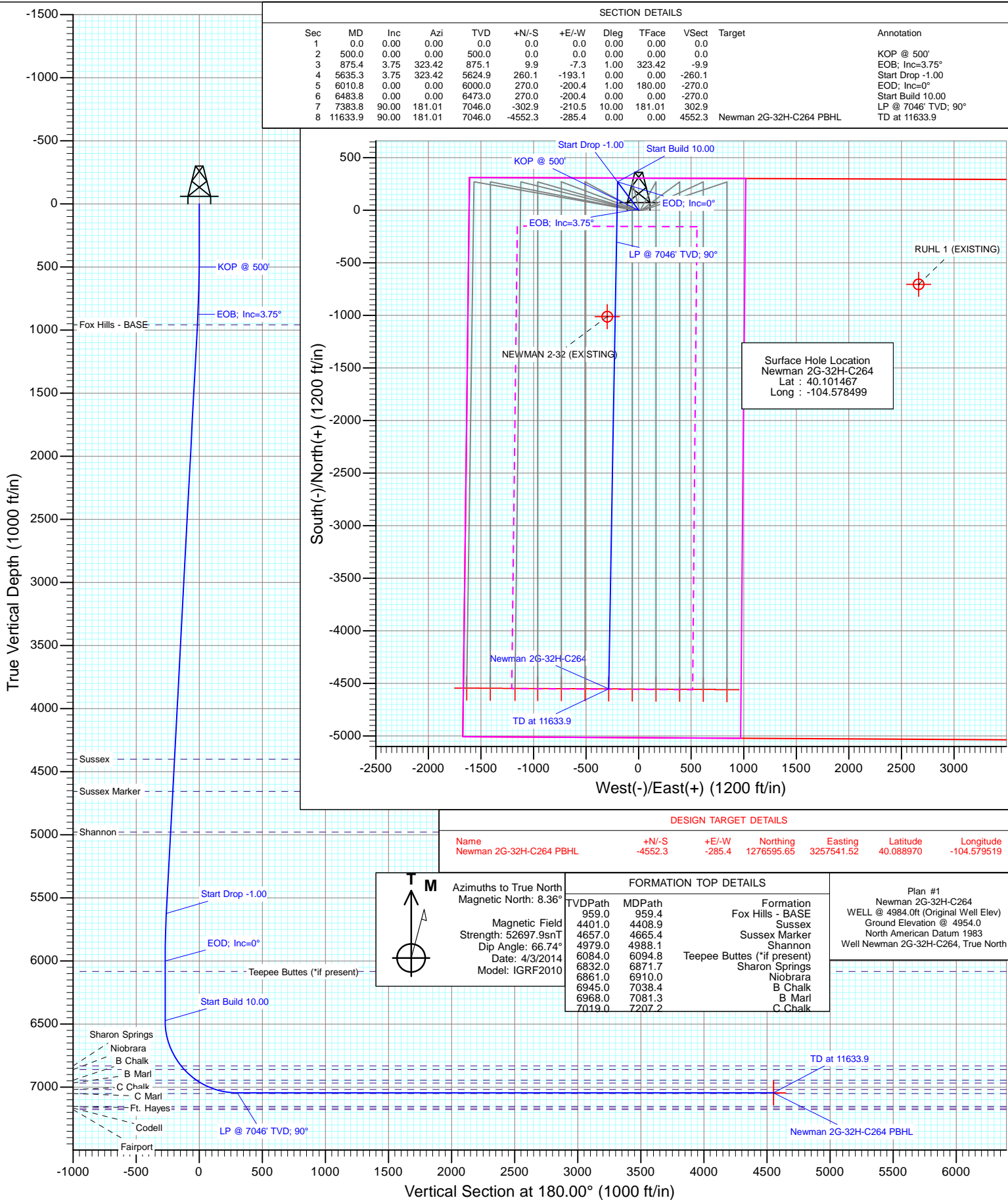




Project: DJ Wattenberg
Site: S32-T2N-R64W (Newman)
Well: Newman 2G-32H-C264
Wellbore: HZ
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Project	DJ Wattenberg		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	S32-T2N-R64W (Newman)				
Site Position:		Northing:	1,281,150.66 ft	Latitude:	40.101468
From:	Lat/Long	Easting:	3,257,734.55 ft	Longitude:	-104.578660
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.60 °

Well	Newman 2G-32H-C264					
Well Position	+N/-S	0.0 ft	Northing:	1,281,150.70 ft	Latitude:	40.101467
	+E/-W	0.0 ft	Easting:	3,257,779.59 ft	Longitude:	-104.578499
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,954.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/3/2014	8.36	66.74	52,698

Design	Plan #1				
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	180.00	

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
875.4	3.75	323.42	875.1	9.9	-7.3	1.00	1.00	0.00	323.42	
5,635.3	3.75	323.42	5,624.9	260.1	-193.1	0.00	0.00	0.00	0.00	
6,010.8	0.00	0.00	6,000.0	270.0	-200.4	1.00	-1.00	0.00	180.00	
6,483.8	0.00	0.00	6,473.0	270.0	-200.4	0.00	0.00	0.00	0.00	
7,383.8	90.00	181.01	7,046.0	-302.9	-210.5	10.00	10.00	0.00	181.01	
11,633.9	90.00	181.01	7,046.0	-4,552.3	-285.4	0.00	0.00	0.00	0.00	Newman 2G-32H-C264

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
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	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	323.42	600.0	0.7	-0.5	-0.7	1.00	1.00	
700.0	2.00	323.42	700.0	2.8	-2.1	-2.8	1.00	1.00	
800.0	3.00	323.42	799.9	6.3	-4.7	-6.3	1.00	1.00	
875.4	3.75	323.42	875.1	9.9	-7.3	-9.9	1.00	1.00	EOB; Inc=3.75°
900.0	3.75	323.42	899.7	11.2	-8.3	-11.2	0.00	0.00	
959.4	3.75	323.42	959.0	14.3	-10.6	-14.3	0.00	0.00	Fox Hills - BASE
1,000.0	3.75	323.42	999.5	16.4	-12.2	-16.4	0.00	0.00	
1,100.0	3.75	323.42	1,099.2	21.7	-16.1	-21.7	0.00	0.00	
1,200.0	3.75	323.42	1,199.0	26.9	-20.0	-26.9	0.00	0.00	
1,300.0	3.75	323.42	1,298.8	32.2	-23.9	-32.2	0.00	0.00	
1,400.0	3.75	323.42	1,398.6	37.5	-27.8	-37.5	0.00	0.00	
1,500.0	3.75	323.42	1,498.4	42.7	-31.7	-42.7	0.00	0.00	
1,600.0	3.75	323.42	1,598.2	48.0	-35.6	-48.0	0.00	0.00	
1,700.0	3.75	323.42	1,698.0	53.2	-39.5	-53.2	0.00	0.00	
1,800.0	3.75	323.42	1,797.7	58.5	-43.4	-58.5	0.00	0.00	
1,900.0	3.75	323.42	1,897.5	63.7	-47.3	-63.7	0.00	0.00	
2,000.0	3.75	323.42	1,997.3	69.0	-51.2	-69.0	0.00	0.00	
2,100.0	3.75	323.42	2,097.1	74.3	-55.1	-74.3	0.00	0.00	
2,200.0	3.75	323.42	2,196.9	79.5	-59.0	-79.5	0.00	0.00	
2,300.0	3.75	323.42	2,296.7	84.8	-62.9	-84.8	0.00	0.00	
2,400.0	3.75	323.42	2,396.5	90.0	-66.8	-90.0	0.00	0.00	
2,500.0	3.75	323.42	2,496.2	95.3	-70.7	-95.3	0.00	0.00	
2,600.0	3.75	323.42	2,596.0	100.5	-74.6	-100.5	0.00	0.00	
2,700.0	3.75	323.42	2,695.8	105.8	-78.5	-105.8	0.00	0.00	
2,800.0	3.75	323.42	2,795.6	111.1	-82.4	-111.1	0.00	0.00	
2,900.0	3.75	323.42	2,895.4	116.3	-86.3	-116.3	0.00	0.00	
3,000.0	3.75	323.42	2,995.2	121.6	-90.2	-121.6	0.00	0.00	
3,100.0	3.75	323.42	3,095.0	126.8	-94.1	-126.8	0.00	0.00	
3,200.0	3.75	323.42	3,194.7	132.1	-98.0	-132.1	0.00	0.00	
3,300.0	3.75	323.42	3,294.5	137.3	-101.9	-137.3	0.00	0.00	
3,400.0	3.75	323.42	3,394.3	142.6	-105.8	-142.6	0.00	0.00	
3,500.0	3.75	323.42	3,494.1	147.9	-109.7	-147.9	0.00	0.00	
3,600.0	3.75	323.42	3,593.9	153.1	-113.6	-153.1	0.00	0.00	
3,700.0	3.75	323.42	3,693.7	158.4	-117.6	-158.4	0.00	0.00	
3,800.0	3.75	323.42	3,793.5	163.6	-121.5	-163.6	0.00	0.00	
3,900.0	3.75	323.42	3,893.2	168.9	-125.4	-168.9	0.00	0.00	
4,000.0	3.75	323.42	3,993.0	174.1	-129.3	-174.1	0.00	0.00	
4,100.0	3.75	323.42	4,092.8	179.4	-133.2	-179.4	0.00	0.00	
4,200.0	3.75	323.42	4,192.6	184.7	-137.1	-184.7	0.00	0.00	
4,300.0	3.75	323.42	4,292.4	189.9	-141.0	-189.9	0.00	0.00	
4,400.0	3.75	323.42	4,392.2	195.2	-144.9	-195.2	0.00	0.00	
4,408.9	3.75	323.42	4,401.0	195.6	-145.2	-195.6	0.00	0.00	Sussex
4,500.0	3.75	323.42	4,492.0	200.4	-148.8	-200.4	0.00	0.00	
4,600.0	3.75	323.42	4,591.7	205.7	-152.7	-205.7	0.00	0.00	
4,665.4	3.75	323.42	4,657.0	209.1	-155.2	-209.1	0.00	0.00	Sussex Marker
4,700.0	3.75	323.42	4,691.5	211.0	-156.6	-211.0	0.00	0.00	

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	3.75	323.42	4,791.3	216.2	-160.5	-216.2	0.00	0.00	
4,900.0	3.75	323.42	4,891.1	221.5	-164.4	-221.5	0.00	0.00	
4,988.1	3.75	323.42	4,979.0	226.1	-167.8	-226.1	0.00	0.00	Shannon
5,000.0	3.75	323.42	4,990.9	226.7	-168.3	-226.7	0.00	0.00	
5,100.0	3.75	323.42	5,090.7	232.0	-172.2	-232.0	0.00	0.00	
5,200.0	3.75	323.42	5,190.5	237.2	-176.1	-237.2	0.00	0.00	
5,300.0	3.75	323.42	5,290.2	242.5	-180.0	-242.5	0.00	0.00	
5,400.0	3.75	323.42	5,390.0	247.8	-183.9	-247.8	0.00	0.00	
5,500.0	3.75	323.42	5,489.8	253.0	-187.8	-253.0	0.00	0.00	
5,600.0	3.75	323.42	5,589.6	258.3	-191.7	-258.3	0.00	0.00	
5,635.3	3.75	323.42	5,624.9	260.1	-193.1	-260.1	0.00	0.00	Start Drop -1.00
5,700.0	3.11	323.42	5,689.4	263.2	-195.4	-263.2	1.00	-1.00	
5,800.0	2.11	323.42	5,789.3	266.9	-198.1	-266.9	1.00	-1.00	
5,900.0	1.11	323.42	5,889.3	269.1	-199.8	-269.1	1.00	-1.00	
6,000.0	0.11	323.42	5,989.2	270.0	-200.4	-270.0	1.00	-1.00	
6,010.8	0.00	0.00	6,000.0	270.0	-200.4	-270.0	1.00	-1.00	EOD; Inc=0°
6,094.8	0.00	0.00	6,084.0	270.0	-200.4	-270.0	0.00	0.00	Teepee Buttes (*if present)
6,100.0	0.00	0.00	6,089.2	270.0	-200.4	-270.0	0.00	0.00	
6,200.0	0.00	0.00	6,189.2	270.0	-200.4	-270.0	0.00	0.00	
6,300.0	0.00	0.00	6,289.2	270.0	-200.4	-270.0	0.00	0.00	
6,400.0	0.00	0.00	6,389.2	270.0	-200.4	-270.0	0.00	0.00	
6,483.8	0.00	0.00	6,473.0	270.0	-200.4	-270.0	0.00	0.00	Start Build 10.00
6,500.0	1.62	181.01	6,489.2	269.8	-200.4	-269.8	10.00	10.00	
6,600.0	11.62	181.01	6,588.5	258.3	-200.6	-258.3	10.00	10.00	
6,700.0	21.62	181.01	6,684.2	229.7	-201.1	-229.7	10.00	10.00	
6,800.0	31.62	181.01	6,773.4	185.0	-201.9	-185.0	10.00	10.00	
6,871.7	38.79	181.01	6,832.0	143.6	-202.6	-143.6	10.00	10.00	Sharon Springs
6,900.0	41.62	181.01	6,853.6	125.4	-202.9	-125.4	10.00	10.00	
6,910.0	42.62	181.01	6,861.0	118.7	-203.1	-118.7	10.00	10.00	Niobrara
7,000.0	51.62	181.01	6,922.2	52.8	-204.2	-52.8	10.00	10.00	
7,038.4	55.46	181.01	6,945.0	21.9	-204.8	-21.9	10.00	10.00	B Chalk
7,081.3	59.75	181.01	6,968.0	-14.3	-205.4	14.3	10.00	10.00	B Marl
7,100.0	61.62	181.01	6,977.1	-30.6	-205.7	30.6	10.00	10.00	
7,200.0	71.62	181.01	7,016.8	-122.2	-207.3	122.2	10.00	10.00	
7,207.2	72.34	181.01	7,019.0	-129.1	-207.4	129.1	10.00	10.00	C Chalk
7,300.0	81.62	181.01	7,039.9	-219.4	-209.0	219.4	10.00	10.00	
7,383.8	90.00	181.01	7,046.0	-302.9	-210.5	302.9	10.00	10.00	LP @ 7046' TVD; 90°
7,400.0	90.00	181.01	7,046.0	-319.1	-210.8	319.1	0.00	0.00	
7,500.0	90.00	181.01	7,046.0	-419.1	-212.5	419.1	0.00	0.00	
7,600.0	90.00	181.01	7,046.0	-519.0	-214.3	519.0	0.00	0.00	
7,700.0	90.00	181.01	7,046.0	-619.0	-216.1	619.0	0.00	0.00	
7,800.0	90.00	181.01	7,046.0	-719.0	-217.8	719.0	0.00	0.00	
7,900.0	90.00	181.01	7,046.0	-819.0	-219.6	819.0	0.00	0.00	
8,000.0	90.00	181.01	7,046.0	-919.0	-221.4	919.0	0.00	0.00	
8,100.0	90.00	181.01	7,046.0	-1,019.0	-223.1	1,019.0	0.00	0.00	
8,200.0	90.00	181.01	7,046.0	-1,118.9	-224.9	1,118.9	0.00	0.00	
8,300.0	90.00	181.01	7,046.0	-1,218.9	-226.6	1,218.9	0.00	0.00	
8,400.0	90.00	181.01	7,046.0	-1,318.9	-228.4	1,318.9	0.00	0.00	
8,500.0	90.00	181.01	7,046.0	-1,418.9	-230.2	1,418.9	0.00	0.00	
8,600.0	90.00	181.01	7,046.0	-1,518.9	-231.9	1,518.9	0.00	0.00	
8,700.0	90.00	181.01	7,046.0	-1,618.9	-233.7	1,618.9	0.00	0.00	
8,800.0	90.00	181.01	7,046.0	-1,718.9	-235.4	1,718.9	0.00	0.00	

Planning Report

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Project:	DJ Wattenberg	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,900.0	90.00	181.01	7,046.0	-1,818.8	-237.2	1,818.8	0.00	0.00	
9,000.0	90.00	181.01	7,046.0	-1,918.8	-239.0	1,918.8	0.00	0.00	
9,100.0	90.00	181.01	7,046.0	-2,018.8	-240.7	2,018.8	0.00	0.00	
9,200.0	90.00	181.01	7,046.0	-2,118.8	-242.5	2,118.8	0.00	0.00	
9,300.0	90.00	181.01	7,046.0	-2,218.8	-244.3	2,218.8	0.00	0.00	
9,400.0	90.00	181.01	7,046.0	-2,318.8	-246.0	2,318.8	0.00	0.00	
9,500.0	90.00	181.01	7,046.0	-2,418.7	-247.8	2,418.7	0.00	0.00	
9,600.0	90.00	181.01	7,046.0	-2,518.7	-249.5	2,518.7	0.00	0.00	
9,700.0	90.00	181.01	7,046.0	-2,618.7	-251.3	2,618.7	0.00	0.00	
9,800.0	90.00	181.01	7,046.0	-2,718.7	-253.1	2,718.7	0.00	0.00	
9,900.0	90.00	181.01	7,046.0	-2,818.7	-254.8	2,818.7	0.00	0.00	
10,000.0	90.00	181.01	7,046.0	-2,918.7	-256.6	2,918.7	0.00	0.00	
10,100.0	90.00	181.01	7,046.0	-3,018.7	-258.4	3,018.7	0.00	0.00	
10,200.0	90.00	181.01	7,046.0	-3,118.6	-260.1	3,118.6	0.00	0.00	
10,300.0	90.00	181.01	7,046.0	-3,218.6	-261.9	3,218.6	0.00	0.00	
10,400.0	90.00	181.01	7,046.0	-3,318.6	-263.6	3,318.6	0.00	0.00	
10,500.0	90.00	181.01	7,046.0	-3,418.6	-265.4	3,418.6	0.00	0.00	
10,600.0	90.00	181.01	7,046.0	-3,518.6	-267.2	3,518.6	0.00	0.00	
10,700.0	90.00	181.01	7,046.0	-3,618.6	-268.9	3,618.6	0.00	0.00	
10,800.0	90.00	181.01	7,046.0	-3,718.5	-270.7	3,718.5	0.00	0.00	
10,900.0	90.00	181.01	7,046.0	-3,818.5	-272.5	3,818.5	0.00	0.00	
11,000.0	90.00	181.01	7,046.0	-3,918.5	-274.2	3,918.5	0.00	0.00	
11,100.0	90.00	181.01	7,046.0	-4,018.5	-276.0	4,018.5	0.00	0.00	
11,200.0	90.00	181.01	7,046.0	-4,118.5	-277.7	4,118.5	0.00	0.00	
11,300.0	90.00	181.01	7,046.0	-4,218.5	-279.5	4,218.5	0.00	0.00	
11,400.0	90.00	181.01	7,046.0	-4,318.5	-281.3	4,318.5	0.00	0.00	
11,500.0	90.00	181.01	7,046.0	-4,418.4	-283.0	4,418.4	0.00	0.00	
11,600.0	90.00	181.01	7,046.0	-4,518.4	-284.8	4,518.4	0.00	0.00	
11,633.9	90.00	181.01	7,046.0	-4,552.3	-285.4	4,552.3	0.00	0.00	TD at 11633.9

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Newman 2G-32H-C264	0.00	0.00	7,046.0	-4,552.3	-285.4	1,276,595.65	3,257,541.52	40.088970	-104.579519
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
959.4	959.0	Fox Hills - BASE				
4,408.9	4,401.0	Sussex				
4,665.4	4,657.0	Sussex Marker				
4,988.1	4,979.0	Shannon				
6,094.8	6,084.0	Teepee Buttes (*if present)				
6,871.7	6,832.0	Sharon Springs				
6,910.0	6,861.0	Niobrara				
7,038.4	6,945.0	B Chalk				
7,081.3	6,968.0	B Marl				
7,207.2	7,019.0	C Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
500.0	500.0	0.0	0.0	KOP @ 500'	
875.4	875.1	9.9	-7.3	EOB; Inc=3.75°	
5,635.3	5,624.9	260.1	-193.1	Start Drop -1.00	
6,010.8	6,000.0	270.0	-200.4	EOD; Inc=0°	
6,483.8	6,473.0	270.0	-200.4	Start Build 10.00	
7,383.8	7,046.0	-302.9	-210.5	LP @ 7046' TVD; 90°	
11,633.9	7,046.0	-4,552.3	-285.4	TD at 11633.9	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R64W (Newman)

Newman 2G-32H-C264

HZ

Plan #1

Anticollision Report

04 April, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	4/4/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,633.9	Plan #1 (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						
S32-T2N-R64W (Newman)						
NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WE	8,094.6	6,995.0	75.5	40.3	2.144	CC, ES, SF
Newman 2A-32H-C264 - HZ - Plan #1	200.0	198.0	45.0	44.4	76.348	CC, ES
Newman 2A-32H-C264 - HZ - Plan #1	600.0	589.6	71.3	69.4	36.139	SF
Newman 2B-32H-C264 - HZ - Plan #1	234.7	233.7	37.5	36.8	52.604	CC, ES
Newman 2B-32H-C264 - HZ - Plan #1	600.0	593.0	57.6	55.6	29.102	SF
Newman 2C-32H-C264 - HZ - Plan #1	300.0	299.0	29.9	29.0	31.818	CC, ES
Newman 2C-32H-C264 - HZ - Plan #1	11,633.9	11,876.5	899.5	735.9	5.500	SF
Newman 2D-32H-C264 - HZ - Plan #1	334.7	333.7	22.4	21.3	21.077	CC, ES
Newman 2D-32H-C264 - HZ - Plan #1	11,633.9	11,707.0	674.9	509.7	4.087	SF
Newman 2E-32H-C264 - HZ - Plan #1	400.0	399.0	14.8	13.5	11.495	CC, ES
Newman 2E-32H-C264 - HZ - Plan #1	11,633.9	11,586.8	459.0	297.1	2.834	SF
Newman 2F-32H-C264 - HZ - Plan #1	433.6	433.6	7.6	6.1	5.362	CC
Newman 2F-32H-C264 - HZ - Plan #1	500.0	499.9	7.7	6.1	4.722	ES
Newman 2F-32H-C264 - HZ - Plan #1	11,633.9	11,783.1	259.8	115.8	1.804	SF
Newman 2H-32H-C264 - HZ - Plan #1	531.1	531.1	7.5	5.7	4.266	CC
Newman 2H-32H-C264 - HZ - Plan #1	600.0	600.0	7.6	5.7	3.839	ES
Newman 2H-32H-C264 - HZ - Plan #1	11,633.9	11,538.3	242.7	89.3	1.582	SF
Newman 2I-32H-C264 - HZ - Plan #1	366.3	367.3	15.1	13.9	12.851	CC
Newman 2I-32H-C264 - HZ - Plan #1	400.0	401.0	15.1	13.8	11.683	ES
Newman 2I-32H-C264 - HZ - Plan #1	11,633.9	11,761.9	468.6	309.8	2.952	SF
Newman 2J-32H-C264 - HZ - Plan #1	332.1	333.1	22.7	21.6	21.452	CC
Newman 2J-32H-C264 - HZ - Plan #1	400.0	400.8	22.8	21.5	17.665	ES
Newman 2J-32H-C264 - HZ - Plan #1	11,633.9	11,642.6	675.1	510.4	4.097	SF
Newman 2K-32H-C264 - HZ - Plan #1	266.3	267.3	29.9	29.1	36.209	CC
Newman 2K-32H-C264 - HZ - Plan #1	300.0	301.0	29.9	29.0	31.702	ES
Newman 2K-32H-C264 - HZ - Plan #1	11,633.9	11,571.7	904.7	740.8	5.520	SF
Newman 2L-32H-C264 - HZ - Plan #1	232.0	233.0	37.5	36.8	53.039	CC
Newman 2L-32H-C264 - HZ - Plan #1	300.0	300.7	37.7	36.8	39.952	ES
Newman 2L-32H-C264 - HZ - Plan #1	700.0	697.2	56.3	54.0	24.054	SF
RUHL 1 (EXISTING) - EXISTING - ENCANA WELL						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 7893-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
7,100.0	6,977.1	6,926.1	6,926.1	12.9	12.1	9.18	-1,012.3	-298.5	986.1	968.6	17.49	56.366		
7,200.0	7,016.8	6,965.8	6,965.8	13.3	12.2	15.03	-1,012.3	-298.5	894.7	878.0	16.69	53.610		
7,300.0	7,039.9	6,988.9	6,988.9	13.9	12.2	33.11	-1,012.3	-298.5	797.9	779.0	18.89	42.233		
7,400.0	7,046.0	6,995.0	6,995.0	14.7	12.2	90.00	-1,012.3	-298.5	698.7	672.3	26.42	26.444		
7,500.0	7,046.0	6,995.0	6,995.0	15.6	12.2	90.00	-1,012.3	-298.5	599.4	572.0	27.40	21.878		
7,600.0	7,046.0	6,995.0	6,995.0	16.7	12.2	90.00	-1,012.3	-298.5	500.4	471.9	28.51	17.554		
7,700.0	7,046.0	6,995.0	6,995.0	17.9	12.2	90.00	-1,012.3	-298.5	401.8	372.1	29.72	13.520		
7,800.0	7,046.0	6,995.0	6,995.0	19.1	12.2	90.00	-1,012.3	-298.5	304.2	273.1	31.02	9.806		
7,900.0	7,046.0	6,995.0	6,995.0	20.5	12.2	90.00	-1,012.3	-298.5	208.8	176.4	32.38	6.447		
8,000.0	7,046.0	6,995.0	6,995.0	21.9	12.2	90.00	-1,012.3	-298.5	121.1	87.2	33.81	3.581		
8,094.6	7,046.0	6,995.0	6,995.0	23.3	12.2	90.00	-1,012.3	-298.5	75.5	40.3	35.20	2.144	CC, ES, SF	
8,100.0	7,046.0	6,995.0	6,995.0	23.3	12.2	90.00	-1,012.3	-298.5	75.7	40.4	35.28	2.145		
8,200.0	7,046.0	6,995.0	6,995.0	24.8	12.2	90.00	-1,012.3	-298.5	129.6	92.8	36.78	3.523		
8,300.0	7,046.0	6,995.0	6,995.0	26.4	12.2	90.00	-1,012.3	-298.5	218.8	180.5	38.32	5.709		
8,400.0	7,046.0	6,995.0	6,995.0	27.9	12.2	90.00	-1,012.3	-298.5	314.5	274.7	39.88	7.886		
8,500.0	7,046.0	6,995.0	6,995.0	29.5	12.2	90.00	-1,012.3	-298.5	412.3	370.9	41.47	9.943		
8,600.0	7,046.0	6,995.0	6,995.0	31.1	12.2	90.00	-1,012.3	-298.5	511.0	467.9	43.07	11.863		
8,700.0	7,046.0	6,995.0	6,995.0	32.7	12.2	90.00	-1,012.3	-298.5	610.0	565.4	44.69	13.650		
8,800.0	7,046.0	6,995.0	6,995.0	34.3	12.2	90.00	-1,012.3	-298.5	709.4	663.1	46.32	15.313		
8,900.0	7,046.0	6,995.0	6,995.0	35.9	12.2	90.00	-1,012.3	-298.5	808.9	760.9	47.97	16.863		
9,000.0	7,046.0	6,995.0	6,995.0	37.6	12.2	90.00	-1,012.3	-298.5	908.5	858.9	49.62	18.308		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2A-32H-C264 - HZ - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-89.47	0.4	-45.0	45.1						
100.0	100.0	98.0	98.0	0.1	0.1	-89.47	0.4	-45.0	45.0	44.8	0.24	186.189			
200.0	200.0	198.0	198.0	0.3	0.3	-89.47	0.4	-45.0	45.0	44.4	0.59	76.348 CC, ES			
300.0	300.0	296.5	296.4	0.5	0.5	-89.14	0.7	-46.6	46.7	45.7	0.94	49.798			
400.0	400.0	394.7	394.5	0.6	0.7	-88.25	1.6	-51.5	51.7	50.4	1.29	40.136			
500.0	500.0	492.4	491.9	0.8	0.9	-87.10	3.0	-59.7	60.1	58.5	1.65	36.516			
600.0	600.0	589.6	588.4	1.0	1.1	-49.80	5.0	-71.1	71.3	69.4	1.97	36.139 SF			
700.0	700.0	686.1	683.7	1.2	1.4	-49.88	7.6	-85.5	84.8	82.5	2.32	36.533			
800.0	799.9	781.8	777.8	1.4	1.8	-50.42	10.7	-103.0	100.4	97.8	2.67	37.585			
900.0	899.7	876.6	870.3	1.5	2.2	-51.21	14.3	-123.3	118.3	115.3	3.03	39.031			
1,000.0	999.5	970.2	961.0	1.7	2.6	-51.82	18.4	-146.4	139.1	135.7	3.39	40.978			
1,100.0	1,099.2	1,062.5	1,049.5	1.9	3.1	-52.10	22.9	-171.9	163.0	159.2	3.76	43.372			
1,200.0	1,199.0	1,158.7	1,141.3	2.1	3.7	-52.23	28.0	-200.2	188.7	184.5	4.13	45.677			
1,300.0	1,298.8	1,255.3	1,233.5	2.3	4.2	-52.32	33.0	-228.7	214.4	209.9	4.51	47.573			
1,400.0	1,398.6	1,352.0	1,325.7	2.5	4.7	-52.40	38.1	-257.2	240.1	235.2	4.88	49.163			
1,500.0	1,498.4	1,448.6	1,417.9	2.7	5.3	-52.46	43.2	-285.7	265.8	260.6	5.26	50.513			
1,600.0	1,598.2	1,545.2	1,510.1	3.0	5.8	-52.51	48.2	-314.2	291.5	285.9	5.64	51.673			
1,700.0	1,698.0	1,641.9	1,602.3	3.2	6.4	-52.55	53.3	-342.6	317.3	311.2	6.02	52.679			
1,800.0	1,797.7	1,738.5	1,694.5	3.4	6.9	-52.58	58.3	-371.1	343.0	336.6	6.40	53.561			
1,900.0	1,897.5	1,835.1	1,786.8	3.6	7.5	-52.61	63.4	-399.6	368.7	361.9	6.79	54.339			
2,000.0	1,997.3	1,931.8	1,879.0	3.8	8.0	-52.64	68.4	-428.1	394.4	387.2	7.17	55.031			
2,100.0	2,097.1	2,028.4	1,971.2	4.0	8.6	-52.66	73.5	-456.5	420.1	412.6	7.55	55.650			
2,200.0	2,196.9	2,125.0	2,063.4	4.2	9.1	-52.68	78.6	-485.0	445.8	437.9	7.93	56.207			
2,300.0	2,296.7	2,221.7	2,155.6	4.4	9.7	-52.70	83.6	-513.5	471.6	463.3	8.32	56.711			
2,400.0	2,396.5	2,318.3	2,247.8	4.6	10.2	-52.72	88.7	-542.0	497.3	488.6	8.70	57.169			
2,500.0	2,496.2	2,415.0	2,340.0	4.8	10.8	-52.73	93.7	-570.5	523.0	513.9	9.08	57.587			
2,600.0	2,596.0	2,511.6	2,432.2	5.0	11.3	-52.74	98.8	-598.9	548.7	539.3	9.47	57.969			
2,700.0	2,695.8	2,608.2	2,524.4	5.2	11.9	-52.76	103.8	-627.4	574.4	564.6	9.85	58.321			
2,800.0	2,795.6	2,704.9	2,616.6	5.4	12.4	-52.77	108.9	-655.9	600.2	589.9	10.23	58.646			
2,900.0	2,895.4	2,801.5	2,708.8	5.6	13.0	-52.78	114.0	-684.4	625.9	615.3	10.62	58.946			
3,000.0	2,895.2	2,898.1	2,801.0	5.8	13.5	-52.79	119.0	-712.8	651.6	640.6	11.00	59.225			
3,100.0	3,095.0	2,994.8	2,893.2	6.1	14.1	-52.80	124.1	-741.3	677.3	665.9	11.39	59.485			
3,200.0	3,194.7	3,091.4	2,985.4	6.3	14.6	-52.80	129.1	-769.8	703.0	691.3	11.77	59.727			
3,300.0	3,294.5	3,188.0	3,077.6	6.5	15.2	-52.81	134.2	-798.3	728.8	716.6	12.16	59.953			
3,400.0	3,394.3	3,284.7	3,169.8	6.7	15.7	-52.82	139.2	-826.8	754.5	741.9	12.54	60.165			
3,500.0	3,494.1	3,381.3	3,262.0	6.9	16.3	-52.83	144.3	-855.2	780.2	767.3	12.92	60.364			
3,600.0	3,593.9	3,478.0	3,354.3	7.1	16.8	-52.83	149.4	-883.7	805.9	792.6	13.31	60.551			
3,700.0	3,693.7	3,574.6	3,446.5	7.3	17.4	-52.84	154.4	-912.2	831.6	817.9	13.69	60.728			
3,800.0	3,793.5	3,671.2	3,538.7	7.5	17.9	-52.84	159.5	-940.7	857.3	843.3	14.08	60.894			
3,900.0	3,893.2	3,767.9	3,630.9	7.7	18.5	-52.85	164.5	-969.1	883.1	868.6	14.46	61.052			
4,000.0	3,993.0	3,864.5	3,723.1	7.9	19.0	-52.85	169.6	-997.6	908.8	893.9	14.85	61.201			
4,100.0	4,092.8	3,961.1	3,815.3	8.1	19.6	-52.86	174.7	-1,026.1	934.5	919.3	15.23	61.342			
4,200.0	4,192.6	4,057.8	3,907.5	8.3	20.1	-52.86	179.7	-1,054.6	960.2	944.6	15.62	61.477			
4,300.0	4,292.4	4,154.4	3,999.7	8.5	20.7	-52.87	184.8	-1,083.1	985.9	969.9	16.00	61.604			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2B-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.39	0.4	-37.5	37.5					
100.0	100.0	99.0	99.0	0.1	0.1	-89.39	0.4	-37.5	37.5	37.2	0.24	154.188		
200.0	200.0	199.0	199.0	0.3	0.3	-89.39	0.4	-37.5	37.5	36.9	0.59	63.358		
234.7	234.7	233.7	233.7	0.4	0.4	-89.39	0.4	-37.5	37.5	36.8	0.71	52.604 CC, ES		
300.0	300.0	298.4	298.4	0.5	0.5	-89.27	0.5	-37.9	37.9	37.0	0.94	40.326		
400.0	400.0	397.0	396.9	0.6	0.6	-88.43	1.1	-41.2	41.3	40.0	1.29	32.026		
500.0	500.0	495.2	494.9	0.8	0.9	-87.09	2.4	-47.8	48.0	46.4	1.64	29.254		
600.0	600.0	593.0	592.2	1.0	1.1	-49.66	4.4	-57.6	57.6	55.6	1.98	29.102 SF		
700.0	700.0	690.2	688.4	1.2	1.4	-49.77	6.9	-70.6	69.4	67.1	2.33	29.833		
800.0	799.9	786.6	783.5	1.4	1.7	-50.39	10.1	-86.7	83.5	80.8	2.68	31.148		
900.0	899.7	882.2	877.1	1.5	2.1	-51.27	13.8	-105.7	99.8	96.7	3.04	32.811		
1,000.0	999.5	976.8	969.1	1.7	2.5	-51.89	18.1	-127.5	119.0	115.6	3.41	34.937		
1,100.0	1,099.2	1,071.7	1,060.5	1.9	2.9	-52.12	22.9	-152.1	141.2	137.4	3.77	37.408		
1,200.0	1,199.0	1,169.0	1,154.2	2.1	3.4	-52.25	28.1	-178.1	164.1	159.9	4.15	39.533		
1,300.0	1,298.8	1,266.4	1,247.9	2.3	3.9	-52.35	33.2	-204.0	186.9	182.4	4.53	41.288		
1,400.0	1,398.6	1,363.7	1,341.6	2.5	4.4	-52.42	38.3	-230.0	209.8	204.9	4.91	42.759		
1,500.0	1,498.4	1,461.1	1,435.3	2.7	4.9	-52.48	43.4	-255.9	232.7	227.4	5.29	44.009		
1,600.0	1,598.2	1,558.4	1,528.9	3.0	5.4	-52.53	48.5	-281.9	255.5	249.9	5.67	45.083		
1,700.0	1,698.0	1,655.8	1,622.6	3.2	5.9	-52.58	53.6	-307.8	278.4	272.4	6.05	46.016		
1,800.0	1,797.7	1,753.1	1,716.3	3.4	6.4	-52.61	58.7	-333.8	301.3	294.9	6.43	46.833		
1,900.0	1,897.5	1,850.5	1,810.0	3.6	6.9	-52.64	63.8	-359.7	324.2	317.4	6.82	47.554		
2,000.0	1,997.3	1,947.8	1,903.7	3.8	7.4	-52.67	68.9	-385.7	347.0	339.8	7.20	48.196		
2,100.0	2,097.1	2,045.2	1,997.4	4.0	7.9	-52.69	74.0	-411.6	369.9	362.3	7.58	48.770		
2,200.0	2,196.9	2,142.5	2,091.1	4.2	8.4	-52.71	79.1	-437.6	392.8	384.8	7.97	49.287		
2,300.0	2,296.7	2,239.9	2,184.8	4.4	8.9	-52.73	84.2	-463.5	415.7	407.3	8.35	49.754		
2,400.0	2,296.5	2,237.2	2,178.4	4.6	9.4	-52.75	89.3	-489.5	438.5	429.8	8.74	50.179		
2,500.0	2,496.2	2,434.5	2,372.1	4.8	9.9	-52.76	94.4	-515.4	461.4	452.3	9.12	50.567		
2,600.0	2,596.0	2,531.9	2,465.8	5.0	10.4	-52.78	99.5	-541.4	484.3	474.8	9.51	50.922		
2,700.0	2,695.8	2,629.2	2,559.5	5.2	10.9	-52.79	104.6	-567.3	507.2	497.3	9.90	51.249		
2,800.0	2,795.6	2,726.6	2,653.2	5.4	11.4	-52.80	109.7	-593.3	530.0	519.8	10.28	51.550		
2,900.0	2,895.4	2,823.9	2,746.9	5.6	11.9	-52.81	114.8	-619.2	552.9	542.2	10.67	51.829		
3,000.0	2,995.2	2,921.3	2,840.6	5.8	12.4	-52.82	119.9	-645.2	575.8	564.7	11.05	52.088		
3,100.0	3,095.0	3,018.6	2,934.3	6.1	13.0	-52.83	125.0	-671.1	598.7	587.2	11.44	52.329		
3,200.0	3,194.7	3,116.0	3,027.9	6.3	13.5	-52.84	130.1	-697.1	621.5	609.7	11.83	52.554		
3,300.0	3,294.5	3,213.3	3,121.6	6.5	14.0	-52.84	135.2	-723.0	644.4	632.2	12.21	52.764		
3,400.0	3,394.3	3,310.7	3,215.3	6.7	14.5	-52.85	140.3	-748.9	667.3	654.7	12.60	52.961		
3,500.0	3,494.1	3,408.0	3,309.0	6.9	15.0	-52.86	145.4	-774.9	690.2	677.2	12.99	53.146		
3,600.0	3,593.9	3,505.4	3,402.7	7.1	15.5	-52.86	150.5	-800.8	713.0	699.7	13.37	53.320		
3,700.0	3,693.7	3,602.7	3,496.4	7.3	16.0	-52.87	155.6	-826.8	735.9	722.2	13.76	53.484		
3,800.0	3,793.5	3,700.1	3,590.1	7.5	16.5	-52.87	160.7	-852.7	758.8	744.6	14.15	53.639		
3,900.0	3,893.2	3,797.4	3,683.8	7.7	17.0	-52.88	165.8	-878.7	781.7	767.1	14.53	53.785		
4,000.0	3,993.0	3,894.8	3,777.4	7.9	17.5	-52.88	170.9	-904.6	804.5	789.6	14.92	53.924		
4,100.0	4,092.8	3,992.1	3,871.1	8.1	18.0	-52.89	176.0	-930.6	827.4	812.1	15.31	54.055		
4,200.0	4,192.6	4,089.5	3,964.8	8.3	18.5	-52.89	181.1	-956.5	850.3	834.6	15.69	54.180		
4,300.0	4,292.4	4,186.8	4,058.5	8.5	19.0	-52.90	186.3	-982.5	873.2	857.1	16.08	54.299		
4,400.0	4,392.2	4,284.2	4,152.2	8.8	19.5	-52.90	191.4	-1,008.4	896.0	879.6	16.47	54.412		
4,500.0	4,492.0	4,381.5	4,245.9	9.0	20.0	-52.90	196.5	-1,034.4	918.9	902.1	16.85	54.519		
4,600.0	4,591.7	4,478.9	4,339.6	9.2	20.5	-52.91	201.6	-1,060.3	941.8	924.5	17.24	54.622		
4,700.0	4,691.5	4,576.2	4,433.3	9.4	21.0	-52.91	206.7	-1,086.3	964.7	947.0	17.63	54.720		
4,800.0	4,791.3	4,673.6	4,526.9	9.6	21.6	-52.91	211.8	-1,112.2	987.5	969.5	18.02	54.814		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2C-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.90	0.1	-29.9	29.9					
100.0	100.0	99.0	99.0	0.1	0.1	-89.90	0.1	-29.9	29.9	29.7	0.24	123.114		
200.0	200.0	199.0	199.0	0.3	0.3	-89.90	0.1	-29.9	29.9	29.3	0.59	50.589		
300.0	300.0	299.0	299.0	0.5	0.5	-89.90	0.1	-29.9	29.9	29.0	0.94	31.818 CC, ES		
400.0	400.0	398.0	397.9	0.6	0.6	-89.21	0.4	-31.6	31.6	30.3	1.29	24.512		
500.0	500.0	496.7	496.5	0.8	0.8	-87.49	1.6	-36.5	36.6	35.0	1.64	22.347		
600.0	600.0	595.0	594.5	1.0	1.0	-49.68	3.5	-44.7	44.5	42.5	1.98	22.441		
700.0	700.0	692.8	691.6	1.2	1.3	-49.61	6.2	-56.1	54.6	52.3	2.33	23.421		
800.0	799.9	790.0	787.6	1.4	1.6	-50.17	9.6	-70.6	67.0	64.3	2.69	24.925		
900.0	899.7	886.5	882.4	1.5	1.9	-51.01	13.8	-88.2	81.6	78.5	3.05	26.744		
1,000.0	999.5	982.8	976.4	1.7	2.3	-51.51	18.6	-108.7	99.0	95.6	3.42	28.960		
1,100.0	1,099.2	1,081.2	1,072.2	1.9	2.7	-51.77	23.7	-130.4	117.3	113.5	3.79	30.921		
1,200.0	1,199.0	1,179.5	1,167.9	2.1	3.1	-51.97	28.9	-152.2	135.6	131.4	4.17	32.508		
1,300.0	1,298.8	1,277.8	1,263.6	2.3	3.6	-52.11	34.0	-173.9	153.9	149.3	4.55	33.817		
1,400.0	1,398.6	1,376.1	1,359.4	2.5	4.0	-52.23	39.1	-195.7	172.2	167.3	4.93	34.913		
1,500.0	1,498.4	1,474.4	1,455.1	2.7	4.4	-52.32	44.3	-217.5	190.5	185.2	5.32	35.843		
1,600.0	1,598.2	1,572.7	1,550.8	3.0	4.8	-52.40	49.4	-239.2	208.8	203.1	5.70	36.642		
1,700.0	1,698.0	1,671.0	1,646.6	3.2	5.3	-52.47	54.5	-261.0	227.1	221.0	6.08	37.334		
1,800.0	1,797.7	1,769.3	1,742.3	3.4	5.7	-52.52	59.6	-282.7	245.4	239.0	6.47	37.941		
1,900.0	1,897.5	1,867.6	1,838.0	3.6	6.1	-52.57	64.8	-304.5	263.8	256.9	6.85	38.476		
2,000.0	1,997.3	1,965.9	1,933.8	3.8	6.6	-52.61	69.9	-326.2	282.1	274.8	7.24	38.952		
2,100.0	2,097.1	2,064.2	2,029.5	4.0	7.0	-52.65	75.0	-348.0	300.4	292.7	7.63	39.377		
2,200.0	2,196.9	2,162.6	2,125.2	4.2	7.4	-52.68	80.2	-369.8	318.7	310.7	8.02	39.760		
2,300.0	2,296.7	2,260.9	2,221.0	4.4	7.9	-52.71	85.3	-391.5	337.0	328.6	8.40	40.106		
2,400.0	2,396.5	2,359.2	2,316.7	4.6	8.3	-52.73	90.4	-413.3	355.3	346.5	8.79	40.420		
2,500.0	2,496.2	2,457.5	2,412.4	4.8	8.7	-52.76	95.5	-435.0	373.6	364.4	9.18	40.707		
2,600.0	2,596.0	2,555.8	2,508.2	5.0	9.1	-52.78	100.7	-456.8	391.9	382.4	9.57	40.969		
2,700.0	2,695.8	2,654.1	2,603.9	5.2	9.6	-52.80	105.8	-478.6	410.2	400.3	9.95	41.211		
2,800.0	2,795.6	2,752.4	2,699.6	5.4	10.0	-52.81	110.9	-500.3	428.5	418.2	10.34	41.434		
2,900.0	2,895.4	2,850.7	2,795.4	5.6	10.4	-52.83	116.1	-522.1	446.9	436.1	10.73	41.640		
3,000.0	2,995.2	2,949.0	2,891.1	5.8	10.9	-52.84	121.2	-543.8	465.2	454.0	11.12	41.831		
3,100.0	3,095.0	3,047.3	2,986.8	6.1	11.3	-52.86	126.3	-565.6	483.5	472.0	11.51	42.009		
3,200.0	3,194.7	3,145.6	3,082.6	6.3	11.7	-52.87	131.4	-587.4	501.8	489.9	11.90	42.175		
3,300.0	3,294.5	3,244.0	3,178.3	6.5	12.2	-52.88	136.6	-609.1	520.1	507.8	12.29	42.330		
3,400.0	3,394.3	3,342.3	3,274.0	6.7	12.6	-52.89	141.7	-630.9	538.4	525.7	12.68	42.475		
3,500.0	3,494.1	3,440.6	3,369.8	6.9	13.0	-52.90	146.8	-652.6	556.7	543.7	13.07	42.611		
3,600.0	3,593.9	3,538.9	3,465.5	7.1	13.5	-52.91	152.0	-674.4	575.0	561.6	13.45	42.740		
3,700.0	3,693.7	3,637.2	3,561.2	7.3	13.9	-52.92	157.1	-696.1	593.3	579.5	13.84	42.860		
3,800.0	3,793.5	3,735.5	3,657.0	7.5	14.4	-52.93	162.2	-717.9	611.7	597.4	14.23	42.974		
3,900.0	3,893.2	3,833.8	3,752.7	7.7	14.8	-52.94	167.3	-739.7	630.0	615.3	14.62	43.082		
4,000.0	3,993.0	3,932.1	3,848.4	7.9	15.2	-52.95	172.5	-761.4	648.3	633.3	15.01	43.184		
4,100.0	4,092.8	4,030.4	3,944.2	8.1	15.7	-52.95	177.6	-783.2	666.6	651.2	15.40	43.281		
4,200.0	4,192.6	4,128.7	4,039.9	8.3	16.1	-52.96	182.7	-804.9	684.9	669.1	15.79	43.373		
4,300.0	4,292.4	4,227.0	4,135.6	8.5	16.5	-52.97	187.9	-826.7	703.2	687.0	16.18	43.461		
4,400.0	4,392.2	4,325.4	4,231.4	8.8	17.0	-52.97	193.0	-848.5	721.5	704.9	16.57	43.544		
4,500.0	4,492.0	4,423.7	4,327.1	9.0	17.4	-52.98	198.1	-870.2	739.8	722.9	16.96	43.623		
4,600.0	4,591.7	4,522.0	4,422.8	9.2	17.8	-52.98	203.2	-892.0	758.1	740.8	17.35	43.699		
4,700.0	4,691.5	4,620.3	4,518.6	9.4	18.3	-52.99	208.4	-913.7	776.4	758.7	17.74	43.771		
4,800.0	4,791.3	4,718.6	4,614.3	9.6	18.7	-52.99	213.5	-935.5	794.8	776.6	18.13	43.840		
4,900.0	4,891.1	4,816.9	4,710.0	9.8	19.1	-53.00	218.6	-957.3	813.1	794.6	18.52	43.906		
5,000.0	4,990.9	4,915.2	4,805.8	10.0	19.6	-53.00	223.8	-979.0	831.4	812.5	18.91	43.969		
5,100.0	5,090.7	5,013.5	4,901.5	10.2	20.0	-53.01	228.9	-1,000.8	849.7	830.4	19.30	44.030		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2C-32H-C264 - 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							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	5,190.5	5,111.8	4,997.2	10.4	20.4	-53.01	234.0	-1,022.5	868.0	848.3	19.69	44.088		
5,300.0	5,290.2	5,210.1	5,093.0	10.6	20.9	-53.02	239.1	-1,044.3	886.3	866.2	20.08	44.144		
5,400.0	5,390.0	5,308.4	5,188.7	10.8	21.3	-53.02	244.3	-1,066.1	904.6	884.2	20.47	44.198		
5,500.0	5,489.8	5,406.8	5,284.4	11.0	21.7	-53.02	249.4	-1,087.8	922.9	902.1	20.86	44.250		
5,600.0	5,589.6	5,520.3	5,395.1	11.3	22.2	-53.03	255.2	-1,112.6	941.0	919.7	21.28	44.227		
5,700.0	5,689.4	5,666.3	5,538.6	11.5	22.7	-53.17	261.5	-1,139.0	955.5	933.7	21.75	43.921		
5,800.0	5,789.3	5,814.0	5,684.9	11.6	23.1	-53.30	266.1	-1,158.5	966.0	943.8	22.21	43.501		
5,900.0	5,889.3	5,962.8	5,833.1	11.8	23.4	-53.38	268.9	-1,170.7	972.5	949.9	22.63	42.979		
6,000.0	5,989.2	6,112.2	5,982.4	12.0	23.5	-53.41	270.0	-1,175.4	975.0	952.0	23.02	42.355		
6,100.0	6,089.2	6,218.0	6,088.2	12.1	23.6	-90.00	270.1	-1,175.4	975.0	951.5	23.52	41.447		
6,200.0	6,189.2	6,318.0	6,188.2	12.3	23.7	-90.00	270.1	-1,175.4	975.0	951.2	23.84	40.895		
6,300.0	6,289.2	6,418.0	6,288.2	12.4	23.8	-90.00	270.1	-1,175.4	975.0	950.9	24.16	40.355		
6,400.0	6,389.2	6,518.0	6,388.2	12.6	23.9	-90.00	270.1	-1,175.4	975.0	950.6	24.48	39.828		
6,500.0	6,489.2	6,618.0	6,488.2	12.7	23.9	89.01	270.1	-1,175.4	975.0	950.4	24.63	39.590		
6,600.0	6,588.5	6,717.2	6,587.5	12.8	24.0	89.69	270.1	-1,175.4	974.9	950.2	24.74	39.404		
6,637.2	6,624.6	6,754.2	6,624.4	12.8	24.1	90.17	269.6	-1,175.4	974.9	950.2	24.71	39.450		
6,700.0	6,684.2	6,818.4	6,688.3	12.8	24.1	91.02	263.5	-1,175.4	974.9	950.3	24.63	39.581		
6,800.0	6,773.4	6,924.4	6,791.0	12.7	24.1	92.37	238.0	-1,175.4	975.2	950.7	24.45	39.880		
6,900.0	6,853.6	7,035.1	6,891.4	12.7	24.0	93.67	191.6	-1,175.4	975.5	951.2	24.33	40.088		
7,000.0	6,922.2	7,150.8	6,984.7	12.7	24.0	94.88	123.6	-1,175.4	975.8	951.4	24.41	39.973		
7,100.0	6,977.1	7,271.3	7,065.3	12.9	24.0	95.95	34.3	-1,175.4	976.0	951.1	24.83	39.300		
7,200.0	7,016.8	7,395.9	7,127.1	13.3	24.2	96.81	-73.6	-1,175.4	975.7	950.1	25.64	38.057		
7,300.0	7,039.9	7,523.6	7,164.8	13.9	24.5	97.40	-195.3	-1,175.4	974.9	948.0	26.91	36.233		
7,400.0	7,046.0	7,648.0	7,175.0	14.7	25.0	97.68	-319.1	-1,175.4	973.4	944.8	28.56	34.079		
7,500.0	7,046.0	7,748.0	7,175.0	15.6	25.6	97.69	-419.1	-1,175.4	971.6	941.1	30.52	31.833		
7,600.0	7,046.0	7,848.0	7,175.0	16.7	26.2	97.70	-519.1	-1,175.4	969.9	937.1	32.72	29.638		
7,700.0	7,046.0	7,948.0	7,175.0	17.9	27.0	97.72	-619.0	-1,175.4	968.1	933.0	35.13	27.556		
7,800.0	7,046.0	8,047.9	7,175.0	19.1	27.8	97.73	-719.0	-1,175.4	966.4	928.7	37.71	25.628		
7,900.0	7,046.0	8,147.9	7,175.0	20.5	28.7	97.75	-819.0	-1,175.4	964.6	924.2	40.42	23.866		
8,000.0	7,046.0	8,247.9	7,175.0	21.9	29.7	97.76	-919.0	-1,175.4	962.9	919.6	43.24	22.269		
8,100.0	7,046.0	8,347.9	7,175.0	23.3	30.8	97.77	-1,019.0	-1,175.4	961.1	915.0	46.15	20.827		
8,200.0	7,046.0	8,447.9	7,175.0	24.8	31.9	97.79	-1,119.0	-1,175.4	959.4	910.3	49.13	19.527		
8,300.0	7,046.0	8,547.9	7,175.0	26.4	33.1	97.80	-1,218.9	-1,175.4	957.6	905.5	52.17	18.355		
8,400.0	7,046.0	8,647.9	7,175.0	27.9	34.4	97.82	-1,318.9	-1,175.4	955.9	900.6	55.27	17.295		
8,500.0	7,046.0	8,747.8	7,175.0	29.5	35.6	97.83	-1,418.9	-1,175.4	954.2	895.7	58.41	16.337		
8,600.0	7,046.0	8,847.8	7,175.0	31.1	37.0	97.85	-1,518.9	-1,175.4	952.4	890.8	61.58	15.466		
8,700.0	7,046.0	8,947.8	7,175.0	32.7	38.3	97.86	-1,618.9	-1,175.4	950.7	885.9	64.78	14.675		
8,800.0	7,046.0	9,047.8	7,175.0	34.3	39.7	97.88	-1,718.9	-1,175.4	948.9	880.9	68.01	13.952		
8,900.0	7,046.0	9,147.8	7,175.0	35.9	41.1	97.89	-1,818.8	-1,175.4	947.2	875.9	71.26	13.291		
9,000.0	7,046.0	9,247.8	7,175.0	37.6	42.6	97.90	-1,918.8	-1,175.4	945.4	870.9	74.54	12.684		
9,100.0	7,046.0	9,347.7	7,175.0	39.2	44.0	97.92	-2,018.8	-1,175.4	943.7	865.8	77.83	12.125		
9,200.0	7,046.0	9,447.7	7,175.0	40.9	45.5	97.93	-2,118.8	-1,175.4	941.9	860.8	81.13	11.610		
9,300.0	7,046.0	9,547.7	7,175.0	42.6	47.0	97.95	-2,218.8	-1,175.4	940.2	855.7	84.45	11.133		
9,400.0	7,046.0	9,647.7	7,175.0	44.3	48.5	97.96	-2,318.8	-1,175.4	938.4	850.7	87.78	10.691		
9,500.0	7,046.0	9,747.7	7,175.0	45.9	50.1	97.98	-2,418.8	-1,175.4	936.7	845.6	91.12	10.280		
9,600.0	7,046.0	9,847.7	7,175.0	47.6	51.6	97.99	-2,518.7	-1,175.4	934.9	840.5	94.47	9.897		
9,700.0	7,046.0	9,947.7	7,175.0	49.3	53.2	98.01	-2,618.7	-1,175.4	933.2	835.4	97.82	9.540		
9,800.0	7,046.0	10,047.6	7,175.0	51.0	54.8	98.02	-2,718.7	-1,175.4	931.5	830.3	101.19	9.205		
9,900.0	7,046.0	10,147.6	7,175.0	52.7	56.3	98.04	-2,818.7	-1,175.4	929.7	825.1	104.56	8.892		
10,000.0	7,046.0	10,247.6	7,175.0	54.4	57.9	98.05	-2,918.7	-1,175.4	928.0	820.0	107.94	8.597		
10,100.0	7,046.0	10,347.6	7,175.0	56.1	59.5	98.07	-3,018.7	-1,175.4	926.2	814.9	111.32	8.320		
10,200.0	7,046.0	10,447.6	7,175.0	57.8	61.2	98.09	-3,118.6	-1,175.4	924.5	809.8	114.71	8.060		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2C-32H-C264 - 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		
10,300.0	7,046.0	10,547.6	7,175.0	59.5	62.8	98.10	-3,218.6	-1,175.4	922.7	804.6	118.10	7.813		
10,400.0	7,046.0	10,647.5	7,175.0	61.3	64.4	98.12	-3,318.6	-1,175.4	921.0	799.5	121.49	7.580		
10,500.0	7,046.0	10,747.5	7,175.0	63.0	66.0	98.13	-3,418.6	-1,175.4	919.2	794.3	124.89	7.360		
10,600.0	7,046.0	10,847.5	7,175.0	64.7	67.7	98.15	-3,518.6	-1,175.4	917.5	789.2	128.30	7.151		
10,700.0	7,046.0	10,947.5	7,175.0	66.4	69.3	98.16	-3,618.6	-1,175.4	915.7	784.0	131.70	6.953		
10,800.0	7,046.0	11,047.5	7,175.0	68.1	71.0	98.18	-3,718.6	-1,175.4	914.0	778.9	135.11	6.765		
10,900.0	7,046.0	11,147.5	7,175.0	69.9	72.6	98.19	-3,818.5	-1,175.4	912.3	773.7	138.52	6.586		
11,000.0	7,046.0	11,247.4	7,175.0	71.6	74.3	98.21	-3,918.5	-1,175.4	910.5	768.6	141.94	6.415		
11,100.0	7,046.0	11,347.4	7,175.0	73.3	76.0	98.23	-4,018.5	-1,175.4	908.8	763.4	145.35	6.252		
11,200.0	7,046.0	11,447.4	7,175.0	75.0	77.6	98.24	-4,118.5	-1,175.4	907.0	758.2	148.77	6.097		
11,300.0	7,046.0	11,547.4	7,175.0	76.8	79.3	98.26	-4,218.5	-1,175.4	905.3	753.1	152.19	5.948		
11,400.0	7,046.0	11,647.4	7,175.0	78.5	81.0	98.27	-4,318.5	-1,175.4	903.5	747.9	155.62	5.806		
11,500.0	7,046.0	11,747.4	7,175.0	80.2	82.6	98.29	-4,418.4	-1,175.4	901.8	742.7	159.04	5.670		
11,600.0	7,046.0	11,847.4	7,175.0	82.0	84.3	98.31	-4,518.4	-1,175.4	900.0	737.6	162.46	5.540		
11,633.9	7,046.0	11,876.5	7,175.0	82.6	84.8	98.31	-4,547.6	-1,175.4	899.5	735.9	163.54	5.500 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2D-32H-C264 - 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	-89.90	0.0	-22.4	22.4					
100.0	100.0	99.0	99.0	0.1	0.1	-89.90	0.0	-22.4	22.4	22.1	0.24	92.047		
200.0	200.0	199.0	199.0	0.3	0.3	-89.90	0.0	-22.4	22.4	21.8	0.59	37.824		
300.0	300.0	299.0	299.0	0.5	0.5	-89.90	0.0	-22.4	22.4	21.4	0.94	23.789		
334.7	334.7	333.7	333.7	0.5	0.5	-89.90	0.0	-22.4	22.4	21.3	1.06	21.077 CC, ES		
400.0	400.0	398.6	398.6	0.6	0.6	-89.62	0.2	-22.8	22.8	21.5	1.29	17.670		
500.0	500.0	497.8	497.7	0.8	0.8	-87.60	1.1	-26.0	26.1	24.5	1.64	15.934		
600.0	600.0	596.6	596.3	1.0	1.0	-49.30	3.0	-32.6	32.2	30.3	1.99	16.241		
700.0	700.0	695.0	694.2	1.2	1.2	-49.03	5.8	-42.3	40.6	38.3	2.34	17.394		
800.0	799.9	792.9	791.2	1.4	1.5	-49.50	9.5	-55.2	51.2	48.5	2.69	19.029		
900.0	899.7	890.9	887.7	1.5	1.8	-50.29	14.1	-71.3	64.0	61.0	3.06	20.948		
1,000.0	999.5	989.2	984.2	1.7	2.2	-50.85	19.2	-89.0	78.2	74.8	3.43	22.810		
1,100.0	1,099.2	1,088.1	1,081.4	1.9	2.5	-51.24	24.4	-106.9	92.4	88.6	3.80	24.279		
1,200.0	1,199.0	1,187.1	1,178.7	2.1	2.9	-51.53	29.5	-124.7	106.5	102.4	4.18	25.466		
1,300.0	1,298.8	1,286.1	1,275.9	2.3	3.2	-51.75	34.6	-142.6	120.7	116.2	4.57	26.444		
1,400.0	1,398.6	1,385.1	1,373.1	2.5	3.6	-51.92	39.8	-160.4	134.9	130.0	4.95	27.262		
1,500.0	1,498.4	1,484.1	1,470.4	2.7	3.9	-52.06	44.9	-178.3	149.1	143.8	5.33	27.956		
1,600.0	1,598.2	1,583.1	1,567.6	3.0	4.3	-52.18	50.1	-196.2	163.3	157.6	5.72	28.552		
1,700.0	1,698.0	1,682.1	1,664.8	3.2	4.7	-52.28	55.2	-214.0	177.5	171.3	6.10	29.068		
1,800.0	1,797.7	1,781.1	1,762.0	3.4	5.0	-52.36	60.3	-231.9	191.6	185.1	6.49	29.520		
1,900.0	1,897.5	1,880.1	1,859.3	3.6	5.4	-52.43	65.5	-249.7	205.8	198.9	6.88	29.919		
2,000.0	1,997.3	1,979.0	1,956.5	3.8	5.8	-52.50	70.6	-267.6	220.0	212.7	7.27	30.273		
2,100.0	2,097.1	2,078.0	2,053.7	4.0	6.1	-52.55	75.8	-285.4	234.2	226.5	7.66	30.589		
2,200.0	2,196.9	2,177.0	2,151.0	4.2	6.5	-52.60	80.9	-303.3	248.4	240.3	8.04	30.873		
2,300.0	2,296.7	2,276.0	2,248.2	4.4	6.9	-52.64	86.0	-321.1	262.6	254.1	8.43	31.130		
2,400.0	2,396.5	2,375.0	2,345.4	4.6	7.3	-52.68	91.2	-339.0	276.7	267.9	8.82	31.364		
2,500.0	2,496.2	2,474.0	2,442.6	4.8	7.6	-52.72	96.3	-356.8	290.9	281.7	9.21	31.577		
2,600.0	2,596.0	2,573.0	2,539.9	5.0	8.0	-52.75	101.5	-374.7	305.1	295.5	9.60	31.772		
2,700.0	2,695.8	2,672.0	2,637.1	5.2	8.4	-52.78	106.6	-392.6	319.3	309.3	9.99	31.951		
2,800.0	2,795.6	2,771.0	2,734.3	5.4	8.7	-52.81	111.7	-410.4	333.5	323.1	10.38	32.116		
2,900.0	2,895.4	2,869.9	2,831.6	5.6	9.1	-52.83	116.9	-428.3	347.7	336.9	10.77	32.269		
3,000.0	2,995.2	2,968.9	2,928.8	5.8	9.5	-52.85	122.0	-446.1	361.8	350.7	11.16	32.411		
3,100.0	3,095.0	3,067.9	3,026.0	6.1	9.8	-52.87	127.2	-464.0	376.0	364.5	11.55	32.543		
3,200.0	3,194.7	3,166.9	3,123.3	6.3	10.2	-52.89	132.3	-481.8	390.2	378.3	11.95	32.666		
3,300.0	3,294.5	3,265.9	3,220.5	6.5	10.6	-52.91	137.4	-499.7	404.4	392.1	12.34	32.781		
3,400.0	3,394.3	3,364.9	3,317.7	6.7	11.0	-52.93	142.6	-517.5	418.6	405.8	12.73	32.888		
3,500.0	3,494.1	3,463.9	3,414.9	6.9	11.3	-52.94	147.7	-535.4	432.8	419.6	13.12	32.989		
3,600.0	3,593.9	3,562.9	3,512.2	7.1	11.7	-52.96	152.9	-553.2	446.9	433.4	13.51	33.084		
3,700.0	3,693.7	3,661.9	3,609.4	7.3	12.1	-52.97	158.0	-571.1	461.1	447.2	13.90	33.174		
3,800.0	3,793.5	3,760.8	3,706.6	7.5	12.4	-52.99	163.1	-589.0	475.3	461.0	14.29	33.258		
3,900.0	3,893.2	3,859.8	3,803.9	7.7	12.8	-53.00	168.3	-606.8	489.5	474.8	14.68	33.338		
4,000.0	3,993.0	3,958.8	3,901.1	7.9	13.2	-53.01	173.4	-624.7	503.7	488.6	15.07	33.414		
4,100.0	4,092.8	4,057.8	3,998.3	8.1	13.6	-53.02	178.6	-642.5	517.9	502.4	15.47	33.485		
4,200.0	4,192.6	4,156.8	4,095.6	8.3	13.9	-53.03	183.7	-660.4	532.1	516.2	15.86	33.553		
4,300.0	4,292.4	4,255.8	4,192.8	8.5	14.3	-53.04	188.8	-678.2	546.2	530.0	16.25	33.618		
4,400.0	4,392.2	4,354.8	4,290.0	8.8	14.7	-53.05	194.0	-696.1	560.4	543.8	16.64	33.679		
4,500.0	4,492.0	4,453.8	4,387.2	9.0	15.0	-53.06	199.1	-713.9	574.6	557.6	17.03	33.738		
4,600.0	4,591.7	4,552.8	4,484.5	9.2	15.4	-53.07	204.3	-731.8	588.8	571.4	17.42	33.794		
4,700.0	4,691.5	4,651.7	4,581.7	9.4	15.8	-53.07	209.4	-749.6	603.0	585.2	17.81	33.847		
4,800.0	4,791.3	4,750.7	4,678.9	9.6	16.2	-53.08	214.5	-767.5	617.2	599.0	18.21	33.899		
4,900.0	4,891.1	4,849.7	4,776.2	9.8	16.5	-53.09	219.7	-785.4	631.3	612.7	18.60	33.947		
5,000.0	4,990.9	4,948.7	4,873.4	10.0	16.9	-53.10	224.8	-803.2	645.5	626.5	18.99	33.994		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2D-32H-C264 - 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		
5,100.0	5,090.7	5,047.7	4,970.6	10.2	17.3	-53.10	230.0	-821.1	659.7	640.3	19.38	34.039		
5,200.0	5,190.5	5,146.7	5,067.8	10.4	17.6	-53.11	235.1	-838.9	673.9	654.1	19.77	34.082		
5,300.0	5,290.2	5,245.7	5,165.1	10.6	18.0	-53.12	240.2	-856.8	688.1	667.9	20.16	34.123		
5,400.0	5,390.0	5,344.7	5,262.3	10.8	18.4	-53.12	245.4	-874.6	702.3	681.7	20.56	34.163		
5,500.0	5,489.8	5,443.7	5,359.5	11.0	18.8	-53.13	250.5	-892.5	716.5	695.5	20.95	34.201		
5,600.0	5,589.6	5,542.6	5,456.8	11.3	19.1	-53.13	255.7	-910.3	730.6	709.3	21.34	34.238		
5,700.0	5,689.4	5,672.6	5,584.9	11.5	19.5	-53.23	261.7	-931.2	743.1	721.3	21.78	34.111		
5,800.0	5,789.3	5,805.6	5,716.9	11.6	19.9	-53.33	266.2	-946.8	752.1	729.9	22.21	33.868		
5,900.0	5,889.3	5,939.3	5,850.2	11.8	20.1	-53.39	269.0	-956.5	757.7	735.1	22.60	33.526		
6,000.0	5,989.2	6,073.4	5,984.2	12.0	20.3	-53.41	270.0	-960.2	759.9	736.9	22.97	33.082		
6,100.0	6,089.2	6,177.4	6,088.2	12.1	20.3	-90.00	270.0	-960.3	759.9	736.4	23.44	32.417		
6,200.0	6,189.2	6,277.4	6,188.2	12.3	20.4	-90.00	270.0	-960.3	759.9	736.1	23.76	31.983		
6,300.0	6,289.2	6,377.4	6,288.2	12.4	20.5	-90.00	270.0	-960.3	759.9	735.8	24.08	31.560		
6,400.0	6,389.2	6,477.4	6,388.2	12.6	20.6	-90.00	270.0	-960.3	759.9	735.5	24.40	31.146		
6,500.0	6,489.2	6,577.4	6,488.2	12.7	20.7	88.99	269.8	-960.3	759.9	735.3	24.57	30.930		
6,600.0	6,588.5	6,677.4	6,587.5	12.8	20.8	89.01	258.3	-960.3	759.7	735.0	24.69	30.773		
6,700.0	6,684.2	6,777.5	6,683.2	12.8	20.7	89.06	229.7	-960.3	759.2	734.5	24.63	30.828		
6,800.0	6,773.4	6,877.5	6,772.5	12.7	20.7	89.14	185.0	-960.3	758.4	733.9	24.48	30.977		
6,900.0	6,853.6	6,977.5	6,852.6	12.7	20.7	89.25	125.4	-960.3	757.3	732.9	24.38	31.058		
7,000.0	6,922.2	7,077.4	6,921.2	12.7	20.7	89.37	52.8	-960.3	756.0	731.6	24.48	30.887		
7,100.0	6,977.1	7,177.4	6,976.1	12.9	20.8	89.52	-30.6	-960.3	754.6	729.7	24.89	30.312		
7,200.0	7,016.8	7,277.4	7,015.8	13.3	21.0	89.68	-122.2	-960.3	753.0	727.2	25.72	29.271		
7,300.0	7,039.9	7,377.4	7,038.9	13.9	21.4	89.85	-219.4	-960.3	751.2	724.3	26.99	27.837		
7,400.0	7,046.0	7,477.4	7,045.0	14.7	21.9	90.00	-319.1	-960.3	749.5	720.9	28.63	26.175		
7,500.0	7,046.0	7,577.4	7,045.0	15.6	22.5	90.00	-419.1	-960.3	747.7	717.1	30.61	24.428		
7,600.0	7,046.0	7,677.4	7,045.0	16.7	23.2	90.00	-519.0	-960.3	746.0	713.1	32.83	22.721		
7,700.0	7,046.0	7,777.3	7,045.0	17.9	24.1	90.00	-619.0	-960.3	744.2	708.9	35.26	21.104		
7,800.0	7,046.0	7,877.3	7,045.0	19.1	25.0	90.00	-719.0	-960.3	742.4	704.6	37.86	19.608		
7,900.0	7,046.0	7,977.3	7,045.0	20.5	26.1	90.00	-819.0	-960.3	740.7	700.1	40.60	18.242		
8,000.0	7,046.0	8,077.3	7,045.0	21.9	27.2	90.00	-919.0	-960.3	738.9	695.5	43.45	17.006		
8,100.0	7,046.0	8,177.3	7,045.0	23.3	28.3	90.00	-1,019.0	-960.3	737.2	690.8	46.39	15.890		
8,200.0	7,046.0	8,277.3	7,045.0	24.8	29.6	90.00	-1,119.0	-960.3	735.4	686.0	49.40	14.885		
8,300.0	7,046.0	8,377.3	7,045.0	26.4	30.9	90.00	-1,218.9	-960.3	733.6	681.1	52.48	13.979		
8,400.0	7,046.0	8,477.2	7,045.0	27.9	32.2	90.00	-1,318.9	-960.3	731.9	676.3	55.61	13.162		
8,500.0	7,046.0	8,577.2	7,045.0	29.5	33.6	90.00	-1,418.9	-960.3	730.1	671.3	58.77	12.422		
8,600.0	7,046.0	8,677.2	7,045.0	31.1	35.0	90.00	-1,518.9	-960.3	728.3	666.4	61.98	11.751		
8,700.0	7,046.0	8,777.2	7,045.0	32.7	36.4	90.00	-1,618.9	-960.3	726.6	661.4	65.22	11.141		
8,800.0	7,046.0	8,877.2	7,045.0	34.3	37.9	90.00	-1,718.9	-960.3	724.8	656.3	68.48	10.584		
8,900.0	7,046.0	8,977.2	7,045.0	35.9	39.3	90.00	-1,818.8	-960.3	723.0	651.3	71.77	10.075		
9,000.0	7,046.0	9,077.1	7,045.0	37.6	40.8	90.00	-1,918.8	-960.3	721.3	646.2	75.08	9.608		
9,100.0	7,046.0	9,177.1	7,045.0	39.2	42.4	90.00	-2,018.8	-960.3	719.5	641.1	78.40	9.178		
9,200.0	7,046.0	9,277.1	7,045.0	40.9	43.9	90.00	-2,118.8	-960.3	717.8	636.0	81.74	8.781		
9,300.0	7,046.0	9,377.1	7,045.0	42.6	45.5	90.00	-2,218.8	-960.3	716.0	630.9	85.09	8.414		
9,400.0	7,046.0	9,477.1	7,045.0	44.3	47.0	90.00	-2,318.8	-960.3	714.2	625.8	88.46	8.074		
9,500.0	7,046.0	9,577.1	7,045.0	45.9	48.6	90.00	-2,418.8	-960.3	712.5	620.6	91.83	7.758		
9,600.0	7,046.0	9,677.1	7,045.0	47.6	50.2	90.00	-2,518.7	-960.3	710.7	615.5	95.22	7.464		
9,700.0	7,046.0	9,777.0	7,045.0	49.3	51.8	90.00	-2,618.7	-960.3	708.9	610.3	98.61	7.189		
9,800.0	7,046.0	9,877.0	7,045.0	51.0	53.4	90.00	-2,718.7	-960.3	707.2	605.2	102.01	6.932		
9,900.0	7,046.0	9,977.0	7,045.0	52.7	55.1	90.00	-2,818.7	-960.3	705.4	600.0	105.42	6.691		
10,000.0	7,046.0	10,077.0	7,045.0	54.4	56.7	90.00	-2,918.7	-960.2	703.7	594.8	108.84	6.465		
10,100.0	7,046.0	10,177.0	7,045.0	56.1	58.3	90.00	-3,018.7	-960.2	701.9	589.6	112.26	6.252		
10,200.0	7,046.0	10,277.0	7,045.0	57.8	60.0	90.00	-3,118.6	-960.2	700.1	584.4	115.68	6.052		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2D-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		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			
10,300.0	7,046.0	10,376.9	7,045.0	59.5	61.6	90.00	-3,218.6	-960.2	698.4	579.3	119.12	5.863		
10,400.0	7,046.0	10,476.9	7,045.0	61.3	63.3	90.00	-3,318.6	-960.2	696.6	574.1	122.55	5.684		
10,500.0	7,046.0	10,576.9	7,045.0	63.0	64.9	90.00	-3,418.6	-960.2	694.8	568.9	125.99	5.515		
10,600.0	7,046.0	10,676.9	7,045.0	64.7	66.6	90.00	-3,518.6	-960.2	693.1	563.6	129.43	5.355		
10,700.0	7,046.0	10,776.9	7,045.0	66.4	68.3	90.00	-3,618.6	-960.2	691.3	558.4	132.88	5.203		
10,800.0	7,046.0	10,876.9	7,045.0	68.1	70.0	90.00	-3,718.6	-960.2	689.6	553.2	136.33	5.058		
10,900.0	7,046.0	10,976.8	7,045.0	69.9	71.6	90.00	-3,818.5	-960.2	687.8	548.0	139.78	4.921		
11,000.0	7,046.0	11,076.8	7,045.0	71.6	73.3	90.00	-3,918.5	-960.2	686.0	542.8	143.23	4.790		
11,100.0	7,046.0	11,176.8	7,045.0	73.3	75.0	90.00	-4,018.5	-960.2	684.3	537.6	146.69	4.665		
11,200.0	7,046.0	11,276.8	7,045.0	75.0	76.7	90.00	-4,118.5	-960.2	682.5	532.3	150.15	4.545		
11,300.0	7,046.0	11,376.8	7,045.0	76.8	78.4	90.00	-4,218.5	-960.2	680.7	527.1	153.61	4.431		
11,400.0	7,046.0	11,476.8	7,045.0	78.5	80.1	90.00	-4,318.5	-960.2	679.0	521.9	157.08	4.323		
11,500.0	7,046.0	11,576.8	7,045.0	80.2	81.8	90.00	-4,418.4	-960.2	677.2	516.7	160.54	4.218		
11,600.0	7,046.0	11,676.7	7,045.0	82.0	83.5	90.00	-4,518.4	-960.2	675.4	511.4	164.01	4.118		
11,633.9	7,046.0	11,707.0	7,045.0	82.6	84.0	90.00	-4,548.7	-960.2	674.9	509.7	165.12	4.087 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2E-32H-C264 - 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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.90	0.0	-14.8	14.9					
100.0	100.0	99.0	99.0	0.1	0.1	-89.90	0.0	-14.8	14.8	14.6	0.24	60.981		
200.0	200.0	199.0	199.0	0.3	0.3	-89.90	0.0	-14.8	14.8	14.2	0.59	25.058		
300.0	300.0	299.0	299.0	0.5	0.5	-89.90	0.0	-14.8	14.8	13.9	0.94	15.760		
400.0	400.0	399.0	399.0	0.6	0.6	-89.90	0.0	-14.8	14.8	13.5	1.29	11.495 CC, ES		
500.0	500.0	498.8	498.7	0.8	0.8	-88.81	0.3	-15.6	15.6	14.0	1.64	9.538		
600.0	600.0	598.5	598.4	1.0	1.0	-51.66	1.2	-18.0	17.5	15.6	1.99	8.825		
700.0	700.0	698.1	698.0	1.2	1.2	-53.52	2.7	-22.1	20.0	17.7	2.34	8.562		
800.0	799.9	797.7	797.4	1.4	1.4	-56.86	4.9	-27.7	23.2	20.5	2.70	8.584		
900.0	899.7	897.2	896.6	1.5	1.6	-60.83	7.6	-35.0	27.0	24.0	3.07	8.814		
1,000.0	999.5	996.6	995.6	1.7	1.8	-63.02	10.9	-43.9	32.3	28.9	3.45	9.366		
1,100.0	1,099.2	1,095.9	1,094.2	1.9	2.0	-63.26	14.8	-54.3	39.1	35.2	3.83	10.190		
1,200.0	1,199.0	1,194.9	1,192.3	2.1	2.3	-62.36	19.3	-66.4	47.3	43.1	4.22	11.213		
1,300.0	1,298.8	1,293.6	1,290.0	2.3	2.6	-60.90	24.4	-79.9	57.1	52.5	4.61	12.394		
1,400.0	1,398.6	1,392.6	1,387.7	2.5	2.9	-59.31	30.0	-94.9	68.2	63.2	4.99	13.662		
1,500.0	1,498.4	1,491.9	1,485.7	2.7	3.2	-58.11	35.7	-110.0	79.5	74.1	5.38	14.782		
1,600.0	1,598.2	1,591.3	1,583.7	3.0	3.5	-57.20	41.4	-125.2	90.8	85.1	5.77	15.755		
1,700.0	1,698.0	1,690.6	1,681.7	3.2	3.8	-56.50	47.1	-140.4	102.2	96.0	6.15	16.607		
1,800.0	1,797.7	1,790.0	1,779.7	3.4	4.1	-55.93	52.7	-155.5	113.5	107.0	6.54	17.359		
1,900.0	1,897.5	1,889.3	1,877.8	3.6	4.5	-55.47	58.4	-170.7	124.9	118.0	6.93	18.027		
2,000.0	1,997.3	1,988.7	1,975.8	3.8	4.8	-55.09	64.1	-185.8	136.2	128.9	7.32	18.625		
2,100.0	2,097.1	2,088.0	2,073.8	4.0	5.1	-54.76	69.8	-201.0	147.6	139.9	7.70	19.163		
2,200.0	2,196.9	2,187.4	2,171.8	4.2	5.4	-54.48	75.5	-216.1	159.0	150.9	8.09	19.649		
2,300.0	2,296.7	2,286.7	2,269.9	4.4	5.8	-54.24	81.1	-231.3	170.4	161.9	8.48	20.091		
2,400.0	2,396.5	2,386.1	2,367.9	4.6	6.1	-54.03	86.8	-246.4	181.7	172.9	8.87	20.493		
2,500.0	2,496.2	2,485.4	2,465.9	4.8	6.4	-53.85	92.5	-261.6	193.1	183.9	9.26	20.862		
2,600.0	2,596.0	2,584.8	2,563.9	5.0	6.8	-53.68	98.2	-276.7	204.5	194.9	9.65	21.201		
2,700.0	2,695.8	2,684.1	2,661.9	5.2	7.1	-53.53	103.9	-291.9	215.9	205.9	10.03	21.514		
2,800.0	2,795.6	2,783.5	2,760.0	5.4	7.4	-53.40	109.5	-307.0	227.3	216.9	10.42	21.803		
2,900.0	2,895.4	2,882.8	2,858.0	5.6	7.7	-53.28	115.2	-322.2	238.7	227.9	10.81	22.072		
3,000.0	2,995.2	2,982.2	2,956.0	5.8	8.1	-53.17	120.9	-337.4	250.1	238.8	11.20	22.321		
3,100.0	3,095.0	3,081.5	3,054.0	6.1	8.4	-53.07	126.6	-352.5	261.4	249.8	11.59	22.554		
3,200.0	3,194.7	3,180.8	3,152.1	6.3	8.7	-52.98	132.2	-367.7	272.8	260.8	11.98	22.772		
3,300.0	3,294.5	3,280.2	3,250.1	6.5	9.1	-52.89	137.9	-382.8	284.2	271.8	12.37	22.976		
3,400.0	3,394.3	3,379.5	3,348.1	6.7	9.4	-52.82	143.6	-398.0	295.6	282.8	12.76	23.167		
3,500.0	3,494.1	3,478.9	3,446.1	6.9	9.7	-52.74	149.3	-413.1	307.0	293.9	13.15	23.347		
3,600.0	3,593.9	3,578.2	3,544.1	7.1	10.1	-52.68	155.0	-428.3	318.4	304.9	13.54	23.517		
3,700.0	3,693.7	3,677.6	3,642.2	7.3	10.4	-52.61	160.6	-443.4	329.8	315.9	13.93	23.677		
3,800.0	3,793.5	3,776.9	3,740.2	7.5	10.7	-52.56	166.3	-458.6	341.2	326.9	14.32	23.828		
3,900.0	3,893.2	3,876.3	3,838.2	7.7	11.1	-52.50	172.0	-473.7	352.6	337.9	14.71	23.971		
4,000.0	3,993.0	3,975.6	3,936.2	7.9	11.4	-52.45	177.7	-488.9	364.0	348.9	15.10	24.107		
4,100.0	4,092.8	4,075.0	4,034.2	8.1	11.7	-52.40	183.4	-504.1	375.4	359.9	15.49	24.236		
4,200.0	4,192.6	4,174.3	4,132.3	8.3	12.1	-52.36	189.0	-519.2	386.7	370.9	15.88	24.359		
4,300.0	4,292.4	4,273.7	4,230.3	8.5	12.4	-52.32	194.7	-534.4	398.1	381.9	16.27	24.475		
4,400.0	4,392.2	4,373.0	4,328.3	8.8	12.7	-52.28	200.4	-549.5	409.5	392.9	16.66	24.587		
4,500.0	4,492.0	4,472.4	4,426.3	9.0	13.0	-52.24	206.1	-564.7	420.9	403.9	17.05	24.693		
4,600.0	4,591.7	4,571.7	4,524.4	9.2	13.4	-52.20	211.8	-579.8	432.3	414.9	17.44	24.794		
4,700.0	4,691.5	4,671.1	4,622.4	9.4	13.7	-52.17	217.4	-595.0	443.7	425.9	17.83	24.891		
4,800.0	4,791.3	4,770.4	4,720.4	9.6	14.0	-52.14	223.1	-610.1	455.1	436.9	18.22	24.984		
4,900.0	4,891.1	4,869.8	4,818.4	9.8	14.4	-52.11	228.8	-625.3	466.5	447.9	18.61	25.073		
5,000.0	4,990.9	4,969.1	4,916.4	10.0	14.7	-52.08	234.5	-640.4	477.9	458.9	19.00	25.158		
5,100.0	5,090.7	5,068.5	5,014.5	10.2	15.0	-52.05	240.1	-655.6	489.3	469.9	19.39	25.240		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2E-32H-C264 - 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		Between Centres	Between Ellipses	Total Uncertainty	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis			
5,200.0	5,190.5	5,172.0	5,116.6	10.4	15.4	-52.03	246.0	-671.2	500.5	480.7	19.78	25.299		
5,300.0	5,290.2	5,280.6	5,224.1	10.6	15.7	-52.07	251.5	-685.9	510.2	490.0	20.19	25.266		
5,400.0	5,390.0	5,389.5	5,332.1	10.8	16.0	-52.19	256.3	-698.7	518.1	497.5	20.61	25.142		
5,500.0	5,489.8	5,498.6	5,440.6	11.0	16.3	-52.39	260.4	-709.7	524.2	503.2	21.02	24.933		
5,600.0	5,589.6	5,607.9	5,549.5	11.3	16.5	-52.65	263.8	-718.7	528.5	507.1	21.45	24.644		
5,700.0	5,689.4	5,717.4	5,658.7	11.5	16.7	-52.97	266.5	-725.8	531.3	509.4	21.86	24.303		
5,800.0	5,789.3	5,826.9	5,768.1	11.6	16.9	-53.21	268.4	-730.9	533.2	511.0	22.25	23.970		
5,900.0	5,889.3	5,936.4	5,877.6	11.8	17.0	-53.36	269.6	-734.1	534.4	511.8	22.60	23.645		
6,000.0	5,989.2	6,046.0	5,987.1	12.0	17.2	-53.41	270.0	-735.3	534.9	512.0	22.94	23.322		
6,100.0	6,089.2	6,147.1	6,088.2	12.1	17.3	-90.00	270.0	-735.3	534.9	511.6	23.37	22.886		
6,200.0	6,189.2	6,247.1	6,188.2	12.3	17.4	-90.00	270.0	-735.3	534.9	511.2	23.69	22.579		
6,300.0	6,289.2	6,347.1	6,288.2	12.4	17.5	-90.00	270.0	-735.3	534.9	510.9	24.01	22.279		
6,367.8	6,357.1	6,415.0	6,356.1	12.5	17.6	-90.00	270.0	-735.3	534.9	510.7	24.23	22.079		
6,400.0	6,389.2	6,447.1	6,388.2	12.6	17.6	-90.00	270.0	-735.3	534.9	510.6	24.33	21.986		
6,500.0	6,489.2	6,546.0	6,486.5	12.7	17.6	87.97	260.2	-735.3	535.0	510.5	24.55	21.790		
6,600.0	6,588.5	6,641.9	6,578.8	12.8	17.6	86.37	234.8	-735.3	535.3	510.6	24.74	21.634		
6,700.0	6,684.2	6,735.6	6,663.7	12.8	17.6	84.89	195.4	-735.3	535.7	510.9	24.73	21.660		
6,800.0	6,773.4	6,827.3	6,739.6	12.7	17.5	83.56	144.0	-735.3	536.0	511.4	24.59	21.801		
6,900.0	6,853.6	6,917.5	6,805.2	12.7	17.5	82.42	82.3	-735.3	536.2	511.8	24.43	21.951		
7,000.0	6,922.2	7,006.3	6,859.6	12.7	17.6	81.49	12.2	-735.3	536.2	511.8	24.42	21.960		
7,100.0	6,977.1	7,094.0	6,902.0	12.9	17.8	80.79	-64.5	-735.3	535.9	511.2	24.70	21.692		
7,200.0	7,016.8	7,181.0	6,932.1	13.3	18.0	80.33	-146.1	-735.3	535.1	509.7	25.43	21.044		
7,300.0	7,039.9	7,267.6	6,949.4	13.9	18.4	80.13	-230.8	-735.3	534.0	507.3	26.64	20.041		
7,400.0	7,046.0	7,356.1	6,954.0	14.7	19.0	80.16	-319.1	-735.3	532.4	504.1	28.30	18.809		
7,500.0	7,046.0	7,456.1	6,954.0	15.6	19.7	80.12	-419.1	-735.3	530.6	500.4	30.24	17.545		
7,600.0	7,046.0	7,556.1	6,954.0	16.7	20.5	80.09	-519.0	-735.3	528.9	496.5	32.42	16.312		
7,700.0	7,046.0	7,656.0	6,954.0	17.9	21.5	80.06	-619.0	-735.3	527.2	492.4	34.81	15.143		
7,800.0	7,046.0	7,756.0	6,954.0	19.1	22.6	80.03	-719.0	-735.3	525.4	488.1	37.37	14.062		
7,900.0	7,046.0	7,856.0	6,954.0	20.5	23.7	79.99	-819.0	-735.3	523.7	483.6	40.05	13.075		
8,000.0	7,046.0	7,956.0	6,954.0	21.9	24.9	79.96	-919.0	-735.3	522.0	479.1	42.85	12.180		
8,100.0	7,046.0	8,056.0	6,954.0	23.3	26.2	79.92	-1,019.0	-735.3	520.2	474.5	45.74	11.374		
8,200.0	7,046.0	8,156.0	6,954.0	24.8	27.5	79.89	-1,119.0	-735.3	518.5	469.8	48.70	10.647		
8,300.0	7,046.0	8,255.9	6,954.0	26.4	28.9	79.86	-1,218.9	-735.3	516.7	465.0	51.72	9.992		
8,400.0	7,046.0	8,355.9	6,954.0	27.9	30.3	79.82	-1,318.9	-735.3	515.0	460.2	54.79	9.400		
8,500.0	7,046.0	8,455.9	6,954.0	29.5	31.8	79.79	-1,418.9	-735.3	513.3	455.4	57.90	8.865		
8,600.0	7,046.0	8,555.9	6,954.0	31.1	33.2	79.75	-1,518.9	-735.3	511.5	450.5	61.05	8.379		
8,700.0	7,046.0	8,655.9	6,954.0	32.7	34.8	79.72	-1,618.9	-735.3	509.8	445.6	64.23	7.938		
8,800.0	7,046.0	8,755.9	6,954.0	34.3	36.3	79.68	-1,718.9	-735.3	508.1	440.6	67.43	7.535		
8,900.0	7,046.0	8,855.8	6,954.0	35.9	37.8	79.64	-1,818.8	-735.3	506.3	435.7	70.65	7.166		
9,000.0	7,046.0	8,955.8	6,954.0	37.6	39.4	79.61	-1,918.8	-735.3	504.6	430.7	73.90	6.828		
9,100.0	7,046.0	9,055.8	6,954.0	39.2	41.0	79.57	-2,018.8	-735.3	502.9	425.7	77.16	6.517		
9,200.0	7,046.0	9,155.8	6,954.0	40.9	42.6	79.54	-2,118.8	-735.3	501.1	420.7	80.43	6.230		
9,300.0	7,046.0	9,255.8	6,954.0	42.6	44.2	79.50	-2,218.8	-735.3	499.4	415.7	83.72	5.965		
9,400.0	7,046.0	9,355.8	6,954.0	44.3	45.8	79.46	-2,318.8	-735.3	497.7	410.7	87.02	5.719		
9,500.0	7,046.0	9,455.8	6,954.0	45.9	47.4	79.43	-2,418.8	-735.3	495.9	405.6	90.33	5.490		
9,600.0	7,046.0	9,555.7	6,954.0	47.6	49.0	79.39	-2,518.7	-735.3	494.2	400.6	93.65	5.277		
9,700.0	7,046.0	9,655.7	6,954.0	49.3	50.7	79.35	-2,618.7	-735.3	492.5	395.5	96.97	5.079		
9,800.0	7,046.0	9,755.7	6,954.0	51.0	52.3	79.31	-2,718.7	-735.3	490.7	390.4	100.30	4.893		
9,900.0	7,046.0	9,855.7	6,954.0	52.7	54.0	79.27	-2,818.7	-735.3	489.0	385.4	103.64	4.718		
10,000.0	7,046.0	9,955.7	6,954.0	54.4	55.7	79.24	-2,918.7	-735.3	487.3	380.3	106.98	4.555		
10,100.0	7,046.0	10,055.7	6,954.0	56.1	57.3	79.20	-3,018.7	-735.3	485.5	375.2	110.33	4.401		
10,200.0	7,046.0	10,155.6	6,954.0	57.8	59.0	79.16	-3,118.6	-735.3	483.8	370.1	113.68	4.256		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2E-32H-C264 - 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		
10,300.0	7,046.0	10,255.6	6,954.0	59.5	60.7	79.12	-3,218.6	-735.3	482.1	365.0	117.04	4.119		
10,400.0	7,046.0	10,355.6	6,954.0	61.3	62.3	79.08	-3,318.6	-735.3	480.4	360.0	120.39	3.990		
10,500.0	7,046.0	10,455.6	6,954.0	63.0	64.0	79.04	-3,418.6	-735.3	478.6	354.9	123.76	3.867		
10,600.0	7,046.0	10,555.6	6,954.0	64.7	65.7	79.00	-3,518.6	-735.3	476.9	349.8	127.12	3.752		
10,700.0	7,046.0	10,655.6	6,954.0	66.4	67.4	78.96	-3,618.6	-735.3	475.2	344.7	130.49	3.641		
10,800.0	7,046.0	10,755.6	6,954.0	68.1	69.1	78.92	-3,718.5	-735.3	473.4	339.6	133.85	3.537		
10,900.0	7,046.0	10,855.5	6,954.0	69.9	70.8	78.88	-3,818.5	-735.3	471.7	334.5	137.22	3.437		
11,000.0	7,046.0	10,955.5	6,954.0	71.6	72.5	78.83	-3,918.5	-735.3	470.0	329.4	140.59	3.343		
11,100.0	7,046.0	11,055.5	6,954.0	73.3	74.2	78.79	-4,018.5	-735.3	468.2	324.3	143.97	3.252		
11,200.0	7,046.0	11,155.5	6,954.0	75.0	75.9	78.75	-4,118.5	-735.3	466.5	319.2	147.34	3.166		
11,300.0	7,046.0	11,255.5	6,954.0	76.8	77.6	78.71	-4,218.5	-735.3	464.8	314.1	150.72	3.084		
11,400.0	7,046.0	11,355.5	6,954.0	78.5	79.3	78.66	-4,318.5	-735.3	463.1	309.0	154.09	3.005		
11,500.0	7,046.0	11,455.4	6,954.0	80.2	81.0	78.62	-4,418.4	-735.3	461.3	303.9	157.47	2.930		
11,600.0	7,046.0	11,555.4	6,954.0	82.0	82.8	78.58	-4,518.4	-735.3	459.6	298.8	160.84	2.857		
11,633.9	7,046.0	11,586.8	6,954.0	82.6	83.3	78.56	-4,549.8	-735.3	459.0	297.1	161.95	2.834 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2F-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.90	0.0	-7.6	7.6					
100.0	100.0	100.0	100.0	0.1	0.1	-89.90	0.0	-7.6	7.6	7.3	0.24	30.911		
200.0	200.0	200.0	200.0	0.3	0.3	-89.90	0.0	-7.6	7.6	7.0	0.59	12.728		
300.0	300.0	300.0	300.0	0.5	0.5	-89.90	0.0	-7.6	7.6	6.6	0.94	8.014		
400.0	400.0	400.0	400.0	0.6	0.6	-89.90	0.0	-7.6	7.6	6.3	1.29	5.848		
433.6	433.6	433.6	433.6	0.7	0.7	-89.90	0.0	-7.6	7.6	6.1	1.41	5.362 CC		
500.0	500.0	499.9	499.9	0.8	0.8	-89.15	0.1	-7.7	7.7	6.1	1.64	4.722 ES		
600.0	600.0	599.8	599.8	1.0	1.0	-51.84	0.9	-9.3	8.8	6.8	1.99	4.404		
700.0	700.0	699.6	699.6	1.2	1.2	-54.58	2.6	-12.3	10.3	7.9	2.34	4.386		
800.0	799.9	799.5	799.2	1.4	1.4	-59.15	5.1	-16.9	12.3	9.6	2.70	4.566		
900.0	899.7	899.2	898.8	1.5	1.6	-64.09	8.3	-23.1	15.1	12.0	3.08	4.898		
1,000.0	999.5	998.9	998.1	1.7	1.8	-65.35	12.4	-30.7	19.0	15.5	3.46	5.487		
1,100.0	1,099.2	1,098.5	1,097.1	1.9	2.0	-63.48	17.4	-39.9	24.2	20.4	3.85	6.304		
1,200.0	1,199.0	1,198.2	1,196.2	2.1	2.2	-60.96	22.8	-50.0	30.4	26.2	4.23	7.199		
1,300.0	1,298.8	1,298.0	1,295.3	2.3	2.5	-59.27	28.3	-60.2	36.7	32.1	4.61	7.957		
1,400.0	1,398.6	1,397.8	1,394.4	2.5	2.7	-58.08	33.8	-70.4	43.0	38.0	5.00	8.602		
1,500.0	1,498.4	1,497.6	1,493.5	2.7	3.0	-57.19	39.3	-80.6	49.3	43.9	5.39	9.155		
1,600.0	1,598.2	1,597.4	1,592.7	3.0	3.2	-56.50	44.7	-90.9	55.6	49.8	5.77	9.634		
1,700.0	1,698.0	1,697.2	1,691.8	3.2	3.5	-55.95	50.2	-101.1	61.9	55.8	6.16	10.054		
1,800.0	1,797.7	1,797.0	1,790.9	3.4	3.8	-55.50	55.7	-111.3	68.3	61.7	6.55	10.423		
1,900.0	1,897.5	1,896.8	1,890.0	3.6	4.0	-55.13	61.2	-121.5	74.6	67.7	6.94	10.751		
2,000.0	1,997.3	1,996.6	1,989.2	3.8	4.3	-54.82	66.7	-131.7	80.9	73.6	7.33	11.045		
2,100.0	2,097.1	2,096.4	2,088.3	4.0	4.5	-54.55	72.2	-141.9	87.3	79.5	7.72	11.308		
2,200.0	2,196.9	2,196.2	2,187.4	4.2	4.8	-54.32	77.6	-152.1	93.6	85.5	8.11	11.546		
2,300.0	2,296.7	2,296.0	2,286.5	4.4	5.1	-54.12	83.1	-162.3	99.9	91.4	8.49	11.763		
2,400.0	2,396.5	2,395.8	2,385.7	4.6	5.3	-53.94	88.6	-172.5	106.3	97.4	8.88	11.960		
2,500.0	2,496.2	2,495.6	2,484.8	4.8	5.6	-53.78	94.1	-182.7	112.6	103.3	9.27	12.140		
2,600.0	2,596.0	2,595.4	2,583.9	5.0	5.9	-53.64	99.6	-192.9	118.9	109.3	9.66	12.306		
2,700.0	2,695.8	2,695.2	2,683.0	5.2	6.1	-53.51	105.0	-203.1	125.3	115.2	10.05	12.459		
2,800.0	2,795.6	2,795.0	2,782.1	5.4	6.4	-53.40	110.5	-213.3	131.6	121.2	10.45	12.600		
2,900.0	2,895.4	2,894.8	2,881.3	5.6	6.7	-53.30	116.0	-223.6	137.9	127.1	10.84	12.731		
3,000.0	2,995.2	2,994.6	2,980.4	5.8	6.9	-53.20	121.5	-233.8	144.3	133.1	11.23	12.853		
3,100.0	3,095.0	3,094.4	3,079.5	6.1	7.2	-53.11	127.0	-244.0	150.6	139.0	11.62	12.967		
3,200.0	3,194.7	3,194.2	3,178.6	6.3	7.5	-53.03	132.4	-254.2	157.0	145.0	12.01	13.073		
3,300.0	3,294.5	3,294.0	3,277.8	6.5	7.7	-52.96	137.9	-264.4	163.3	150.9	12.40	13.172		
3,400.0	3,394.3	3,393.8	3,376.9	6.7	8.0	-52.89	143.4	-274.6	169.6	156.9	12.79	13.266		
3,500.0	3,494.1	3,493.6	3,476.0	6.9	8.3	-52.83	148.9	-284.8	176.0	162.8	13.18	13.354		
3,600.0	3,593.9	3,593.4	3,575.1	7.1	8.5	-52.77	154.4	-295.0	182.3	168.8	13.57	13.436		
3,700.0	3,693.7	3,693.2	3,674.3	7.3	8.8	-52.71	159.9	-305.2	188.7	174.7	13.96	13.514		
3,800.0	3,793.5	3,793.0	3,773.4	7.5	9.0	-52.66	165.3	-315.4	195.0	180.7	14.35	13.588		
3,900.0	3,893.2	3,892.8	3,872.5	7.7	9.3	-52.62	170.8	-325.6	201.4	186.6	14.74	13.658		
4,000.0	3,993.0	3,992.6	3,971.6	7.9	9.6	-52.57	176.3	-335.8	207.7	192.6	15.13	13.724		
4,100.0	4,092.8	4,092.4	4,070.8	8.1	9.8	-52.53	181.8	-346.0	214.0	198.5	15.52	13.787		
4,200.0	4,192.6	4,192.2	4,169.9	8.3	10.1	-52.49	187.3	-356.3	220.4	204.5	15.92	13.847		
4,300.0	4,292.4	4,292.0	4,269.0	8.5	10.4	-52.45	192.7	-366.5	226.7	210.4	16.31	13.904		
4,400.0	4,392.2	4,391.8	4,368.1	8.8	10.6	-52.41	198.2	-376.7	233.1	216.4	16.70	13.958		
4,500.0	4,492.0	4,491.6	4,467.3	9.0	10.9	-52.38	203.7	-386.9	239.4	222.3	17.09	14.009		
4,600.0	4,591.7	4,591.4	4,566.4	9.2	11.2	-52.35	209.2	-397.1	245.8	228.3	17.48	14.059		
4,700.0	4,691.5	4,691.2	4,665.5	9.4	11.4	-52.32	214.7	-407.3	252.1	234.2	17.87	14.106		
4,800.0	4,791.3	4,791.0	4,764.6	9.6	11.7	-52.29	220.2	-417.5	258.4	240.2	18.26	14.151		
4,900.0	4,891.1	4,890.8	4,863.7	9.8	12.0	-52.26	225.6	-427.7	264.8	246.1	18.65	14.194		
5,000.0	4,990.9	4,990.6	4,962.9	10.0	12.2	-52.23	231.1	-437.9	271.1	252.1	19.05	14.236		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2F-32H-C264 - 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		
5,100.0	5,090.7	5,090.4	5,062.0	10.2	12.5	-52.21	236.6	-448.1	277.5	258.0	19.44	14.276		
5,200.0	5,190.5	5,190.2	5,161.1	10.4	12.8	-52.19	242.1	-458.3	283.8	264.0	19.83	14.314		
5,300.0	5,290.2	5,290.0	5,260.2	10.6	13.0	-52.16	247.6	-468.5	290.2	269.9	20.22	14.351		
5,400.0	5,390.0	5,391.0	5,360.6	10.8	13.3	-52.15	253.1	-478.8	296.4	275.8	20.61	14.382		
5,500.0	5,489.8	5,495.7	5,464.7	11.0	13.6	-52.25	258.2	-488.3	301.6	280.6	21.02	14.349		
5,600.0	5,589.6	5,600.6	5,569.2	11.3	13.8	-52.51	262.3	-496.1	305.1	283.7	21.43	14.237		
5,700.0	5,689.4	5,705.5	5,673.9	11.5	14.0	-52.89	265.6	-502.2	307.2	285.4	21.84	14.067		
5,800.0	5,789.3	5,810.5	5,778.8	11.6	14.2	-53.17	268.0	-506.6	308.7	286.5	22.22	13.892		
5,900.0	5,889.3	5,915.4	5,883.7	11.8	14.3	-53.35	269.5	-509.3	309.6	287.0	22.57	13.716		
6,000.0	5,989.2	6,020.4	5,988.7	12.0	14.5	-53.41	270.0	-510.3	309.9	287.1	22.90	13.535		
6,100.0	6,089.2	6,121.0	6,089.2	12.1	14.6	-90.00	270.0	-510.4	310.0	286.6	23.31	13.298		
6,200.0	6,189.2	6,221.0	6,189.2	12.3	14.7	-90.00	270.0	-510.4	310.0	286.3	23.63	13.119		
6,300.0	6,289.2	6,321.0	6,289.2	12.4	14.9	-90.00	270.0	-510.4	310.0	286.0	23.94	12.944		
6,400.0	6,389.2	6,421.0	6,389.2	12.6	15.0	-90.00	270.0	-510.4	310.0	285.7	24.26	12.774		
6,500.0	6,489.2	6,521.0	6,489.2	12.7	15.1	89.04	270.0	-510.4	309.9	285.5	24.49	12.654		
6,562.9	6,551.9	6,583.6	6,551.9	12.8	15.2	90.00	270.0	-510.4	309.9	285.4	24.55	12.621		
6,600.0	6,588.5	6,620.2	6,588.5	12.8	15.2	91.14	270.0	-510.4	310.0	285.4	24.54	12.629		
6,700.0	6,684.2	6,721.4	6,689.3	12.8	15.3	95.21	263.5	-510.4	311.1	286.8	24.33	12.789		
6,800.0	6,773.4	6,827.3	6,792.0	12.7	15.3	99.22	238.0	-510.4	313.5	289.5	24.07	13.028		
6,900.0	6,853.6	6,938.0	6,892.3	12.7	15.3	102.99	191.6	-510.4	316.8	293.0	23.87	13.274		
7,000.0	6,922.2	7,053.7	6,985.7	12.7	15.2	106.38	123.5	-510.4	320.5	296.7	23.83	13.451		
7,100.0	6,977.1	7,174.2	7,066.2	12.9	15.3	109.23	34.3	-510.4	324.0	299.9	24.07	13.462		
7,200.0	7,016.8	7,298.8	7,128.1	13.3	15.5	111.44	-73.6	-510.4	326.5	301.9	24.57	13.290		
7,300.0	7,039.9	7,426.5	7,165.8	13.9	16.1	112.88	-195.3	-510.4	327.5	302.0	25.49	12.848		
7,400.0	7,046.0	7,550.9	7,176.0	14.7	16.9	113.46	-319.1	-510.4	326.6	299.7	26.84	12.169		
7,500.0	7,046.0	7,650.9	7,176.0	15.6	17.7	113.59	-419.1	-510.4	324.9	296.3	28.63	11.349		
7,600.0	7,046.0	7,750.9	7,176.0	16.7	18.7	113.71	-519.0	-510.3	323.3	292.7	30.65	10.551		
7,700.0	7,046.0	7,850.9	7,176.0	17.9	19.7	113.84	-619.0	-510.3	321.7	288.9	32.84	9.795		
7,800.0	7,046.0	7,950.8	7,176.0	19.1	20.9	113.96	-719.0	-510.3	320.1	284.9	35.19	9.096		
7,900.0	7,046.0	8,050.8	7,176.0	20.5	22.1	114.09	-819.0	-510.3	318.5	280.8	37.66	8.458		
8,000.0	7,046.0	8,150.8	7,176.0	21.9	23.4	114.22	-919.0	-510.3	316.9	276.7	40.22	7.879		
8,100.0	7,046.0	8,250.8	7,176.0	23.3	24.8	114.35	-1,019.0	-510.3	315.3	272.4	42.86	7.357		
8,200.0	7,046.0	8,350.8	7,176.0	24.8	26.2	114.49	-1,119.0	-510.3	313.7	268.1	45.56	6.885		
8,300.0	7,046.0	8,450.8	7,176.0	26.4	27.6	114.62	-1,218.9	-510.3	312.1	263.8	48.31	6.460		
8,400.0	7,046.0	8,550.8	7,176.0	27.9	29.1	114.76	-1,318.9	-510.3	310.5	259.4	51.10	6.076		
8,500.0	7,046.0	8,650.7	7,176.0	29.5	30.6	114.89	-1,418.9	-510.3	308.9	255.0	53.92	5.728		
8,600.0	7,046.0	8,750.7	7,176.0	31.1	32.2	115.03	-1,518.9	-510.3	307.3	250.5	56.77	5.412		
8,700.0	7,046.0	8,850.7	7,176.0	32.7	33.7	115.17	-1,618.9	-510.3	305.7	246.0	59.64	5.125		
8,800.0	7,046.0	8,950.7	7,176.0	34.3	35.3	115.31	-1,718.9	-510.3	304.1	241.6	62.53	4.863		
8,900.0	7,046.0	9,050.7	7,176.0	35.9	36.9	115.46	-1,818.8	-510.3	302.5	237.1	65.43	4.623		
9,000.0	7,046.0	9,150.7	7,176.0	37.6	38.5	115.60	-1,918.8	-510.3	300.9	232.6	68.34	4.403		
9,100.0	7,046.0	9,250.6	7,176.0	39.2	40.1	115.75	-2,018.8	-510.3	299.3	228.1	71.26	4.200		
9,200.0	7,046.0	9,350.6	7,176.0	40.9	41.7	115.89	-2,118.8	-510.3	297.7	223.5	74.19	4.013		
9,300.0	7,046.0	9,450.6	7,176.0	42.6	43.4	116.04	-2,218.8	-510.3	296.1	219.0	77.12	3.840		
9,400.0	7,046.0	9,550.6	7,176.0	44.3	45.0	116.19	-2,318.8	-510.3	294.6	214.5	80.05	3.680		
9,500.0	7,046.0	9,650.6	7,176.0	45.9	46.7	116.34	-2,418.7	-510.3	293.0	210.0	82.98	3.531		
9,600.0	7,046.0	9,750.6	7,176.0	47.6	48.3	116.50	-2,518.7	-510.3	291.4	205.5	85.91	3.392		
9,700.0	7,046.0	9,850.5	7,176.0	49.3	50.0	116.65	-2,618.7	-510.3	289.8	201.0	88.84	3.262		
9,800.0	7,046.0	9,950.5	7,176.0	51.0	51.7	116.81	-2,718.7	-510.3	288.3	196.5	91.76	3.141		
9,900.0	7,046.0	10,050.5	7,176.0	52.7	53.3	116.97	-2,818.7	-510.3	286.7	192.0	94.68	3.028		
10,000.0	7,046.0	10,150.5	7,176.0	54.4	55.0	117.13	-2,918.7	-510.3	285.1	187.5	97.60	2.921		
10,100.0	7,046.0	10,250.5	7,176.0	56.1	56.7	117.29	-3,018.7	-510.3	283.5	183.0	100.51	2.821		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2F-32H-C264 - 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	
10,200.0	7,046.0	10,350.5	7,176.0	57.8	58.4	117.46	-3,118.6	-510.3	282.0	178.6	103.42	2.727		
10,300.0	7,046.0	10,450.5	7,176.0	59.5	60.1	117.62	-3,218.6	-510.3	280.4	174.1	106.31	2.638		
10,400.0	7,046.0	10,550.4	7,176.0	61.3	61.8	117.79	-3,318.6	-510.3	278.9	169.6	109.20	2.554		
10,500.0	7,046.0	10,650.4	7,176.0	63.0	63.5	117.96	-3,418.6	-510.3	277.3	165.2	112.09	2.474		
10,600.0	7,046.0	10,750.4	7,176.0	64.7	65.2	118.13	-3,518.6	-510.3	275.7	160.8	114.96	2.399		
10,700.0	7,046.0	10,850.4	7,176.0	66.4	66.9	118.31	-3,618.6	-510.3	274.2	156.4	117.82	2.327		
10,800.0	7,046.0	10,950.4	7,176.0	68.1	68.6	118.48	-3,718.5	-510.3	272.6	152.0	120.68	2.259		
10,900.0	7,046.0	11,050.4	7,176.0	69.9	70.3	118.66	-3,818.5	-510.3	271.1	147.6	123.52	2.195		
11,000.0	7,046.0	11,150.3	7,176.0	71.6	72.0	118.84	-3,918.5	-510.3	269.5	143.2	126.35	2.133		
11,100.0	7,046.0	11,250.3	7,176.0	73.3	73.8	119.02	-4,018.5	-510.3	268.0	138.8	129.17	2.075		
11,200.0	7,046.0	11,350.3	7,176.0	75.0	75.5	119.20	-4,118.5	-510.3	266.5	134.5	131.98	2.019		
11,300.0	7,046.0	11,450.3	7,176.0	76.8	77.2	119.39	-4,218.5	-510.3	264.9	130.1	134.78	1.966		
11,400.0	7,046.0	11,550.3	7,176.0	78.5	78.9	119.58	-4,318.5	-510.3	263.4	125.8	137.56	1.915		
11,500.0	7,046.0	11,650.3	7,176.0	80.2	80.6	119.77	-4,418.4	-510.3	261.9	121.5	140.33	1.866		
11,600.0	7,046.0	11,750.3	7,176.0	82.0	82.4	119.96	-4,518.4	-510.3	260.3	117.2	143.08	1.819		
11,633.9	7,046.0	11,783.1	7,176.0	82.6	82.9	120.03	-4,551.2	-510.3	259.8	115.8	144.00	1.804 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2H-32H-C264 - 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	92.38	-0.3	7.6	7.6					
100.0	100.0	100.0	100.0	0.1	0.1	92.38	-0.3	7.6	7.6	7.3	0.24	30.937		
200.0	200.0	200.0	200.0	0.3	0.3	92.38	-0.3	7.6	7.6	7.0	0.59	12.739		
300.0	300.0	300.0	300.0	0.5	0.5	92.38	-0.3	7.6	7.6	6.6	0.94	8.021		
400.0	400.0	400.0	400.0	0.6	0.6	92.38	-0.3	7.6	7.6	6.3	1.29	5.853		
500.0	500.0	500.0	500.0	0.8	0.8	90.78	-0.1	7.5	7.5	5.9	1.64	4.572		
531.1	531.1	531.1	531.1	0.9	0.9	125.24	0.2	7.4	7.5	5.7	1.75	4.266 CC		
600.0	600.0	600.0	600.0	1.0	1.0	119.90	1.6	7.1	7.6	5.7	1.99	3.839 ES		
700.0	700.0	700.0	700.0	1.2	1.2	111.90	5.0	6.2	8.6	6.2	2.35	3.653		
800.0	799.9	800.0	799.8	1.4	1.4	106.31	9.9	5.0	10.3	7.6	2.72	3.792		
900.0	899.7	900.0	899.6	1.5	1.6	108.75	15.0	3.7	12.6	9.5	3.09	4.066		
1,000.0	999.5	999.9	999.5	1.7	1.7	112.23	20.1	2.4	15.1	11.6	3.48	4.332		
1,100.0	1,099.2	1,099.9	1,099.3	1.9	1.9	114.71	25.3	1.1	17.6	13.7	3.86	4.552		
1,200.0	1,199.0	1,199.9	1,199.1	2.1	2.1	116.57	30.4	-0.2	20.1	15.9	4.25	4.737		
1,300.0	1,298.8	1,299.8	1,298.9	2.3	2.3	118.02	35.6	-1.5	22.7	18.0	4.63	4.893		
1,400.0	1,398.6	1,399.8	1,398.8	2.5	2.5	119.17	40.7	-2.8	25.2	20.2	5.02	5.026		
1,500.0	1,498.4	1,499.8	1,498.6	2.7	2.7	120.10	45.8	-4.1	27.8	22.4	5.41	5.142		
1,600.0	1,598.2	1,599.7	1,598.4	3.0	2.9	120.88	51.0	-5.4	30.4	24.6	5.80	5.242		
1,700.0	1,698.0	1,699.7	1,698.2	3.2	3.1	121.54	56.1	-6.7	33.0	26.8	6.19	5.331		
1,800.0	1,797.7	1,799.7	1,798.1	3.4	3.3	122.10	61.2	-8.0	35.6	29.0	6.58	5.409		
1,900.0	1,897.5	1,899.6	1,897.9	3.6	3.5	122.58	66.4	-9.2	38.2	31.2	6.96	5.479		
2,000.0	1,997.3	1,999.6	1,997.7	3.8	3.7	123.01	71.5	-10.5	40.8	33.4	7.35	5.541		
2,100.0	2,097.1	2,099.6	2,097.5	4.0	3.9	123.38	76.7	-11.8	43.4	35.6	7.74	5.597		
2,200.0	2,196.9	2,199.5	2,197.4	4.2	4.1	123.71	81.8	-13.1	45.9	37.8	8.13	5.648		
2,300.0	2,296.7	2,299.5	2,297.2	4.4	4.3	124.00	86.9	-14.4	48.5	40.0	8.53	5.695		
2,400.0	2,396.5	2,399.5	2,397.0	4.6	4.5	124.27	92.1	-15.7	51.2	42.2	8.92	5.737		
2,500.0	2,496.2	2,499.4	2,496.8	4.8	4.7	124.51	97.2	-17.0	53.8	44.4	9.31	5.776		
2,600.0	2,596.0	2,599.4	2,596.7	5.0	4.9	124.73	102.3	-18.3	56.4	46.7	9.70	5.812		
2,700.0	2,695.8	2,699.4	2,696.5	5.2	5.1	124.92	107.5	-19.6	59.0	48.9	10.09	5.845		
2,800.0	2,795.6	2,799.3	2,796.3	5.4	5.3	125.10	112.6	-20.9	61.6	51.1	10.48	5.876		
2,900.0	2,895.4	2,899.3	2,896.1	5.6	5.5	125.27	117.8	-22.2	64.2	53.3	10.87	5.904		
3,000.0	2,995.2	2,999.3	2,996.0	5.8	5.7	125.42	122.9	-23.5	66.8	55.5	11.26	5.931		
3,100.0	3,095.0	3,099.2	3,095.8	6.1	5.8	125.57	128.0	-24.8	69.4	57.7	11.65	5.955		
3,200.0	3,194.7	3,199.2	3,195.6	6.3	6.0	125.70	133.2	-26.1	72.0	59.9	12.04	5.979		
3,300.0	3,294.5	3,299.2	3,295.4	6.5	6.2	125.82	138.3	-27.4	74.6	62.2	12.43	6.000		
3,400.0	3,394.3	3,399.1	3,395.3	6.7	6.4	125.94	143.4	-28.7	77.2	64.4	12.82	6.021		
3,500.0	3,494.1	3,499.1	3,495.1	6.9	6.6	126.04	148.6	-29.9	79.8	66.6	13.21	6.040		
3,600.0	3,593.9	3,599.1	3,594.9	7.1	6.8	126.14	153.7	-31.2	82.4	68.8	13.60	6.058		
3,700.0	3,693.7	3,699.0	3,694.7	7.3	7.0	126.24	158.9	-32.5	85.0	71.0	14.00	6.075		
3,800.0	3,793.5	3,799.0	3,794.6	7.5	7.2	126.32	164.0	-33.8	87.6	73.2	14.39	6.091		
3,900.0	3,893.2	3,899.0	3,894.4	7.7	7.4	126.41	169.1	-35.1	90.2	75.5	14.78	6.107		
4,000.0	3,993.0	3,998.9	3,994.2	7.9	7.6	126.49	174.3	-36.4	92.8	77.7	15.17	6.121		
4,100.0	4,092.8	4,098.9	4,094.0	8.1	7.8	126.56	179.4	-37.7	95.5	79.9	15.56	6.135		
4,200.0	4,192.6	4,198.9	4,193.9	8.3	8.0	126.63	184.6	-39.0	98.1	82.1	15.95	6.148		
4,300.0	4,292.4	4,298.8	4,293.7	8.5	8.2	126.70	189.7	-40.3	100.7	84.3	16.34	6.161		
4,400.0	4,392.2	4,398.8	4,393.5	8.8	8.4	126.76	194.8	-41.6	103.3	86.5	16.73	6.172		
4,500.0	4,492.0	4,498.8	4,493.4	9.0	8.6	126.82	200.0	-42.9	105.9	88.8	17.12	6.184		
4,600.0	4,591.7	4,598.7	4,593.2	9.2	8.8	126.88	205.1	-44.2	108.5	91.0	17.52	6.195		
4,700.0	4,691.5	4,698.7	4,693.0	9.4	9.0	126.93	210.2	-45.5	111.1	93.2	17.91	6.205		
4,800.0	4,791.3	4,798.7	4,792.8	9.6	9.2	126.98	215.4	-46.8	113.7	95.4	18.30	6.215		
4,900.0	4,891.1	4,898.6	4,892.7	9.8	9.4	127.03	220.5	-48.1	116.3	97.6	18.69	6.225		
5,000.0	4,990.9	4,998.6	4,992.5	10.0	9.6	127.08	225.7	-49.4	118.9	99.9	19.08	6.234		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2H-32H-C264 - 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		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			
5,100.0	5,090.7	5,098.6	5,092.3	10.2	9.8	127.13	230.8	-50.7	121.5	102.1	19.47	6.243		
5,200.0	5,190.5	5,198.5	5,192.1	10.4	10.0	127.17	235.9	-51.9	124.2	104.3	19.86	6.251		
5,300.0	5,290.2	5,298.5	5,292.0	10.6	10.2	127.21	241.1	-53.2	126.8	106.5	20.25	6.259		
5,400.0	5,390.0	5,398.4	5,391.8	10.8	10.4	127.25	246.2	-54.5	129.4	108.7	20.64	6.267		
5,500.0	5,489.8	5,498.4	5,491.6	11.0	10.6	127.29	251.3	-55.8	132.0	111.0	21.04	6.274		
5,600.0	5,589.6	5,598.4	5,591.4	11.3	10.8	127.33	256.5	-57.1	134.6	113.2	21.43	6.282		
5,700.0	5,689.4	5,698.4	5,691.3	11.5	11.0	127.25	261.6	-58.4	137.0	115.2	21.82	6.278		
5,800.0	5,789.3	5,797.8	5,790.6	11.6	11.2	126.96	266.0	-59.5	138.6	116.4	22.19	6.244		
5,900.0	5,889.3	5,897.2	5,889.9	11.8	11.3	126.78	268.7	-60.2	139.6	117.0	22.54	6.192		
6,000.0	5,989.2	5,996.6	5,989.3	12.0	11.5	126.71	269.7	-60.4	139.9	117.1	22.86	6.122		
6,100.0	6,089.2	6,096.5	6,089.2	12.1	11.6	90.13	269.7	-60.4	140.0	116.7	23.21	6.030		
6,200.0	6,189.2	6,196.5	6,189.2	12.3	11.8	90.13	269.7	-60.4	140.0	116.4	23.53	5.948		
6,300.0	6,289.2	6,296.5	6,289.2	12.4	12.0	90.13	269.7	-60.4	140.0	116.1	23.85	5.868		
6,364.3	6,353.5	6,360.7	6,353.5	12.5	12.1	90.13	269.7	-60.4	140.0	115.9	24.05	5.818		
6,400.0	6,389.2	6,396.5	6,389.2	12.6	12.1	90.15	269.6	-60.4	140.0	115.8	24.17	5.791		
6,404.8	6,394.0	6,401.2	6,394.0	12.6	12.1	-90.83	269.6	-60.4	140.0	115.8	24.15	5.796		
6,500.0	6,489.2	6,495.2	6,487.4	12.7	12.2	-86.96	259.9	-60.4	140.3	116.1	24.23	5.790		
6,600.0	6,588.5	6,591.1	6,579.7	12.8	12.2	-80.86	234.5	-60.4	142.4	118.4	24.07	5.917		
6,700.0	6,684.2	6,684.8	6,664.6	12.8	12.1	-75.32	195.2	-60.4	146.2	122.3	23.81	6.137		
6,800.0	6,773.4	6,776.5	6,740.4	12.7	12.0	-70.53	143.8	-60.4	151.0	127.4	23.54	6.414		
6,900.0	6,853.6	6,866.6	6,806.0	12.7	12.0	-66.57	82.1	-60.4	156.3	133.0	23.30	6.710		
7,000.0	6,922.2	6,955.3	6,860.4	12.7	12.1	-63.47	12.1	-60.4	161.7	138.5	23.16	6.981		
7,100.0	6,977.1	7,043.1	6,902.9	12.9	12.4	-61.18	-64.6	-60.4	166.6	143.4	23.22	7.176		
7,200.0	7,016.8	7,130.1	6,933.0	13.3	12.8	-59.66	-146.1	-60.4	170.7	147.2	23.56	7.246		
7,300.0	7,039.9	7,216.6	6,950.4	13.9	13.4	-58.88	-230.8	-60.4	173.8	149.6	24.26	7.163		
7,400.0	7,046.0	7,305.1	6,955.0	14.7	14.1	-58.81	-319.1	-60.4	175.7	150.3	25.42	6.913		
7,500.0	7,046.0	7,405.1	6,955.0	15.6	15.1	-59.10	-419.1	-60.4	177.2	150.1	27.16	6.526		
7,600.0	7,046.0	7,505.1	6,955.0	16.7	16.2	-59.39	-519.0	-60.4	178.8	149.6	29.13	6.137		
7,700.0	7,046.0	7,605.0	6,955.0	17.9	17.4	-59.68	-619.0	-60.4	180.3	149.0	31.28	5.763		
7,800.0	7,046.0	7,705.0	6,955.0	19.1	18.7	-59.96	-719.0	-60.4	181.8	148.2	33.59	5.413		
7,900.0	7,046.0	7,805.0	6,955.0	20.5	20.1	-60.24	-819.0	-60.4	183.3	147.3	36.03	5.089		
8,000.0	7,046.0	7,905.0	6,955.0	21.9	21.5	-60.51	-919.0	-60.4	184.9	146.3	38.57	4.793		
8,100.0	7,046.0	8,005.0	6,955.0	23.3	23.0	-60.77	-1,019.0	-60.4	186.4	145.2	41.21	4.523		
8,200.0	7,046.0	8,105.0	6,955.0	24.8	24.5	-61.04	-1,118.9	-60.4	187.9	144.0	43.92	4.279		
8,300.0	7,046.0	8,204.9	6,955.0	26.4	26.0	-61.29	-1,218.9	-60.4	189.5	142.8	46.70	4.057		
8,400.0	7,046.0	8,304.9	6,955.0	27.9	27.6	-61.55	-1,318.9	-60.4	191.0	141.5	49.54	3.856		
8,500.0	7,046.0	8,404.9	6,955.0	29.5	29.1	-61.80	-1,418.9	-60.4	192.6	140.2	52.42	3.674		
8,600.0	7,046.0	8,504.9	6,955.0	31.1	30.8	-62.04	-1,518.9	-60.4	194.1	138.8	55.35	3.507		
8,700.0	7,046.0	8,604.9	6,955.0	32.7	32.4	-62.28	-1,618.9	-60.4	195.7	137.4	58.32	3.356		
8,800.0	7,046.0	8,704.9	6,955.0	34.3	34.0	-62.52	-1,718.9	-60.4	197.3	135.9	61.32	3.217		
8,900.0	7,046.0	8,804.9	6,955.0	35.9	35.7	-62.76	-1,818.8	-60.4	198.8	134.5	64.36	3.089		
9,000.0	7,046.0	8,904.8	6,955.0	37.6	37.3	-62.99	-1,918.8	-60.4	200.4	133.0	67.42	2.972		
9,100.0	7,046.0	9,004.8	6,955.0	39.2	39.0	-63.22	-2,018.8	-60.4	202.0	131.5	70.50	2.865		
9,200.0	7,046.0	9,104.8	6,955.0	40.9	40.6	-63.44	-2,118.8	-60.4	203.5	129.9	73.61	2.765		
9,300.0	7,046.0	9,204.8	6,955.0	42.6	42.3	-63.66	-2,218.8	-60.4	205.1	128.4	76.74	2.673		
9,400.0	7,046.0	9,304.8	6,955.0	44.3	44.0	-63.88	-2,318.8	-60.4	206.7	126.8	79.89	2.587		
9,500.0	7,046.0	9,404.8	6,955.0	45.9	45.7	-64.09	-2,418.7	-60.4	208.3	125.2	83.06	2.508		
9,600.0	7,046.0	9,504.7	6,955.0	47.6	47.4	-64.30	-2,518.7	-60.4	209.9	123.6	86.25	2.433		
9,700.0	7,046.0	9,604.7	6,955.0	49.3	49.1	-64.51	-2,618.7	-60.4	211.5	122.0	89.45	2.364		
9,800.0	7,046.0	9,704.7	6,955.0	51.0	50.8	-64.71	-2,718.7	-60.4	213.0	120.4	92.66	2.299		
9,900.0	7,046.0	9,804.7	6,955.0	52.7	52.5	-64.91	-2,818.7	-60.4	214.6	118.7	95.89	2.238		
10,000.0	7,046.0	9,904.7	6,955.0	54.4	54.2	-65.11	-2,918.7	-60.4	216.2	117.1	99.13	2.181		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2H-32H-C264 - 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		
10,100.0	7,046.0	10,004.7	6,955.0	56.1	55.9	-65.30	-3,018.7	-60.4	217.8	115.5	102.38	2.128		
10,200.0	7,046.0	10,104.6	6,955.0	57.8	57.6	-65.50	-3,118.6	-60.4	219.4	113.8	105.65	2.077		
10,300.0	7,046.0	10,204.6	6,955.0	59.5	59.3	-65.69	-3,218.6	-60.4	221.0	112.1	108.92	2.029		
10,400.0	7,046.0	10,304.6	6,955.0	61.3	61.1	-65.87	-3,318.6	-60.4	222.7	110.4	112.21	1.984		
10,500.0	7,046.0	10,404.6	6,955.0	63.0	62.8	-66.06	-3,418.6	-60.4	224.3	108.8	115.50	1.942		
10,600.0	7,046.0	10,504.6	6,955.0	64.7	64.5	-66.24	-3,518.6	-60.4	225.9	107.1	118.81	1.901		
10,700.0	7,046.0	10,604.6	6,955.0	66.4	66.2	-66.42	-3,618.6	-60.4	227.5	105.4	122.12	1.863		
10,800.0	7,046.0	10,704.6	6,955.0	68.1	67.9	-66.59	-3,718.5	-60.4	229.1	103.7	125.44	1.826		
10,900.0	7,046.0	10,804.5	6,955.0	69.9	69.7	-66.77	-3,818.5	-60.4	230.7	102.0	128.77	1.792		
11,000.0	7,046.0	10,904.5	6,955.0	71.6	71.4	-66.94	-3,918.5	-60.4	232.3	100.2	132.10	1.759		
11,100.0	7,046.0	11,004.5	6,955.0	73.3	73.1	-67.11	-4,018.5	-60.4	234.0	98.5	135.45	1.727		
11,200.0	7,046.0	11,104.5	6,955.0	75.0	74.9	-67.27	-4,118.5	-60.4	235.6	96.8	138.80	1.697		
11,300.0	7,046.0	11,204.5	6,955.0	76.8	76.6	-67.44	-4,218.5	-60.4	237.2	95.1	142.15	1.669		
11,400.0	7,046.0	11,304.5	6,955.0	78.5	78.3	-67.60	-4,318.5	-60.4	238.8	93.3	145.51	1.641		
11,500.0	7,046.0	11,404.4	6,955.0	80.2	80.1	-67.76	-4,418.4	-60.4	240.5	91.6	148.88	1.615		
11,600.0	7,046.0	11,504.4	6,955.0	82.0	81.8	-67.92	-4,518.4	-60.4	242.1	89.8	152.26	1.590		
11,633.9	7,046.0	11,538.3	6,955.0	82.6	82.4	-67.97	-4,552.3	-60.4	242.7	89.3	153.40	1.582 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2I-32H-C264 - 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						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	91.24	-0.3	15.1	15.1					
100.0	100.0	101.0	101.0	0.1	0.1	91.24	-0.3	15.1	15.1	14.9	0.25	61.397		
200.0	200.0	201.0	201.0	0.3	0.3	91.24	-0.3	15.1	15.1	14.5	0.60	25.387		
300.0	300.0	301.0	301.0	0.5	0.5	91.24	-0.3	15.1	15.1	14.2	0.94	16.002		
366.3	366.3	367.3	367.3	0.6	0.6	91.24	-0.3	15.1	15.1	13.9	1.18	12.851 CC		
400.0	400.0	401.0	401.0	0.6	0.6	91.24	-0.3	15.1	15.1	13.8	1.29	11.683 ES		
500.0	500.0	500.9	500.9	0.8	0.8	88.34	0.4	15.5	15.5	13.9	1.64	9.462		
600.0	600.0	600.7	600.6	1.0	1.0	119.83	2.7	16.8	17.5	15.5	1.99	8.753		
700.0	700.0	700.4	700.3	1.2	1.2	116.37	6.6	18.9	21.3	19.0	2.35	9.082		
800.0	799.9	800.1	799.8	1.4	1.4	115.16	11.6	21.7	26.9	24.2	2.72	9.916		
900.0	899.7	899.9	899.5	1.5	1.6	116.87	16.7	24.5	33.3	30.2	3.09	10.784		
1,000.0	999.5	999.7	999.1	1.7	1.8	118.69	21.8	27.4	39.9	36.5	3.47	11.522		
1,100.0	1,099.2	1,099.5	1,098.7	1.9	2.0	119.99	26.9	30.2	46.6	42.8	3.85	12.113		
1,200.0	1,199.0	1,199.3	1,198.3	2.1	2.2	120.96	32.0	33.0	53.3	49.1	4.23	12.595		
1,300.0	1,298.8	1,299.0	1,297.9	2.3	2.4	121.72	37.1	35.9	60.0	55.4	4.62	12.996		
1,400.0	1,398.6	1,398.8	1,397.5	2.5	2.6	122.32	42.2	38.7	66.7	61.7	5.00	13.333		
1,500.0	1,498.4	1,498.6	1,497.1	2.7	2.8	122.82	47.3	41.5	73.4	68.0	5.39	13.620		
1,600.0	1,598.2	1,598.3	1,596.7	3.0	3.0	123.23	52.4	44.4	80.1	74.4	5.78	13.868		
1,700.0	1,698.0	1,698.1	1,696.3	3.2	3.2	123.58	57.5	47.2	86.8	80.7	6.17	14.084		
1,800.0	1,797.7	1,797.9	1,795.9	3.4	3.4	123.87	62.7	50.0	93.6	87.0	6.56	14.274		
1,900.0	1,897.5	1,897.7	1,895.5	3.6	3.6	124.13	67.8	52.9	100.3	93.4	6.94	14.442		
2,000.0	1,997.3	1,997.4	1,995.1	3.8	3.8	124.36	72.9	55.7	107.0	99.7	7.33	14.592		
2,100.0	2,097.1	2,097.2	2,094.7	4.0	4.0	124.55	78.0	58.5	113.8	106.0	7.72	14.726		
2,200.0	2,196.9	2,197.0	2,194.3	4.2	4.2	124.73	83.1	61.4	120.5	112.4	8.11	14.847		
2,300.0	2,296.7	2,296.8	2,293.9	4.4	4.4	124.89	88.2	64.2	127.2	118.7	8.51	14.957		
2,400.0	2,396.5	2,396.5	2,393.5	4.6	4.6	125.03	93.3	67.0	133.9	125.0	8.90	15.057		
2,500.0	2,496.2	2,496.3	2,493.1	4.8	4.8	125.16	98.4	69.9	140.7	131.4	9.29	15.148		
2,600.0	2,596.0	2,596.1	2,592.7	5.0	5.0	125.28	103.5	72.7	147.4	137.7	9.68	15.232		
2,700.0	2,695.8	2,695.8	2,692.3	5.2	5.2	125.38	108.6	75.5	154.1	144.1	10.07	15.309		
2,800.0	2,795.6	2,795.6	2,791.9	5.4	5.4	125.48	113.7	78.4	160.9	150.4	10.46	15.381		
2,900.0	2,895.4	2,895.4	2,891.5	5.6	5.6	125.57	118.9	81.2	167.6	156.8	10.85	15.447		
3,000.0	2,995.2	2,995.2	2,991.1	5.8	5.8	125.65	124.0	84.0	174.3	163.1	11.24	15.508		
3,100.0	3,095.0	3,094.9	3,090.7	6.1	6.0	125.73	129.1	86.8	181.1	169.4	11.63	15.565		
3,200.0	3,194.7	3,194.7	3,190.3	6.3	6.2	125.80	134.2	89.7	187.8	175.8	12.02	15.618		
3,300.0	3,294.5	3,294.5	3,289.9	6.5	6.4	125.87	139.3	92.5	194.5	182.1	12.42	15.668		
3,400.0	3,394.3	3,394.3	3,389.5	6.7	6.6	125.93	144.4	95.3	201.3	188.5	12.81	15.715		
3,500.0	3,494.1	3,494.0	3,489.1	6.9	6.8	125.99	149.5	98.2	208.0	194.8	13.20	15.759		
3,600.0	3,593.9	3,593.8	3,588.7	7.1	7.0	126.04	154.6	101.0	214.8	201.2	13.59	15.801		
3,700.0	3,693.7	3,693.6	3,688.3	7.3	7.2	126.09	159.7	103.8	221.5	207.5	13.98	15.840		
3,800.0	3,793.5	3,793.3	3,787.9	7.5	7.4	126.14	164.8	106.7	228.2	213.8	14.37	15.877		
3,900.0	3,893.2	3,893.1	3,887.5	7.7	7.6	126.18	169.9	109.5	235.0	220.2	14.77	15.912		
4,000.0	3,993.0	3,992.9	3,987.1	7.9	7.8	126.23	175.0	112.3	241.7	226.5	15.16	15.945		
4,100.0	4,092.8	4,092.7	4,086.7	8.1	8.0	126.27	180.2	115.2	248.4	232.9	15.55	15.976		
4,200.0	4,192.6	4,192.4	4,186.3	8.3	8.2	126.30	185.3	118.0	255.2	239.2	15.94	16.006		
4,300.0	4,292.4	4,292.2	4,285.9	8.5	8.4	126.34	190.4	120.8	261.9	245.6	16.33	16.035		
4,400.0	4,392.2	4,392.0	4,385.5	8.8	8.6	126.37	195.5	123.7	268.6	251.9	16.73	16.062		
4,500.0	4,492.0	4,491.8	4,485.1	9.0	8.8	126.41	200.6	126.5	275.4	258.3	17.12	16.087		
4,600.0	4,591.7	4,591.5	4,584.7	9.2	9.0	126.44	205.7	129.3	282.1	264.6	17.51	16.112		
4,700.0	4,691.5	4,691.3	4,684.3	9.4	9.2	126.47	210.8	132.2	288.9	271.0	17.90	16.136		
4,800.0	4,791.3	4,791.1	4,783.9	9.6	9.4	126.50	215.9	135.0	295.6	277.3	18.29	16.158		
4,900.0	4,891.1	4,890.8	4,883.5	9.8	9.6	126.52	221.0	137.8	302.3	283.6	18.69	16.180		
5,000.0	4,990.9	4,990.6	4,983.1	10.0	9.8	126.55	226.1	140.7	309.1	290.0	19.08	16.200		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2I-32H-C264 - 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		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			
5,100.0	5,090.7	5,090.4	5,082.7	10.2	10.0	126.57	231.2	143.5	315.8	296.3	19.47	16.220		
5,200.0	5,190.5	5,190.2	5,182.3	10.4	10.2	126.60	236.3	146.3	322.5	302.7	19.86	16.239		
5,300.0	5,290.2	5,289.9	5,281.9	10.6	10.4	126.62	241.5	149.2	329.3	309.0	20.25	16.257		
5,400.0	5,390.0	5,389.7	5,381.5	10.8	10.6	126.64	246.6	152.0	336.0	315.4	20.65	16.275		
5,500.0	5,489.8	5,489.5	5,481.1	11.0	10.8	126.66	251.7	154.8	342.8	321.7	21.04	16.292		
5,600.0	5,589.6	5,589.3	5,580.7	11.3	11.0	126.68	256.8	157.7	349.5	328.1	21.43	16.308		
5,700.0	5,689.4	5,689.1	5,680.8	11.5	11.2	126.69	261.9	160.5	356.0	334.2	21.82	16.314		
5,800.0	5,789.3	5,792.5	5,783.7	11.6	11.4	126.66	266.1	162.8	361.0	338.8	22.19	16.264		
5,900.0	5,889.3	5,895.6	5,886.8	11.8	11.6	126.64	268.7	164.3	364.0	341.5	22.54	16.149		
6,000.0	5,989.2	5,998.8	5,989.9	12.0	11.7	126.63	269.7	164.8	365.2	342.3	22.87	15.970		
6,100.0	6,089.2	6,099.1	6,090.2	12.1	11.9	90.05	269.7	164.8	365.2	342.0	23.19	15.746		
6,200.0	6,189.2	6,199.1	6,190.2	12.3	12.0	90.05	269.7	164.8	365.2	341.7	23.51	15.533		
6,300.0	6,289.2	6,299.1	6,290.2	12.4	12.2	90.05	269.7	164.8	365.2	341.4	23.83	15.324		
6,400.0	6,389.2	6,399.1	6,390.2	12.6	12.4	90.05	269.7	164.8	365.2	341.1	24.15	15.120		
6,460.4	6,449.6	6,459.5	6,450.6	12.7	12.4	-91.04	269.7	164.8	365.2	340.9	24.34	15.005		
6,500.0	6,489.2	6,499.1	6,490.2	12.7	12.5	-90.99	269.7	164.8	365.2	340.7	24.47	14.927		
6,600.0	6,588.5	6,598.3	6,589.5	12.8	12.7	-92.74	269.7	164.8	365.6	340.9	24.69	14.806		
6,700.0	6,684.2	6,699.4	6,690.2	12.8	12.8	-96.09	263.2	164.8	367.5	342.7	24.75	14.847		
6,800.0	6,773.4	6,805.3	6,792.8	12.7	12.8	-99.32	237.7	164.8	370.9	346.3	24.62	15.068		
6,900.0	6,853.6	6,916.0	6,893.2	12.7	12.7	-102.28	191.4	164.8	375.6	351.2	24.38	15.404		
7,000.0	6,922.2	7,031.6	6,986.5	12.7	12.6	-104.84	123.4	164.8	381.0	356.8	24.20	15.744		
7,100.0	6,977.1	7,152.0	7,067.0	12.9	12.7	-106.89	34.2	164.8	386.5	362.2	24.26	15.933		
7,200.0	7,016.8	7,276.6	7,128.9	13.3	13.0	-108.32	-73.6	164.8	391.4	366.6	24.77	15.800		
7,300.0	7,039.9	7,404.2	7,166.7	13.9	13.7	-109.06	-195.2	164.8	395.2	369.3	25.87	15.274		
7,400.0	7,046.0	7,528.7	7,177.0	14.7	14.6	-109.09	-319.1	164.8	397.4	369.9	27.55	14.425		
7,500.0	7,046.0	7,628.7	7,177.0	15.6	15.6	-109.01	-419.1	164.8	399.1	369.7	29.39	13.579		
7,600.0	7,046.0	7,728.7	7,177.0	16.7	16.7	-108.93	-519.0	164.8	400.8	369.3	31.47	12.735		
7,700.0	7,046.0	7,828.6	7,177.0	17.9	17.8	-108.85	-619.0	164.8	402.4	368.7	33.75	11.923		
7,800.0	7,046.0	7,928.6	7,177.0	19.1	19.1	-108.77	-719.0	164.8	404.1	367.9	36.20	11.163		
7,900.0	7,046.0	8,028.6	7,177.0	20.5	20.5	-108.69	-819.0	164.8	405.8	367.0	38.78	10.463		
8,000.0	7,046.0	8,128.6	7,177.0	21.9	21.9	-108.61	-919.0	164.8	407.5	366.0	41.48	9.824		
8,100.0	7,046.0	8,228.6	7,177.0	23.3	23.3	-108.53	-1,019.0	164.8	409.1	364.9	44.26	9.244		
8,200.0	7,046.0	8,328.6	7,177.0	24.8	24.8	-108.45	-1,118.9	164.8	410.8	363.7	47.12	8.719		
8,300.0	7,046.0	8,428.5	7,177.0	26.4	26.3	-108.37	-1,218.9	164.8	412.5	362.4	50.04	8.243		
8,400.0	7,046.0	8,528.5	7,177.0	27.9	27.9	-108.30	-1,318.9	164.8	414.1	361.1	53.01	7.812		
8,500.0	7,046.0	8,628.5	7,177.0	29.5	29.4	-108.22	-1,418.9	164.8	415.8	359.8	56.03	7.421		
8,600.0	7,046.0	8,728.5	7,177.0	31.1	31.0	-108.15	-1,518.9	164.8	417.5	358.4	59.09	7.066		
8,700.0	7,046.0	8,828.5	7,177.0	32.7	32.6	-108.07	-1,618.9	164.8	419.2	357.0	62.18	6.742		
8,800.0	7,046.0	8,928.5	7,177.0	34.3	34.3	-108.00	-1,718.9	164.8	420.8	355.5	65.29	6.445		
8,900.0	7,046.0	9,028.5	7,177.0	35.9	35.9	-107.92	-1,818.8	164.8	422.5	354.1	68.44	6.174		
9,000.0	7,046.0	9,128.4	7,177.0	37.6	37.5	-107.85	-1,918.8	164.8	424.2	352.6	71.60	5.924		
9,100.0	7,046.0	9,228.4	7,177.0	39.2	39.2	-107.78	-2,018.8	164.8	425.9	351.1	74.79	5.694		
9,200.0	7,046.0	9,328.4	7,177.0	40.9	40.9	-107.70	-2,118.8	164.8	427.5	349.5	77.99	5.482		
9,300.0	7,046.0	9,428.4	7,177.0	42.6	42.5	-107.63	-2,218.8	164.8	429.2	348.0	81.21	5.285		
9,400.0	7,046.0	9,528.4	7,177.0	44.3	44.2	-107.56	-2,318.8	164.8	430.9	346.5	84.45	5.103		
9,500.0	7,046.0	9,628.4	7,177.0	45.9	45.9	-107.49	-2,418.7	164.8	432.6	344.9	87.69	4.933		
9,600.0	7,046.0	9,728.3	7,177.0	47.6	47.6	-107.42	-2,518.7	164.8	434.3	343.3	90.95	4.775		
9,700.0	7,046.0	9,828.3	7,177.0	49.3	49.3	-107.35	-2,618.7	164.8	435.9	341.7	94.22	4.627		
9,800.0	7,046.0	9,928.3	7,177.0	51.0	51.0	-107.28	-2,718.7	164.8	437.6	340.1	97.50	4.489		
9,900.0	7,046.0	10,028.3	7,177.0	52.7	52.7	-107.22	-2,818.7	164.8	439.3	338.5	100.78	4.359		
10,000.0	7,046.0	10,128.3	7,177.0	54.4	54.4	-107.15	-2,918.7	164.8	441.0	336.9	104.08	4.237		
10,100.0	7,046.0	10,228.3	7,177.0	56.1	56.1	-107.08	-3,018.7	164.8	442.7	335.3	107.38	4.123		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2I-32H-C264 - 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		
10,200.0	7,046.0	10,328.3	7,177.0	57.8	57.8	-107.01	-3,118.6	164.8	444.4	333.7	110.69	4.014		
10,300.0	7,046.0	10,428.2	7,177.0	59.5	59.5	-106.95	-3,218.6	164.8	446.0	332.0	114.01	3.912		
10,400.0	7,046.0	10,528.2	7,177.0	61.3	61.2	-106.88	-3,318.6	164.8	447.7	330.4	117.33	3.816		
10,500.0	7,046.0	10,628.2	7,177.0	63.0	62.9	-106.82	-3,418.6	164.8	449.4	328.8	120.66	3.725		
10,600.0	7,046.0	10,728.2	7,177.0	64.7	64.6	-106.75	-3,518.6	164.8	451.1	327.1	123.99	3.638		
10,700.0	7,046.0	10,828.2	7,177.0	66.4	66.4	-106.69	-3,618.6	164.8	452.8	325.5	127.33	3.556		
10,800.0	7,046.0	10,928.2	7,177.0	68.1	68.1	-106.62	-3,718.5	164.8	454.5	323.8	130.68	3.478		
10,900.0	7,046.0	11,028.1	7,177.0	69.9	69.8	-106.56	-3,818.5	164.8	456.2	322.1	134.03	3.404		
11,000.0	7,046.0	11,128.1	7,177.0	71.6	71.5	-106.50	-3,918.5	164.8	457.9	320.5	137.38	3.333		
11,100.0	7,046.0	11,228.1	7,177.0	73.3	73.3	-106.44	-4,018.5	164.8	459.5	318.8	140.74	3.265		
11,200.0	7,046.0	11,328.1	7,177.0	75.0	75.0	-106.37	-4,118.5	164.8	461.2	317.1	144.10	3.201		
11,300.0	7,046.0	11,428.1	7,177.0	76.8	76.7	-106.31	-4,218.5	164.8	462.9	315.5	147.46	3.139		
11,400.0	7,046.0	11,528.1	7,177.0	78.5	78.4	-106.25	-4,318.5	164.8	464.6	313.8	150.83	3.080		
11,500.0	7,046.0	11,628.0	7,177.0	80.2	80.2	-106.19	-4,418.4	164.8	466.3	312.1	154.20	3.024		
11,600.0	7,046.0	11,728.0	7,177.0	82.0	81.9	-106.13	-4,518.4	164.8	468.0	310.4	157.58	2.970		
11,633.9	7,046.0	11,761.9	7,177.0	82.6	82.5	-106.11	-4,552.3	164.8	468.6	309.8	158.73	2.952 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2J-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.86	-0.3	22.7	22.7					
100.0	100.0	101.0	101.0	0.1	0.1	90.86	-0.3	22.7	22.7	22.4	0.25	92.085		
200.0	200.0	201.0	201.0	0.3	0.3	90.86	-0.3	22.7	22.7	22.1	0.60	38.076		
300.0	300.0	301.0	301.0	0.5	0.5	90.86	-0.3	22.7	22.7	21.7	0.94	24.000		
332.1	332.1	333.1	333.1	0.5	0.5	90.86	-0.3	22.7	22.7	21.6	1.06	21.452 CC		
400.0	400.0	400.8	400.8	0.6	0.6	90.52	-0.2	22.8	22.8	21.5	1.29	17.665 ES		
500.0	500.0	500.5	500.5	0.8	0.8	88.04	0.8	24.3	24.3	22.6	1.64	14.772		
600.0	600.0	600.0	599.9	1.0	1.0	122.00	2.9	27.1	27.7	25.7	1.99	13.894		
700.0	700.0	699.4	699.2	1.2	1.2	121.05	6.0	31.2	33.5	31.2	2.35	14.285		
800.0	799.9	798.5	798.1	1.4	1.4	121.21	10.1	36.8	41.7	39.0	2.71	15.419		
900.0	899.7	897.6	896.8	1.5	1.6	121.99	15.1	43.6	52.2	49.1	3.08	16.963		
1,000.0	999.5	997.0	995.8	1.7	1.8	122.80	20.3	50.7	63.2	59.7	3.45	18.293		
1,100.0	1,099.2	1,096.4	1,094.8	1.9	2.0	123.36	25.5	57.7	74.1	70.3	3.83	19.348		
1,200.0	1,199.0	1,195.8	1,193.8	2.1	2.3	123.79	30.7	64.8	85.1	80.9	4.21	20.202		
1,300.0	1,298.8	1,295.2	1,292.8	2.3	2.5	124.11	35.9	71.9	96.1	91.5	4.60	20.907		
1,400.0	1,398.6	1,394.6	1,391.8	2.5	2.7	124.37	41.1	78.9	107.1	102.1	4.98	21.498		
1,500.0	1,498.4	1,494.0	1,490.8	2.7	2.9	124.58	46.2	86.0	118.1	112.7	5.37	21.999		
1,600.0	1,598.2	1,593.3	1,589.8	3.0	3.2	124.75	51.4	93.1	129.1	123.3	5.75	22.430		
1,700.0	1,698.0	1,692.7	1,688.8	3.2	3.4	124.90	56.6	100.1	140.0	133.9	6.14	22.804		
1,800.0	1,797.7	1,792.1	1,787.8	3.4	3.6	125.03	61.8	107.2	151.0	144.5	6.53	23.132		
1,900.0	1,897.5	1,891.5	1,886.8	3.6	3.8	125.13	67.0	114.3	162.0	155.1	6.92	23.422		
2,000.0	1,997.3	1,990.9	1,985.8	3.8	4.1	125.23	72.2	121.3	173.0	165.7	7.31	23.679		
2,100.0	2,097.1	2,090.3	2,084.8	4.0	4.3	125.31	77.4	128.4	184.0	176.3	7.70	23.909		
2,200.0	2,196.9	2,189.7	2,183.8	4.2	4.5	125.39	82.6	135.5	195.0	186.9	8.09	24.116		
2,300.0	2,296.7	2,289.1	2,282.9	4.4	4.8	125.45	87.8	142.5	206.0	197.5	8.48	24.304		
2,400.0	2,396.5	2,388.5	2,381.9	4.6	5.0	125.51	93.0	149.6	217.0	208.1	8.87	24.474		
2,500.0	2,496.2	2,487.9	2,480.9	4.8	5.2	125.57	98.2	156.7	228.0	218.7	9.26	24.630		
2,600.0	2,596.0	2,587.3	2,579.9	5.0	5.5	125.61	103.4	163.7	239.0	229.3	9.65	24.772		
2,700.0	2,695.8	2,686.7	2,678.9	5.2	5.7	125.66	108.6	170.8	250.0	239.9	10.04	24.904		
2,800.0	2,795.6	2,786.1	2,777.9	5.4	5.9	125.70	113.8	177.9	261.0	250.6	10.43	25.025		
2,900.0	2,895.4	2,885.5	2,876.9	5.6	6.1	125.74	119.0	184.9	272.0	261.2	10.82	25.136		
3,000.0	2,995.2	2,984.9	2,975.9	5.8	6.4	125.77	124.2	192.0	283.0	271.8	11.21	25.240		
3,100.0	3,095.0	3,084.2	3,074.9	6.1	6.6	125.80	129.4	199.1	294.0	282.4	11.60	25.337		
3,200.0	3,194.7	3,183.6	3,173.9	6.3	6.8	125.83	134.6	206.1	305.0	293.0	11.99	25.427		
3,300.0	3,294.5	3,283.0	3,272.9	6.5	7.1	125.86	139.8	213.2	316.0	303.6	12.38	25.512		
3,400.0	3,394.3	3,382.4	3,371.9	6.7	7.3	125.89	145.0	220.3	327.0	314.2	12.78	25.591		
3,500.0	3,494.1	3,481.8	3,470.9	6.9	7.5	125.91	150.2	227.3	337.9	324.8	13.17	25.665		
3,600.0	3,593.9	3,581.2	3,569.9	7.1	7.8	125.93	155.4	234.4	348.9	335.4	13.56	25.735		
3,700.0	3,693.7	3,680.6	3,668.9	7.3	8.0	125.95	160.6	241.5	359.9	346.0	13.95	25.801		
3,800.0	3,793.5	3,780.0	3,767.9	7.5	8.2	125.97	165.8	248.5	370.9	356.6	14.34	25.863		
3,900.0	3,893.2	3,879.4	3,866.9	7.7	8.5	125.99	171.0	255.6	381.9	367.2	14.73	25.921		
4,000.0	3,993.0	3,978.8	3,965.9	7.9	8.7	126.01	176.2	262.7	392.9	377.8	15.13	25.977		
4,100.0	4,092.8	4,078.2	4,065.0	8.1	8.9	126.03	181.4	269.7	403.9	388.4	15.52	26.030		
4,200.0	4,192.6	4,177.6	4,164.0	8.3	9.1	126.04	186.6	276.8	414.9	399.0	15.91	26.080		
4,300.0	4,292.4	4,277.0	4,263.0	8.5	9.4	126.06	191.8	283.9	425.9	409.6	16.30	26.128		
4,400.0	4,392.2	4,376.4	4,362.0	8.8	9.6	126.07	197.0	290.9	436.9	420.2	16.69	26.173		
4,500.0	4,492.0	4,475.8	4,461.0	9.0	9.8	126.09	202.2	298.0	447.9	430.8	17.09	26.216		
4,600.0	4,591.7	4,575.2	4,560.0	9.2	10.1	126.10	207.4	305.1	458.9	441.4	17.48	26.257		
4,700.0	4,691.5	4,674.5	4,659.0	9.4	10.3	126.11	212.6	312.1	469.9	452.0	17.87	26.297		
4,800.0	4,791.3	4,773.9	4,758.0	9.6	10.5	126.12	217.8	319.2	480.9	462.6	18.26	26.335		
4,900.0	4,891.1	4,873.3	4,857.0	9.8	10.8	126.13	223.0	326.3	491.9	473.2	18.65	26.371		
5,000.0	4,990.9	4,972.7	4,956.0	10.0	11.0	126.14	228.2	333.3	502.9	483.8	19.05	26.405		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2J-32H-C264 - 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							
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	5,090.7	5,072.1	5,055.0	10.2	11.2	126.15	233.4	340.4	513.9	494.4	19.44	26.438		
5,200.0	5,190.5	5,171.5	5,154.0	10.4	11.5	126.16	238.5	347.5	524.9	505.1	19.83	26.470		
5,300.0	5,290.2	5,270.9	5,253.0	10.6	11.7	126.17	243.7	354.5	535.9	515.7	20.22	26.501		
5,400.0	5,390.0	5,370.3	5,352.0	10.8	11.9	126.18	248.9	361.6	546.9	526.3	20.61	26.530		
5,500.0	5,489.8	5,469.7	5,451.0	11.0	12.2	126.19	254.1	368.7	557.9	536.9	21.01	26.558		
5,600.0	5,589.6	5,574.0	5,554.9	11.3	12.4	126.22	259.4	375.8	568.6	547.2	21.40	26.567		
5,700.0	5,689.4	5,682.3	5,663.0	11.5	12.6	126.37	263.8	381.8	577.8	556.0	21.80	26.500		
5,800.0	5,789.3	5,790.9	5,771.5	11.6	12.8	126.50	267.0	386.1	584.5	562.3	22.18	26.346		
5,900.0	5,889.3	5,899.8	5,880.4	11.8	13.0	126.58	268.9	388.8	588.6	566.1	22.54	26.109		
6,000.0	5,989.2	6,008.9	5,989.4	12.0	13.1	126.62	269.7	389.8	590.1	567.3	22.88	25.791		
6,100.0	6,089.2	6,109.7	6,090.2	12.1	13.3	90.03	269.7	389.8	590.2	567.0	23.18	25.459		
6,200.0	6,189.2	6,209.7	6,190.2	12.3	13.4	90.03	269.7	389.8	590.2	566.7	23.50	25.112		
6,300.0	6,289.2	6,309.7	6,290.2	12.4	13.6	90.03	269.7	389.8	590.2	566.3	23.82	24.774		
6,400.0	6,389.2	6,409.7	6,390.2	12.6	13.7	90.03	269.7	389.8	590.2	566.0	24.14	24.444		
6,460.2	6,449.5	6,470.0	6,450.5	12.7	13.8	-91.03	269.7	389.8	590.2	565.8	24.35	24.233		
6,500.0	6,489.2	6,509.7	6,490.2	12.7	13.8	-90.98	269.4	389.8	590.2	565.7	24.47	24.113		
6,600.0	6,588.5	6,609.7	6,589.4	12.8	13.9	-90.96	257.9	389.8	590.4	565.8	24.59	24.005		
6,700.0	6,684.2	6,709.6	6,685.0	12.8	13.9	-90.91	229.4	389.8	590.9	566.3	24.54	24.079		
6,800.0	6,773.4	6,809.6	6,774.3	12.7	13.8	-90.83	184.7	389.8	591.7	567.3	24.40	24.248		
6,900.0	6,853.6	6,909.5	6,854.4	12.7	13.7	-90.73	125.2	389.8	592.7	568.4	24.30	24.393		
7,000.0	6,922.2	7,009.4	6,923.0	12.7	13.8	-90.60	52.7	389.8	594.0	569.6	24.37	24.371		
7,100.0	6,977.1	7,109.4	6,978.0	12.9	14.0	-90.46	-30.7	389.8	595.5	570.7	24.76	24.052		
7,200.0	7,016.8	7,209.4	7,017.7	13.3	14.3	-90.31	-122.3	389.8	597.1	571.5	25.54	23.376		
7,300.0	7,039.9	7,309.3	7,040.8	13.9	14.9	-90.14	-219.4	389.8	598.8	572.0	26.76	22.376		
7,400.0	7,046.0	7,409.3	7,047.0	14.7	15.6	-90.00	-319.1	389.8	600.5	572.2	28.37	21.164		
7,500.0	7,046.0	7,509.3	7,047.0	15.6	16.5	-90.00	-419.1	389.8	602.3	572.0	30.31	19.872		
7,600.0	7,046.0	7,609.3	7,047.0	16.7	17.5	-90.00	-519.0	389.8	604.1	571.6	32.51	18.582		
7,700.0	7,046.0	7,709.3	7,047.0	17.9	18.6	-90.00	-619.0	389.8	605.8	570.9	34.92	17.349		
7,800.0	7,046.0	7,809.2	7,047.0	19.1	19.8	-90.00	-719.0	389.8	607.6	570.1	37.51	16.199		
7,900.0	7,046.0	7,909.2	7,047.0	20.5	21.1	-90.00	-819.0	389.8	609.3	569.1	40.23	15.145		
8,000.0	7,046.0	8,009.2	7,047.0	21.9	22.5	-90.00	-919.0	389.8	611.1	568.0	43.07	14.188		
8,100.0	7,046.0	8,109.2	7,047.0	23.3	23.9	-90.00	-1,019.0	389.8	612.9	566.9	46.00	13.322		
8,200.0	7,046.0	8,209.2	7,047.0	24.8	25.4	-90.00	-1,119.0	389.8	614.6	565.6	49.01	12.540		
8,300.0	7,046.0	8,309.2	7,047.0	26.4	26.8	-90.00	-1,218.9	389.8	616.4	564.3	52.08	11.835		
8,400.0	7,046.0	8,409.2	7,047.0	27.9	28.4	-90.00	-1,318.9	389.8	618.2	563.0	55.21	11.197		
8,500.0	7,046.0	8,509.1	7,047.0	29.5	29.9	-90.00	-1,418.9	389.8	619.9	561.5	58.37	10.620		
8,600.0	7,046.0	8,609.1	7,047.0	31.1	31.5	-90.00	-1,518.9	389.8	621.7	560.1	61.58	10.096		
8,700.0	7,046.0	8,709.1	7,047.0	32.7	33.1	-90.00	-1,618.9	389.8	623.4	558.6	64.81	9.620		
8,800.0	7,046.0	8,809.1	7,047.0	34.3	34.7	-90.00	-1,718.9	389.8	625.2	557.1	68.07	9.184		
8,900.0	7,046.0	8,909.1	7,047.0	35.9	36.3	-90.00	-1,818.8	389.8	627.0	555.6	71.36	8.786		
9,000.0	7,046.0	9,009.1	7,047.0	37.6	37.9	-90.00	-1,918.8	389.8	628.7	554.1	74.66	8.421		
9,100.0	7,046.0	9,109.0	7,047.0	39.2	39.5	-90.00	-2,018.8	389.8	630.5	552.5	77.99	8.085		
9,200.0	7,046.0	9,209.0	7,047.0	40.9	41.2	-90.00	-2,118.8	389.8	632.3	550.9	81.32	7.774		
9,300.0	7,046.0	9,309.0	7,047.0	42.6	42.8	-90.00	-2,218.8	389.8	634.0	549.3	84.68	7.487		
9,400.0	7,046.0	9,409.0	7,047.0	44.3	44.5	-90.00	-2,318.8	389.8	635.8	547.7	88.04	7.221		
9,500.0	7,046.0	9,509.0	7,047.0	45.9	46.2	-90.00	-2,418.7	389.8	637.5	546.1	91.42	6.974		
9,600.0	7,046.0	9,609.0	7,047.0	47.6	47.9	-90.00	-2,518.7	389.8	639.3	544.5	94.80	6.744		
9,700.0	7,046.0	9,709.0	7,047.0	49.3	49.5	-90.00	-2,618.7	389.8	641.1	542.9	98.20	6.528		
9,800.0	7,046.0	9,808.9	7,047.0	51.0	51.2	-90.00	-2,718.7	389.8	642.8	541.2	101.60	6.327		
9,900.0	7,046.0	9,908.9	7,047.0	52.7	52.9	-90.00	-2,818.7	389.8	644.6	539.6	105.00	6.139		
10,000.0	7,046.0	10,008.9	7,047.0	54.4	54.6	-90.00	-2,918.7	389.8	646.3	537.9	108.42	5.962		
10,100.0	7,046.0	10,108.9	7,047.0	56.1	56.3	-90.00	-3,018.7	389.7	648.1	536.3	111.84	5.795		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2J-32H-C264 - 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		
10,200.0	7,046.0	10,208.9	7,047.0	57.8	58.0	-90.00	-3,118.6	389.7	649.9	534.6	115.27	5.638		
10,300.0	7,046.0	10,308.9	7,047.0	59.5	59.7	-90.00	-3,218.6	389.7	651.6	532.9	118.70	5.490		
10,400.0	7,046.0	10,408.8	7,047.0	61.3	61.4	-90.00	-3,318.6	389.7	653.4	531.3	122.13	5.350		
10,500.0	7,046.0	10,508.8	7,047.0	63.0	63.1	-90.00	-3,418.6	389.7	655.2	529.6	125.57	5.217		
10,600.0	7,046.0	10,608.8	7,047.0	64.7	64.8	-90.00	-3,518.6	389.7	656.9	527.9	129.01	5.092		
10,700.0	7,046.0	10,708.8	7,047.0	66.4	66.6	-90.00	-3,618.6	389.7	658.7	526.2	132.46	4.973		
10,800.0	7,046.0	10,808.8	7,047.0	68.1	68.3	-90.00	-3,718.5	389.7	660.4	524.5	135.91	4.859		
10,900.0	7,046.0	10,908.8	7,047.0	69.9	70.0	-90.00	-3,818.5	389.7	662.2	522.8	139.36	4.752		
11,000.0	7,046.0	11,008.8	7,047.0	71.6	71.7	-90.00	-3,918.5	389.7	664.0	521.1	142.81	4.649		
11,100.0	7,046.0	11,108.7	7,047.0	73.3	73.4	-90.00	-4,018.5	389.7	665.7	519.5	146.27	4.551		
11,200.0	7,046.0	11,208.7	7,047.0	75.0	75.2	-90.00	-4,118.5	389.7	667.5	517.8	149.73	4.458		
11,300.0	7,046.0	11,308.7	7,047.0	76.8	76.9	-90.00	-4,218.5	389.7	669.2	516.1	153.19	4.369		
11,400.0	7,046.0	11,408.7	7,047.0	78.5	78.6	-90.00	-4,318.5	389.7	671.0	514.4	156.66	4.283		
11,500.0	7,046.0	11,508.7	7,047.0	80.2	80.3	-90.00	-4,418.4	389.7	672.8	512.6	160.12	4.202		
11,600.0	7,046.0	11,608.7	7,047.0	82.0	82.1	-90.00	-4,518.4	389.7	674.5	510.9	163.59	4.123		
11,633.9	7,046.0	11,642.6	7,047.0	82.6	82.7	-90.00	-4,552.3	389.7	675.1	510.4	164.77	4.097 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2K-32H-C264 - 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	90.67	-0.4	29.9	29.9					
100.0	100.0	101.0	101.0	0.1	0.1	90.67	-0.4	29.9	29.9	29.7	0.25	121.637		
200.0	200.0	201.0	201.0	0.3	0.3	90.67	-0.4	29.9	29.9	29.3	0.60	50.296		
266.3	266.3	267.3	267.3	0.4	0.4	90.67	-0.4	29.9	29.9	29.1	0.83	36.209 CC		
300.0	300.0	301.0	301.0	0.5	0.5	90.67	-0.4	29.9	29.9	29.0	0.94	31.702 ES		
400.0	400.0	400.5	400.5	0.6	0.6	89.97	0.0	30.7	30.7	29.4	1.29	23.771		
500.0	500.0	500.0	500.0	0.8	0.8	88.08	1.1	33.1	33.1	31.5	1.64	20.151		
600.0	600.0	599.3	599.2	1.0	1.0	123.15	2.9	37.0	37.7	35.7	1.99	18.915		
700.0	700.0	698.4	698.1	1.2	1.2	123.06	5.5	42.5	44.8	42.4	2.34	19.101		
800.0	799.9	797.1	796.5	1.4	1.4	123.83	8.7	49.5	54.4	51.7	2.70	20.145		
900.0	899.7	895.4	894.3	1.5	1.6	124.99	12.6	58.0	66.6	63.5	3.07	21.721		
1,000.0	999.5	993.3	991.6	1.7	1.9	125.63	17.2	68.0	80.6	77.2	3.44	23.461		
1,100.0	1,099.2	1,091.4	1,089.0	1.9	2.1	125.71	22.4	79.3	96.0	92.2	3.81	25.183		
1,200.0	1,199.0	1,190.2	1,186.9	2.1	2.4	125.74	27.8	90.8	111.6	107.4	4.19	26.614		
1,300.0	1,298.8	1,289.0	1,284.9	2.3	2.7	125.76	33.1	102.4	127.2	122.6	4.57	27.795		
1,400.0	1,398.6	1,387.8	1,382.8	2.5	2.9	125.77	38.4	113.9	142.7	137.8	4.96	28.786		
1,500.0	1,498.4	1,486.6	1,480.8	2.7	3.2	125.78	43.8	125.5	158.3	152.9	5.34	29.628		
1,600.0	1,598.2	1,585.4	1,578.8	3.0	3.5	125.79	49.1	137.0	173.8	168.1	5.73	30.351		
1,700.0	1,698.0	1,684.1	1,676.7	3.2	3.8	125.80	54.4	148.6	189.4	183.3	6.11	30.979		
1,800.0	1,797.7	1,782.9	1,774.7	3.4	4.0	125.80	59.8	160.1	205.0	198.5	6.50	31.530		
1,900.0	1,897.5	1,881.7	1,872.6	3.6	4.3	125.81	65.1	171.7	220.5	213.6	6.89	32.016		
2,000.0	1,997.3	1,980.5	1,970.6	3.8	4.6	125.81	70.4	183.2	236.1	228.8	7.28	32.448		
2,100.0	2,097.1	2,079.3	2,068.5	4.0	4.9	125.82	75.8	194.8	251.7	244.0	7.66	32.835		
2,200.0	2,196.9	2,178.0	2,166.5	4.2	5.1	125.82	81.1	206.3	267.2	259.2	8.05	33.184		
2,300.0	2,296.7	2,276.8	2,264.5	4.4	5.4	125.83	86.4	217.9	282.8	274.3	8.44	33.499		
2,400.0	2,396.5	2,375.6	2,362.4	4.6	5.7	125.83	91.8	229.5	298.3	289.5	8.83	33.785		
2,500.0	2,496.2	2,474.4	2,460.4	4.8	6.0	125.83	97.1	241.0	313.9	304.7	9.22	34.047		
2,600.0	2,596.0	2,573.2	2,558.3	5.0	6.3	125.83	102.4	252.6	329.5	319.9	9.61	34.287		
2,700.0	2,695.8	2,672.0	2,656.3	5.2	6.5	125.84	107.8	264.1	345.0	335.0	10.00	34.507		
2,800.0	2,795.6	2,770.7	2,754.3	5.4	6.8	125.84	113.1	275.7	360.6	350.2	10.39	34.710		
2,900.0	2,895.4	2,869.5	2,852.2	5.6	7.1	125.84	118.4	287.2	376.2	365.4	10.78	34.899		
3,000.0	2,995.2	2,968.3	2,950.2	5.8	7.4	125.84	123.8	298.8	391.7	380.5	11.17	35.073		
3,100.0	3,095.0	3,067.1	3,048.1	6.1	7.7	125.84	129.1	310.3	407.3	395.7	11.56	35.236		
3,200.0	3,194.7	3,165.9	3,146.1	6.3	7.9	125.84	134.4	321.9	422.8	410.9	11.95	35.388		
3,300.0	3,294.5	3,264.6	3,244.1	6.5	8.2	125.85	139.8	333.4	438.4	426.1	12.34	35.529		
3,400.0	3,394.3	3,363.4	3,342.0	6.7	8.5	125.85	145.1	345.0	454.0	441.2	12.73	35.662		
3,500.0	3,494.1	3,462.2	3,440.0	6.9	8.8	125.85	150.4	356.5	469.5	456.4	13.12	35.787		
3,600.0	3,593.9	3,561.0	3,537.9	7.1	9.1	125.85	155.8	368.1	485.1	471.6	13.51	35.905		
3,700.0	3,693.7	3,659.8	3,635.9	7.3	9.3	125.85	161.1	379.6	500.7	486.8	13.90	36.015		
3,800.0	3,793.5	3,758.6	3,733.8	7.5	9.6	125.85	166.4	391.2	516.2	501.9	14.29	36.120		
3,900.0	3,893.2	3,857.3	3,831.8	7.7	9.9	125.85	171.8	402.7	531.8	517.1	14.68	36.219		
4,000.0	3,993.0	3,956.1	3,929.8	7.9	10.2	125.85	177.1	414.3	547.3	532.3	15.07	36.312		
4,100.0	4,092.8	4,054.9	4,027.7	8.1	10.5	125.85	182.4	425.8	562.9	547.4	15.46	36.401		
4,200.0	4,192.6	4,153.7	4,125.7	8.3	10.8	125.86	187.8	437.4	578.5	562.6	15.85	36.485		
4,300.0	4,292.4	4,252.5	4,223.6	8.5	11.0	125.86	193.1	448.9	594.0	577.8	16.25	36.565		
4,400.0	4,392.2	4,351.2	4,321.6	8.8	11.3	125.86	198.4	460.5	609.6	593.0	16.64	36.642		
4,500.0	4,492.0	4,450.0	4,419.6	9.0	11.6	125.86	203.8	472.1	625.2	608.1	17.03	36.715		
4,600.0	4,591.7	4,548.8	4,517.5	9.2	11.9	125.86	209.1	483.6	640.7	623.3	17.42	36.784		
4,700.0	4,691.5	4,647.6	4,615.5	9.4	12.2	125.86	214.4	495.2	656.3	638.5	17.81	36.850		
4,800.0	4,791.3	4,746.4	4,713.4	9.6	12.4	125.86	219.8	506.7	671.8	653.6	18.20	36.914		
4,900.0	4,891.1	4,845.1	4,811.4	9.8	12.7	125.86	225.1	518.3	687.4	668.8	18.59	36.974		
5,000.0	4,990.9	4,943.9	4,909.4	10.0	13.0	125.86	230.4	529.8	703.0	684.0	18.98	37.033		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2K-32H-C264 - 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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,090.7	5,042.7	5,007.3	10.2	13.3	125.86	235.8	541.4	718.5	699.2	19.37	37.088		
5,200.0	5,190.5	5,141.5	5,105.3	10.4	13.6	125.86	241.1	552.9	734.1	714.3	19.76	37.142		
5,300.0	5,290.2	5,240.3	5,203.2	10.6	13.9	125.86	246.4	564.5	749.6	729.5	20.16	37.193		
5,400.0	5,390.0	5,344.5	5,306.6	10.8	14.1	125.87	252.0	576.5	765.1	744.5	20.56	37.220		
5,500.0	5,489.8	5,457.4	5,418.8	11.0	14.4	125.93	257.3	587.9	779.0	758.1	20.97	37.154		
5,600.0	5,589.6	5,570.8	5,531.7	11.3	14.7	126.06	261.6	597.3	791.2	769.8	21.38	37.010		
5,700.0	5,689.4	5,684.7	5,645.3	11.5	14.9	126.27	265.0	604.8	801.4	779.6	21.79	36.777		
5,800.0	5,789.3	5,799.0	5,759.5	11.6	15.1	126.45	267.5	610.1	808.8	786.6	22.19	36.457		
5,900.0	5,889.3	5,913.6	5,874.0	11.8	15.3	126.57	269.1	613.5	813.4	790.8	22.56	36.058		
6,000.0	5,989.2	6,028.4	5,988.8	12.0	15.4	126.61	269.6	614.7	815.1	792.2	22.91	35.579		
6,100.0	6,089.2	6,129.8	6,090.2	12.1	15.5	90.02	269.6	614.7	815.1	791.9	23.18	35.160		
6,200.0	6,189.2	6,229.8	6,190.2	12.3	15.7	90.02	269.6	614.7	815.1	791.6	23.50	34.681		
6,300.0	6,289.2	6,329.8	6,290.2	12.4	15.8	90.02	269.6	614.7	815.1	791.3	23.82	34.214		
6,364.2	6,353.5	6,394.1	6,354.5	12.5	15.9	90.02	269.6	614.7	815.1	791.1	24.03	33.920		
6,400.0	6,389.2	6,429.8	6,390.2	12.6	15.9	90.03	269.6	614.7	815.1	791.0	24.14	33.761		
6,421.1	6,410.4	6,451.0	6,411.3	12.6	15.9	-90.94	268.9	614.7	815.1	790.9	24.25	33.611		
6,500.0	6,489.2	6,528.6	6,488.4	12.7	15.9	-90.31	259.9	614.7	815.2	790.8	24.44	33.348		
6,600.0	6,588.5	6,624.5	6,580.7	12.8	15.9	-89.23	234.5	614.7	815.7	791.2	24.52	33.264		
6,700.0	6,684.2	6,718.1	6,665.6	12.8	15.9	-88.18	195.1	614.7	816.8	792.4	24.45	33.406		
6,800.0	6,773.4	6,809.8	6,741.4	12.7	15.8	-87.19	143.7	614.7	818.3	794.0	24.32	33.654		
6,900.0	6,853.6	6,900.0	6,807.1	12.7	15.8	-86.28	82.0	614.7	820.2	796.0	24.23	33.851		
7,000.0	6,922.2	6,988.7	6,861.4	12.7	15.9	-85.48	12.1	614.7	822.3	798.0	24.32	33.805		
7,100.0	6,977.1	7,076.4	6,903.9	12.9	16.1	-84.81	-64.6	614.7	824.5	799.8	24.71	33.370		
7,200.0	7,016.8	7,163.4	6,934.0	13.3	16.4	-84.27	-146.1	614.7	826.6	801.2	25.46	32.470		
7,300.0	7,039.9	7,250.0	6,951.4	13.9	16.8	-83.90	-230.9	614.7	828.7	802.1	26.61	31.142		
7,400.0	7,046.0	7,338.4	6,956.0	14.7	17.4	-83.71	-319.1	614.7	830.5	802.4	28.16	29.494		
7,500.0	7,046.0	7,438.4	6,956.0	15.6	18.2	-83.72	-419.1	614.7	832.3	802.2	30.09	27.661		
7,600.0	7,046.0	7,538.4	6,956.0	16.7	19.1	-83.73	-519.0	614.7	834.0	801.7	32.27	25.846		
7,700.0	7,046.0	7,638.4	6,956.0	17.9	20.2	-83.75	-619.0	614.7	835.8	801.1	34.67	24.109		
7,800.0	7,046.0	7,738.3	6,956.0	19.1	21.3	-83.76	-719.0	614.7	837.5	800.3	37.23	22.493		
7,900.0	7,046.0	7,838.3	6,956.0	20.5	22.5	-83.77	-819.0	614.7	839.3	799.3	39.94	21.011		
8,000.0	7,046.0	7,938.3	6,956.0	21.9	23.8	-83.79	-919.0	614.7	841.0	798.2	42.77	19.665		
8,100.0	7,046.0	8,038.3	6,956.0	23.3	25.1	-83.80	-1,019.0	614.7	842.8	797.1	45.68	18.449		
8,200.0	7,046.0	8,138.3	6,956.0	24.8	26.5	-83.81	-1,119.0	614.7	844.5	795.8	48.67	17.351		
8,300.0	7,046.0	8,238.3	6,956.0	26.4	27.9	-83.83	-1,218.9	614.7	846.3	794.5	51.73	16.361		
8,400.0	7,046.0	8,338.3	6,956.0	27.9	29.4	-83.84	-1,318.9	614.7	848.0	793.2	54.83	15.466		
8,500.0	7,046.0	8,438.2	6,956.0	29.5	30.9	-83.85	-1,418.9	614.7	849.8	791.8	57.98	14.656		
8,600.0	7,046.0	8,538.2	6,956.0	31.1	32.4	-83.86	-1,518.9	614.7	851.5	790.4	61.17	13.921		
8,700.0	7,046.0	8,638.2	6,956.0	32.7	33.9	-83.88	-1,618.9	614.7	853.3	788.9	64.38	13.253		
8,800.0	7,046.0	8,738.2	6,956.0	34.3	35.5	-83.89	-1,718.9	614.7	855.0	787.4	67.63	12.643		
8,900.0	7,046.0	8,838.2	6,956.0	35.9	37.1	-83.90	-1,818.8	614.7	856.8	785.9	70.90	12.085		
9,000.0	7,046.0	8,938.2	6,956.0	37.6	38.7	-83.91	-1,918.8	614.7	858.5	784.3	74.19	11.573		
9,100.0	7,046.0	9,038.1	6,956.0	39.2	40.3	-83.93	-2,018.8	614.7	860.3	782.8	77.49	11.102		
9,200.0	7,046.0	9,138.1	6,956.0	40.9	41.9	-83.94	-2,118.8	614.7	862.0	781.2	80.81	10.667		
9,300.0	7,046.0	9,238.1	6,956.0	42.6	43.5	-83.95	-2,218.8	614.7	863.8	779.6	84.15	10.265		
9,400.0	7,046.0	9,338.1	6,956.0	44.3	45.2	-83.96	-2,318.8	614.7	865.5	778.0	87.50	9.892		
9,500.0	7,046.0	9,438.1	6,956.0	45.9	46.8	-83.98	-2,418.8	614.7	867.3	776.4	90.86	9.546		
9,600.0	7,046.0	9,538.1	6,956.0	47.6	48.5	-83.99	-2,518.7	614.7	869.0	774.8	94.22	9.223		
9,700.0	7,046.0	9,638.1	6,956.0	49.3	50.1	-84.00	-2,618.7	614.7	870.8	773.2	97.60	8.922		
9,800.0	7,046.0	9,738.0	6,956.0	51.0	51.8	-84.01	-2,718.7	614.7	872.5	771.6	100.99	8.640		
9,900.0	7,046.0	9,838.0	6,956.0	52.7	53.5	-84.02	-2,818.7	614.7	874.3	769.9	104.38	8.376		
10,000.0	7,046.0	9,938.0	6,956.0	54.4	55.1	-84.04	-2,918.7	614.7	876.0	768.3	107.78	8.128		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2K-32H-C264 - 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		
10,100.0	7,046.0	10,038.0	6,956.0	56.1	56.8	-84.05	-3,018.7	614.7	877.8	766.6	111.18	7.895		
10,200.0	7,046.0	10,138.0	6,956.0	57.8	58.5	-84.06	-3,118.6	614.7	879.5	765.0	114.59	7.675		
10,300.0	7,046.0	10,238.0	6,956.0	59.5	60.2	-84.07	-3,218.6	614.7	881.3	763.3	118.01	7.468		
10,400.0	7,046.0	10,337.9	6,956.0	61.3	61.9	-84.08	-3,318.6	614.7	883.0	761.6	121.43	7.272		
10,500.0	7,046.0	10,437.9	6,956.0	63.0	63.6	-84.10	-3,418.6	614.7	884.8	760.0	124.85	7.087		
10,600.0	7,046.0	10,537.9	6,956.0	64.7	65.3	-84.11	-3,518.6	614.7	886.6	758.3	128.28	6.911		
10,700.0	7,046.0	10,637.9	6,956.0	66.4	67.0	-84.12	-3,618.6	614.7	888.3	756.6	131.71	6.745		
10,800.0	7,046.0	10,737.9	6,956.0	68.1	68.7	-84.13	-3,718.6	614.7	890.1	754.9	135.14	6.586		
10,900.0	7,046.0	10,837.9	6,956.0	69.9	70.4	-84.14	-3,818.5	614.7	891.8	753.2	138.58	6.435		
11,000.0	7,046.0	10,937.9	6,956.0	71.6	72.1	-84.15	-3,918.5	614.7	893.6	751.5	142.02	6.292		
11,100.0	7,046.0	11,037.8	6,956.0	73.3	73.8	-84.17	-4,018.5	614.7	895.3	749.9	145.46	6.155		
11,200.0	7,046.0	11,137.8	6,956.0	75.0	75.5	-84.18	-4,118.5	614.7	897.1	748.2	148.91	6.024		
11,300.0	7,046.0	11,237.8	6,956.0	76.8	77.3	-84.19	-4,218.5	614.7	898.8	746.5	152.35	5.900		
11,400.0	7,046.0	11,337.8	6,956.0	78.5	79.0	-84.20	-4,318.5	614.7	900.6	744.8	155.80	5.780		
11,500.0	7,046.0	11,437.8	6,956.0	80.2	80.7	-84.21	-4,418.4	614.7	902.3	743.1	159.25	5.666		
11,600.0	7,046.0	11,537.8	6,956.0	82.0	82.4	-84.22	-4,518.4	614.7	904.1	741.4	162.71	5.556		
11,633.9	7,046.0	11,571.7	6,956.0	82.6	83.0	-84.23	-4,552.3	614.7	904.7	740.8	163.88	5.520 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2L-32H-C264 - 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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	91.04	-0.7	37.5	37.5					
100.0	100.0	101.0	101.0	0.1	0.1	91.04	-0.7	37.5	37.5	37.2	0.25	152.345		
200.0	200.0	201.0	201.0	0.3	0.3	91.04	-0.7	37.5	37.5	36.9	0.60	62.993		
232.0	232.0	233.0	233.0	0.4	0.4	91.04	-0.7	37.5	37.5	36.8	0.71	53.039 CC		
300.0	300.0	300.7	300.7	0.5	0.5	90.92	-0.6	37.7	37.7	36.8	0.94	39.952 ES		
400.0	400.0	400.0	400.0	0.6	0.6	90.08	-0.1	39.3	39.4	38.1	1.29	30.439		
500.0	500.0	499.3	499.2	0.8	0.8	88.59	1.1	42.6	42.7	41.0	1.65	25.926		
600.0	600.0	598.4	598.2	1.0	1.0	124.15	2.7	47.5	48.2	46.2	1.99	24.213		
700.0	700.0	697.2	696.7	1.2	1.2	124.32	4.9	54.0	56.3	54.0	2.34	24.054 SF		
800.0	799.9	795.6	794.8	1.4	1.4	125.21	7.6	62.1	67.1	64.4	2.70	24.872		
900.0	899.7	893.5	892.1	1.5	1.7	126.44	10.8	71.7	80.4	77.4	3.06	26.298		
1,000.0	999.5	990.9	988.8	1.7	1.9	127.27	14.6	82.8	95.7	92.3	3.43	27.940		
1,100.0	1,099.2	1,087.8	1,084.8	1.9	2.2	127.58	18.8	95.4	112.6	108.8	3.80	29.653		
1,200.0	1,199.0	1,184.2	1,180.0	2.1	2.5	127.56	23.6	109.5	131.1	126.9	4.17	31.415		
1,300.0	1,298.8	1,280.3	1,274.8	2.3	2.8	127.33	28.8	125.0	151.1	146.5	4.55	33.207		
1,400.0	1,398.6	1,378.2	1,371.1	2.5	3.1	127.09	34.3	141.4	171.6	166.6	4.93	34.799		
1,500.0	1,498.4	1,476.1	1,467.5	2.7	3.5	126.91	39.8	157.7	192.1	186.8	5.31	36.155		
1,600.0	1,598.2	1,573.9	1,563.8	3.0	3.8	126.75	45.3	174.0	212.6	206.9	5.70	37.324		
1,700.0	1,698.0	1,671.8	1,660.2	3.2	4.1	126.63	50.8	190.3	233.1	227.0	6.08	38.339		
1,800.0	1,797.7	1,769.7	1,756.5	3.4	4.5	126.52	56.3	206.7	253.6	247.2	6.46	39.231		
1,900.0	1,897.5	1,867.5	1,852.8	3.6	4.8	126.43	61.8	223.0	274.1	267.3	6.85	40.019		
2,000.0	1,997.3	1,965.4	1,949.2	3.8	5.2	126.36	67.3	239.3	294.7	287.4	7.24	40.720		
2,100.0	2,097.1	2,063.3	2,045.5	4.0	5.5	126.29	72.7	255.6	315.2	307.6	7.62	41.349		
2,200.0	2,196.9	2,161.2	2,141.9	4.2	5.8	126.23	78.2	272.0	335.7	327.7	8.01	41.915		
2,300.0	2,296.7	2,259.0	2,238.2	4.4	6.2	126.18	83.7	288.3	356.2	347.8	8.40	42.428		
2,400.0	2,296.5	2,256.9	2,234.6	4.6	6.5	126.13	89.2	304.6	376.7	368.0	8.78	42.894		
2,500.0	2,496.2	2,454.8	2,430.9	4.8	6.9	126.09	94.7	321.0	397.3	388.1	9.17	43.320		
2,600.0	2,596.0	2,552.6	2,527.2	5.0	7.2	126.05	100.2	337.3	417.8	408.2	9.56	43.711		
2,700.0	2,695.8	2,650.5	2,623.6	5.2	7.6	126.02	105.7	353.6	438.3	428.4	9.95	44.070		
2,800.0	2,795.6	2,748.4	2,719.9	5.4	7.9	125.99	111.2	369.9	458.8	448.5	10.33	44.402		
2,900.0	2,895.4	2,846.3	2,816.3	5.6	8.3	125.96	116.7	386.3	479.3	468.6	10.72	44.709		
3,000.0	2,995.2	2,944.1	2,912.6	5.8	8.6	125.94	122.2	402.6	499.9	488.8	11.11	44.995		
3,100.0	3,095.0	3,042.0	3,009.0	6.1	9.0	125.91	127.7	418.9	520.4	508.9	11.50	45.260		
3,200.0	3,194.7	3,139.9	3,105.3	6.3	9.3	125.89	133.2	435.2	540.9	529.0	11.89	45.508		
3,300.0	3,294.5	3,237.7	3,201.6	6.5	9.7	125.87	138.7	451.6	561.4	549.1	12.27	45.740		
3,400.0	3,394.3	3,335.6	3,298.0	6.7	10.0	125.85	144.2	467.9	581.9	569.3	12.66	45.958		
3,500.0	3,494.1	3,433.5	3,394.3	6.9	10.3	125.83	149.7	484.2	602.5	589.4	13.05	46.162		
3,600.0	3,593.9	3,531.4	3,490.7	7.1	10.7	125.82	155.2	500.6	623.0	609.5	13.44	46.354		
3,700.0	3,693.7	3,629.2	3,587.0	7.3	11.0	125.80	160.7	516.9	643.5	629.7	13.83	46.536		
3,800.0	3,793.5	3,727.1	3,683.4	7.5	11.4	125.79	166.2	533.2	664.0	649.8	14.22	46.707		
3,900.0	3,893.2	3,825.0	3,779.7	7.7	11.7	125.77	171.7	549.5	684.5	669.9	14.61	46.869		
4,000.0	3,993.0	3,922.9	3,876.1	7.9	12.1	125.76	177.2	565.9	705.1	690.1	14.99	47.022		
4,100.0	4,092.8	4,020.7	3,972.4	8.1	12.4	125.75	182.7	582.2	725.6	710.2	15.38	47.168		
4,200.0	4,192.6	4,118.6	4,068.7	8.3	12.8	125.74	188.2	598.5	746.1	730.3	15.77	47.306		
4,300.0	4,292.4	4,216.5	4,165.1	8.5	13.1	125.73	193.6	614.8	766.6	750.5	16.16	47.437		
4,400.0	4,392.2	4,314.3	4,261.4	8.8	13.5	125.71	199.1	631.2	787.2	770.6	16.55	47.562		
4,500.0	4,492.0	4,412.2	4,357.8	9.0	13.8	125.70	204.6	647.5	807.7	790.7	16.94	47.682		
4,600.0	4,591.7	4,510.1	4,454.1	9.2	14.2	125.70	210.1	663.8	828.2	810.9	17.33	47.796		
4,700.0	4,691.5	4,608.0	4,550.5	9.4	14.5	125.69	215.6	680.2	848.7	831.0	17.72	47.904		
4,800.0	4,791.3	4,705.8	4,646.8	9.6	14.9	125.68	221.1	696.5	869.2	851.1	18.11	48.009		
4,900.0	4,891.1	4,803.7	4,743.1	9.8	15.2	125.67	226.6	712.8	889.8	871.3	18.50	48.108		
5,000.0	4,990.9	4,901.6	4,839.5	10.0	15.6	125.66	232.1	729.1	910.3	891.4	18.88	48.204		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2G-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2G-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design											S32-T2N-R64W (Newman) - Newman 2L-32H-C264 - 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	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis					
5,100.0	5,090.7	4,999.4	4,935.8	10.2	15.9	125.66	237.6	745.5	930.8	911.5	19.27	48.295				
5,200.0	5,190.5	5,105.1	5,039.8	10.4	16.3	125.65	243.5	762.9	951.2	931.5	19.68	48.339				
5,300.0	5,290.2	5,221.9	5,155.2	10.6	16.7	125.68	249.3	780.3	969.9	949.8	20.10	48.258				
5,400.0	5,390.0	5,339.6	5,271.8	10.8	17.0	125.76	254.5	795.6	986.8	966.3	20.52	48.088				

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Reference Site: S32-T2N-R64W (Newman)
Site Error: 0.0ft
Reference Well: Newman 2G-32H-C264
Well Error: 0.0ft
Reference Wellbore: HZ
Reference Design: Plan #1

Local Co-ordinate Reference: Well Newman 2G-32H-C264
TVD Reference: WELL @ 4984.0ft (Original Well Elev)
MD Reference: WELL @ 4984.0ft (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 @ 4984.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: Newman 2G-32H-C264
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.60°

