635.0	14.4	4.0	-156.97	-181.7	-594.0	1,180.7	1,167.3	13.38	88.241			
4,800.0	4,745.0	4,734.8	4,734.4	14.7	4.1	-157.14	-179.4	-595.8	1,195.8	1,182.1	13.66	87.534			
4,900.0	4,843.7	4,835.5	4,835.1	15.0	4.2	-157.32	-177.0	-597.4	1,210.7	1,196.8	13.94	86.844			
5,000.0	4,942.3	4,934.0	4,933.5	15.4	4.2	-157.48	-174.6	-598.9	1,225.6	1,211.4	14.22	86.185			
5,100.0	5,040.9	5,034.9	5,034.4	15.7	4.3	-157.65	-172.3	-600.5	1,240.6	1,226.1	14.50	85.553			

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 1 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 200-Gyro													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	5,139.5	5,148.0	5,147.4	16.1	4.4	-157.87	-169.6	-601.2	1,254.9	1,240.1	14.79	84.875		
5,300.0	5,238.1	5,254.6	5,254.0	16.4	4.5	-158.12	-167.2	-600.3	1,268.1	1,253.0	15.06	84.210		
5,400.0	5,336.7	5,350.2	5,349.6	16.7	4.6	-158.35	-165.1	-599.2	1,281.3	1,266.0	15.32	83.617		
5,500.0	5,435.3	5,444.8	5,444.1	17.1	4.7	-158.59	-163.5	-598.2	1,294.9	1,279.3	15.59	83.083		
5,600.0	5,534.0	5,541.8	5,541.1	17.4	4.8	-158.83	-162.2	-597.2	1,308.7	1,292.8	15.85	82.581		
5,700.0	5,632.6	5,641.5	5,640.8	17.7	4.9	-159.08	-160.9	-596.3	1,322.6	1,306.5	16.11	82.097		
5,800.0	5,731.2	5,740.2	5,739.5	18.1	4.9	-159.33	-159.6	-595.1	1,336.4	1,320.0	16.37	81.630		
5,900.0	5,829.8	5,835.7	5,835.0	18.4	5.0	-159.58	-158.8	-593.9	1,350.5	1,333.9	16.63	81.217		
6,000.0	5,928.4	5,935.5	5,934.8	18.8	5.1	-159.85	-158.2	-592.5	1,364.7	1,347.8	16.89	80.819		
6,100.0	6,027.0	6,036.6	6,035.9	19.1	5.2	-160.11	-157.4	-591.0	1,378.7	1,361.5	17.14	80.420		
6,200.0	6,125.6	6,134.2	6,133.4	19.4	5.3	-160.37	-156.7	-589.4	1,392.7	1,375.3	17.40	80.050		
6,300.0	6,224.3	6,232.3	6,231.5	19.8	5.4	-160.62	-156.2	-587.8	1,406.9	1,389.2	17.65	79.698		
7,500.0	7,363.1	7,351.9	7,351.1	21.8	6.3	-56.80	-158.0	-581.0	1,408.5	1,390.0	18.47	76.262		
7,600.0	7,425.5	7,413.5	7,412.7	21.5	6.4	-62.37	-157.9	-581.0	1,354.7	1,335.8	18.88	71.769		
7,700.0	7,473.6	7,460.1	7,459.2	21.2	6.4	-69.80	-157.9	-581.0	1,295.1	1,275.4	19.74	65.622		
7,800.0	7,506.0	7,491.4	7,490.6	21.0	6.5	-78.28	-157.9	-580.9	1,232.6	1,211.9	20.77	59.335		
7,900.0	7,521.6	7,507.1	7,506.2	20.9	6.5	-86.75	-158.0	-580.9	1,170.0	1,148.3	21.77	53.757		
8,000.0	7,523.0	7,508.5	7,507.7	21.0	6.5	-89.92	-158.0	-580.9	1,110.4	1,087.7	22.70	48.923		
8,100.0	7,523.0	7,508.5	7,507.7	21.4	6.5	-89.92	-158.0	-580.9	1,056.7	1,032.8	23.85	44.301		
8,200.0	7,523.0	7,508.5	7,507.6	22.1	6.5	-89.91	-158.0	-580.9	1,010.0	984.7	25.25	39.992		
8,300.0	7,523.0	7,508.4	7,507.6	23.3	6.5	-89.91	-158.0	-580.9	971.4	944.6	26.85	36.174		
8,400.0	7,523.0	7,508.4	7,507.6	24.7	6.5	-89.91	-158.0	-580.9	941.9	913.3	28.61	32.925		
8,500.0	7,523.0	7,508.4	7,507.5	26.3	6.5	-89.91	-158.0	-580.9	922.4	891.9	30.48	30.260		
8,600.0	7,523.0	7,508.3	7,507.5	28.1	6.5	-89.91	-158.0	-580.9	913.4	881.0	32.45	28.148		
8,632.2	7,523.0	7,508.3	7,507.5	28.8	6.5	-89.91	-158.0	-580.9	912.9	879.8	33.11	27.573		
8,700.0	7,523.0	7,508.3	7,507.5	30.1	6.5	-89.90	-158.0	-580.9	915.4	880.9	34.49	26.538		
8,800.0	7,523.0	7,508.3	7,507.4	32.0	6.5	-89.90	-158.0	-580.9	928.2	891.6	36.60	25.363		
8,900.0	7,523.0	7,508.3	7,507.4	34.1	6.5	-89.90	-158.0	-580.9	951.4	912.6	38.75	24.554		
9,000.0	7,523.0	7,508.2	7,507.4	36.2	6.5	-89.90	-158.0	-580.9	984.2	943.3	40.93	24.043		
9,100.0	7,523.0	7,508.2	7,507.4	38.3	6.5	-89.90	-158.0	-580.9	1,025.8	982.6	43.16	23.769		
9,200.0	7,523.0	7,508.2	7,507.3	40.5	6.5	-89.90	-158.0	-580.9	1,075.1	1,029.7	45.40	23.679 SF		
9,300.0	7,523.0	7,508.2	7,507.3	42.7	6.5	-89.89	-158.0	-580.9	1,131.1	1,083.4	47.67	23.727		
9,400.0	7,523.0	7,508.1	7,507.3	44.9	6.5	-89.89	-158.0	-580.9	1,192.9	1,142.9	49.96	23.877		
9,500.0	7,523.0	7,508.1	7,507.3	47.2	6.5	-89.89	-158.0	-580.9	1,259.6	1,207.3	52.26	24.100		
9,600.0	7,523.0	7,508.1	7,507.2	49.4	6.5	-89.89	-158.0	-580.9	1,330.4	1,275.9	54.58	24.376		
9,700.0	7,523.0	7,508.0	7,507.2	51.7	6.5	-89.89	-158.0	-580.9	1,404.9	1,348.0	56.91	24.686		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 1A-34H - Hz - Hz														Offset Site Error:	0.0 ft
Survey Program: 785-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	50.91	680.1	837.3	1,078.7						
100.0	100.0	97.0	97.0	0.1	0.2	50.91	680.1	837.3	1,078.7	1,078.4	0.30	3,624.555			
200.0	200.0	197.0	197.0	0.3	0.3	50.91	680.1	837.3	1,078.7	1,078.1	0.64	1,674.982			
300.0	300.0	297.0	297.0	0.5	0.5	25.26	680.1	837.3	1,077.9	1,076.9	0.99	1,088.250			
400.0	400.0	397.0	397.0	0.7	0.7	25.33	680.1	837.3	1,075.5	1,074.2	1.34	804.116			
500.0	499.9	496.9	496.9	0.8	0.9	25.44	680.1	837.3	1,071.6	1,069.9	1.69	635.685			
600.0	599.7	596.7	596.7	1.0	1.0	25.61	680.1	837.3	1,066.1	1,064.1	2.04	523.689			
700.0	699.4	696.4	696.4	1.3	1.2	25.82	680.1	837.3	1,059.0	1,056.6	2.39	443.432			
800.0	798.9	795.4	795.4	1.5	1.4	26.09	680.1	837.3	1,050.4	1,047.7	2.74	382.879			
900.0	898.3	889.9	889.9	1.7	1.5	26.36	680.7	837.2	1,040.5	1,037.4	3.10	335.887			
1,000.0	997.4	987.3	987.3	2.0	1.7	26.66	682.1	836.9	1,029.5	1,026.0	3.46	297.289			
1,100.0	1,096.3	1,089.9	1,089.9	2.3	1.9	27.03	683.5	836.5	1,016.8	1,012.9	3.84	264.516			
1,200.0	1,195.0	1,190.2	1,190.1	2.6	2.1	27.42	684.6	836.0	1,002.5	998.2	4.23	237.062			
1,300.0	1,293.6	1,291.2	1,291.2	3.0	2.2	27.81	685.5	835.4	987.8	983.2	4.62	213.771			
1,400.0	1,392.2	1,392.6	1,392.6	3.3	2.4	28.22	686.2	834.6	972.9	967.9	5.02	193.906			
1,500.0	1,490.8	1,493.2	1,493.1	3.6	2.6	28.62	687.0	833.4	957.8	952.4	5.42	176.868			
1,600.0	1,589.4	1,593.8	1,593.7	3.9	2.8	29.04	687.6	832.2	942.5	936.7	5.82	162.038			
1,700.0	1,688.0	1,695.1	1,695.1	4.3	2.9	29.47	688.0	830.8	927.1	920.9	6.22	148.985			
1,800.0	1,786.6	1,797.7	1,797.6	4.6	3.1	29.93	688.2	829.0	911.4	904.7	6.63	137.370			
1,900.0	1,885.3	1,896.4	1,896.3	4.9	3.3	30.40	688.0	827.2	895.4	888.3	7.04	127.140			
2,000.0	1,983.9	1,991.9	1,991.8	5.3	3.5	30.87	688.0	825.5	879.6	872.2	7.45	118.102			
2,100.0	2,082.5	2,090.7	2,090.5	5.6	3.6	31.38	688.1	824.1	864.2	856.3	7.86	109.905			
2,200.0	2,181.1	2,192.4	2,192.3	5.9	3.8	31.96	687.6	822.6	848.5	840.3	8.29	102.380			
2,300.0	2,279.7	2,289.5	2,289.4	6.3	4.0	32.54	686.9	821.2	832.8	824.1	8.71	95.621			
2,400.0	2,378.3	2,391.7	2,391.5	6.6	4.2	33.15	686.4	819.4	817.1	808.0	9.14	89.357			
2,500.0	2,476.9	2,488.1	2,487.9	6.9	4.3	33.72	686.1	817.5	801.4	791.8	9.57	83.713			
2,600.0	2,575.6	2,585.9	2,585.7	7.3	4.5	34.29	686.4	815.4	785.9	775.8	10.01	78.535			
2,700.0	2,674.2	2,678.0	2,677.7	7.6	4.7	34.80	687.4	813.4	770.9	760.4	10.43	73.893			
2,800.0	2,772.8	2,766.8	2,766.6	8.0	4.8	35.31	688.7	812.4	757.0	746.1	10.85	69.742			
2,900.0	2,871.4	2,857.4	2,857.2	8.3	5.0	35.90	690.1	812.7	744.4	733.1	11.29	65.953			
3,000.0	2,970.0	2,950.5	2,950.2	8.6	5.1	36.52	692.0	813.7	732.9	721.1	11.73	62.482			
3,100.0	3,068.6	3,051.3	3,051.0	9.0	5.3	37.23	694.1	815.2	721.8	709.6	12.19	59.189			
3,200.0	3,167.2	3,148.5	3,148.1	9.3	5.5	37.90	696.3	816.3	710.7	698.0	12.66	56.151			
3,300.0	3,265.8	3,247.6	3,247.2	9.6	5.7	38.61	698.8	817.6	699.8	686.7	13.13	53.311			
3,400.0	3,364.5	3,348.0	3,347.6	10.0	5.8	39.33	701.3	818.8	689.0	675.4	13.61	50.637			
3,500.0	3,463.1	3,444.0	3,443.5	10.3	6.0	40.03	703.9	819.9	678.3	664.3	14.08	48.177			
3,600.0	3,561.7	3,535.5	3,535.0	10.6	6.2	40.74	706.4	821.8	668.6	654.1	14.55	45.951			
3,700.0	3,660.3	3,638.0	3,637.4	11.0	6.4	41.69	708.0	824.8	659.4	644.3	15.06	43.785			
3,800.0	3,758.9	3,742.4	3,741.8	11.3	6.5	42.75	708.6	827.5	649.6	634.0	15.59	41.676			
3,900.0	3,857.5	3,847.5	3,846.8	11.7	6.7	43.81	709.3	829.1	639.1	623.0	16.12	39.644			
4,000.0	3,956.1	3,950.7	3,950.1	12.0	6.9	44.89	709.8	829.8	628.0	611.3	16.66	37.692			
4,100.0	4,054.8	4,049.7	4,049.1	12.3	7.1	45.90	710.6	830.0	616.7	599.5	17.19	35.870			
4,200.0	4,153.4	4,144.8	4,144.1	12.7	7.2	46.89	711.7	830.2	605.7	588.0	17.72	34.187			
4,300.0	4,252.0	4,236.6	4,236.0	13.0	7.4	47.95	712.3	831.7	596.1	577.9	18.25	32.666			
4,400.0	4,350.6	4,334.8	4,334.1	13.4	7.6	49.12	713.2	833.8	587.4	568.6	18.81	31.234			
4,500.0	4,449.2	4,437.1	4,436.4	13.7	7.7	50.31	714.6	835.6	578.6	559.3	19.38	29.860			
4,600.0	4,547.8	4,536.7	4,536.0	14.0	7.9	51.49	715.9	836.7	569.5	549.5	19.95	28.548			
4,700.0	4,646.4	4,635.7	4,635.0	14.4	8.1	52.72	717.2	838.2	561.0	540.5	20.53	27.331			
4,800.0	4,745.0	4,738.9	4,738.1	14.7	8.3	54.10	717.8	839.2	552.0	530.9	21.13	26.129			
4,900.0	4,843.7	4,838.1	4,837.3	15.0	8.4	55.51	717.9	839.8	543.0	521.2	21.73	24.988			
5,000.0	4,942.3	4,936.7	4,935.9	15.4	8.6	56.94	718.2	840.3	534.3	512.0	22.33	23.924			
5,100.0	5,040.9	5,034.9	5,034.2	15.7	8.8	58.37	718.8	840.9	526.0	503.0	22.94	22.928			

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 1A-34H - Hz - Hz													Offset Site Error: 0.0 ft	
Survey Program: 785-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,139.5	5,132.9	5,132.1	16.1	9.0	59.85	719.4	841.6	518.2	494.6	23.55	21.999		
5,300.0	5,238.1	5,230.8	5,230.0	16.4	9.1	61.33	720.4	842.4	510.8	486.7	24.17	21.137		
5,400.0	5,336.7	5,314.4	5,313.5	16.7	9.3	62.56	721.8	844.1	505.1	480.3	24.74	20.419		
5,489.6	5,425.1	5,385.8	5,384.8	17.0	9.4	63.49	724.4	848.1	503.5	478.2	25.23	19.958		
5,500.0	5,435.3	5,394.5	5,393.5	17.1	9.4	63.59	724.7	848.8	503.5	478.2	25.28	19.913		
5,600.0	5,534.0	5,482.2	5,480.7	17.4	9.6	64.65	728.5	856.6	505.2	479.3	25.85	19.543		
5,700.0	5,632.6	5,568.9	5,566.9	17.7	9.8	65.77	731.6	866.3	509.4	482.9	26.42	19.280		
5,800.0	5,731.2	5,653.4	5,650.5	18.1	9.9	66.76	735.2	878.1	516.5	489.6	26.98	19.147		
5,900.0	5,829.8	5,742.6	5,738.3	18.4	10.1	67.70	739.5	892.7	526.3	498.8	27.54	19.109		
6,000.0	5,928.4	5,831.9	5,826.1	18.8	10.3	68.69	742.9	908.6	537.7	509.6	28.11	19.129		
6,100.0	6,027.0	5,909.2	5,901.6	19.1	10.5	69.43	746.5	924.8	552.4	523.8	28.64	19.289		
6,200.0	6,125.6	6,008.0	5,997.8	19.4	10.7	70.50	749.1	947.4	569.4	540.2	29.23	19.478		
6,300.0	6,224.3	6,108.3	6,095.5	19.8	11.0	71.50	752.1	969.8	586.0	556.2	29.83	19.646		
6,400.0	6,322.9	6,207.0	6,191.5	20.1	11.3	72.18	757.6	991.9	602.5	572.1	30.41	19.815		
6,500.0	6,421.5	6,305.7	6,287.4	20.5	11.5	72.77	763.6	1,014.5	619.4	588.4	30.98	19.994		
6,600.0	6,520.1	6,421.2	6,399.9	20.8	11.9	73.45	770.6	1,039.6	635.3	603.7	31.60	20.106		
6,700.0	6,618.7	6,849.6	6,819.5	21.1	12.3	82.03	755.4	1,004.0	623.4	590.3	33.11	18.829		
6,800.0	6,717.3	7,053.1	6,993.3	21.5	12.4	92.28	722.1	904.8	575.4	541.6	33.80	17.024		
6,900.0	6,815.9	7,238.3	7,125.2	21.8	12.8	107.81	678.9	783.1	523.1	489.2	33.86	15.449		
7,000.0	6,914.6	7,311.3	7,167.5	22.1	13.2	125.20	660.5	726.5	469.9	436.1	33.85	13.881		
7,100.0	7,013.6	7,381.7	7,204.6	22.3	13.8	-163.81	641.8	669.8	431.2	397.4	33.79	12.758		
7,200.0	7,110.8	7,444.8	7,235.0	22.4	14.4	-132.81	624.3	617.3	410.5	377.1	33.37	12.301		
7,266.3	7,172.8	7,491.9	7,256.0	22.3	14.9	-121.80	610.3	577.6	406.8	373.9	32.94	12.350 CC, ES		
7,300.0	7,203.3	7,516.6	7,265.9	22.3	15.2	-117.15	602.5	556.4	407.7	375.0	32.76	12.446		
7,400.0	7,288.3	7,591.5	7,290.3	22.1	16.2	-104.98	577.5	490.2	419.2	386.9	32.28	12.988		
7,500.0	7,363.1	7,668.7	7,310.4	21.8	17.4	-94.66	550.4	420.7	440.8	408.6	32.19	13.693		
7,600.0	7,425.5	7,766.1	7,325.6	21.5	19.0	-84.71	517.6	330.3	465.5	432.7	32.81	14.189		
7,700.0	7,473.6	7,849.2	7,329.5	21.2	20.6	-77.39	491.9	251.4	489.4	455.7	33.73	14.510		
7,800.0	7,506.0	7,931.1	7,327.2	21.0	22.2	-71.93	466.9	173.5	511.4	476.4	34.97	14.621		
7,900.0	7,521.6	8,023.3	7,323.1	20.9	24.1	-68.62	437.7	86.1	528.6	491.7	36.87	14.337		
8,000.0	7,523.0	8,112.6	7,319.6	21.0	25.9	-68.07	407.9	2.1	540.6	501.2	39.34	13.741		
8,100.0	7,523.0	8,198.0	7,318.6	21.4	27.7	-68.43	376.6	-77.5	554.0	511.9	42.17	13.138		
8,200.0	7,523.0	8,284.8	7,319.3	22.1	29.6	-69.05	342.4	-157.3	569.7	524.3	45.35	12.563		
8,300.0	7,523.0	8,373.0	7,320.0	23.3	31.5	-69.71	306.2	-237.6	587.1	538.3	48.77	12.037		
8,400.0	7,523.0	8,452.5	7,320.6	24.7	33.2	-70.36	271.2	-309.0	607.5	555.3	52.19	11.641		
8,500.0	7,523.0	8,543.4	7,321.3	26.3	35.1	-71.10	229.7	-389.9	629.8	573.8	56.00	11.247		
8,600.0	7,523.0	8,632.2	7,320.8	28.1	37.1	-71.69	188.5	-468.5	653.3	593.5	59.84	10.919		
8,700.0	7,523.0	8,744.8	7,318.3	30.1	39.6	-72.22	136.9	-568.6	676.9	612.7	64.26	10.535		
8,800.0	7,523.0	8,852.5	7,315.6	32.0	42.0	-72.59	90.1	-665.5	698.1	629.5	68.63	10.172		
8,900.0	7,523.0	8,970.4	7,314.2	34.1	44.6	-73.05	40.4	-772.4	717.6	644.3	73.35	9.783		
9,000.0	7,523.0	9,092.5	7,314.9	36.2	47.4	-73.60	-8.4	-884.3	734.4	656.1	78.28	9.382		
9,100.0	7,523.0	9,237.3	7,318.1	38.3	50.8	-74.23	-59.4	-1,019.9	745.9	662.0	83.86	8.894		
9,200.0	7,523.0	9,353.6	7,320.4	40.5	53.5	-74.60	-95.1	-1,130.5	752.8	664.0	88.79	8.479		
9,300.0	7,523.0	9,459.9	7,321.3	42.7	56.0	-74.80	-126.2	-1,232.1	758.7	665.2	93.47	8.117		
9,400.0	7,523.0	9,565.9	7,320.7	44.9	58.5	-74.86	-156.2	-1,333.7	763.9	665.8	98.12	7.786		
9,500.0	7,523.0	9,679.5	7,318.9	47.2	61.2	-74.81	-186.5	-1,443.3	767.8	664.9	102.93	7.460		
9,600.0	7,523.0	9,799.6	7,316.5	49.4	64.0	-74.67	-215.8	-1,559.7	769.5	661.7	107.86	7.134		
9,700.0	7,523.0	9,908.3	7,314.7	51.7	66.6	-74.52	-240.0	-1,665.6	769.1	656.5	112.55	6.834		
9,800.0	7,523.0	10,019.1	7,314.7	54.0	69.2	-74.48	-264.0	-1,773.8	767.6	650.2	117.35	6.541		
9,900.0	7,523.0	10,133.6	7,314.7	56.3	72.0	-74.42	-287.2	-1,885.9	764.7	642.5	122.23	6.257		
10,000.0	7,523.0	10,270.5	7,316.1	58.6	75.2	-74.33	-310.1	-2,020.8	758.0	630.4	127.63	5.939		
10,100.0	7,523.0	10,409.6	7,315.4	60.9	78.5	-73.92	-325.5	-2,159.1	746.4	613.5	132.87	5.617		

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 1A-34H - Hz - Hz													Offset Site Error:	0.0 ft
Survey Program: 785-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		
10,200.0	7,523.0	10,518.1	7,309.5	63.3	81.1	-73.06	-331.9	-2,267.2	731.1	594.1	137.05	5.335		
10,300.0	7,523.0	10,604.4	7,302.0	65.6	83.1	-72.12	-336.5	-2,353.0	716.5	575.9	140.60	5.096		
10,400.0	7,523.0	10,680.0	7,293.6	68.0	84.9	-71.15	-341.5	-2,428.0	704.3	560.5	143.80	4.898		
10,500.0	7,523.0	10,760.0	7,282.9	70.3	86.8	-70.01	-348.8	-2,507.0	695.4	548.5	146.87	4.735		
10,600.0	7,523.0	10,837.1	7,271.4	72.7	88.6	-68.86	-357.9	-2,582.6	690.0	540.3	149.76	4.607		
10,700.0	7,523.0	10,939.1	7,259.5	75.0	91.0	-67.70	-373.4	-2,682.7	686.9	533.8	153.09	4.487		
10,800.0	7,523.0	11,048.2	7,256.5	77.4	93.7	-67.26	-392.3	-2,790.1	682.4	525.1	157.31	4.338		
10,900.0	7,523.0	11,156.7	7,259.8	79.8	96.3	-67.45	-411.8	-2,896.8	678.8	516.5	162.29	4.183		
10,935.1	7,523.0	11,189.0	7,261.1	80.7	97.1	-67.57	-417.7	-2,928.5	678.5	514.6	163.91	4.140		
11,000.0	7,523.0	11,254.6	7,263.7	82.2	98.7	-67.84	-430.0	-2,992.9	679.6	512.6	166.98	4.070		
11,100.0	7,523.0	11,354.0	7,268.7	84.7	101.1	-68.39	-448.2	-3,090.5	683.9	512.3	171.60	3.985		
11,200.0	7,523.0	11,454.7	7,272.3	87.1	103.5	-68.94	-467.1	-3,189.3	693.3	517.4	175.94	3.941		
11,300.0	7,523.0	11,552.1	7,276.4	89.5	105.9	-69.57	-484.6	-3,285.1	705.9	526.0	179.96	3.923 SF		
11,400.0	7,523.0	11,643.3	7,281.7	92.0	108.1	-70.34	-502.1	-3,374.4	723.6	539.9	183.62	3.940		
11,500.0	7,523.0	11,735.0	7,287.0	94.4	110.3	-71.21	-520.8	-3,463.9	746.5	559.2	187.34	3.985		
11,600.0	7,523.0	11,829.1	7,295.0	96.8	112.6	-72.46	-540.9	-3,555.6	771.2	578.2	193.03	3.995		
11,638.3	7,523.0	11,860.8	7,297.5	97.7	113.3	-72.85	-547.8	-3,586.4	781.0	586.0	195.02	4.005		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 1C-34H-H266 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-10.9	0.0	10.9					
100.0	100.0	100.0	100.0	0.1	0.1	180.00	-10.9	0.0	10.9	10.7	0.26	41.743		
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-10.9	0.0	10.9	10.3	0.61	17.890	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	156.17	-10.9	0.0	11.7	10.8	0.96	12.209		
400.0	400.0	399.9	399.9	0.7	0.7	157.00	-11.2	0.8	14.3	13.0	1.31	10.931		
500.0	499.9	499.7	499.7	0.8	0.8	154.42	-11.9	3.4	18.9	17.3	1.67	11.369		
600.0	599.7	599.4	599.2	1.0	1.0	150.89	-13.0	7.5	25.6	23.6	2.03	12.628		
700.0	699.4	698.8	698.5	1.3	1.2	147.62	-14.6	13.4	34.5	32.1	2.41	14.321		
800.0	798.9	797.9	797.3	1.5	1.4	144.90	-16.7	20.8	45.6	42.8	2.81	16.236		
900.0	898.3	896.6	895.5	1.7	1.6	142.72	-19.2	29.9	58.8	55.6	3.23	18.238		
1,000.0	997.4	994.8	993.1	2.0	1.9	140.98	-22.1	40.6	74.3	70.6	3.67	20.245		
1,100.0	1,096.3	1,092.6	1,090.0	2.3	2.2	139.57	-25.5	52.8	92.0	87.8	4.14	22.203		
1,200.0	1,195.0	1,189.7	1,186.1	2.6	2.4	138.42	-29.2	66.5	111.7	107.0	4.64	24.061		
1,300.0	1,293.6	1,286.4	1,281.5	3.0	2.7	137.12	-33.4	81.7	132.5	127.3	5.17	25.645		
1,400.0	1,392.2	1,383.7	1,377.3	3.3	3.1	135.78	-38.0	98.1	154.0	148.3	5.70	26.998		
1,500.0	1,490.8	1,481.3	1,473.4	3.6	3.4	134.74	-42.5	114.7	175.6	169.3	6.25	28.104		
1,600.0	1,589.4	1,578.9	1,569.5	3.9	3.7	133.94	-47.1	131.2	197.2	190.4	6.80	29.023		
1,700.0	1,688.0	1,676.5	1,665.5	4.3	4.1	133.29	-51.6	147.8	218.9	211.5	7.35	29.796		
1,800.0	1,786.6	1,774.1	1,761.6	4.6	4.4	132.76	-56.2	164.3	240.6	232.7	7.90	30.455		
1,900.0	1,885.3	1,871.7	1,857.7	4.9	4.7	132.31	-60.8	180.9	262.3	253.8	8.46	31.022		
2,000.0	1,983.9	1,969.3	1,953.8	5.3	5.1	131.94	-65.3	197.4	284.0	275.0	9.01	31.516		
2,100.0	2,082.5	2,066.9	2,049.8	5.6	5.4	131.62	-69.9	214.0	305.8	296.2	9.57	31.948		
2,200.0	2,181.1	2,164.5	2,145.9	5.9	5.8	131.34	-74.4	230.5	327.5	317.4	10.13	32.331		
2,300.0	2,279.7	2,262.0	2,242.0	6.3	6.1	131.09	-79.0	247.1	349.2	338.6	10.69	32.671		
2,400.0	2,378.3	2,359.6	2,338.0	6.6	6.4	130.88	-83.6	263.6	371.0	359.7	11.25	32.976		
2,500.0	2,476.9	2,457.2	2,434.1	6.9	6.8	130.68	-88.1	280.2	392.8	380.9	11.81	33.250		
2,600.0	2,575.6	2,554.8	2,530.2	7.3	7.1	130.51	-92.7	296.7	414.5	402.1	12.37	33.498		
2,700.0	2,674.2	2,652.4	2,626.3	7.6	7.5	130.36	-97.2	313.3	436.3	423.3	12.94	33.723		
2,800.0	2,772.8	2,750.0	2,722.3	8.0	7.8	130.22	-101.8	329.8	458.1	444.6	13.50	33.929		
2,900.0	2,871.4	2,847.6	2,818.4	8.3	8.2	130.09	-106.4	346.4	479.8	465.8	14.06	34.118		
3,000.0	2,970.0	2,945.2	2,914.5	8.6	8.5	129.97	-110.9	363.0	501.6	487.0	14.63	34.291		
3,100.0	3,068.6	3,042.8	3,010.6	9.0	8.8	129.87	-115.5	379.5	523.4	508.2	15.19	34.451		
3,200.0	3,167.2	3,140.4	3,106.6	9.3	9.2	129.77	-120.0	396.1	545.1	529.4	15.76	34.599		
3,300.0	3,265.8	3,238.0	3,202.7	9.6	9.5	129.68	-124.6	412.6	566.9	550.6	16.32	34.736		
3,400.0	3,364.5	3,335.6	3,298.8	10.0	9.9	129.59	-129.2	429.2	588.7	571.8	16.89	34.864		
3,500.0	3,463.1	3,433.2	3,394.9	10.3	10.2	129.52	-133.7	445.7	610.5	593.0	17.45	34.983		
3,600.0	3,561.7	3,530.8	3,490.9	10.6	10.6	129.44	-138.3	462.3	632.3	614.2	18.02	35.094		
3,700.0	3,660.3	3,628.4	3,587.0	11.0	10.9	129.38	-142.8	478.8	654.0	635.5	18.58	35.199		
3,800.0	3,758.9	3,726.0	3,683.1	11.3	11.3	129.31	-147.4	495.4	675.8	656.7	19.15	35.297		
3,900.0	3,857.5	3,823.6	3,779.2	11.7	11.6	129.25	-152.0	511.9	697.6	677.9	19.71	35.389		
4,000.0	3,956.1	3,921.2	3,875.2	12.0	12.0	129.20	-156.5	528.5	719.4	699.1	20.28	35.476		
4,100.0	4,054.8	4,018.8	3,971.3	12.3	12.3	129.14	-161.1	545.0	741.2	720.3	20.84	35.557		
4,200.0	4,153.4	4,116.4	4,067.4	12.7	12.7	129.10	-165.6	561.6	763.0	741.6	21.41	35.635		
4,300.0	4,252.0	4,214.0	4,163.5	13.0	13.0	129.05	-170.2	578.1	784.7	762.8	21.98	35.708		
4,400.0	4,350.6	4,311.6	4,259.5	13.4	13.4	129.00	-174.8	594.7	806.5	784.0	22.54	35.778		
4,500.0	4,449.2	4,409.2	4,355.6	13.7	13.7	128.96	-179.3	611.3	828.3	805.2	23.11	35.844		
4,600.0	4,547.8	4,506.8	4,451.7	14.0	14.0	128.92	-183.9	627.8	850.1	826.4	23.68	35.907		
4,700.0	4,646.4	4,604.4	4,547.7	14.4	14.4	128.88	-188.5	644.4	871.9	847.7	24.24	35.966		
4,800.0	4,745.0	4,702.0	4,643.8	14.7	14.7	128.85	-193.0	660.9	893.7	868.9	24.81	36.023		
4,900.0	4,843.7	4,799.5	4,739.9	15.0	15.1	128.81	-197.6	677.5	915.5	890.1	25.38	36.078		
5,000.0	4,942.3	4,897.1	4,836.0	15.4	15.4	128.78	-202.1	694.0	937.3	911.3	25.94	36.129		
5,100.0	5,040.9	4,994.7	4,932.0	15.7	15.8	128.75	-206.7	710.6	959.0	932.5	26.51	36.179		

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 1C-34H-H266 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,139.5	5,092.3	5,028.1	16.1	16.1	128.72	-211.3	727.1	980.8	953.8	27.08	36.226		
5,300.0	5,238.1	5,189.9	5,124.2	16.4	16.5	128.69	-215.8	743.7	1,002.6	975.0	27.64	36.272		
5,400.0	5,336.7	5,287.5	5,220.3	16.7	16.8	128.67	-220.4	760.2	1,024.4	996.2	28.21	36.315		
5,500.0	5,435.3	5,385.1	5,316.3	17.1	17.2	128.64	-224.9	776.8	1,046.2	1,017.4	28.78	36.357		
5,600.0	5,534.0	5,482.7	5,412.4	17.4	17.5	128.61	-229.5	793.3	1,068.0	1,038.7	29.34	36.397		
5,700.0	5,632.6	5,580.3	5,508.5	17.7	17.9	128.59	-234.1	809.9	1,089.8	1,059.9	29.91	36.436		
5,800.0	5,731.2	5,677.9	5,604.6	18.1	18.2	128.57	-238.6	826.5	1,111.6	1,081.1	30.48	36.473		
5,900.0	5,829.8	5,775.5	5,700.6	18.4	18.6	128.54	-243.2	843.0	1,133.4	1,102.3	31.04	36.509		
6,000.0	5,928.4	5,873.1	5,796.7	18.8	18.9	128.52	-247.7	859.6	1,155.2	1,123.5	31.61	36.543		
6,100.0	6,027.0	5,970.7	5,892.8	19.1	19.3	128.50	-252.3	876.1	1,176.9	1,144.8	32.18	36.576		
6,200.0	6,125.6	6,068.3	5,988.9	19.4	19.6	128.48	-256.9	892.7	1,198.7	1,166.0	32.74	36.608		
6,300.0	6,224.3	6,165.9	6,084.9	19.8	20.0	128.46	-261.4	909.2	1,220.5	1,187.2	33.31	36.639		
6,400.0	6,322.9	6,263.5	6,181.0	20.1	20.3	128.45	-266.0	925.8	1,242.3	1,208.4	33.88	36.669		
6,500.0	6,421.5	6,361.1	6,277.1	20.5	20.7	128.43	-270.5	942.3	1,264.1	1,229.7	34.45	36.698		
6,600.0	6,520.1	6,458.7	6,373.2	20.8	21.0	128.41	-275.1	958.9	1,285.9	1,250.9	35.01	36.726		
6,700.0	6,618.7	6,556.3	6,469.2	21.1	21.3	128.39	-279.7	975.4	1,307.7	1,272.1	35.58	36.753		
6,800.0	6,717.3	6,653.9	6,565.3	21.5	21.7	128.38	-284.2	992.0	1,329.5	1,293.3	36.15	36.779		
6,900.0	6,815.9	6,751.5	6,661.4	21.8	22.0	128.36	-288.8	1,008.5	1,351.3	1,314.6	36.72	36.804		
7,000.0	6,914.6	6,849.0	6,757.4	22.1	22.4	138.96	-293.3	1,025.1	1,373.1	1,335.9	37.25	36.861		
7,100.0	7,013.6	6,949.1	6,855.9	22.3	22.7	-152.27	-298.0	1,042.0	1,397.4	1,359.9	37.49	37.272		
8,200.0	7,523.0	8,564.7	7,512.0	22.1	22.8	-89.55	-555.4	-127.9	1,407.1	1,365.8	41.28	34.083		
8,300.0	7,523.0	8,664.6	7,512.0	23.3	24.6	-89.55	-572.7	-226.2	1,401.1	1,356.5	44.66	31.375		
8,400.0	7,523.0	8,764.4	7,512.0	24.7	26.5	-89.55	-590.1	-324.5	1,395.2	1,346.9	48.29	28.889		
8,500.0	7,523.0	8,864.2	7,512.0	26.3	28.4	-89.55	-607.4	-422.9	1,389.2	1,337.1	52.14	26.645		
8,600.0	7,523.0	8,964.0	7,512.0	28.1	30.5	-89.54	-624.7	-521.2	1,383.3	1,327.1	56.15	24.637		
8,700.0	7,523.0	9,063.8	7,512.0	30.1	32.5	-89.54	-642.1	-619.5	1,377.3	1,317.1	60.29	22.847		
8,800.0	7,523.0	9,163.7	7,512.0	32.0	34.7	-89.54	-659.4	-717.8	1,371.4	1,306.9	64.53	21.252		
8,900.0	7,523.0	9,263.5	7,512.0	34.1	36.8	-89.54	-676.7	-816.1	1,365.4	1,296.6	68.86	19.829		
9,000.0	7,523.0	9,363.3	7,512.0	36.2	39.0	-89.54	-694.1	-914.4	1,359.5	1,286.2	73.26	18.556		
9,100.0	7,523.0	9,463.1	7,512.0	38.3	41.3	-89.53	-711.4	-1,012.7	1,353.5	1,275.8	77.72	17.415		
9,200.0	7,523.0	9,563.0	7,512.0	40.5	43.5	-89.53	-728.7	-1,111.0	1,347.6	1,265.4	82.23	16.387		
9,300.0	7,523.0	9,662.8	7,512.0	42.7	45.8	-89.53	-746.1	-1,209.3	1,341.7	1,254.9	86.78	15.460		
9,400.0	7,523.0	9,762.6	7,512.0	44.9	48.0	-89.53	-763.4	-1,307.6	1,335.7	1,244.3	91.37	14.619		
9,500.0	7,523.0	9,862.4	7,512.0	47.2	50.3	-89.53	-780.7	-1,405.9	1,329.8	1,233.8	95.99	13.854		
9,600.0	7,523.0	9,962.2	7,512.0	49.4	52.7	-89.52	-798.1	-1,504.2	1,323.8	1,223.2	100.63	13.156		
9,700.0	7,523.0	10,062.1	7,512.0	51.7	55.0	-89.52	-815.4	-1,602.5	1,317.9	1,212.6	105.29	12.517		
9,800.0	7,523.0	10,161.9	7,512.0	54.0	57.3	-89.52	-832.7	-1,700.8	1,311.9	1,201.9	109.97	11.929		
9,900.0	7,523.0	10,261.7	7,512.0	56.3	59.7	-89.52	-850.1	-1,799.1	1,306.0	1,191.3	114.67	11.389		
10,000.0	7,523.0	10,361.5	7,512.0	58.6	62.0	-89.51	-867.4	-1,897.5	1,300.0	1,180.6	119.39	10.889		
10,100.0	7,523.0	10,461.4	7,512.0	60.9	64.4	-89.51	-884.7	-1,995.8	1,294.1	1,170.0	124.12	10.426		
10,200.0	7,523.0	10,561.2	7,512.0	63.3	66.7	-89.51	-902.1	-2,094.1	1,288.1	1,159.3	128.86	9.996		
10,300.0	7,523.0	10,661.0	7,512.0	65.6	69.1	-89.51	-919.4	-2,192.4	1,282.2	1,148.6	133.61	9.596		
10,400.0	7,523.0	10,760.8	7,512.0	68.0	71.5	-89.51	-936.7	-2,290.7	1,276.2	1,137.9	138.37	9.223		
10,500.0	7,523.0	10,860.7	7,512.0	70.3	73.8	-89.50	-954.1	-2,389.0	1,270.3	1,127.1	143.14	8.874		
10,600.0	7,523.0	10,960.5	7,512.0	72.7	76.2	-89.50	-971.4	-2,487.3	1,264.3	1,116.4	147.92	8.548		
10,700.0	7,523.0	11,060.3	7,512.0	75.0	78.6	-89.50	-988.7	-2,585.6	1,258.4	1,105.7	152.70	8.241		
10,800.0	7,523.0	11,160.1	7,512.0	77.4	81.0	-89.50	-1,006.1	-2,683.9	1,252.5	1,094.9	157.54	7.950		
10,900.0	7,523.0	11,260.1	7,512.0	79.8	83.4	-89.50	-1,023.4	-2,782.3	1,249.3	1,086.7	162.57	7.684		
10,922.6	7,523.0	11,282.7	7,512.0	80.4	84.0	-89.50	-1,027.4	-2,804.6	1,249.1	1,085.5	163.67	7.632		
11,000.0	7,523.0	11,360.1	7,512.0	82.2	85.8	-89.50	-1,040.8	-2,880.8	1,250.5	1,083.1	167.33	7.473		
11,100.0	7,523.0	11,459.9	7,512.0	84.7	88.2	-89.50	-1,058.1	-2,979.1	1,256.1	1,084.3	171.78	7.312		
11,200.0	7,523.0	11,559.4	7,512.0	87.1	90.6	-89.50	-1,075.4	-3,077.1	1,266.2	1,090.3	175.90	7.198		

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S34-T2N-R66W (McConahay) - McConahay 1C-34H-H266 - Hz - Plan #1		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance				Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)					
11,300.0	7,523.0	11,658.3	7,512.0		89.5	93.0	-89.50	-1,092.6	-3,174.5	1,280.6	1,101.0	179.66	7.128				
11,400.0	7,523.0	11,756.5	7,512.0	92.0	95.4	-89.50	-1,109.6	-3,271.2	1,299.4	1,116.4	183.04	7.099					
11,500.0	7,523.0	11,853.8	7,512.0	94.4	97.7	-89.51	-1,126.5	-3,367.0	1,322.5	1,136.2	186.33	7.098					
11,600.0	7,523.0	11,950.7	7,512.0	96.8	100.1	-89.52	-1,143.4	-3,462.5	1,347.1	1,156.1	191.05	7.051					
11,638.3	7,523.0	11,987.9	7,512.0	97.7	101.0	-89.52	-1,149.8	-3,499.1	1,356.5	1,163.7	192.85	7.034 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 1D-34H-H266 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	180.00	-21.9	0.0	21.9					
100.0	100.0	101.0	101.0	0.1	0.1	180.00	-21.9	0.0	21.9	21.6	0.26	82.934		
166.3	166.3	167.3	167.3	0.2	0.2	180.00	-21.9	0.0	21.9	21.4	0.50	44.148	CC	
200.0	200.0	201.0	201.0	0.3	0.3	180.00	-21.9	0.0	21.9	21.2	0.61	35.678	ES	
300.0	300.0	300.7	300.7	0.5	0.5	153.83	-22.5	0.6	23.3	22.4	0.96	24.247		
400.0	400.0	400.2	400.2	0.7	0.7	152.70	-24.5	2.3	27.7	26.4	1.31	21.082		
500.0	499.9	499.6	499.4	0.8	0.8	151.45	-27.8	5.1	34.9	33.3	1.67	20.948	SF	
600.0	599.7	598.5	598.2	1.0	1.0	150.37	-32.4	9.0	45.1	43.1	2.03	22.230		
700.0	699.4	696.9	696.3	1.3	1.3	149.52	-38.2	14.0	58.2	55.8	2.40	24.256		
800.0	798.9	794.7	793.7	1.5	1.5	148.88	-45.3	20.1	74.1	71.3	2.78	26.689		
900.0	898.3	891.8	890.1	1.7	1.7	148.39	-53.5	27.2	92.9	89.7	3.16	29.341		
1,000.0	997.4	988.0	985.5	2.0	2.0	148.00	-62.9	35.2	114.4	110.9	3.57	32.097		
1,100.0	1,096.3	1,083.3	1,079.8	2.3	2.3	147.69	-73.4	44.3	138.8	134.8	3.98	34.886		
1,200.0	1,195.0	1,177.5	1,172.8	2.6	2.6	147.45	-85.0	54.2	165.7	161.3	4.41	37.624		
1,300.0	1,293.6	1,270.9	1,264.7	3.0	2.9	147.12	-97.6	65.0	194.2	189.4	4.84	40.089		
1,400.0	1,392.2	1,363.6	1,355.6	3.3	3.2	146.65	-111.2	76.7	224.0	218.7	5.29	42.319		
1,500.0	1,490.8	1,455.4	1,445.4	3.6	3.6	146.10	-125.8	89.2	255.0	249.3	5.75	44.365		
1,600.0	1,589.4	1,546.4	1,534.0	3.9	4.0	145.50	-141.3	102.5	287.4	281.2	6.21	46.266		
1,700.0	1,688.0	1,636.4	1,621.4	4.3	4.4	144.88	-157.8	116.7	321.0	314.3	6.68	48.052		
1,800.0	1,786.6	1,725.6	1,707.6	4.6	4.8	144.25	-175.1	131.5	355.9	348.8	7.16	49.746		
1,900.0	1,885.3	1,814.4	1,793.1	4.9	5.2	143.62	-193.3	147.1	392.1	384.5	7.63	51.362		
2,000.0	1,983.9	1,907.3	1,882.4	5.3	5.7	143.03	-212.8	163.9	428.8	420.7	8.13	52.773		
2,100.0	2,082.5	2,000.3	1,971.8	5.6	6.2	142.53	-232.3	180.6	465.6	457.0	8.62	54.023		
2,200.0	2,181.1	2,093.2	2,061.1	5.9	6.6	142.11	-251.7	197.3	502.3	493.2	9.11	55.136		
2,300.0	2,279.7	2,186.1	2,150.4	6.3	7.1	141.74	-271.2	214.0	539.1	529.5	9.60	56.133		
2,400.0	2,378.3	2,279.1	2,239.7	6.6	7.6	141.42	-290.7	230.7	575.9	565.8	10.10	57.032		
2,500.0	2,476.9	2,372.0	2,329.0	6.9	8.1	141.14	-310.2	247.5	612.8	602.2	10.59	57.847		
2,600.0	2,575.6	2,464.9	2,418.4	7.3	8.5	140.89	-329.7	264.2	649.6	638.5	11.09	58.588		
2,700.0	2,674.2	2,557.9	2,507.7	7.6	9.0	140.67	-349.1	280.9	686.4	674.9	11.58	59.265		
2,800.0	2,772.8	2,650.8	2,597.0	8.0	9.5	140.47	-368.6	297.6	723.3	711.2	12.08	59.886		
2,900.0	2,871.4	2,743.7	2,686.3	8.3	10.0	140.29	-388.1	314.3	760.1	747.6	12.57	60.457		
3,000.0	2,970.0	2,836.7	2,775.6	8.6	10.4	140.13	-407.6	331.0	797.0	783.9	13.07	60.985		
3,100.0	3,068.6	2,929.6	2,864.9	9.0	10.9	139.98	-427.1	347.8	833.9	820.3	13.56	61.473		
3,200.0	3,167.2	3,022.5	2,954.3	9.3	11.4	139.84	-446.5	364.5	870.7	856.7	14.06	61.926		
3,300.0	3,265.8	3,115.5	3,043.6	9.6	11.9	139.72	-466.0	381.2	907.6	893.1	14.56	62.349		
3,400.0	3,364.5	3,208.4	3,132.9	10.0	12.4	139.60	-485.5	397.9	944.5	929.4	15.05	62.742		
3,500.0	3,463.1	3,301.4	3,222.2	10.3	12.8	139.49	-505.0	414.6	981.4	965.8	15.55	63.111		
3,600.0	3,561.7	3,394.3	3,311.5	10.6	13.3	139.39	-524.5	431.4	1,018.3	1,002.2	16.05	63.456		
3,700.0	3,660.3	3,487.2	3,400.9	11.0	13.8	139.30	-544.0	448.1	1,055.1	1,038.6	16.54	63.780		
3,800.0	3,758.9	3,580.2	3,490.2	11.3	14.3	139.21	-563.4	464.8	1,092.0	1,075.0	17.04	64.085		
3,900.0	3,857.5	3,673.1	3,579.5	11.7	14.8	139.13	-582.9	481.5	1,128.9	1,111.4	17.54	64.373		
4,000.0	3,956.1	3,766.0	3,668.8	12.0	15.2	139.06	-602.4	498.2	1,165.8	1,147.8	18.03	64.645		
4,100.0	4,054.8	3,859.0	3,758.1	12.3	15.7	138.99	-621.9	515.0	1,202.7	1,184.2	18.53	64.901		
4,200.0	4,153.4	3,951.9	3,847.5	12.7	16.2	138.92	-641.4	531.7	1,239.6	1,220.6	19.03	65.145		
4,300.0	4,252.0	4,044.8	3,936.8	13.0	16.7	138.86	-660.8	548.4	1,276.5	1,257.0	19.53	65.375		
4,400.0	4,350.6	4,137.8	4,026.1	13.4	17.2	138.80	-680.3	565.1	1,313.4	1,293.4	20.02	65.594		
4,500.0	4,449.2	4,230.7	4,115.4	13.7	17.6	138.74	-699.8	581.8	1,350.3	1,329.8	20.52	65.803		
4,600.0	4,547.8	4,323.6	4,204.7	14.0	18.1	138.69	-719.3	598.5	1,387.2	1,366.2	21.02	66.001		

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 31-34 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-54.26	645.2	-896.6	1,104.6					
100.0	100.0	100.9	100.9	0.1	0.1	-54.25	645.2	-896.3	1,104.4	1,104.2	0.20	5,527.044		
200.0	200.0	204.7	204.7	0.3	0.2	-54.22	645.3	-895.4	1,103.7	1,103.3	0.46	2,373.716		
300.0	300.0	309.7	309.7	0.5	0.3	-79.91	645.4	-894.0	1,102.5	1,101.8	0.73	1,504.872		
400.0	400.0	408.5	408.4	0.7	0.3	-80.01	645.4	-892.6	1,101.0	1,100.0	1.00	1,102.283		
500.0	499.9	527.1	527.0	0.8	0.4	-80.29	644.3	-890.5	1,098.2	1,097.0	1.29	851.386		
600.0	599.7	641.2	641.1	1.0	0.6	-80.72	641.6	-887.4	1,093.6	1,092.0	1.59	688.409		
700.0	699.4	742.2	742.0	1.3	0.6	-81.24	638.2	-884.4	1,088.0	1,086.1	1.89	575.504		
800.0	798.9	838.8	838.5	1.5	0.7	-81.82	635.3	-881.5	1,082.4	1,080.2	2.21	490.524		
900.0	898.3	935.0	934.6	1.7	0.8	-82.48	632.8	-878.7	1,077.0	1,074.4	2.54	423.560		
1,000.0	997.4	1,034.7	1,034.2	2.0	0.9	-83.24	630.5	-875.8	1,071.6	1,068.7	2.90	368.978		
1,100.0	1,096.3	1,132.1	1,131.6	2.3	1.0	-84.07	628.3	-872.7	1,066.0	1,062.7	3.29	324.191		
1,200.0	1,195.0	1,220.5	1,219.9	2.6	1.1	-84.91	626.3	-870.7	1,061.2	1,057.5	3.68	288.298		
1,300.0	1,293.6	1,320.3	1,319.7	3.0	1.2	-85.82	624.6	-868.5	1,057.1	1,053.0	4.09	258.481		
1,400.0	1,392.2	1,421.2	1,420.5	3.3	1.3	-86.71	623.3	-865.7	1,052.9	1,048.4	4.50	233.837		
1,500.0	1,490.8	1,516.6	1,515.9	3.6	1.4	-87.56	622.3	-863.1	1,049.1	1,044.2	4.91	213.507		
1,600.0	1,589.4	1,618.3	1,617.6	3.9	1.4	-88.47	621.2	-860.4	1,045.6	1,040.3	5.33	196.083		
1,700.0	1,688.0	1,720.8	1,720.0	4.3	1.5	-89.40	619.6	-857.4	1,041.9	1,036.2	5.75	181.103		
1,800.0	1,786.6	1,816.7	1,815.8	4.6	1.6	-90.28	618.2	-854.5	1,038.5	1,032.3	6.17	168.344		
1,900.0	1,885.3	1,911.6	1,910.7	4.9	1.7	-91.18	616.5	-852.2	1,035.7	1,029.1	6.58	157.300		
2,000.0	1,983.9	2,014.9	2,014.0	5.3	1.8	-92.16	614.7	-849.4	1,033.0	1,026.0	7.01	147.429		
2,100.0	2,082.5	2,106.7	2,105.7	5.6	1.9	-93.03	613.2	-847.1	1,030.7	1,023.3	7.42	138.933		
2,200.0	2,181.1	2,200.0	2,199.0	5.9	2.0	-93.91	612.0	-845.4	1,029.5	1,021.7	7.83	131.450		
2,300.0	2,279.7	2,293.1	2,292.1	6.3	2.1	-94.81	610.8	-844.1	1,029.1	1,020.8	8.24	124.826		
2,327.5	2,306.8	2,318.9	2,317.9	6.4	2.1	-95.06	610.4	-843.8	1,029.0	1,020.7	8.36	123.132		
2,400.0	2,378.3	2,386.3	2,385.3	6.6	2.1	-95.70	609.8	-843.2	1,029.2	1,020.6	8.65	118.924		
2,500.0	2,476.9	2,487.8	2,486.8	6.9	2.2	-96.63	609.3	-842.1	1,029.9	1,020.8	9.07	113.540		
2,600.0	2,575.6	2,587.4	2,586.4	7.3	2.3	-97.54	608.9	-840.8	1,030.5	1,021.0	9.48	108.667		
2,700.0	2,674.2	2,677.3	2,676.3	7.6	2.4	-98.35	608.9	-839.8	1,031.8	1,021.9	9.89	104.358		
2,800.0	2,772.8	2,775.1	2,774.0	8.0	2.5	-99.21	609.3	-839.2	1,033.9	1,023.6	10.29	100.430		
2,900.0	2,871.4	2,875.9	2,874.9	8.3	2.6	-100.09	609.7	-838.4	1,036.1	1,025.4	10.70	96.807		
3,000.0	2,970.0	2,975.0	2,973.9	8.6	2.6	-100.93	610.4	-837.5	1,038.4	1,027.3	11.11	93.487		
3,100.0	3,068.6	3,074.3	3,073.2	9.0	2.7	-101.77	611.2	-836.4	1,040.9	1,029.4	11.51	90.434		
3,200.0	3,167.2	3,171.7	3,170.6	9.3	2.8	-102.60	611.7	-835.5	1,043.6	1,031.7	11.91	87.635		
3,300.0	3,265.8	3,270.2	3,269.1	9.6	2.9	-103.44	612.1	-834.8	1,046.7	1,034.4	12.31	85.062		
3,400.0	3,364.5	3,365.3	3,364.2	10.0	3.0	-104.25	612.5	-834.1	1,050.2	1,037.5	12.70	82.706		
3,500.0	3,463.1	3,462.9	3,461.8	10.3	3.1	-105.07	613.2	-833.8	1,054.2	1,041.1	13.09	80.543		
3,600.0	3,561.7	3,558.8	3,557.7	10.6	3.1	-105.84	614.3	-833.3	1,058.5	1,045.0	13.48	78.541		
3,700.0	3,660.3	3,655.1	3,654.0	11.0	3.2	-106.63	614.9	-833.4	1,063.3	1,049.5	13.86	76.713		
3,800.0	3,758.9	3,753.6	3,752.5	11.3	3.3	-107.45	615.4	-833.6	1,068.5	1,054.2	14.24	75.013		
3,900.0	3,857.5	3,850.1	3,849.0	11.7	3.4	-108.24	616.0	-833.8	1,073.9	1,059.3	14.62	73.442		
4,000.0	3,956.1	3,948.0	3,946.9	12.0	3.5	-109.03	616.6	-834.2	1,079.8	1,064.8	15.00	71.992		
4,100.0	4,054.8	4,045.0	4,043.9	12.3	3.6	-109.78	617.6	-834.6	1,085.9	1,070.5	15.37	70.636		
4,200.0	4,153.4	4,143.2	4,142.1	12.7	3.6	-110.51	619.2	-835.2	1,092.5	1,076.7	15.75	69.385		
4,300.0	4,252.0	4,242.9	4,241.7	13.0	3.7	-111.19	621.7	-835.5	1,098.9	1,082.8	16.12	68.180		
4,400.0	4,350.6	4,339.1	4,337.9	13.4	3.8	-111.83	624.4	-836.1	1,105.9	1,089.4	16.49	67.076		
4,500.0	4,449.2	4,441.5	4,440.2	13.7	3.9	-112.47	627.7	-836.5	1,112.8	1,095.9	16.86	66.010		
4,600.0	4,547.8	4,538.4	4,537.1	14.0	4.0	-113.05	631.4	-836.7	1,119.8	1,102.5	17.23	65.004		
4,700.0	4,646.4	4,632.0	4,630.6	14.4	4.1	-113.56	635.8	-837.4	1,127.2	1,109.7	17.59	64.076		
4,800.0	4,745.0	4,727.0	4,725.5	14.7	4.1	-114.04	640.9	-838.4	1,135.3	1,117.3	17.96	63.209		
4,900.0	4,843.7	4,824.0	4,822.3	15.0	4.2	-114.56	645.3	-839.8	1,143.7	1,125.3	18.33	62.408		
5,000.0	4,942.3	4,923.3	4,921.5	15.4	4.3	-115.12	649.0	-841.2	1,152.2	1,133.5	18.69	61.658		

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 31-34 (EXISTING) - ENCANA WELL - GYROS												Offset Site Error:	0.0 ft
Survey Program: 100-Gyro												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)			
5,100.0	5,040.9	5,020.0	5,018.2	15.7	4.4	-115.67	652.6	-842.7	1,160.9	1,141.9	19.04	60.957	
5,200.0	5,139.5	5,113.9	5,112.0	16.1	4.5	-116.21	655.6	-844.4	1,170.1	1,150.7	19.40	60.320	
5,300.0	5,238.1	5,205.6	5,203.6	16.4	4.5	-116.75	658.1	-846.5	1,179.9	1,160.1	19.75	59.754	
5,400.0	5,336.7	5,302.1	5,300.1	16.7	4.6	-117.34	660.2	-849.2	1,190.2	1,170.1	20.09	59.239	
5,500.0	5,435.3	5,400.8	5,398.7	17.1	4.7	-117.94	662.3	-852.0	1,200.7	1,180.3	20.43	58.758	
5,600.0	5,534.0	5,503.7	5,501.5	17.4	4.8	-118.58	663.8	-854.7	1,211.2	1,190.4	20.77	58.303	
5,700.0	5,632.6	5,607.2	5,605.0	17.7	4.9	-119.23	665.0	-856.9	1,221.4	1,200.3	21.11	57.861	
5,800.0	5,731.2	5,706.0	5,703.8	18.1	5.0	-119.82	666.5	-859.0	1,231.6	1,210.2	21.44	57.435	
5,900.0	5,829.8	5,806.9	5,804.6	18.4	5.1	-120.43	667.7	-860.9	1,241.8	1,220.1	21.77	57.033	
6,000.0	5,928.4	5,900.0	5,897.7	18.8	5.1	-121.01	668.3	-862.7	1,252.4	1,230.3	22.10	56.676	
6,100.0	6,027.0	6,015.1	6,012.9	19.1	5.2	-121.73	668.7	-864.4	1,262.5	1,240.1	22.42	56.313	
6,200.0	6,125.6	6,114.0	6,111.7	19.4	5.3	-122.33	669.4	-865.3	1,272.2	1,249.4	22.74	55.948	
6,300.0	6,224.3	6,208.0	6,205.7	19.8	5.4	-122.89	669.9	-866.3	1,282.2	1,259.1	23.05	55.618	
6,400.0	6,322.9	6,309.2	6,306.9	20.1	5.5	-123.50	670.1	-867.4	1,292.4	1,269.0	23.36	55.313	
6,500.0	6,421.5	6,411.9	6,409.6	20.5	5.6	-124.13	670.1	-868.1	1,302.4	1,278.8	23.67	55.020	
6,600.0	6,520.1	6,505.4	6,503.1	20.8	5.7	-124.70	669.8	-868.8	1,312.7	1,288.7	23.97	54.755	
6,700.0	6,618.7	6,604.4	6,602.1	21.1	5.8	-125.31	669.1	-869.7	1,323.3	1,299.0	24.27	54.518	
6,800.0	6,717.3	6,706.4	6,704.1	21.5	5.8	-125.94	668.3	-870.4	1,333.9	1,309.3	24.57	54.294	
6,900.0	6,815.9	6,810.7	6,808.4	21.8	5.9	-126.58	667.1	-870.7	1,344.3	1,319.4	24.86	54.079	
7,000.0	6,914.6	6,916.3	6,913.9	22.1	6.0	-117.05	665.6	-870.3	1,353.9	1,328.8	25.13	53.881	
7,100.0	7,013.6	7,010.2	7,007.9	22.3	6.1	-50.77	664.1	-869.9	1,352.0	1,326.9	25.08	53.908	
7,200.0	7,110.8	7,110.5	7,108.1	22.4	6.2	-25.19	662.5	-869.6	1,333.0	1,308.4	24.60	54.175	
7,300.0	7,203.3	7,207.9	7,205.6	22.3	6.3	-17.05	661.0	-868.9	1,297.0	1,273.3	23.73	54.668	
7,400.0	7,288.3	7,292.1	7,289.7	22.1	6.4	-13.73	659.6	-868.2	1,245.4	1,222.9	22.48	55.391	
7,500.0	7,363.1	7,370.7	7,368.3	21.8	6.4	-12.56	658.6	-867.4	1,179.8	1,158.8	20.96	56.294	
7,600.0	7,425.5	7,432.7	7,430.3	21.5	6.5	-12.77	658.1	-866.7	1,102.0	1,082.7	19.28	57.158	
7,700.0	7,473.6	7,478.4	7,476.0	21.2	6.5	-14.67	657.7	-866.3	1,014.7	997.0	17.70	57.324	
7,800.0	7,506.0	7,508.6	7,506.2	21.0	6.5	-20.52	657.4	-866.0	920.4	903.6	16.79	54.821	
7,900.0	7,521.6	7,522.6	7,520.2	20.9	6.6	-48.00	657.3	-865.9	822.1	802.9	19.20	42.824	
8,000.0	7,523.0	7,523.6	7,521.2	21.0	6.6	-92.32	657.3	-865.9	722.3	699.5	22.81	31.668	
8,100.0	7,523.0	7,523.2	7,520.8	21.4	6.6	-91.94	657.3	-865.9	622.7	598.7	23.96	25.989	
8,200.0	7,523.0	7,522.9	7,520.5	22.1	6.6	-91.55	657.3	-865.9	523.1	497.7	25.36	20.631	
8,300.0	7,523.0	7,522.5	7,520.1	23.3	6.6	-91.16	657.3	-865.9	423.8	396.8	26.95	15.724	
8,400.0	7,523.0	7,522.1	7,519.7	24.7	6.6	-90.76	657.3	-865.9	324.8	296.1	28.70	11.318	
8,500.0	7,523.0	7,521.7	7,519.3	26.3	6.6	-90.35	657.3	-865.9	226.8	196.2	30.57	7.419	
8,600.0	7,523.0	7,521.3	7,518.9	28.1	6.6	-89.93	657.3	-866.0	131.8	99.3	32.53	4.051	
8,700.0	7,523.0	7,520.9	7,518.5	30.1	6.6	-89.51	657.3	-866.0	57.5	22.9	34.57	1.662	
8,720.3	7,523.0	7,520.9	7,518.5	30.5	6.6	-89.42	657.3	-866.0	53.7	18.7	35.00	1.536 CC, ES, SF	
8,800.0	7,523.0	7,520.5	7,518.1	32.0	6.5	-89.08	657.3	-866.0	96.1	59.4	36.67	2.621	
8,900.0	7,523.0	7,520.1	7,517.7	34.1	6.5	-88.63	657.3	-866.0	187.5	148.7	38.81	4.832	
9,000.0	7,523.0	7,519.7	7,517.3	36.2	6.5	-88.18	657.3	-866.0	284.8	243.8	40.99	6.948	
9,100.0	7,523.0	7,519.3	7,516.9	38.3	6.5	-87.73	657.3	-866.0	383.4	340.2	43.20	8.877	
9,200.0	7,523.0	7,518.8	7,516.4	40.5	6.5	-87.26	657.3	-866.0	482.7	437.2	45.43	10.625	
9,300.0	7,523.0	7,518.4	7,516.0	42.7	6.5	-86.78	657.3	-866.0	582.1	534.5	47.68	12.210	
9,400.0	7,523.0	7,517.9	7,515.5	44.9	6.5	-86.30	657.3	-866.0	681.8	631.8	49.94	13.652	
9,500.0	7,523.0	7,517.5	7,515.1	47.2	6.5	-85.80	657.3	-866.0	781.5	729.3	52.21	14.968	
9,600.0	7,523.0	7,517.0	7,514.6	49.4	6.5	-85.29	657.3	-866.0	881.3	826.8	54.49	16.174	
9,700.0	7,523.0	7,516.5	7,514.1	51.7	6.5	-84.78	657.4	-866.0	981.1	924.3	56.77	17.281	
9,800.0	7,523.0	7,516.0	7,513.6	54.0	6.5	-84.25	657.4	-866.0	1,081.0	1,021.9	59.06	18.303	
9,900.0	7,523.0	7,515.5	7,513.1	56.3	6.5	-83.72	657.4	-866.0	1,180.9	1,119.5	61.34	19.250	
10,000.0	7,523.0	7,515.0	7,512.6	58.6	6.5	-83.17	657.4	-866.0	1,280.8	1,217.1	63.63	20.129	
10,100.0	7,523.0	7,514.4	7,512.0	60.9	6.5	-82.61	657.4	-866.0	1,380.7	1,314.8	65.91	20.950	

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 31-34 (EXISTING) MRP - MACHII-ROSS WELL - NO SU										Offset Site Error:		0.0 ft	
Survey Program: 4861-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	-50.60	753.3	-917.3	1,188.1				
100.0	100.0	48.0	48.0	0.1	0.1	-50.60	753.3	-917.3	1,187.0	1,186.8	0.21	5,524.092	
200.0	200.0	148.0	148.0	0.3	0.3	-50.60	753.3	-917.3	1,187.0	1,186.4	0.56	2,104.819	
300.0	300.0	248.0	248.0	0.5	0.4	-76.32	753.3	-917.3	1,186.8	1,185.9	0.91	1,298.590	
400.0	400.0	348.0	348.0	0.7	0.6	-76.45	753.3	-917.3	1,186.2	1,184.9	1.27	935.481	
500.0	499.9	447.9	447.9	0.8	0.8	-76.67	753.3	-917.3	1,185.1	1,183.5	1.63	727.225	
600.0	599.7	547.7	547.7	1.0	1.0	-76.97	753.3	-917.3	1,183.7	1,181.7	2.00	591.153	
700.0	699.4	647.4	647.4	1.3	1.1	-77.36	753.3	-917.3	1,182.0	1,179.6	2.39	494.679	
800.0	798.9	746.9	746.9	1.5	1.3	-77.83	753.3	-917.3	1,179.9	1,177.1	2.79	422.382	
900.0	898.3	846.3	846.3	1.7	1.5	-78.39	753.3	-917.3	1,177.6	1,174.4	3.22	366.022	
1,000.0	997.4	945.4	945.4	2.0	1.7	-79.03	753.3	-917.3	1,175.0	1,171.3	3.66	320.792	
1,100.0	1,096.3	1,044.3	1,044.3	2.3	1.8	-79.76	753.3	-917.3	1,172.3	1,168.1	4.13	283.693	
1,200.0	1,195.0	1,143.0	1,143.0	2.6	2.0	-80.55	753.3	-917.3	1,169.4	1,164.8	4.62	253.211	
1,300.0	1,293.6	1,241.6	1,241.6	3.0	2.2	-81.34	753.3	-917.3	1,166.8	1,161.7	5.11	228.303	
1,400.0	1,392.2	1,340.2	1,340.2	3.3	2.3	-82.14	753.3	-917.3	1,164.4	1,158.8	5.61	207.650	
1,500.0	1,490.8	1,438.8	1,438.8	3.6	2.5	-82.94	753.3	-917.3	1,162.2	1,156.1	6.11	190.292	
1,600.0	1,589.4	1,537.4	1,537.4	3.9	2.7	-83.74	753.3	-917.3	1,160.2	1,153.6	6.61	175.531	
1,700.0	1,688.0	1,636.0	1,636.0	4.3	2.9	-84.55	753.3	-917.3	1,158.5	1,151.4	7.11	162.844	
1,800.0	1,786.6	1,734.6	1,734.6	4.6	3.0	-85.35	753.3	-917.3	1,157.0	1,149.4	7.62	151.840	
1,900.0	1,885.3	1,833.3	1,833.3	4.9	3.2	-86.16	753.3	-917.3	1,155.8	1,147.7	8.13	142.217	
2,000.0	1,983.9	1,931.9	1,931.9	5.3	3.4	-86.97	753.3	-917.3	1,154.8	1,146.1	8.63	133.740	
2,100.0	2,082.5	2,030.5	2,030.5	5.6	3.5	-87.78	753.3	-917.3	1,154.0	1,144.9	9.14	126.225	
2,200.0	2,181.1	2,129.1	2,129.1	5.9	3.7	-88.60	753.3	-917.3	1,153.5	1,143.8	9.65	119.524	
2,300.0	2,279.7	2,227.7	2,227.7	6.3	3.9	-89.41	753.3	-917.3	1,153.2	1,143.0	10.16	113.518	
2,372.8	2,351.5	2,299.5	2,299.5	6.5	4.0	-90.00	753.3	-917.3	1,153.1	1,142.6	10.53	109.525 CC	
2,400.0	2,378.3	2,326.3	2,326.3	6.6	4.1	-90.22	753.3	-917.3	1,153.1	1,142.5	10.67	108.109	
2,500.0	2,476.9	2,424.9	2,424.9	6.9	4.2	-91.03	753.3	-917.3	1,153.3	1,142.1	11.17	103.218	
2,600.0	2,575.6	2,523.6	2,523.6	7.3	4.4	-91.85	753.3	-917.3	1,153.7	1,142.1	11.68	98.779 ES	
2,700.0	2,674.2	2,622.2	2,622.2	7.6	4.6	-92.66	753.3	-917.3	1,154.4	1,142.2	12.19	94.735	
2,800.0	2,772.8	2,720.8	2,720.8	8.0	4.7	-93.47	753.3	-917.3	1,155.3	1,142.6	12.69	91.039	
2,900.0	2,871.4	2,819.4	2,819.4	8.3	4.9	-94.28	753.3	-917.3	1,156.4	1,143.2	13.19	87.653	
3,000.0	2,970.0	2,918.0	2,918.0	8.6	5.1	-95.09	753.3	-917.3	1,157.8	1,144.1	13.70	84.541	
3,100.0	3,068.6	3,016.6	3,016.6	9.0	5.3	-95.89	753.3	-917.3	1,159.4	1,145.2	14.20	81.675	
3,200.0	3,167.2	3,115.2	3,115.2	9.3	5.4	-96.70	753.3	-917.3	1,161.3	1,146.6	14.69	79.029	
3,300.0	3,265.8	3,213.8	3,213.8	9.6	5.6	-97.50	753.3	-917.3	1,163.3	1,148.2	15.19	76.582	
3,400.0	3,364.5	3,312.5	3,312.5	10.0	5.8	-98.29	753.3	-917.3	1,165.7	1,150.0	15.69	74.314	
3,500.0	3,463.1	3,411.1	3,411.1	10.3	6.0	-99.09	753.3	-917.3	1,168.2	1,152.0	16.18	72.208	
3,600.0	3,561.7	3,509.7	3,509.7	10.6	6.1	-99.88	753.3	-917.3	1,171.0	1,154.3	16.67	70.250	
3,700.0	3,660.3	3,608.3	3,608.3	11.0	6.3	-100.67	753.3	-917.3	1,174.0	1,156.8	17.16	68.426	
3,800.0	3,758.9	3,706.9	3,706.9	11.3	6.5	-101.45	753.3	-917.3	1,177.2	1,159.5	17.64	66.725	
3,900.0	3,857.5	3,805.5	3,805.5	11.7	6.6	-102.23	753.3	-917.3	1,180.6	1,162.5	18.13	65.137	
4,000.0	3,956.1	3,904.1	3,904.1	12.0	6.8	-103.00	753.3	-917.3	1,184.3	1,165.7	18.61	63.652	
4,100.0	4,054.8	4,002.8	4,002.8	12.3	7.0	-103.77	753.3	-917.3	1,188.2	1,169.1	19.08	62.262	
4,200.0	4,153.4	4,101.4	4,101.4	12.7	7.2	-104.54	753.3	-917.3	1,192.3	1,172.8	19.56	60.960	
4,300.0	4,252.0	4,200.0	4,200.0	13.0	7.3	-105.30	753.3	-917.3	1,196.6	1,176.6	20.03	59.739	
4,400.0	4,350.6	4,298.6	4,298.6	13.4	7.5	-106.05	753.3	-917.3	1,201.2	1,180.7	20.50	58.593	
4,500.0	4,449.2	4,397.2	4,397.2	13.7	7.7	-106.80	753.3	-917.3	1,205.9	1,185.0	20.97	57.516	
4,600.0	4,547.8	4,495.8	4,495.8	14.0	7.8	-107.54	753.3	-917.3	1,210.9	1,189.5	21.43	56.504	
4,700.0	4,646.4	4,594.4	4,594.4	14.4	8.0	-108.28	753.3	-917.3	1,216.1	1,194.2	21.89	55.552	
4,800.0	4,745.0	4,693.0	4,693.0	14.7	8.2	-109.01	753.3	-917.3	1,221.4	1,199.1	22.35	54.656	
4,900.0	4,843.7	4,791.7	4,791.7	15.0	8.4	-109.73	753.3	-917.3	1,227.0	1,204.2	22.80	53.812	
5,000.0	4,942.3	4,861.0	4,861.0	15.4	8.5	-110.23	753.3	-917.3	1,233.1	1,209.9	23.22	53.117	

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 31-34 (EXISTING) MRP - MACHII-ROSS WELL - NO SU												Offset Site Error:	0.0 ft
Survey Program: 4861-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,040.9	4,861.0	4,861.0	15.7	8.5	-110.23	753.3	-917.3	1,245.3	1,221.8	23.54	52.907 SF	
5,200.0	5,139.5	4,861.0	4,861.0	16.1	8.5	-110.23	753.3	-917.3	1,265.3	1,241.5	23.86	53.029	
5,300.0	5,238.1	4,861.0	4,861.0	16.4	8.5	-110.23	753.3	-917.3	1,292.8	1,268.6	24.18	53.456	
5,400.0	5,336.7	4,861.0	4,861.0	16.7	8.5	-110.23	753.3	-917.3	1,327.2	1,302.7	24.51	54.157	
5,500.0	5,435.3	4,861.0	4,861.0	17.1	8.5	-110.23	753.3	-917.3	1,368.1	1,343.3	24.83	55.099	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 41-34 (EXISTING) - ENCANA WELL - GYRO														Offset Site Error:	0.0 ft
Survey Program: 200-Gyro														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	29.78	775.9	444.0	894.0						
100.0	100.0	86.0	86.0	0.1	0.0	29.78	775.9	444.0	893.9	893.8	0.13	6,820.197			
200.0	200.0	191.7	191.7	0.3	0.1	29.81	775.4	444.3	893.7	893.3	0.39	2,315.830			
300.0	300.0	287.3	287.2	0.5	0.2	4.26	774.0	445.8	892.3	891.7	0.65	1,379.361			
400.0	400.0	390.2	390.1	0.7	0.3	4.49	772.2	448.4	889.5	888.6	0.92	971.173			
500.0	499.9	493.5	493.3	0.8	0.4	4.73	769.9	451.0	884.5	883.3	1.18	746.657			
600.0	599.7	593.8	593.6	1.0	0.4	4.96	767.7	453.0	877.5	876.1	1.45	605.212			
700.0	699.4	700.0	699.8	1.3	0.5	5.17	765.2	454.2	868.3	866.6	1.72	505.318			
800.0	798.9	793.2	793.0	1.5	0.6	5.35	763.2	455.0	857.3	855.4	1.98	433.767			
900.0	898.3	894.0	893.7	1.7	0.7	5.54	761.5	455.9	845.1	842.8	2.24	377.433			
1,000.0	997.4	998.9	998.6	2.0	0.8	5.72	759.6	456.0	830.6	828.1	2.51	331.319			
1,100.0	1,096.3	1,092.9	1,092.6	2.3	0.9	5.93	757.8	456.3	814.4	811.6	2.77	294.495			
1,200.0	1,195.0	1,191.6	1,191.3	2.6	1.0	6.15	756.0	456.7	796.9	793.9	3.03	263.018			
1,300.0	1,293.6	1,292.0	1,291.7	3.0	1.1	6.40	754.0	457.3	779.0	775.7	3.30	236.248			
1,400.0	1,392.2	1,389.3	1,389.0	3.3	1.2	6.66	751.9	457.9	761.1	757.5	3.56	213.607			
1,500.0	1,490.8	1,485.6	1,485.2	3.6	1.2	6.94	750.0	458.6	743.3	739.5	3.83	194.178			
1,600.0	1,589.4	1,585.5	1,585.1	3.9	1.3	7.23	748.1	459.3	725.7	721.6	4.10	177.137			
1,700.0	1,688.0	1,680.7	1,680.3	4.3	1.4	7.50	746.5	459.8	708.1	703.7	4.36	162.346			
1,800.0	1,786.6	1,782.3	1,781.9	4.6	1.5	7.80	744.8	460.5	690.6	686.0	4.63	149.066			
1,900.0	1,885.3	1,879.0	1,878.6	4.9	1.6	8.11	743.0	460.9	672.9	668.0	4.90	137.308			
2,000.0	1,983.9	1,979.0	1,978.6	5.3	1.7	8.43	741.4	461.4	655.4	650.2	5.17	126.705			
2,100.0	2,082.5	2,076.7	2,076.2	5.6	1.8	8.75	739.7	461.6	637.6	632.2	5.44	117.168			
2,200.0	2,181.1	2,172.1	2,171.6	5.9	1.8	9.05	738.4	461.7	620.2	614.5	5.71	108.619			
2,300.0	2,279.7	2,271.6	2,271.1	6.3	1.9	9.37	737.5	461.8	603.2	597.2	5.98	100.819			
2,400.0	2,378.3	2,366.8	2,366.3	6.6	2.0	9.61	736.9	461.4	586.1	579.8	6.25	93.769			
2,500.0	2,476.9	2,462.5	2,462.0	6.9	2.1	9.80	737.4	460.7	569.7	563.2	6.52	87.422			
2,600.0	2,575.6	2,558.6	2,558.1	7.3	2.2	9.95	738.4	459.8	553.7	546.9	6.78	81.631			
2,700.0	2,674.2	2,653.8	2,653.3	7.6	2.3	10.05	740.2	458.9	538.3	531.2	7.05	76.377			
2,800.0	2,772.8	2,750.5	2,749.9	8.0	2.3	10.13	742.6	458.1	523.5	516.1	7.31	71.575			
2,900.0	2,871.4	2,850.9	2,850.3	8.3	2.4	10.25	745.1	457.5	508.7	501.2	7.58	67.077			
3,000.0	2,970.0	2,949.7	2,949.1	8.6	2.5	10.43	746.9	457.1	493.6	485.8	7.86	62.828			
3,100.0	3,068.6	3,046.1	3,045.5	9.0	2.6	10.60	749.1	456.8	479.0	470.8	8.13	58.934			
3,200.0	3,167.2	3,144.5	3,143.8	9.3	2.7	10.80	751.5	457.0	464.7	456.3	8.40	55.308			
3,300.0	3,265.8	3,243.5	3,242.8	9.6	2.8	11.08	753.6	457.4	450.3	441.6	8.68	51.883			
3,400.0	3,364.5	3,341.8	3,341.1	10.0	2.8	11.44	755.5	458.3	436.1	427.2	8.96	48.664			
3,500.0	3,463.1	3,439.9	3,439.2	10.3	2.9	11.86	757.3	459.4	422.0	412.8	9.25	45.639			
3,600.0	3,561.7	3,538.4	3,537.6	10.6	3.0	12.33	759.3	460.9	408.3	398.7	9.54	42.807			
3,700.0	3,660.3	3,638.0	3,637.2	11.0	3.1	12.85	761.2	462.3	394.4	384.6	9.83	40.112			
3,800.0	3,758.9	3,736.5	3,735.6	11.3	3.2	13.29	763.4	463.2	380.5	370.4	10.12	37.583			
3,900.0	3,857.5	3,834.8	3,834.0	11.7	3.3	13.79	765.8	464.3	366.9	356.5	10.42	35.206			
4,000.0	3,956.1	3,934.6	3,933.7	12.0	3.4	14.38	767.9	465.6	353.3	342.6	10.73	32.930			
4,100.0	4,054.8	4,034.1	4,033.2	12.3	3.4	15.11	769.5	467.2	339.5	328.4	11.05	30.730			
4,200.0	4,153.4	4,133.3	4,132.3	12.7	3.5	15.94	771.0	469.0	325.7	314.3	11.38	28.631			
4,300.0	4,252.0	4,233.1	4,232.1	13.0	3.6	16.71	772.7	470.0	311.7	300.0	11.71	26.632			
4,400.0	4,350.6	4,332.3	4,331.3	13.4	3.7	17.36	775.0	470.2	297.7	285.6	12.03	24.742			
4,500.0	4,449.2	4,431.0	4,430.0	13.7	3.8	17.95	777.7	469.9	283.6	271.2	12.36	22.953			
4,600.0	4,547.8	4,529.6	4,528.5	14.0	3.9	18.55	780.6	469.6	269.7	257.1	12.68	21.267			
4,700.0	4,646.4	4,628.3	4,627.2	14.4	4.0	19.17	783.7	469.2	255.9	242.9	13.02	19.656			
4,800.0	4,745.0	4,725.4	4,724.2	14.7	4.0	19.88	787.0	469.2	242.7	229.3	13.36	18.160			
4,900.0	4,843.7	4,823.2	4,822.0	15.0	4.1	20.64	791.0	469.6	230.2	216.5	13.72	16.779			
5,000.0	4,942.3	4,922.0	4,920.7	15.4	4.2	21.39	795.5	470.1	218.1	204.0	14.08	15.491			
5,100.0	5,040.9	5,021.8	5,020.4	15.7	4.3	22.13	800.3	470.2	206.0	191.5	14.44	14.260			

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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 41-34 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 200-Gyro													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	5,139.5	5,121.8	5,120.2	16.1	4.4	22.88	805.0	469.9	193.6	178.7	14.82	13.063		
5,300.0	5,238.1	5,221.9	5,220.3	16.4	4.5	23.78	809.4	469.3	180.7	165.5	15.21	11.879		
5,400.0	5,336.7	5,321.7	5,320.0	16.7	4.6	25.01	813.0	468.7	167.4	151.7	15.65	10.696		
5,500.0	5,435.3	5,420.9	5,419.0	17.1	4.7	26.58	816.2	468.1	154.0	137.8	16.14	9.539		
5,600.0	5,534.0	5,520.0	5,518.2	17.4	4.8	28.62	819.0	467.8	140.6	123.9	16.70	8.421		
5,700.0	5,632.6	5,620.0	5,618.1	17.7	4.8	31.17	821.4	467.1	127.0	109.7	17.35	7.321		
5,800.0	5,731.2	5,719.4	5,717.5	18.1	4.9	34.34	823.4	465.9	113.1	95.0	18.10	6.245		
5,900.0	5,829.8	5,818.4	5,816.4	18.4	5.0	38.52	825.0	464.5	99.1	80.1	19.02	5.210		
6,000.0	5,928.4	5,916.8	5,914.9	18.8	5.1	43.95	826.7	463.2	86.0	65.9	20.14	4.271		
6,100.0	6,027.0	6,015.8	6,013.9	19.1	5.2	51.20	828.5	461.8	73.9	52.4	21.50	3.437		
6,200.0	6,125.6	6,114.6	6,112.6	19.4	5.3	61.25	830.0	460.2	63.1	40.0	23.09	2.734		
6,300.0	6,224.3	6,213.1	6,211.0	19.8	5.4	75.17	830.9	458.7	55.3	30.6	24.68	2.239		
6,400.0	6,322.9	6,311.4	6,309.4	20.1	5.4	92.28	831.6	457.6	52.1	26.6	25.55	2.040		
6,406.7	6,329.5	6,318.0	6,316.0	20.1	5.4	93.48	831.6	457.5	52.1	26.5	25.56	2.038 CC, ES, SF		
6,500.0	6,421.5	6,409.7	6,407.7	20.5	5.5	109.78	831.8	456.9	54.6	29.5	25.15	2.173		
6,600.0	6,520.1	6,508.4	6,506.3	20.8	5.6	124.58	831.9	456.4	62.0	38.1	23.93	2.591		
6,700.0	6,618.7	6,607.1	6,605.1	21.1	5.7	135.77	832.1	455.7	72.4	49.7	22.65	3.196		
6,800.0	6,717.3	6,705.6	6,703.6	21.5	5.8	144.09	832.3	454.8	84.7	63.1	21.62	3.919		
6,900.0	6,815.9	6,803.5	6,801.4	21.8	5.9	150.10	832.1	454.1	98.9	77.9	20.93	4.722		
7,000.0	6,914.6	6,901.9	6,899.9	22.1	6.0	164.98	831.6	453.4	114.1	93.6	20.47	5.572		
7,100.0	7,013.6	7,001.0	6,998.9	22.3	6.0	-128.74	831.0	452.7	126.9	106.1	20.74	6.117		
7,200.0	7,110.8	7,097.5	7,095.5	22.4	6.1	-109.95	830.2	452.4	137.7	115.7	21.95	6.272		
7,300.0	7,203.3	7,191.0	7,188.9	22.3	6.2	-112.44	829.3	451.5	152.6	129.2	23.42	6.516		
7,400.0	7,288.3	7,275.2	7,273.1	22.1	6.3	-119.65	828.5	450.9	179.3	155.2	24.08	7.445		
7,500.0	7,363.1	7,350.4	7,348.3	21.8	6.3	-126.08	827.9	450.9	223.5	199.9	23.65	9.451		
7,600.0	7,425.5	7,413.5	7,411.4	21.5	6.4	-129.07	827.9	451.0	284.6	262.0	22.52	12.635		
7,700.0	7,473.6	7,460.2	7,458.2	21.2	6.4	-127.03	828.1	451.2	359.7	338.3	21.42	16.794		
7,800.0	7,506.0	7,491.0	7,488.9	21.0	6.5	-118.24	828.2	451.4	445.1	424.0	21.13	21.065		
7,900.0	7,521.6	7,505.3	7,503.2	20.9	6.5	-99.35	828.3	451.5	536.7	514.9	21.88	24.533		
8,000.0	7,523.0	7,505.7	7,503.7	21.0	6.5	-88.41	828.3	451.5	631.1	608.4	22.67	27.843		
8,100.0	7,523.0	7,504.8	7,502.7	21.4	6.5	-88.13	828.3	451.5	727.0	703.1	23.82	30.523		
8,200.0	7,523.0	7,503.8	7,501.8	22.1	6.5	-87.85	828.3	451.5	823.8	798.6	25.21	32.672		
8,300.0	7,523.0	7,502.9	7,500.8	23.3	6.5	-87.57	828.3	451.5	921.3	894.5	26.81	34.367		
8,400.0	7,523.0	7,502.0	7,499.9	24.7	6.5	-87.29	828.2	451.5	1,019.3	990.7	28.56	35.696		
8,500.0	7,523.0	7,500.0	7,497.9	26.3	6.5	-86.71	828.2	451.5	1,117.7	1,087.2	30.41	36.750		
8,600.0	7,523.0	7,500.0	7,497.9	28.1	6.5	-86.71	828.2	451.5	1,216.3	1,183.9	32.38	37.563		
8,700.0	7,523.0	7,500.0	7,497.9	30.1	6.5	-86.71	828.2	451.5	1,315.1	1,280.7	34.42	38.206		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 6-4-34 (EXISTING) - ENCANA WELL - SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 1089-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	-109.67	-179.2	-501.3	533.0						
100.0	100.0	75.0	75.0	0.1	0.1	-109.68	-179.3	-501.3	532.4	532.2	0.26	2,016.465 CC			
200.0	200.0	174.7	174.7	0.3	0.3	-109.72	-179.7	-501.3	532.5	531.9	0.62	865.349 ES			
300.0	300.0	274.3	274.3	0.5	0.5	-135.52	-180.3	-501.2	533.3	532.3	0.97	547.032			
400.0	400.0	373.8	373.8	0.7	0.7	-135.80	-181.2	-501.1	535.4	534.0	1.33	402.154			
500.0	499.9	473.3	473.3	0.8	0.9	-136.22	-182.4	-501.0	538.8	537.1	1.69	318.621			
600.0	599.7	572.6	572.6	1.0	1.0	-136.79	-183.9	-500.8	543.6	541.6	2.06	264.462			
700.0	699.4	671.8	671.7	1.3	1.2	-137.48	-185.7	-500.6	549.9	547.5	2.43	226.677			
800.0	798.9	770.7	770.6	1.5	1.4	-138.29	-187.8	-500.4	557.6	554.8	2.80	198.986			
900.0	898.3	869.3	869.2	1.7	1.6	-139.21	-190.1	-500.2	566.8	563.7	3.18	177.984			
1,000.0	997.4	967.6	967.5	2.0	1.7	-140.22	-192.7	-499.9	577.7	574.1	3.57	161.667			
1,100.0	1,096.3	1,065.5	1,065.4	2.3	1.9	-141.32	-195.5	-499.6	590.2	586.2	3.97	148.773			
1,200.0	1,195.0	1,162.7	1,162.5	2.6	2.1	-142.48	-198.5	-499.4	604.2	599.9	4.36	138.532			
1,300.0	1,293.6	1,261.7	1,261.4	3.0	2.3	-143.64	-201.2	-499.4	618.8	614.1	4.76	130.064			
1,400.0	1,392.2	1,357.7	1,357.4	3.3	2.5	-144.79	-204.5	-499.1	633.7	628.5	5.15	122.936			
1,500.0	1,490.8	1,450.1	1,449.6	3.6	2.7	-146.11	-210.6	-497.7	649.4	643.9	5.56	116.859			
1,600.0	1,589.4	1,549.8	1,548.6	3.9	2.9	-147.84	-221.0	-494.2	665.9	660.0	5.98	111.274			
1,700.0	1,688.0	1,627.3	1,625.3	4.3	3.1	-149.34	-231.6	-490.7	683.9	677.6	6.38	107.220			
1,800.0	1,786.6	1,704.1	1,701.0	4.6	3.4	-150.93	-245.0	-487.9	705.5	698.7	6.78	104.062			
1,900.0	1,885.3	1,783.0	1,778.0	4.9	3.6	-152.65	-261.5	-485.2	730.0	722.8	7.20	101.439			
2,000.0	1,983.9	1,874.7	1,866.7	5.3	4.0	-154.79	-284.2	-481.1	757.1	749.4	7.66	98.885			
2,100.0	2,082.5	1,989.6	1,978.0	5.6	4.5	-157.38	-311.8	-473.0	782.8	774.6	8.17	95.788			
2,200.0	2,181.1	2,088.0	2,073.5	5.9	4.9	-159.40	-334.0	-465.5	808.2	799.6	8.64	93.574			
2,300.0	2,279.7	2,178.9	2,162.0	6.3	5.2	-161.15	-354.2	-458.5	834.3	825.2	9.08	91.857			
2,400.0	2,378.3	2,268.2	2,248.6	6.6	5.6	-162.78	-374.5	-451.9	861.6	852.0	9.51	90.600			
2,500.0	2,476.9	2,357.9	2,336.0	6.9	6.0	-164.25	-394.2	-446.3	889.8	879.9	9.93	89.608			
2,600.0	2,575.6	2,446.1	2,421.7	7.3	6.3	-165.59	-413.9	-441.2	919.1	908.8	10.34	88.890			
2,700.0	2,674.2	2,534.2	2,507.5	7.6	6.7	-166.84	-433.7	-436.7	949.3	938.6	10.75	88.348			
2,800.0	2,772.8	2,622.8	2,593.5	8.0	7.1	-168.04	-454.2	-432.3	980.6	969.5	11.15	87.936			
2,900.0	2,871.4	2,725.2	2,693.1	8.3	7.5	-169.34	-477.6	-427.0	1,012.1	1,000.5	11.58	87.377			
3,000.0	2,970.0	2,825.3	2,790.7	8.6	7.9	-170.51	-499.3	-421.6	1,042.8	1,030.8	12.01	86.863			
3,100.0	3,068.6	2,910.4	2,873.6	9.0	8.3	-171.45	-517.9	-417.0	1,074.1	1,061.7	12.39	86.677			
3,200.0	3,167.2	2,992.8	2,953.7	9.3	8.6	-172.34	-536.8	-412.6	1,106.5	1,093.8	12.77	86.623			
3,300.0	3,265.8	3,071.0	3,029.5	9.6	9.0	-173.16	-555.7	-408.6	1,140.3	1,127.2	13.15	86.744			
3,400.0	3,364.5	3,174.6	3,129.9	10.0	9.5	-174.18	-580.7	-403.5	1,174.5	1,160.9	13.57	86.543			
3,500.0	3,463.1	3,274.5	3,226.8	10.3	9.9	-175.11	-604.1	-398.1	1,208.1	1,194.1	13.99	86.346			
3,600.0	3,561.7	3,358.8	3,308.6	10.6	10.3	-175.84	-623.9	-393.8	1,242.1	1,227.8	14.36	86.472			
3,700.0	3,660.3	3,476.9	3,423.6	11.0	10.8	-176.81	-650.7	-387.3	1,275.5	1,260.7	14.82	86.056			
3,800.0	3,758.9	3,571.0	3,515.2	11.3	11.2	-177.52	-671.1	-381.9	1,308.2	1,293.0	15.22	85.969			
3,900.0	3,857.5	3,655.6	3,597.6	11.7	11.5	-178.13	-689.8	-377.3	1,341.5	1,325.9	15.59	86.038			
4,000.0	3,956.1	3,750.4	3,689.8	12.0	12.0	-178.81	-711.0	-371.7	1,375.0	1,359.0	16.00	85.935 SF			
4,100.0	4,054.8	3,830.4	3,767.3	12.3	12.3	-179.42	-729.9	-365.9	1,409.3	1,392.9	16.38	86.013			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - RANCHERO 32-34 (EXISTING) - ENCANA WELL - GYROS											Offset Site Error: 0.0 ft		
Survey Program: 200-Gyro				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	-119.28	-487.8	-869.8	997.3				
100.0	100.0	86.0	86.0	0.1	0.0	-119.28	-487.8	-869.8	997.2	997.1	0.13	7,608.018 CC	
200.0	200.0	181.8	181.8	0.3	0.1	-119.28	-487.7	-870.0	997.4	997.0	0.38	2,645.506 ES	
300.0	300.0	281.8	281.8	0.5	0.2	-144.94	-487.5	-870.6	998.6	997.9	0.64	1,562.180	
400.0	400.0	383.5	383.5	0.7	0.2	-144.97	-486.9	-871.3	1,001.0	1,000.1	0.90	1,106.650	
500.0	499.9	483.3	483.2	0.8	0.3	-145.03	-486.1	-872.1	1,004.8	1,003.7	1.17	858.062	
600.0	599.7	574.9	574.9	1.0	0.4	-145.12	-485.5	-873.1	1,010.5	1,009.0	1.43	704.421	
700.0	699.4	670.9	670.9	1.3	0.5	-145.26	-485.2	-874.7	1,018.2	1,016.5	1.71	596.645	
800.0	798.9	769.0	769.0	1.5	0.6	-145.45	-485.0	-876.5	1,027.6	1,025.6	1.99	517.278	
900.0	898.3	872.7	872.6	1.7	0.7	-145.68	-484.6	-878.4	1,038.4	1,036.1	2.28	455.734	
1,000.0	997.4	973.7	973.6	2.0	0.8	-145.94	-483.7	-880.1	1,050.2	1,047.6	2.58	407.777	
1,100.0	1,096.3	1,072.2	1,072.1	2.3	0.9	-146.26	-483.4	-881.4	1,063.4	1,060.5	2.88	369.635	
1,200.0	1,195.0	1,170.3	1,170.2	2.6	0.9	-146.67	-483.5	-882.4	1,078.1	1,074.9	3.18	338.667	
1,300.0	1,293.6	1,266.3	1,266.2	3.0	1.0	-147.08	-483.2	-883.8	1,093.1	1,089.6	3.49	313.320	
1,400.0	1,392.2	1,367.1	1,367.0	3.3	1.1	-147.51	-483.2	-885.3	1,108.3	1,104.5	3.80	291.850	
1,500.0	1,490.8	1,467.8	1,467.7	3.6	1.2	-147.94	-483.1	-886.3	1,123.3	1,119.2	4.11	273.586	
1,600.0	1,589.4	1,562.4	1,562.3	3.9	1.3	-148.33	-482.9	-887.5	1,138.3	1,133.9	4.41	258.221	
1,700.0	1,688.0	1,657.8	1,657.7	4.3	1.4	-148.70	-482.9	-889.1	1,153.8	1,149.1	4.71	244.928	
1,800.0	1,786.6	1,758.2	1,758.1	4.6	1.5	-149.07	-482.6	-890.9	1,169.5	1,164.5	5.02	233.102	
1,900.0	1,885.3	1,858.0	1,857.8	4.9	1.5	-149.42	-482.1	-892.6	1,184.9	1,179.6	5.32	222.669	
2,000.0	1,983.9	1,958.0	1,957.8	5.3	1.6	-149.77	-481.8	-894.2	1,200.4	1,194.8	5.62	213.412	
2,100.0	2,082.5	2,059.7	2,059.5	5.6	1.7	-150.11	-481.1	-895.7	1,215.7	1,209.7	5.93	205.046	
2,200.0	2,181.1	2,157.2	2,156.9	5.9	1.8	-150.42	-480.3	-897.1	1,230.8	1,224.6	6.23	197.613	
2,300.0	2,279.7	2,254.9	2,254.7	6.3	1.9	-150.72	-479.5	-898.7	1,246.2	1,239.7	6.53	190.906	
2,400.0	2,378.3	2,353.8	2,353.5	6.6	2.0	-150.98	-478.1	-900.8	1,261.6	1,254.8	6.83	184.742	
2,500.0	2,476.9	2,449.5	2,449.2	6.9	2.1	-151.24	-476.9	-902.7	1,277.1	1,270.0	7.13	179.211	
2,600.0	2,575.6	2,547.2	2,546.8	7.3	2.2	-151.48	-475.7	-905.1	1,292.9	1,285.5	7.43	174.121	
2,700.0	2,674.2	2,651.8	2,651.4	7.6	2.3	-151.71	-473.7	-907.7	1,308.5	1,300.8	7.73	169.255	
2,800.0	2,772.8	2,760.2	2,759.7	8.0	2.4	-151.92	-470.9	-910.3	1,323.5	1,315.4	8.04	164.605	
2,900.0	2,871.4	2,864.3	2,863.8	8.3	2.4	-152.11	-467.7	-912.2	1,337.8	1,329.5	8.35	160.300	
3,000.0	2,970.0	2,968.6	2,968.0	8.6	2.5	-152.30	-464.4	-913.8	1,351.9	1,343.2	8.65	156.289	
3,100.0	3,068.6	3,081.7	3,081.0	9.0	2.6	-152.52	-460.6	-914.8	1,365.3	1,356.4	8.96	152.378	
3,200.0	3,167.2	3,185.8	3,185.1	9.3	2.7	-152.71	-456.6	-914.9	1,377.9	1,368.7	9.26	148.773	
3,300.0	3,265.8	3,292.4	3,291.6	9.6	2.8	-152.93	-452.7	-914.5	1,390.2	1,380.6	9.56	145.378	
3,400.0	3,364.5	3,391.5	3,390.6	10.0	2.9	-153.16	-449.4	-913.5	1,402.1	1,392.3	9.85	142.287	
8,100.0	7,523.0	7,482.0	7,480.1	21.4	6.5	-88.45	-390.2	-891.6	1,388.4	1,364.6	23.80	58.333	
8,200.0	7,523.0	7,482.0	7,480.1	22.1	6.5	-88.45	-390.2	-891.6	1,326.7	1,301.5	25.21	52.635	
8,300.0	7,523.0	7,482.0	7,480.1	23.3	6.5	-88.45	-390.2	-891.6	1,269.8	1,243.0	26.81	47.371	
8,400.0	7,523.0	7,482.0	7,480.1	24.7	6.5	-88.45	-390.2	-891.6	1,218.5	1,190.0	28.56	42.664	
8,500.0	7,523.0	7,482.0	7,480.1	26.3	6.5	-88.45	-390.2	-891.6	1,173.5	1,143.1	30.44	38.558	
8,600.0	7,523.0	7,482.0	7,480.1	28.1	6.5	-88.45	-390.2	-891.6	1,135.6	1,103.2	32.40	35.044	
8,700.0	7,523.0	7,482.0	7,480.1	30.1	6.5	-88.45	-390.2	-891.6	1,105.4	1,070.9	34.45	32.089	
8,800.0	7,523.0	7,482.0	7,480.1	32.0	6.5	-88.45	-390.2	-891.6	1,083.6	1,047.1	36.55	29.647	
8,900.0	7,523.0	7,482.0	7,480.1	34.1	6.5	-88.45	-390.2	-891.6	1,070.8	1,032.1	38.70	27.669	
8,988.3	7,523.0	7,482.0	7,480.1	35.9	6.5	-88.45	-390.2	-891.6	1,067.1	1,026.5	40.63	26.263	
9,000.0	7,523.0	7,482.0	7,480.1	36.2	6.5	-88.45	-390.2	-891.6	1,067.2	1,026.3	40.89	26.100	
9,100.0	7,523.0	7,482.0	7,480.1	38.3	6.5	-88.45	-390.2	-891.6	1,073.0	1,029.9	43.11	24.890	
9,200.0	7,523.0	7,482.0	7,480.1	40.5	6.5	-88.45	-390.2	-891.6	1,087.9	1,042.6	45.36	23.987	
9,300.0	7,523.0	7,482.0	7,480.1	42.7	6.5	-88.45	-390.2	-891.6	1,111.7	1,064.1	47.62	23.344	
9,400.0	7,523.0	7,482.0	7,480.1	44.9	6.5	-88.45	-390.2	-891.6	1,143.8	1,093.9	49.91	22.917	
9,500.0	7,523.0	7,482.0	7,480.1	47.2	6.5	-88.45	-390.2	-891.6	1,183.5	1,131.3	52.22	22.666	
9,600.0	7,523.0	7,482.0	7,480.1	49.4	6.5	-88.45	-390.2	-891.6	1,230.0	1,175.5	54.53	22.556 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 McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - RANCHERO 32-34 (EXISTING) - ENCANA WELL - GYROS												Offset Site Error:	0.0 ft
Survey Program: 200-Gyro												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,700.0	7,523.0	7,482.0	7,480.1	51.7	6.5	-88.45	-390.2	-891.6	1,282.7	1,225.8	56.86	22.559	
9,800.0	7,523.0	7,482.0	7,480.1	54.0	6.5	-88.45	-390.2	-891.6	1,340.8	1,281.6	59.20	22.649	
9,900.0	7,523.0	7,482.0	7,480.1	56.3	6.5	-88.45	-390.2	-891.6	1,403.6	1,342.0	61.55	22.805	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1B-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1B-34H-H266	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R68W (Billings, Erica) - Erica 1 - DD - DD													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 (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		
10,000.0	7,523.0	7,458.7	7,458.0	58.6	6.5	90.46	730.9	-3,455.4	1,369.6	1,305.7	63.97	21.410		
10,100.0	7,523.0	7,458.3	7,457.6	60.9	6.5	90.42	730.9	-3,455.4	1,281.2	1,214.9	66.33	19.314		
10,200.0	7,523.0	7,457.9	7,457.2	63.3	6.5	90.39	730.9	-3,455.4	1,194.6	1,125.9	68.70	17.388		
10,300.0	7,523.0	7,457.5	7,456.8	65.6	6.5	90.35	730.9	-3,455.4	1,110.2	1,039.2	71.08	15.620		
10,400.0	7,523.0	7,457.1	7,456.4	68.0	6.5	90.31	730.9	-3,455.4	1,028.7	955.2	73.46	14.004		
10,500.0	7,523.0	7,456.7	7,456.0	70.3	6.5	90.27	730.9	-3,455.4	950.7	874.8	75.84	12.536		
10,600.0	7,523.0	7,456.3	7,455.5	72.7	6.5	90.24	730.9	-3,455.4	877.1	798.9	78.23	11.213		
10,700.0	7,523.0	7,455.9	7,455.1	75.0	6.5	90.20	730.9	-3,455.4	809.3	728.7	80.62	10.039		
10,800.0	7,523.0	7,455.5	7,454.7	77.4	6.5	90.16	730.9	-3,455.4	748.7	665.6	83.07	9.013		
10,900.0	7,523.0	7,455.1	7,454.3	79.8	6.5	90.13	730.9	-3,455.4	694.8	608.9	85.89	8.089		
11,000.0	7,523.0	7,454.7	7,453.9	82.2	6.5	90.09	730.9	-3,455.4	647.8	559.2	88.59	7.312		
11,100.0	7,523.0	7,454.3	7,453.5	84.7	6.5	90.05	730.9	-3,455.4	609.4	518.3	91.15	6.686		
11,200.0	7,523.0	7,453.9	7,453.2	87.1	6.5	90.02	730.9	-3,455.4	581.4	487.8	93.56	6.214		
11,300.0	7,523.0	7,453.5	7,452.8	89.5	6.5	89.98	730.9	-3,455.4	565.4	469.5	95.82	5.900		
11,372.4	7,523.0	7,453.2	7,452.5	91.3	6.5	89.95	730.9	-3,455.4	561.9	464.5	97.36	5.771 CC		
11,400.0	7,523.0	7,453.1	7,452.4	92.0	6.5	89.94	730.9	-3,455.4	562.4	464.5	97.92	5.743 ES		
11,500.0	7,523.0	7,452.7	7,452.0	94.4	6.5	89.90	730.9	-3,455.4	572.7	472.8	99.95	5.730 SF		
11,600.0	7,523.0	7,452.4	7,451.6	96.8	6.5	89.86	730.9	-3,455.4	598.3	495.9	102.39	5.843		
11,638.3	7,523.0	7,452.2	7,451.5	97.7	6.5	89.85	730.9	-3,455.4	612.2	508.9	103.33	5.925		

Cathedral Energy Services

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Reference Site: S34-T2N-R66W (McConahay)
Site Error: 0.0ft
Reference Well: McConahay 1B-34H-H266
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #3

Local Co-ordinate Reference: Well McConahay 1B-34H-H266
TVD Reference: WELL @ 5087.0ft (Original Well Elev)
MD Reference: WELL @ 5087.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: USA EDM 5000 Multi Users DB
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 5087.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: McConahay 1B-34H-H266
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.48°

