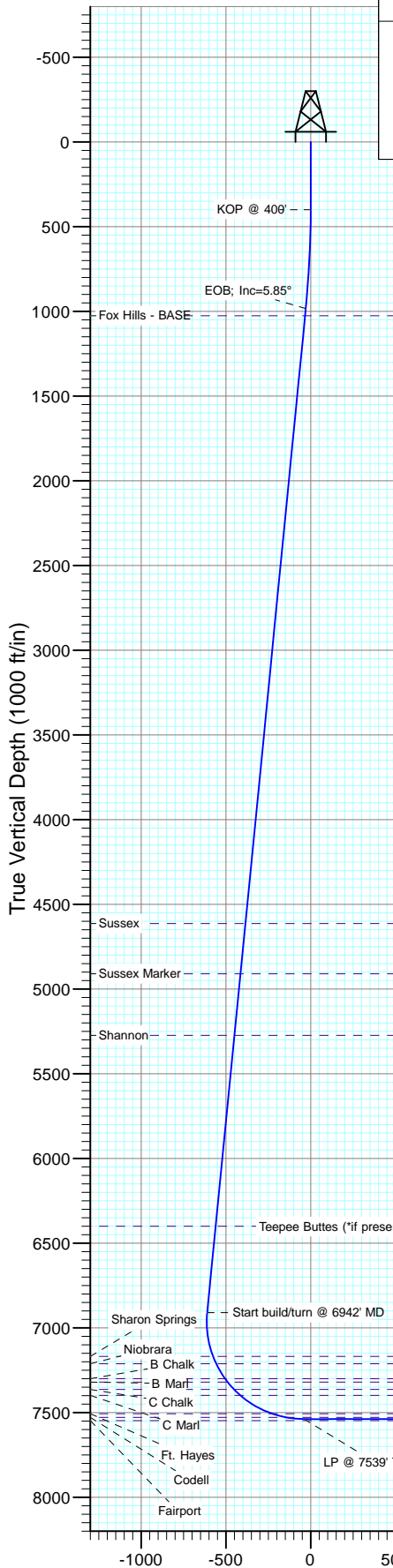


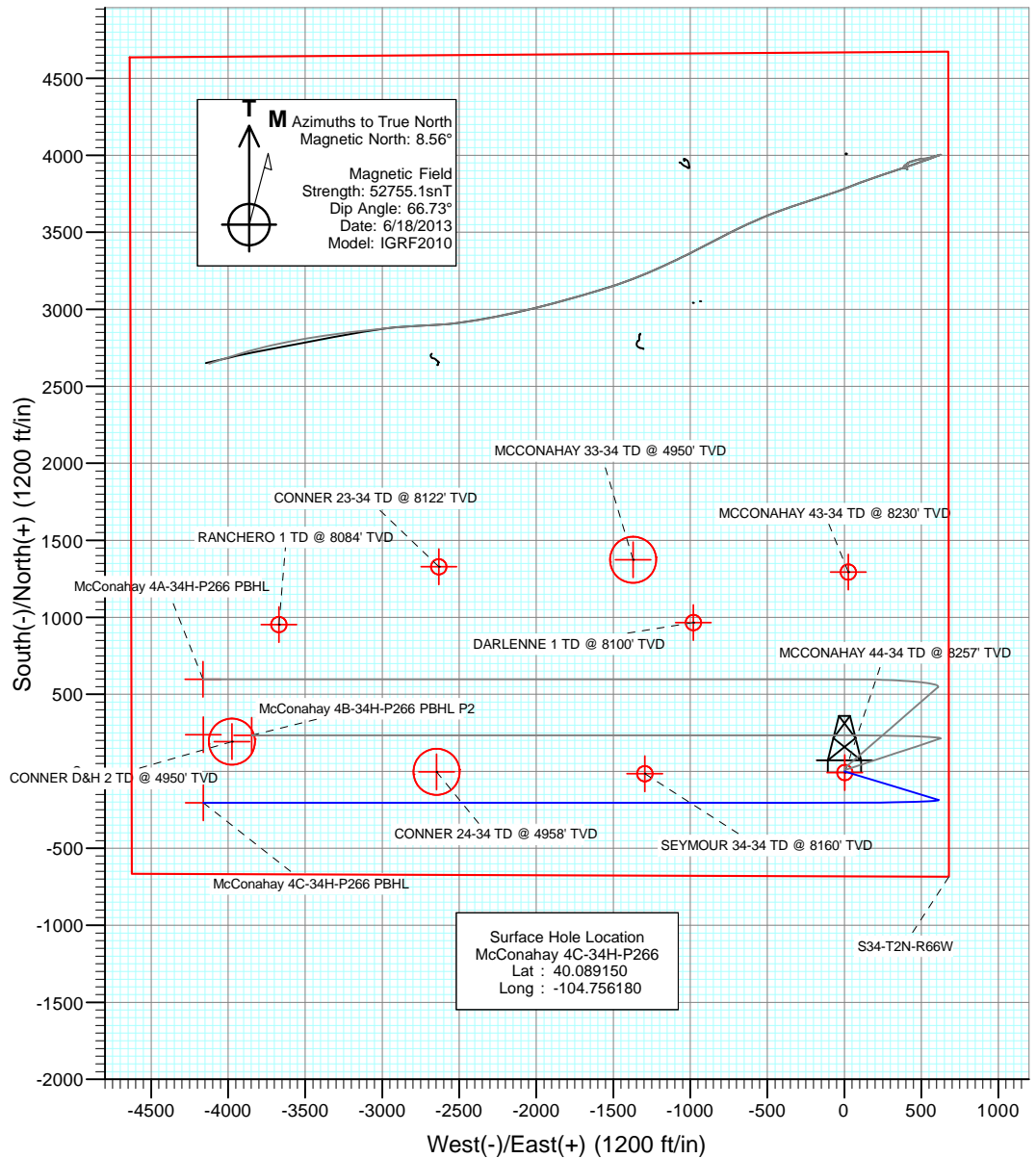


Project: DJ Wattenberg
Site: S34-T2N-R66W (McConahay)
Well: McConahay 4C-34H-P266
Wellbore: Hz
Design: Plan #2



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	985.1	5.85	106.87	984.1	-8.7	28.6	1.00	106.87	-28.6	
4	6942.5	5.85	106.87	6910.4	-184.9	609.7	0.00	0.00	-609.7	
5	7898.5	90.00	270.00	7539.0	-203.6	39.5	10.00	163.04	-39.5	
6	12098.5	90.00	270.00	7539.0	-203.6	-4160.5	0.00	0.00	4160.5	McConahay 4C-34H-P266 PBHL



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
McConahay 4C-34H-P266 PBHL	-203.6	-4160.5	1275958.85	3203956.79	40.088590	-104.771050

Vertical Section at 270.00° (1000 ft/in)

Plan #2
McConahay 4C-34H-P266
13xxx; LR
WELL @ 5101.0ft (Original Well Elev)
Ground Elevation @ 5076.0
North American Datum 1983
Well McConahay 4C-34H-P266, True North

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 4C-34H-P266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 4C-34H-P266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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 4C-34H-P266					
Well Position	+N/-S	0.0 ft	Northing:	1,276,197.37 ft	Latitude:	40.089150
	+E/-W	0.0 ft	Easting:	3,208,115.41 ft	Longitude:	-104.756180
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,076.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/18/2013	8.56	66.73	52,755

Design	Plan #2			
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	270.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
985.1	5.85	106.87	984.1	-8.7	28.6	1.00	1.00	0.00	106.87	
6,942.5	5.85	106.87	6,910.4	-184.9	609.7	0.00	0.00	0.00	0.00	
7,898.5	90.00	270.00	7,539.0	-203.6	39.5	10.00	8.80	17.06	163.04	
12,098.5	90.00	270.00	7,539.0	-203.6	-4,160.5	0.00	0.00	0.00	0.00	McConahay 4C-34H-I

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 4C-34H-P266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 4C-34H-P266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	1.00	106.87	500.0	-0.3	0.8	-0.8	1.00	1.00	
600.0	2.00	106.87	600.0	-1.0	3.3	-3.3	1.00	1.00	
700.0	3.00	106.87	699.9	-2.3	7.5	-7.5	1.00	1.00	
800.0	4.00	106.87	799.7	-4.1	13.4	-13.4	1.00	1.00	
900.0	5.00	106.87	899.4	-6.3	20.9	-20.9	1.00	1.00	
985.1	5.85	106.87	984.1	-8.7	28.6	-28.6	1.00	1.00	EOB; Inc=5.85°
1,000.0	5.85	106.87	998.9	-9.1	30.0	-30.0	0.00	0.00	
1,027.2	5.85	106.87	1,026.0	-9.9	32.7	-32.7	0.00	0.00	Fox Hills - BASE
1,100.0	5.85	106.87	1,098.4	-12.1	39.8	-39.8	0.00	0.00	
1,200.0	5.85	106.87	1,197.9	-15.0	49.5	-49.5	0.00	0.00	
1,300.0	5.85	106.87	1,297.3	-18.0	59.3	-59.3	0.00	0.00	
1,400.0	5.85	106.87	1,396.8	-20.9	69.0	-69.0	0.00	0.00	
1,500.0	5.85	106.87	1,496.3	-23.9	78.8	-78.8	0.00	0.00	
1,600.0	5.85	106.87	1,595.8	-26.9	88.6	-88.6	0.00	0.00	
1,700.0	5.85	106.87	1,695.3	-29.8	98.3	-98.3	0.00	0.00	
1,800.0	5.85	106.87	1,794.7	-32.8	108.1	-108.1	0.00	0.00	
1,900.0	5.85	106.87	1,894.2	-35.7	117.8	-117.8	0.00	0.00	
2,000.0	5.85	106.87	1,993.7	-38.7	127.6	-127.6	0.00	0.00	
2,100.0	5.85	106.87	2,093.2	-41.7	137.3	-137.3	0.00	0.00	
2,200.0	5.85	106.87	2,192.7	-44.6	147.1	-147.1	0.00	0.00	
2,300.0	5.85	106.87	2,292.1	-47.6	156.8	-156.8	0.00	0.00	
2,400.0	5.85	106.87	2,391.6	-50.5	166.6	-166.6	0.00	0.00	
2,500.0	5.85	106.87	2,491.1	-53.5	176.4	-176.4	0.00	0.00	
2,600.0	5.85	106.87	2,590.6	-56.4	186.1	-186.1	0.00	0.00	
2,700.0	5.85	106.87	2,690.0	-59.4	195.9	-195.9	0.00	0.00	
2,800.0	5.85	106.87	2,789.5	-62.4	205.6	-205.6	0.00	0.00	
2,900.0	5.85	106.87	2,889.0	-65.3	215.4	-215.4	0.00	0.00	
3,000.0	5.85	106.87	2,988.5	-68.3	225.1	-225.1	0.00	0.00	
3,100.0	5.85	106.87	3,088.0	-71.2	234.9	-234.9	0.00	0.00	
3,200.0	5.85	106.87	3,187.4	-74.2	244.6	-244.6	0.00	0.00	
3,300.0	5.85	106.87	3,286.9	-77.2	254.4	-254.4	0.00	0.00	
3,400.0	5.85	106.87	3,386.4	-80.1	264.2	-264.2	0.00	0.00	
3,500.0	5.85	106.87	3,485.9	-83.1	273.9	-273.9	0.00	0.00	
3,600.0	5.85	106.87	3,585.4	-86.0	283.7	-283.7	0.00	0.00	
3,700.0	5.85	106.87	3,684.8	-89.0	293.4	-293.4	0.00	0.00	
3,800.0	5.85	106.87	3,784.3	-92.0	303.2	-303.2	0.00	0.00	
3,900.0	5.85	106.87	3,883.8	-94.9	312.9	-312.9	0.00	0.00	
4,000.0	5.85	106.87	3,983.3	-97.9	322.7	-322.7	0.00	0.00	
4,100.0	5.85	106.87	4,082.8	-100.8	332.4	-332.4	0.00	0.00	
4,200.0	5.85	106.87	4,182.2	-103.8	342.2	-342.2	0.00	0.00	
4,300.0	5.85	106.87	4,281.7	-106.7	352.0	-352.0	0.00	0.00	
4,400.0	5.85	106.87	4,381.2	-109.7	361.7	-361.7	0.00	0.00	
4,500.0	5.85	106.87	4,480.7	-112.7	371.5	-371.5	0.00	0.00	
4,600.0	5.85	106.87	4,580.2	-115.6	381.2	-381.2	0.00	0.00	
4,634.0	5.85	106.87	4,614.0	-116.6	384.5	-384.5	0.00	0.00	Sussex
4,700.0	5.85	106.87	4,679.6	-118.6	391.0	-391.0	0.00	0.00	
4,800.0	5.85	106.87	4,779.1	-121.5	400.7	-400.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 4C-34H-P266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 4C-34H-P266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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	5.85	106.87	4,878.6	-124.5	410.5	-410.5	0.00	0.00	
4,931.6	5.85	106.87	4,910.0	-125.4	413.6	-413.6	0.00	0.00	Sussex Marker
5,000.0	5.85	106.87	4,978.1	-127.5	420.2	-420.2	0.00	0.00	
5,100.0	5.85	106.87	5,077.5	-130.4	430.0	-430.0	0.00	0.00	
5,200.0	5.85	106.87	5,177.0	-133.4	439.8	-439.8	0.00	0.00	
5,297.5	5.85	106.87	5,274.0	-136.3	449.3	-449.3	0.00	0.00	Shannon
5,300.0	5.85	106.87	5,276.5	-136.3	449.5	-449.5	0.00	0.00	
5,400.0	5.85	106.87	5,376.0	-139.3	459.3	-459.3	0.00	0.00	
5,500.0	5.85	106.87	5,475.5	-142.3	469.0	-469.0	0.00	0.00	
5,600.0	5.85	106.87	5,574.9	-145.2	478.8	-478.8	0.00	0.00	
5,700.0	5.85	106.87	5,674.4	-148.2	488.5	-488.5	0.00	0.00	
5,800.0	5.85	106.87	5,773.9	-151.1	498.3	-498.3	0.00	0.00	
5,900.0	5.85	106.87	5,873.4	-154.1	508.0	-508.0	0.00	0.00	
6,000.0	5.85	106.87	5,972.9	-157.1	517.8	-517.8	0.00	0.00	
6,100.0	5.85	106.87	6,072.3	-160.0	527.6	-527.6	0.00	0.00	
6,200.0	5.85	106.87	6,171.8	-163.0	537.3	-537.3	0.00	0.00	
6,300.0	5.85	106.87	6,271.3	-165.9	547.1	-547.1	0.00	0.00	
6,400.0	5.85	106.87	6,370.8	-168.9	556.8	-556.8	0.00	0.00	
6,429.4	5.85	106.87	6,400.0	-169.8	559.7	-559.7	0.00	0.00	Teepee Buttes (*if present)
6,500.0	5.85	106.87	6,470.3	-171.8	566.6	-566.6	0.00	0.00	
6,600.0	5.85	106.87	6,569.7	-174.8	576.3	-576.3	0.00	0.00	
6,700.0	5.85	106.87	6,669.2	-177.8	586.1	-586.1	0.00	0.00	
6,800.0	5.85	106.87	6,768.7	-180.7	595.8	-595.8	0.00	0.00	
6,900.0	5.85	106.87	6,868.2	-183.7	605.6	-605.6	0.00	0.00	
6,942.5	5.85	106.87	6,910.4	-184.9	609.7	-609.7	0.00	0.00	Start build/turn @ 6942' MD
7,000.0	1.71	185.15	6,967.8	-186.6	612.5	-612.5	10.00	-7.20	
7,100.0	10.29	260.57	7,067.3	-189.6	603.5	-603.5	10.00	8.58	
7,200.0	20.22	265.37	7,163.6	-192.5	577.4	-577.4	10.00	9.93	
7,205.7	20.80	265.51	7,169.0	-192.6	575.4	-575.4	10.00	9.96	Sharon Springs
7,252.5	25.46	266.42	7,212.0	-193.9	557.1	-557.1	10.00	9.97	Niobrara
7,300.0	30.20	267.07	7,254.0	-195.2	534.9	-534.9	10.00	9.98	
7,354.9	35.67	267.63	7,300.0	-196.5	505.2	-505.2	10.00	9.98	B Chalk
7,379.9	38.17	267.83	7,320.0	-197.1	490.1	-490.1	10.00	9.99	B Marl
7,400.0	40.18	267.98	7,335.6	-197.6	477.4	-477.4	10.00	9.99	
7,438.3	44.01	268.24	7,364.0	-198.4	451.8	-451.8	10.00	9.99	C Chalk
7,489.2	49.10	268.52	7,399.0	-199.5	414.9	-414.9	10.00	9.99	C Marl
7,500.0	50.17	268.58	7,406.0	-199.7	406.6	-406.6	10.00	9.99	
7,600.0	60.17	269.02	7,463.0	-201.4	324.7	-324.7	10.00	9.99	
7,700.0	70.16	269.39	7,505.0	-202.6	234.0	-234.0	10.00	9.99	
7,706.0	70.77	269.41	7,507.0	-202.7	228.4	-228.4	10.00	10.00	Ft. Hayes
7,791.2	79.28	269.68	7,529.0	-203.3	146.1	-146.1	10.00	10.00	Codell
7,800.0	80.16	269.70	7,530.6	-203.4	137.5	-137.5	10.00	10.00	
7,898.5	90.00	270.00	7,539.0	-203.6	39.5	-39.5	10.00	10.00	LP @ 7539' TVD; 90°
7,900.0	90.00	270.00	7,539.0	-203.6	38.0	-38.0	0.00	0.00	
8,000.0	90.00	270.00	7,539.0	-203.6	-62.0	62.0	0.00	0.00	
8,100.0	90.00	270.00	7,539.0	-203.6	-162.0	162.0	0.00	0.00	
8,200.0	90.00	270.00	7,539.0	-203.6	-262.0	262.0	0.00	0.00	
8,300.0	90.00	270.00	7,539.0	-203.6	-362.0	362.0	0.00	0.00	
8,400.0	90.00	270.00	7,539.0	-203.6	-462.0	462.0	0.00	0.00	
8,500.0	90.00	270.00	7,539.0	-203.6	-562.0	562.0	0.00	0.00	
8,600.0	90.00	270.00	7,539.0	-203.6	-662.0	662.0	0.00	0.00	
8,700.0	90.00	270.00	7,539.0	-203.6	-762.0	762.0	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 4C-34H-P266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 4C-34H-P266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	270.00	7,539.0	-203.6	-862.0	862.0	0.00	0.00	
8,900.0	90.00	270.00	7,539.0	-203.6	-962.0	962.0	0.00	0.00	
9,000.0	90.00	270.00	7,539.0	-203.6	-1,062.0	1,062.0	0.00	0.00	
9,100.0	90.00	270.00	7,539.0	-203.6	-1,162.0	1,162.0	0.00	0.00	
9,200.0	90.00	270.00	7,539.0	-203.6	-1,262.0	1,262.0	0.00	0.00	
9,300.0	90.00	270.00	7,539.0	-203.6	-1,362.0	1,362.0	0.00	0.00	
9,400.0	90.00	270.00	7,539.0	-203.6	-1,462.0	1,462.0	0.00	0.00	
9,500.0	90.00	270.00	7,539.0	-203.6	-1,562.0	1,562.0	0.00	0.00	
9,600.0	90.00	270.00	7,539.0	-203.6	-1,662.0	1,662.0	0.00	0.00	
9,700.0	90.00	270.00	7,539.0	-203.6	-1,762.0	1,762.0	0.00	0.00	
9,800.0	90.00	270.00	7,539.0	-203.6	-1,862.0	1,862.0	0.00	0.00	
9,900.0	90.00	270.00	7,539.0	-203.6	-1,962.0	1,962.0	0.00	0.00	
10,000.0	90.00	270.00	7,539.0	-203.6	-2,062.0	2,062.0	0.00	0.00	
10,100.0	90.00	270.00	7,539.0	-203.6	-2,162.0	2,162.0	0.00	0.00	
10,200.0	90.00	270.00	7,539.0	-203.6	-2,262.0	2,262.0	0.00	0.00	
10,300.0	90.00	270.00	7,539.0	-203.6	-2,362.0	2,362.0	0.00	0.00	
10,400.0	90.00	270.00	7,539.0	-203.6	-2,462.0	2,462.0	0.00	0.00	
10,500.0	90.00	270.00	7,539.0	-203.6	-2,562.0	2,562.0	0.00	0.00	
10,600.0	90.00	270.00	7,539.0	-203.6	-2,662.0	2,662.0	0.00	0.00	
10,700.0	90.00	270.00	7,539.0	-203.6	-2,762.0	2,762.0	0.00	0.00	
10,800.0	90.00	270.00	7,539.0	-203.6	-2,862.0	2,862.0	0.00	0.00	
10,900.0	90.00	270.00	7,539.0	-203.6	-2,962.0	2,962.0	0.00	0.00	
11,000.0	90.00	270.00	7,539.0	-203.6	-3,062.0	3,062.0	0.00	0.00	
11,100.0	90.00	270.00	7,539.0	-203.6	-3,162.0	3,162.0	0.00	0.00	
11,200.0	90.00	270.00	7,539.0	-203.6	-3,262.0	3,262.0	0.00	0.00	
11,300.0	90.00	270.00	7,539.0	-203.6	-3,362.0	3,362.0	0.00	0.00	
11,400.0	90.00	270.00	7,539.0	-203.6	-3,462.0	3,462.0	0.00	0.00	
11,500.0	90.00	270.00	7,539.0	-203.6	-3,562.0	3,562.0	0.00	0.00	
11,600.0	90.00	270.00	7,539.0	-203.6	-3,662.0	3,662.0	0.00	0.00	
11,700.0	90.00	270.00	7,539.0	-203.6	-3,762.0	3,762.0	0.00	0.00	
11,800.0	90.00	270.00	7,539.0	-203.6	-3,862.0	3,862.0	0.00	0.00	
11,900.0	90.00	270.00	7,539.0	-203.6	-3,962.0	3,962.0	0.00	0.00	
12,000.0	90.00	270.00	7,539.0	-203.6	-4,062.0	4,062.0	0.00	0.00	
12,098.5	90.00	270.00	7,539.0	-203.6	-4,160.5	4,160.5	0.00	0.00	TD at 12098.5

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
McConahay 4C-34H-P266 - hit/miss target - Shape - Point	0.00	0.00	7,539.0	-203.6	-4,160.5	1,275,958.85	3,203,956.79	40.088590	-104.771050

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 4C-34H-P266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 4C-34H-P266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,027.2	1,026.0	Fox Hills - BASE				
4,634.0	4,614.0	Sussex				
4,931.6	4,910.0	Sussex Marker				
5,297.5	5,274.0	Shannon				
6,429.4	6,400.0	Teepee Buttes (*if present)				
7,205.7	7,169.0	Sharon Springs				
7,252.5	7,212.0	Niobrara				
7,354.9	7,300.0	B Chalk				
7,379.9	7,320.0	B Marl				
7,438.3	7,364.0	C Chalk				
7,489.2	7,399.0	C Marl				
7,706.0	7,507.0	Ft. Hayes				
7,791.2	7,529.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP @ 400'	
985.1	984.1	-8.7	28.6	EOB; Inc=5.85°	
6,942.5	6,910.4	-184.9	609.7	Start build/turn @ 6942' MD	
7,898.5	7,539.0	-203.6	39.5	LP @ 7539' TVD; 90°	
12,098.5	7,539.0	-203.6	-4,160.5	TD at 12098.5	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S34-T2N-R66W (McConahay)

McConahay 4C-34H-P266

Hz

Plan #2

Anticollision Report

11 July, 2013

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 4C-34H-P266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 4C-34H-P266	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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	7/11/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,098.5	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S34-T2N-R66W (McConahay)						
CONNER 22-34 (EXISTING) - DD - DD						Out of range
CONNER 23-34 (EXISTING) - ENCANA WELL - NO SUR						Out of range
CONNER 24-34 (EXISTING) - FOUNDATION WELL - NO						Out of range
CONNER D&H 2 (EXISTING) - MARINER WELL - NO SU						Out of range
DARLENNE 1 (EXISTING) - ENCANA WELL - NO SURV						Out of range
MCCONAHAY #1 (EXISTING) - DD - DD						Out of range
McConahay 1A-34H - Hz - Hz						Out of range
McConahay 1A-34H - Hz - Plan #7						Out of range
MCCONAHAY 31-34 (EXISTING) - DD - GYROS						Out of range
MCCONAHAY 33-34 (EXISTING) - FOUNDATION WELL						Out of range
MCCONAHAY 41-34 (EXISTING) - DD - DD						Out of range
MCCONAHAY 41-34A (EXISTING) - VH - VH						Out of range
MCCONAHAY 43-34 (EXISTING) - ENCANA WELL - NO						Out of range
MCCONAHAY 44-34 (EXISTING) - ENCANA WELL - NO	651.9	627.9	6.7	4.5	3.042	CC, ES
MCCONAHAY 44-34 (EXISTING) - ENCANA WELL - NO	700.0	675.9	7.1	4.7	2.987	SF
McConahay 4A-34H-P266 - Hz - Plan #2	200.0	200.0	18.2	17.6	29.810	CC, ES
McConahay 4A-34H-P266 - Hz - Plan #2	600.0	598.6	29.2	27.2	14.451	SF
McConahay 4B-34H-P266 - Hz - Plan #3	300.0	300.0	7.3	6.3	7.585	CC
McConahay 4B-34H-P266 - Hz - Plan #3	400.0	400.0	7.6	6.3	5.806	ES
McConahay 4B-34H-P266 - Hz - Plan #3	11,800.0	11,572.2	493.6	318.3	2.815	SF
MCCONAHAY 6-4-34 (EXISTING) - DD - DD						Out of range
RANCHERO 1 (EXISTING) - ENCANA WELL - NO SURV						Out of range
RANCHERO 32-34 (EXISTING) - DD - GYROS						Out of range
SEYMOUR 34-34 (EXISTING) - ENCANA WELL - NO SU	9,232.8	7,483.0	188.0	133.5	3.448	CC, ES, SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 4C-34H-P266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 4C-34H-P266	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 44-34 (EXISTING) - ENCANA WELL - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 8257-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	157.26	-8.0	3.4	25.5						
100.0	100.0	76.0	76.0	0.1	0.1	157.26	-8.0	3.4	8.7	8.4	0.26	32.930			
200.0	200.0	176.0	176.0	0.3	0.3	157.26	-8.0	3.4	8.7	8.1	0.61	14.173			
300.0	300.0	276.0	276.0	0.5	0.5	157.26	-8.0	3.4	8.7	7.7	0.96	9.029			
400.0	400.0	376.0	376.0	0.7	0.7	157.26	-8.0	3.4	8.7	7.4	1.31	6.625			
500.0	500.0	476.0	476.0	0.8	0.8	55.12	-8.0	3.4	8.2	6.5	1.66	4.913			
600.0	600.0	576.0	576.0	1.0	1.0	72.99	-8.0	3.4	7.0	5.0	2.01	3.476			
651.9	651.9	627.9	627.9	1.1	1.1	90.00	-8.0	3.4	6.7	4.5	2.20	3.042 CC, ES			
700.0	699.9	675.9	675.9	1.2	1.2	109.06	-8.0	3.4	7.1	4.7	2.37	2.987 SF			
800.0	799.7	775.7	775.7	1.4	1.4	141.46	-8.0	3.4	10.8	8.0	2.72	3.957			
900.0	899.4	875.4	875.4	1.6	1.5	157.56	-8.0	3.4	17.6	14.5	3.06	5.747			
1,000.0	998.9	974.9	974.9	1.8	1.7	165.41	-8.0	3.4	26.7	23.3	3.40	7.841			
1,100.0	1,098.4	1,074.4	1,074.4	2.0	1.9	169.42	-8.0	3.4	36.6	32.9	3.75	9.773			
1,200.0	1,197.9	1,173.9	1,173.9	2.3	2.0	171.72	-8.0	3.4	46.7	42.6	4.10	11.402			
1,300.0	1,297.3	1,273.3	1,273.3	2.5	2.2	173.20	-8.0	3.4	56.8	52.4	4.44	12.786			
1,400.0	1,396.8	1,372.8	1,372.8	2.8	2.4	174.23	-8.0	3.4	66.9	62.2	4.79	13.974			
1,500.0	1,496.3	1,472.3	1,472.3	3.0	2.6	175.00	-8.0	3.4	77.1	72.0	5.14	15.005			
1,600.0	1,595.8	1,571.8	1,571.8	3.2	2.7	175.58	-8.0	3.4	87.3	81.8	5.49	15.907			
1,700.0	1,695.3	1,671.3	1,671.3	3.5	2.9	176.04	-8.0	3.4	97.4	91.6	5.83	16.702			
1,800.0	1,794.7	1,770.7	1,770.7	3.7	3.1	176.42	-8.0	3.4	107.6	101.4	6.18	17.408			
1,900.0	1,894.2	1,870.2	1,870.2	4.0	3.3	176.73	-8.0	3.4	117.8	111.2	6.53	18.040			
2,000.0	1,993.7	1,969.7	1,969.7	4.2	3.4	176.99	-8.0	3.4	128.0	121.1	6.88	18.608			
2,100.0	2,093.2	2,069.2	2,069.2	4.5	3.6	177.21	-8.0	3.4	138.1	130.9	7.22	19.122			
2,200.0	2,192.7	2,168.7	2,168.7	4.7	3.8	177.40	-8.0	3.4	148.3	140.7	7.57	19.589			
2,300.0	2,292.1	2,268.1	2,268.1	5.0	4.0	177.57	-8.0	3.4	158.5	150.6	7.92	20.015			
2,400.0	2,391.6	2,367.6	2,367.6	5.2	4.1	177.71	-8.0	3.4	168.7	160.4	8.27	20.405			
2,500.0	2,491.1	2,467.1	2,467.1	5.4	4.3	177.85	-8.0	3.4	178.9	170.3	8.61	20.764			
2,600.0	2,590.6	2,566.6	2,566.6	5.7	4.5	177.96	-8.0	3.4	189.1	180.1	8.96	21.095			
2,700.0	2,690.0	2,666.0	2,666.0	5.9	4.7	178.07	-8.0	3.4	199.2	189.9	9.31	21.402			
2,800.0	2,789.5	2,765.5	2,765.5	6.2	4.8	178.16	-8.0	3.4	209.4	199.8	9.66	21.686			
2,900.0	2,889.0	2,865.0	2,865.0	6.4	5.0	178.25	-8.0	3.4	219.6	209.6	10.01	21.951			
3,000.0	2,988.5	2,964.5	2,964.5	6.7	5.2	178.32	-8.0	3.4	229.8	219.5	10.35	22.198			
3,100.0	3,088.0	3,064.0	3,064.0	6.9	5.3	178.39	-8.0	3.4	240.0	229.3	10.70	22.429			
3,200.0	3,187.4	3,163.4	3,163.4	7.2	5.5	178.46	-8.0	3.4	250.2	239.1	11.05	22.645			
3,300.0	3,286.9	3,262.9	3,262.9	7.4	5.7	178.52	-8.0	3.4	260.4	249.0	11.40	22.848			
3,400.0	3,386.4	3,362.4	3,362.4	7.7	5.9	178.58	-8.0	3.4	270.6	258.8	11.74	23.040			
3,500.0	3,485.9	3,461.9	3,461.9	7.9	6.0	178.63	-8.0	3.4	280.8	268.7	12.09	23.220			
3,600.0	3,585.4	3,561.4	3,561.4	8.2	6.2	178.68	-8.0	3.4	291.0	278.5	12.44	23.390			
3,700.0	3,684.8	3,660.8	3,660.8	8.4	6.4	178.72	-8.0	3.4	301.2	288.4	12.79	23.551			
3,800.0	3,784.3	3,760.3	3,760.3	8.7	6.6	178.76	-8.0	3.4	311.3	298.2	13.14	23.703			
3,900.0	3,883.8	3,859.8	3,859.8	8.9	6.7	178.80	-8.0	3.4	321.5	308.1	13.48	23.848			
4,000.0	3,983.3	3,959.3	3,959.3	9.2	6.9	178.84	-8.0	3.4	331.7	317.9	13.83	23.985			
4,100.0	4,082.8	4,058.8	4,058.8	9.4	7.1	178.87	-8.0	3.4	341.9	327.7	14.18	24.116			
4,200.0	4,182.2	4,158.2	4,158.2	9.7	7.3	178.91	-8.0	3.4	352.1	337.6	14.53	24.240			
4,300.0	4,281.7	4,257.7	4,257.7	9.9	7.4	178.94	-8.0	3.4	362.3	347.4	14.87	24.359			
4,400.0	4,381.2	4,357.2	4,357.2	10.2	7.6	178.97	-8.0	3.4	372.5	357.3	15.22	24.472			
4,500.0	4,480.7	4,456.7	4,456.7	10.4	7.8	178.99	-8.0	3.4	382.7	367.1	15.57	24.580			
4,600.0	4,580.2	4,556.2	4,556.2	10.7	8.0	179.02	-8.0	3.4	392.9	377.0	15.92	24.683			
4,700.0	4,679.6	4,655.6	4,655.6	10.9	8.1	179.04	-8.0	3.4	403.1	386.8	16.26	24.782			
4,800.0	4,779.1	4,755.1	4,755.1	11.2	8.3	179.07	-8.0	3.4	413.3	396.7	16.61	24.877			
4,900.0	4,878.6	4,854.6	4,854.6	11.4	8.5	179.09	-8.0	3.4	423.5	406.5	16.96	24.968			
5,000.0	4,978.1	4,954.1	4,954.1	11.7	8.6	179.11	-8.0	3.4	433.7	416.4	17.31	25.055			

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 4C-34H-P266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 4C-34H-P266	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 #2	Offset TVD Reference:	Offset Datum

Offset Design		S34-T2N-R66W (McConahay) - MCCONAHAY 44-34 (EXISTING) - ENCANA WELL - NO SURVEYS											Offset Site Error:		0.0 ft	
Survey Program:		8257-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		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)		(ft)	(ft)					
5,100.0	5,077.5	5,053.5	5,053.5	11.9	8.8	179.13	-8.0	3.4	443.9	426.2	17.66	25.139				
5,200.0	5,177.0	5,153.0	5,153.0	12.2	9.0	179.15	-8.0	3.4	454.0	436.0	18.00	25.220				
5,300.0	5,276.5	5,252.5	5,252.5	12.4	9.2	179.17	-8.0	3.4	464.2	445.9	18.35	25.297				
5,400.0	5,376.0	5,352.0	5,352.0	12.7	9.3	179.19	-8.0	3.4	474.4	455.7	18.70	25.372				
5,500.0	5,475.5	5,451.5	5,451.5	12.9	9.5	179.20	-8.0	3.4	484.6	465.6	19.05	25.444				
5,600.0	5,574.9	5,550.9	5,550.9	13.2	9.7	179.22	-8.0	3.4	494.8	475.4	19.39	25.513				
7,500.0	7,406.0	7,382.0	7,382.0	15.2	12.9	38.31	-8.0	3.4	446.5	423.9	22.59	19.768				
7,600.0	7,463.0	7,439.0	7,439.0	14.8	13.0	51.50	-8.0	3.4	375.0	351.1	23.90	15.690				
7,700.0	7,505.0	7,481.0	7,481.0	14.6	13.1	68.52	-8.0	3.4	301.8	275.7	26.15	11.539				
7,800.0	7,530.6	7,506.6	7,506.6	14.8	13.1	83.38	-8.0	3.4	237.0	209.2	27.74	8.543				
7,900.0	7,539.0	7,515.0	7,515.0	15.6	13.1	90.00	-8.0	3.4	198.7	170.0	28.67	6.929				
7,934.6	7,539.0	7,515.0	7,515.0	15.9	13.1	90.00	-8.0	3.4	195.6	166.6	29.05	6.733				
8,000.0	7,539.0	7,515.0	7,515.0	16.7	13.1	90.00	-8.0	3.4	206.3	176.5	29.77	6.928				
8,100.0	7,539.0	7,515.0	7,515.0	18.1	13.1	90.00	-8.0	3.4	256.2	225.0	31.14	8.225				
8,200.0	7,539.0	7,515.0	7,515.0	19.7	13.1	90.00	-8.0	3.4	329.7	297.0	32.73	10.071				
8,300.0	7,539.0	7,515.0	7,515.0	21.5	13.1	90.00	-8.0	3.4	414.4	380.0	34.49	12.015				

Cathedral Energy Services

Anticollision Report

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Project:	DJ Wattenberg	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 4C-34H-P266	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 4A-34H-P266 - Hz - Plan #2													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		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	0.00	18.2	0.0	18.2					
100.0	100.0	100.0	100.0	0.1	0.1	0.00	18.2	0.0	18.2	17.9	0.26	69.556		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	18.2	0.0	18.2	17.6	0.61	29.810	CC, ES	
300.0	300.0	299.8	299.8	0.5	0.5	2.00	18.8	0.7	18.8	17.8	0.96	19.581		
400.0	400.0	399.5	399.5	0.7	0.7	7.29	20.5	2.6	20.7	19.4	1.31	15.774		
500.0	500.0	499.1	499.0	0.8	0.8	-94.73	23.3	5.9	24.1	22.5	1.66	14.505		
600.0	600.0	598.6	598.3	1.0	1.0	-92.64	27.3	10.5	29.2	27.2	2.02	14.451	SF	
700.0	699.9	697.9	697.3	1.2	1.3	-92.40	32.4	16.3	35.9	33.5	2.39	14.978		
800.0	799.7	797.0	796.0	1.4	1.5	-93.20	38.6	23.5	44.0	41.2	2.78	15.805		
900.0	899.4	895.9	894.2	1.6	1.7	-94.48	45.9	31.9	53.6	50.4	3.19	16.784		
1,000.0	998.9	995.1	992.6	1.8	2.0	-96.20	54.0	41.2	64.4	60.8	3.63	17.744		
1,100.0	1,098.4	1,094.5	1,091.2	2.0	2.3	-97.95	62.2	50.6	75.4	71.3	4.08	18.478		
1,200.0	1,197.9	1,193.8	1,189.8	2.3	2.5	-99.25	70.4	60.1	86.5	81.9	4.54	19.047		
1,300.0	1,297.3	1,293.2	1,288.3	2.5	2.8	-100.25	78.6	69.5	97.5	92.5	5.00	19.498		
1,400.0	1,396.8	1,392.6	1,386.9	2.8	3.1	-101.05	86.8	78.9	108.6	103.2	5.47	19.863		
1,500.0	1,496.3	1,491.9	1,485.5	3.0	3.3	-101.70	95.0	88.3	119.7	113.8	5.94	20.163		
1,600.0	1,595.8	1,591.3	1,584.1	3.2	3.6	-102.24	103.2	97.8	130.9	124.5	6.41	20.414		
1,700.0	1,695.3	1,690.7	1,682.7	3.5	3.9	-102.70	111.3	107.2	142.0	135.1	6.88	20.627		
1,800.0	1,794.7	1,790.1	1,781.3	3.7	4.2	-103.09	119.5	116.6	153.1	145.8	7.36	20.809		
1,900.0	1,894.2	1,889.4	1,879.9	4.0	4.4	-103.43	127.7	126.0	164.3	156.5	7.84	20.967		
2,000.0	1,993.7	1,988.8	1,978.4	4.2	4.7	-103.72	135.9	135.5	175.5	167.1	8.31	21.105		
2,100.0	2,093.2	2,088.2	2,077.0	4.5	5.0	-103.98	144.1	144.9	186.6	177.8	8.79	21.227		
2,200.0	2,192.7	2,187.5	2,175.6	4.7	5.3	-104.21	152.3	154.3	197.8	188.5	9.27	21.334		
2,300.0	2,292.1	2,286.9	2,274.2	5.0	5.6	-104.41	160.5	163.7	208.9	199.2	9.75	21.430		
2,400.0	2,391.6	2,386.3	2,372.8	5.2	5.8	-104.60	168.7	173.2	220.1	209.9	10.23	21.517		
2,500.0	2,491.1	2,485.7	2,471.4	5.4	6.1	-104.76	176.9	182.6	231.3	220.6	10.71	21.595		
2,600.0	2,590.6	2,585.0	2,569.9	5.7	6.4	-104.92	185.0	192.0	242.4	231.3	11.19	21.665		
2,700.0	2,690.0	2,684.4	2,668.5	5.9	6.7	-105.05	193.2	201.4	253.6	241.9	11.67	21.730		
2,800.0	2,789.5	2,783.8	2,767.1	6.2	6.9	-105.18	201.4	210.8	264.8	252.6	12.15	21.788		
2,900.0	2,889.0	2,883.2	2,865.7	6.4	7.2	-105.30	209.6	220.3	276.0	263.3	12.63	21.843		
3,000.0	2,988.5	2,982.5	2,964.3	6.7	7.5	-105.40	217.8	229.7	287.1	274.0	13.12	21.892		
3,100.0	3,088.0	3,081.9	3,062.9	6.9	7.8	-105.50	226.0	239.1	298.3	284.7	13.60	21.938		
3,200.0	3,187.4	3,181.3	3,161.5	7.2	8.1	-105.59	234.2	248.5	309.5	295.4	14.08	21.981		
3,300.0	3,286.9	3,280.6	3,260.0	7.4	8.3	-105.68	242.4	258.0	320.7	306.1	14.56	22.021		
3,400.0	3,386.4	3,380.0	3,358.6	7.7	8.6	-105.76	250.6	267.4	331.9	316.8	15.04	22.057		
3,500.0	3,485.9	3,479.4	3,457.2	7.9	8.9	-105.83	258.7	276.8	343.0	327.5	15.53	22.092		
3,600.0	3,585.4	3,578.8	3,555.8	8.2	9.2	-105.90	266.9	286.2	354.2	338.2	16.01	22.124		
3,700.0	3,684.8	3,678.1	3,654.4	8.4	9.4	-105.97	275.1	295.7	365.4	348.9	16.49	22.154		
3,800.0	3,784.3	3,777.5	3,753.0	8.7	9.7	-106.03	283.3	305.1	376.6	359.6	16.98	22.183		
3,900.0	3,883.8	3,876.9	3,851.6	8.9	10.0	-106.09	291.5	314.5	387.8	370.3	17.46	22.210		
4,000.0	3,983.3	3,976.2	3,950.1	9.2	10.3	-106.14	299.7	323.9	398.9	381.0	17.94	22.235		
4,100.0	4,082.8	4,075.6	4,048.7	9.4	10.6	-106.20	307.9	333.4	410.1	391.7	18.43	22.259		
4,200.0	4,182.2	4,175.0	4,147.3	9.7	10.8	-106.24	316.1	342.8	421.3	402.4	18.91	22.281		
4,300.0	4,281.7	4,274.4	4,245.9	9.9	11.1	-106.29	324.3	352.2	432.5	413.1	19.39	22.303		
4,400.0	4,381.2	4,373.7	4,344.5	10.2	11.4	-106.33	332.4	361.6	443.7	423.8	19.88	22.323		
4,500.0	4,480.7	4,473.1	4,443.1	10.4	11.7	-106.38	340.6	371.1	454.9	434.5	20.36	22.342		
4,600.0	4,580.2	4,572.5	4,541.6	10.7	12.0	-106.42	348.8	380.5	466.0	445.2	20.84	22.360		
4,700.0	4,679.6	4,671.8	4,640.2	10.9	12.2	-106.45	357.0	389.9	477.2	455.9	21.33	22.378		
4,800.0	4,779.1	4,771.2	4,738.8	11.2	12.5	-106.49	365.2	399.3	488.4	466.6	21.81	22.394		
4,900.0	4,878.6	4,870.6	4,837.4	11.4	12.8	-106.53	373.4	408.7	499.6	477.3	22.29	22.410		

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 4C-34H-P266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 4C-34H-P266	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 4B-34H-P266 - Hz - Plan #3													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	0.00	7.3	0.0	7.3					
100.0	100.0	100.0	100.0	0.1	0.1	0.00	7.3	0.0	7.3	7.0	0.26	27.813		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	7.3	0.0	7.3	6.7	0.61	11.920		
300.0	300.0	300.0	300.0	0.5	0.5	0.00	7.3	0.0	7.3	6.3	0.96	7.585 CC		
400.0	400.0	400.0	399.9	0.7	0.7	6.26	7.6	0.8	7.6	6.3	1.31	5.806 ES		
500.0	500.0	499.9	499.8	0.8	0.8	-90.83	8.4	3.3	9.0	7.3	1.66	5.400		
600.0	600.0	599.7	599.6	1.0	1.0	-85.90	9.7	7.4	11.5	9.5	2.02	5.694		
700.0	699.9	699.5	699.2	1.2	1.2	-84.42	11.6	13.2	15.1	12.7	2.39	6.293		
800.0	799.7	799.2	798.6	1.4	1.4	-84.75	14.1	20.6	19.6	16.8	2.78	7.033		
900.0	899.4	898.8	897.7	1.6	1.7	-85.86	17.0	29.7	25.0	21.8	3.20	7.833		
1,000.0	998.9	998.6	996.9	1.8	1.9	-88.07	20.4	39.8	31.2	27.5	3.64	8.559		
1,100.0	1,098.4	1,098.4	1,096.1	2.0	2.1	-90.52	23.7	50.0	37.3	33.2	4.10	9.107		
1,200.0	1,197.9	1,198.2	1,195.3	2.3	2.4	-92.28	27.1	60.2	43.5	38.9	4.56	9.539		
1,300.0	1,297.3	1,298.0	1,294.6	2.5	2.6	-93.60	30.4	70.4	49.7	44.7	5.03	9.886		
1,400.0	1,396.8	1,397.8	1,393.8	2.8	2.9	-94.63	33.8	80.6	56.0	50.5	5.51	10.171		
1,500.0	1,496.3	1,497.6	1,493.0	3.0	3.1	-95.44	37.1	90.8	62.3	56.3	5.98	10.407		
1,600.0	1,595.8	1,597.4	1,592.2	3.2	3.4	-96.11	40.5	100.9	68.6	62.1	6.46	10.606		
1,700.0	1,695.3	1,697.2	1,691.5	3.5	3.6	-96.67	43.8	111.1	74.8	67.9	6.95	10.776		
1,800.0	1,794.7	1,797.0	1,790.7	3.7	3.9	-97.14	47.2	121.3	81.1	73.7	7.43	10.923		
1,900.0	1,894.2	1,896.8	1,889.9	4.0	4.1	-97.54	50.5	131.5	87.4	79.5	7.91	11.050		
2,000.0	1,993.7	1,996.6	1,989.1	4.2	4.4	-97.89	53.9	141.7	93.7	85.3	8.40	11.162		
2,100.0	2,093.2	2,096.4	2,088.3	4.5	4.6	-98.19	57.2	151.8	100.0	91.2	8.88	11.261		
2,200.0	2,192.7	2,196.2	2,187.6	4.7	4.9	-98.46	60.6	162.0	106.4	97.0	9.37	11.349		
2,300.0	2,292.1	2,296.0	2,286.8	5.0	5.1	-98.70	63.9	172.2	112.7	102.8	9.86	11.428		
2,400.0	2,391.6	2,395.8	2,386.0	5.2	5.4	-98.91	67.3	182.4	119.0	108.6	10.35	11.499		
2,500.0	2,491.1	2,495.6	2,485.2	5.4	5.6	-99.11	70.6	192.6	125.3	114.5	10.83	11.564		
2,600.0	2,590.6	2,595.4	2,584.5	5.7	5.9	-99.28	74.0	202.8	131.6	120.3	11.32	11.622		
2,700.0	2,690.0	2,695.2	2,683.7	5.9	6.2	-99.44	77.3	212.9	137.9	126.1	11.81	11.676		
2,800.0	2,789.5	2,795.0	2,782.9	6.2	6.4	-99.58	80.7	223.1	144.2	131.9	12.30	11.725		
2,900.0	2,889.0	2,894.8	2,882.1	6.4	6.7	-99.71	84.0	233.3	150.6	137.8	12.79	11.770		
3,000.0	2,988.5	2,994.6	2,981.4	6.7	6.9	-99.83	87.3	243.5	156.9	143.6	13.28	11.812		
3,100.0	3,088.0	3,094.4	3,080.6	6.9	7.2	-99.94	90.7	253.7	163.2	149.4	13.77	11.850		
3,200.0	3,187.4	3,194.2	3,179.8	7.2	7.4	-100.05	94.0	263.8	169.5	155.2	14.26	11.886		
3,300.0	3,286.9	3,294.0	3,279.0	7.4	7.7	-100.14	97.4	274.0	175.8	161.1	14.75	11.919		
3,400.0	3,386.4	3,393.8	3,378.2	7.7	7.9	-100.23	100.7	284.2	182.2	166.9	15.24	11.950		
3,500.0	3,485.9	3,493.6	3,477.5	7.9	8.2	-100.32	104.1	294.4	188.5	172.7	15.73	11.980		
3,600.0	3,585.4	3,593.4	3,576.7	8.2	8.5	-100.39	107.4	304.6	194.8	178.6	16.22	12.007		
3,700.0	3,684.8	3,693.2	3,675.9	8.4	8.7	-100.47	110.8	314.8	201.1	184.4	16.71	12.032		
3,800.0	3,784.3	3,793.0	3,775.1	8.7	9.0	-100.53	114.1	324.9	207.4	190.2	17.21	12.056		
3,900.0	3,883.8	3,892.8	3,874.4	8.9	9.2	-100.60	117.5	335.1	213.8	196.1	17.70	12.079		
4,000.0	3,983.3	3,992.6	3,973.6	9.2	9.5	-100.66	120.8	345.3	220.1	201.9	18.19	12.101		
4,100.0	4,082.8	4,092.4	4,072.8	9.4	9.7	-100.72	124.2	355.5	226.4	207.7	18.68	12.121		
4,200.0	4,182.2	4,192.2	4,172.0	9.7	10.0	-100.77	127.5	365.7	232.7	213.6	19.17	12.140		
4,300.0	4,281.7	4,292.0	4,271.2	9.9	10.2	-100.82	130.9	375.8	239.0	219.4	19.66	12.158		
4,400.0	4,381.2	4,391.8	4,370.5	10.2	10.5	-100.87	134.2	386.0	245.4	225.2	20.15	12.176		
4,500.0	4,480.7	4,491.6	4,469.7	10.4	10.8	-100.92	137.6	396.2	251.7	231.1	20.64	12.192		
4,600.0	4,580.2	4,591.4	4,568.9	10.7	11.0	-100.96	140.9	406.4	258.0	236.9	21.14	12.208		
4,700.0	4,679.6	4,691.2	4,668.1	10.9	11.3	-101.00	144.3	416.6	264.3	242.7	21.63	12.223		
4,800.0	4,779.1	4,791.0	4,767.4	11.2	11.5	-101.04	147.6	426.8	270.7	248.5	22.12	12.237		
4,900.0	4,878.6	4,890.8	4,866.6	11.4	11.8	-101.08	151.0	436.9	277.0	254.4	22.61	12.250		
5,000.0	4,978.1	4,990.6	4,965.8	11.7	12.0	-101.12	154.3	447.1	283.3	260.2	23.10	12.263		
5,100.0	5,077.5	5,090.4	5,065.0	11.9	12.3	-101.15	157.7	457.3	289.6	266.0	23.59	12.276		

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 4C-34H-P266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 4C-34H-P266	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 4B-34H-P266 - Hz - Plan #3												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	5,177.0	5,190.2	5,164.2	12.2	12.5	-101.19	161.0	467.5	296.0	271.9	24.09	12.288	
5,300.0	5,276.5	5,290.0	5,263.5	12.4	12.8	-101.22	164.4	477.7	302.3	277.7	24.58	12.299	
5,400.0	5,376.0	5,389.8	5,362.7	12.7	13.1	-101.25	167.7	487.8	308.6	283.5	25.07	12.310	
5,500.0	5,475.5	5,489.6	5,461.9	12.9	13.3	-101.28	171.1	498.0	314.9	289.4	25.56	12.321	
5,600.0	5,574.9	5,589.4	5,561.1	13.2	13.6	-101.31	174.4	508.2	321.3	295.2	26.05	12.331	
5,700.0	5,674.4	5,689.1	5,660.4	13.4	13.8	-101.33	177.7	518.4	327.6	301.0	26.55	12.341	
5,800.0	5,773.9	5,788.9	5,759.6	13.7	14.1	-101.36	181.1	528.6	333.9	306.9	27.04	12.350	
5,900.0	5,873.4	5,888.7	5,858.8	13.9	14.3	-101.38	184.4	538.8	340.2	312.7	27.53	12.359	
6,000.0	5,972.9	5,988.5	5,958.0	14.2	14.6	-101.41	187.8	548.9	346.6	318.5	28.02	12.368	
6,100.0	6,072.3	6,088.3	6,057.2	14.4	14.8	-101.43	191.1	559.1	352.9	324.4	28.51	12.376	
6,200.0	6,171.8	6,188.1	6,156.5	14.7	15.1	-101.45	194.5	569.3	359.2	330.2	29.01	12.384	
6,300.0	6,271.3	6,287.9	6,255.7	14.9	15.4	-101.48	197.8	579.5	365.5	336.0	29.50	12.392	
6,400.0	6,370.8	6,387.7	6,354.9	15.2	15.6	-101.50	201.2	589.7	371.9	341.9	29.99	12.400	
6,500.0	6,470.3	6,487.5	6,454.1	15.4	15.9	-101.52	204.5	599.8	378.2	347.7	30.48	12.407	
6,600.0	6,569.7	6,587.3	6,553.4	15.7	16.1	-101.54	207.9	610.0	384.5	353.5	30.97	12.414	
6,700.0	6,669.2	6,687.1	6,652.6	15.9	16.4	-101.56	211.2	620.2	390.8	359.4	31.47	12.421	
6,800.0	6,768.7	6,791.2	6,756.3	16.2	16.6	-102.33	214.7	625.6	396.8	364.9	31.89	12.442	
6,900.0	6,868.2	6,892.1	6,856.3	16.4	16.5	-105.51	218.1	613.4	402.0	369.9	32.13	12.514	
7,000.0	6,967.8	6,984.0	6,944.3	16.6	16.3	171.28	221.1	587.2	409.2	377.1	32.08	12.754	
7,100.0	7,067.3	7,070.8	7,022.5	16.6	16.0	90.90	223.7	549.8	419.2	387.5	31.63	13.251	
7,200.0	7,163.6	7,153.9	7,091.3	16.4	15.6	81.59	226.0	503.4	431.1	400.2	30.87	13.966	
7,300.0	7,254.0	7,234.2	7,150.6	16.0	15.2	75.93	228.0	449.6	443.9	414.0	29.88	14.856	
7,400.0	7,335.6	7,312.1	7,200.6	15.6	14.8	71.67	229.7	389.8	456.6	427.8	28.81	15.850	
7,500.0	7,406.0	7,388.3	7,241.1	15.2	14.6	68.34	231.1	325.4	468.3	440.5	27.82	16.836	
7,600.0	7,463.0	7,463.1	7,272.3	14.8	14.4	65.81	232.1	257.4	478.4	451.3	27.11	17.643	
7,700.0	7,505.0	7,537.0	7,294.1	14.6	14.4	63.99	232.9	186.9	486.1	459.3	26.90	18.074	
7,800.0	7,530.6	7,610.3	7,306.7	14.8	14.7	62.84	233.3	114.8	491.3	463.9	27.32	17.984	
7,900.0	7,539.0	7,687.2	7,310.0	15.6	14.7	62.35	233.4	38.0	493.4	465.4	27.96	17.646	
8,000.0	7,539.0	7,787.2	7,310.0	16.7	14.5	62.35	233.4	-62.0	493.4	464.7	28.66	17.218	
8,100.0	7,539.0	7,887.2	7,310.0	18.1	14.8	62.35	233.4	-162.0	493.4	463.5	29.93	16.487	
8,200.0	7,539.0	7,987.2	7,310.0	19.7	15.3	62.35	233.4	-262.0	493.4	461.7	31.73	15.548	
8,300.0	7,539.0	8,087.2	7,310.0	21.5	16.1	62.35	233.4	-362.0	493.4	459.4	34.01	14.508	
8,400.0	7,539.0	8,187.2	7,310.0	23.4	17.2	62.35	233.4	-462.0	493.4	456.7	36.68	13.453	
8,500.0	7,539.0	8,287.2	7,310.0	25.4	18.5	62.35	233.4	-562.0	493.4	453.7	39.66	12.441	
8,600.0	7,539.0	8,387.2	7,310.0	27.4	20.1	62.35	233.4	-662.0	493.4	450.5	42.90	11.502	
8,700.0	7,539.0	8,487.2	7,310.0	29.6	21.8	62.35	233.4	-762.0	493.4	447.1	46.33	10.649	
8,800.0	7,539.0	8,587.2	7,310.0	31.7	23.7	62.35	233.4	-862.0	493.4	443.5	49.92	9.883	
8,900.0	7,539.0	8,687.2	7,310.0	34.0	25.7	62.35	233.4	-962.0	493.4	439.8	53.64	9.198	
9,000.0	7,539.0	8,787.2	7,310.0	36.2	27.8	62.35	233.4	-1,062.0	493.4	436.0	57.46	8.588	
9,100.0	7,539.0	8,887.2	7,310.0	38.5	29.9	62.35	233.4	-1,162.0	493.4	432.1	61.35	8.042	
9,200.0	7,539.0	8,987.2	7,310.0	40.8	32.1	62.35	233.4	-1,262.0	493.4	428.1	65.31	7.555	
9,300.0	7,539.0	9,087.2	7,310.0	43.1	34.3	62.35	233.4	-1,362.0	493.4	424.1	69.32	7.117	
9,400.0	7,539.0	9,187.2	7,310.0	45.4	36.5	62.35	233.4	-1,462.0	493.4	420.0	73.38	6.724	
9,500.0	7,539.0	9,287.2	7,310.0	47.8	38.8	62.35	233.4	-1,562.0	493.4	415.9	77.48	6.368	
9,600.0	7,539.0	9,387.2	7,310.0	50.2	41.1	62.35	233.4	-1,662.0	493.4	411.8	81.60	6.046	
9,700.0	7,539.0	9,487.2	7,310.0	52.5	43.4	62.35	233.4	-1,762.0	493.4	407.6	85.76	5.754	
9,800.0	7,539.0	9,587.2	7,310.0	54.9	45.8	62.35	233.4	-1,862.0	493.4	403.5	89.93	5.486	
9,900.0	7,539.0	9,687.2	7,310.0	57.3	48.1	62.35	233.4	-1,962.0	493.4	399.3	94.13	5.242	
10,000.0	7,539.0	9,787.2	7,310.0	59.7	50.5	62.35	233.4	-2,062.0	493.4	395.1	98.34	5.017	
10,100.0	7,539.0	9,887.2	7,310.0	62.1	52.9	62.35	233.4	-2,162.0	493.4	390.8	102.57	4.811	
10,200.0	7,539.0	9,987.2	7,310.0	64.5	55.3	62.35	233.4	-2,262.0	493.4	386.6	106.81	4.620	
10,300.0	7,539.0	10,087.2	7,310.0	66.9	57.7	62.35	233.4	-2,362.0	493.4	382.3	111.06	4.443	

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 4C-34H-P266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 4C-34H-P266	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 #2	Offset TVD Reference:	Offset Datum

Offset Design											S34-T2N-R66W (McConahay) - McConahay 4B-34H-P266 - Hz - Plan #3		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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
10,400.0	7,539.0	10,187.2	7,310.0	69.3	60.0	62.35	233.4	-2,462.0	493.4	378.1	115.32	4.278			
10,500.0	7,539.0	10,287.2	7,310.0	71.8	62.5	62.35	233.4	-2,562.0	493.4	373.8	119.60	4.126			
10,600.0	7,539.0	10,387.2	7,310.0	74.2	64.9	62.35	233.4	-2,662.0	493.4	369.5	123.88	3.983			
10,700.0	7,539.0	10,487.2	7,310.0	76.6	67.3	62.35	233.4	-2,762.0	493.4	365.2	128.16	3.850			
10,800.0	7,539.0	10,587.2	7,310.0	79.0	69.7	62.35	233.4	-2,862.0	493.4	360.9	132.46	3.725			
10,900.0	7,539.0	10,687.2	7,310.0	81.5	72.1	62.35	233.4	-2,962.0	493.4	356.6	136.76	3.608			
11,000.0	7,539.0	10,787.2	7,310.0	83.9	74.5	62.35	233.4	-3,062.0	493.4	352.3	141.06	3.498			
11,100.0	7,539.0	10,887.2	7,310.0	86.3	77.0	62.35	233.4	-3,162.0	493.4	348.0	145.37	3.394			
11,200.0	7,539.0	10,987.2	7,310.0	88.8	79.4	62.35	233.4	-3,262.0	493.4	343.7	149.69	3.296			
11,300.0	7,539.0	11,087.2	7,310.0	91.2	81.8	62.35	233.4	-3,362.0	493.4	339.4	154.01	3.204			
11,400.0	7,539.0	11,187.2	7,310.0	93.7	84.3	62.35	233.4	-3,462.0	493.4	335.1	158.33	3.116			
11,500.0	7,539.0	11,287.2	7,310.0	96.1	86.7	62.35	233.4	-3,562.0	493.4	330.8	162.65	3.033			
11,600.0	7,539.0	11,387.2	7,310.0	98.6	89.1	62.35	233.4	-3,662.0	493.4	326.4	166.98	2.955			
11,700.0	7,539.0	11,487.2	7,310.0	101.0	91.6	62.35	233.4	-3,762.0	493.4	322.1	171.32	2.880			
11,764.8	7,539.0	11,552.0	7,310.0	102.6	93.2	62.35	233.4	-3,826.8	493.4	319.3	174.13	2.834			
11,800.0	7,539.0	11,572.2	7,310.0	103.5	93.7	62.35	233.4	-3,847.0	493.6	318.3	175.33	2.815 SF			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 4C-34H-P266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 4C-34H-P266	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - SEYMOUR 34-34 (EXISTING) - ENCANA WELL - NO SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 8160-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	
8,800.0	7,539.0	7,483.0	7,483.0	31.7	13.1	90.00	-15.6	-1,294.9	471.9	427.2	44.70	10.556	
8,900.0	7,539.0	7,483.0	7,483.0	34.0	13.1	90.00	-15.6	-1,294.9	382.3	335.3	46.93	8.146	
9,000.0	7,539.0	7,483.0	7,483.0	36.2	13.1	90.00	-15.6	-1,294.9	299.3	250.1	49.18	6.085	
9,100.0	7,539.0	7,483.0	7,483.0	38.5	13.1	90.00	-15.6	-1,294.9	230.2	178.7	51.46	4.473	
9,200.0	7,539.0	7,483.0	7,483.0	40.8	13.1	90.00	-15.6	-1,294.9	190.9	137.1	53.77	3.550	
9,232.8	7,539.0	7,483.0	7,483.0	41.5	13.1	90.00	-15.6	-1,294.9	188.0	133.5	54.53	3.448	CC, ES, SF
9,300.0	7,539.0	7,483.0	7,483.0	43.1	13.1	90.00	-15.6	-1,294.9	199.6	143.6	56.09	3.559	
9,400.0	7,539.0	7,483.0	7,483.0	45.4	13.1	90.00	-15.6	-1,294.9	251.6	193.1	58.43	4.305	
9,500.0	7,539.0	7,483.0	7,483.0	47.8	13.1	90.00	-15.6	-1,294.9	326.7	265.9	60.78	5.374	
9,600.0	7,539.0	7,483.0	7,483.0	50.2	13.1	90.00	-15.6	-1,294.9	412.5	349.3	63.15	6.532	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 4C-34H-P266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5101.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5101.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 4C-34H-P266	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 #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5101.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: McConahay 4C-34H-P266
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.48°

