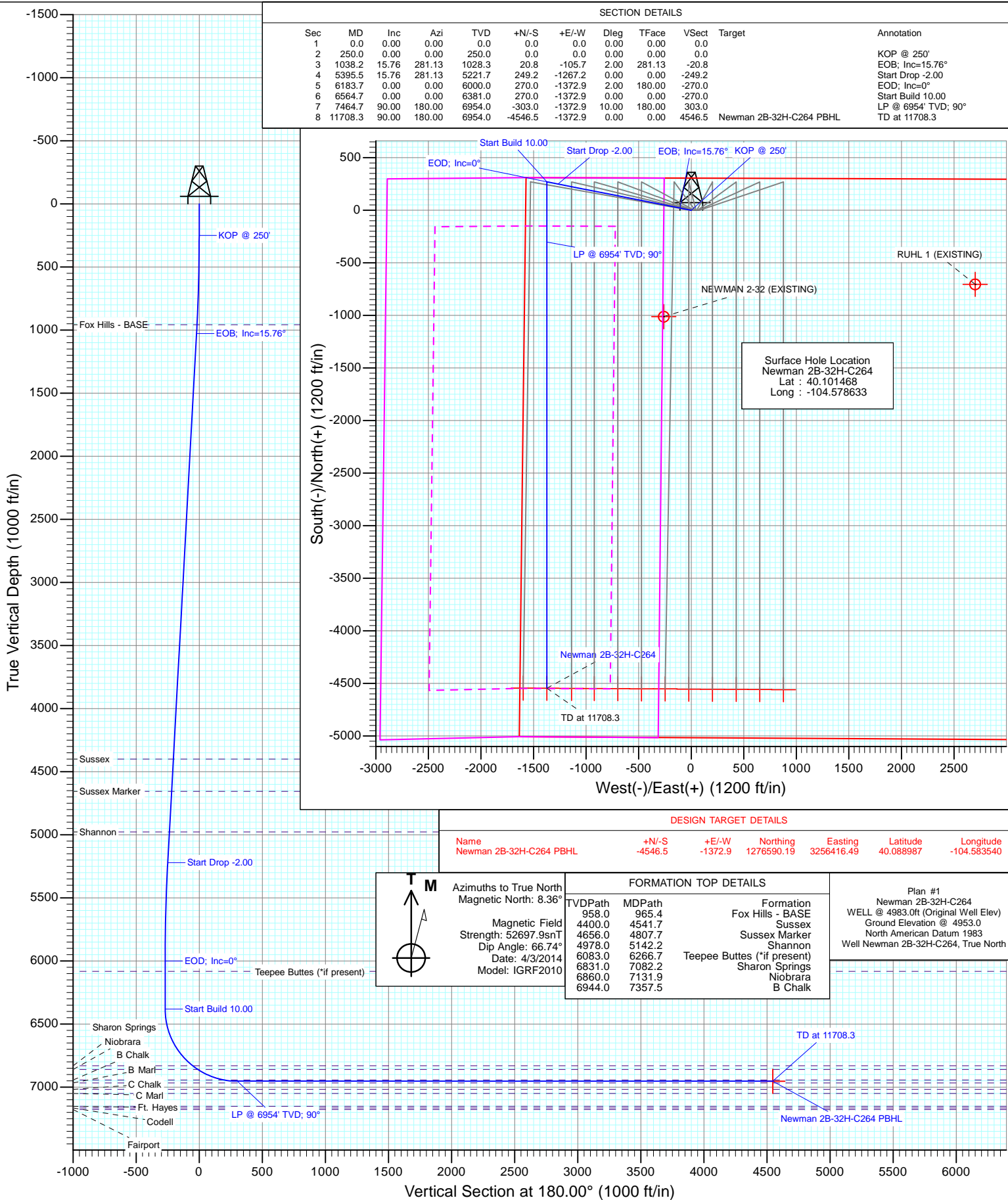




Project: DJ Wattenberg
Site: S32-T2N-R64W (Newman)
Well: Newman 2B-32H-C264
Wellbore: HZ
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2B-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 2B-32H-C264					
Well Position	+N/-S	0.0 ft	Northing:	1,281,150.71 ft	Latitude:	40.101468
	+E/-W	0.0 ft	Easting:	3,257,742.10 ft	Longitude:	-104.578633
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,953.0 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	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,038.2	15.76	281.13	1,028.3	20.8	-105.7	2.00	2.00	0.00	281.13	
5,395.5	15.76	281.13	5,221.7	249.2	-1,267.2	0.00	0.00	0.00	0.00	
6,183.7	0.00	0.00	6,000.0	270.0	-1,372.9	2.00	-2.00	0.00	180.00	
6,564.7	0.00	0.00	6,381.0	270.0	-1,372.9	0.00	0.00	0.00	0.00	
7,464.7	90.00	180.00	6,954.0	-303.0	-1,372.9	10.00	10.00	0.00	180.00	
11,708.3	90.00	180.00	6,954.0	-4,546.5	-1,372.9	0.00	0.00	0.00	0.00	Newman 2B-32H-C264

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2B-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	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	KOP @ 250'
300.0	1.00	281.13	300.0	0.1	-0.4	-0.1	2.00	2.00	
400.0	3.00	281.13	399.9	0.8	-3.9	-0.8	2.00	2.00	
500.0	5.00	281.13	499.7	2.1	-10.7	-2.1	2.00	2.00	
600.0	7.00	281.13	599.1	4.1	-21.0	-4.1	2.00	2.00	
700.0	9.00	281.13	698.2	6.8	-34.6	-6.8	2.00	2.00	
800.0	11.00	281.13	796.6	10.2	-51.6	-10.2	2.00	2.00	
900.0	13.00	281.13	894.4	14.2	-72.0	-14.2	2.00	2.00	
965.4	14.31	281.13	958.0	17.1	-87.2	-17.1	2.00	2.00	Fox Hills - BASE
1,000.0	15.00	281.13	991.5	18.8	-95.8	-18.8	2.00	2.00	
1,038.2	15.76	281.13	1,028.3	20.8	-105.7	-20.8	2.00	2.00	EOB; Inc=15.76°
1,100.0	15.76	281.13	1,087.8	24.0	-122.2	-24.0	0.00	0.00	
1,200.0	15.76	281.13	1,184.0	29.3	-148.9	-29.3	0.00	0.00	
1,300.0	15.76	281.13	1,280.2	34.5	-175.5	-34.5	0.00	0.00	
1,400.0	15.76	281.13	1,376.5	39.8	-202.2	-39.8	0.00	0.00	
1,500.0	15.76	281.13	1,472.7	45.0	-228.8	-45.0	0.00	0.00	
1,600.0	15.76	281.13	1,569.0	50.2	-255.5	-50.2	0.00	0.00	
1,700.0	15.76	281.13	1,665.2	55.5	-282.1	-55.5	0.00	0.00	
1,800.0	15.76	281.13	1,761.4	60.7	-308.8	-60.7	0.00	0.00	
1,900.0	15.76	281.13	1,857.7	66.0	-335.4	-66.0	0.00	0.00	
2,000.0	15.76	281.13	1,953.9	71.2	-362.1	-71.2	0.00	0.00	
2,100.0	15.76	281.13	2,050.2	76.5	-388.8	-76.5	0.00	0.00	
2,200.0	15.76	281.13	2,146.4	81.7	-415.4	-81.7	0.00	0.00	
2,300.0	15.76	281.13	2,242.6	86.9	-442.1	-86.9	0.00	0.00	
2,400.0	15.76	281.13	2,338.9	92.2	-468.7	-92.2	0.00	0.00	
2,500.0	15.76	281.13	2,435.1	97.4	-495.4	-97.4	0.00	0.00	
2,600.0	15.76	281.13	2,531.4	102.7	-522.0	-102.7	0.00	0.00	
2,700.0	15.76	281.13	2,627.6	107.9	-548.7	-107.9	0.00	0.00	
2,800.0	15.76	281.13	2,723.8	113.1	-575.3	-113.1	0.00	0.00	
2,900.0	15.76	281.13	2,820.1	118.4	-602.0	-118.4	0.00	0.00	
3,000.0	15.76	281.13	2,916.3	123.6	-628.7	-123.6	0.00	0.00	
3,100.0	15.76	281.13	3,012.6	128.9	-655.3	-128.9	0.00	0.00	
3,200.0	15.76	281.13	3,108.8	134.1	-682.0	-134.1	0.00	0.00	
3,300.0	15.76	281.13	3,205.0	139.4	-708.6	-139.4	0.00	0.00	
3,400.0	15.76	281.13	3,301.3	144.6	-735.3	-144.6	0.00	0.00	
3,500.0	15.76	281.13	3,397.5	149.8	-761.9	-149.8	0.00	0.00	
3,600.0	15.76	281.13	3,493.8	155.1	-788.6	-155.1	0.00	0.00	
3,700.0	15.76	281.13	3,590.0	160.3	-815.2	-160.3	0.00	0.00	
3,800.0	15.76	281.13	3,686.2	165.6	-841.9	-165.6	0.00	0.00	
3,900.0	15.76	281.13	3,782.5	170.8	-868.6	-170.8	0.00	0.00	
4,000.0	15.76	281.13	3,878.7	176.1	-895.2	-176.1	0.00	0.00	
4,100.0	15.76	281.13	3,974.9	181.3	-921.9	-181.3	0.00	0.00	
4,200.0	15.76	281.13	4,071.2	186.5	-948.5	-186.5	0.00	0.00	
4,300.0	15.76	281.13	4,167.4	191.8	-975.2	-191.8	0.00	0.00	
4,400.0	15.76	281.13	4,263.7	197.0	-1,001.8	-197.0	0.00	0.00	
4,500.0	15.76	281.13	4,359.9	202.3	-1,028.5	-202.3	0.00	0.00	
4,541.7	15.76	281.13	4,400.0	204.4	-1,039.6	-204.4	0.00	0.00	Sussex
4,600.0	15.76	281.13	4,456.1	207.5	-1,055.1	-207.5	0.00	0.00	
4,700.0	15.76	281.13	4,552.4	212.7	-1,081.8	-212.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2B-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	15.76	281.13	4,648.6	218.0	-1,108.4	-218.0	0.00	0.00	
4,807.7	15.76	281.13	4,656.0	218.4	-1,110.5	-218.4	0.00	0.00	Sussex Marker
4,900.0	15.76	281.13	4,744.9	223.2	-1,135.1	-223.2	0.00	0.00	
5,000.0	15.76	281.13	4,841.1	228.5	-1,161.8	-228.5	0.00	0.00	
5,100.0	15.76	281.13	4,937.3	233.7	-1,188.4	-233.7	0.00	0.00	
5,142.2	15.76	281.13	4,978.0	235.9	-1,199.7	-235.9	0.00	0.00	Shannon
5,200.0	15.76	281.13	5,033.6	239.0	-1,215.1	-239.0	0.00	0.00	
5,300.0	15.76	281.13	5,129.8	244.2	-1,241.7	-244.2	0.00	0.00	
5,395.5	15.76	281.13	5,221.7	249.2	-1,267.2	-249.2	0.00	0.00	Start Drop -2.00
5,400.0	15.67	281.13	5,226.1	249.4	-1,268.4	-249.4	2.00	-2.00	
5,500.0	13.67	281.13	5,322.8	254.3	-1,293.2	-254.3	2.00	-2.00	
5,600.0	11.67	281.13	5,420.4	258.6	-1,314.8	-258.6	2.00	-2.00	
5,700.0	9.67	281.13	5,518.6	262.1	-1,332.9	-262.1	2.00	-2.00	
5,800.0	7.67	281.13	5,617.5	265.0	-1,347.7	-265.0	2.00	-2.00	
5,900.0	5.67	281.13	5,716.8	267.3	-1,359.1	-267.3	2.00	-2.00	
6,000.0	3.67	281.13	5,816.4	268.9	-1,367.1	-268.9	2.00	-2.00	
6,100.0	1.67	281.13	5,916.3	269.8	-1,371.7	-269.8	2.00	-2.00	
6,183.7	0.00	0.00	6,000.0	270.0	-1,372.9	-270.0	2.00	-2.00	EOD; Inc=0°
6,200.0	0.00	0.00	6,016.3	270.0	-1,372.9	-270.0	0.00	0.00	
6,266.7	0.00	0.00	6,083.0	270.0	-1,372.9	-270.0	0.00	0.00	Teepee Buttes (*if present)
6,300.0	0.00	0.00	6,116.3	270.0	-1,372.9	-270.0	0.00	0.00	
6,400.0	0.00	0.00	6,216.3	270.0	-1,372.9	-270.0	0.00	0.00	
6,500.0	0.00	0.00	6,316.3	270.0	-1,372.9	-270.0	0.00	0.00	
6,564.7	0.00	0.00	6,381.0	270.0	-1,372.9	-270.0	0.00	0.00	Start Build 10.00
6,600.0	3.53	180.00	6,416.3	268.9	-1,372.9	-268.9	10.00	10.00	
6,700.0	13.53	180.00	6,515.1	254.1	-1,372.9	-254.1	10.00	10.00	
6,800.0	23.53	180.00	6,609.8	222.4	-1,372.9	-222.4	10.00	10.00	
6,900.0	33.53	180.00	6,697.5	174.7	-1,372.9	-174.7	10.00	10.00	
7,000.0	43.53	180.00	6,775.6	112.5	-1,372.9	-112.5	10.00	10.00	
7,082.2	51.75	180.00	6,831.0	51.8	-1,372.9	-51.8	10.00	10.00	Sharon Springs
7,100.0	53.53	180.00	6,841.8	37.6	-1,372.9	-37.6	10.00	10.00	
7,131.9	56.71	180.00	6,860.0	11.5	-1,372.9	-11.5	10.00	10.00	Niobrara
7,200.0	63.53	180.00	6,893.9	-47.6	-1,372.9	47.6	10.00	10.00	
7,300.0	73.53	180.00	6,930.5	-140.5	-1,372.9	140.5	10.00	10.00	
7,357.5	79.28	180.00	6,944.0	-196.4	-1,372.9	196.4	10.00	10.00	B Chalk
7,400.0	83.53	180.00	6,950.3	-238.4	-1,372.9	238.4	10.00	10.00	
7,464.7	90.00	180.00	6,954.0	-303.0	-1,372.9	303.0	10.00	10.00	LP @ 6954' TVD; 90°
7,500.0	90.00	180.00	6,954.0	-338.2	-1,372.9	338.2	0.00	0.00	
7,600.0	90.00	180.00	6,954.0	-438.2	-1,372.9	438.2	0.00	0.00	
7,700.0	90.00	180.00	6,954.0	-538.2	-1,372.9	538.2	0.00	0.00	
7,800.0	90.00	180.00	6,954.0	-638.2	-1,372.9	638.2	0.00	0.00	
7,900.0	90.00	180.00	6,954.0	-738.2	-1,372.9	738.2	0.00	0.00	
8,000.0	90.00	180.00	6,954.0	-838.2	-1,372.9	838.2	0.00	0.00	
8,100.0	90.00	180.00	6,954.0	-938.2	-1,372.9	938.2	0.00	0.00	
8,200.0	90.00	180.00	6,954.0	-1,038.2	-1,372.9	1,038.2	0.00	0.00	
8,300.0	90.00	180.00	6,954.0	-1,138.2	-1,372.9	1,138.2	0.00	0.00	
8,400.0	90.00	180.00	6,954.0	-1,238.2	-1,372.9	1,238.2	0.00	0.00	
8,500.0	90.00	180.00	6,954.0	-1,338.2	-1,372.9	1,338.2	0.00	0.00	
8,600.0	90.00	180.00	6,954.0	-1,438.2	-1,372.9	1,438.2	0.00	0.00	
8,700.0	90.00	180.00	6,954.0	-1,538.2	-1,372.9	1,538.2	0.00	0.00	
8,800.0	90.00	180.00	6,954.0	-1,638.2	-1,372.9	1,638.2	0.00	0.00	
8,900.0	90.00	180.00	6,954.0	-1,738.2	-1,372.9	1,738.2	0.00	0.00	

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2B-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
9,000.0	90.00	180.00	6,954.0	-1,838.2	-1,372.9	1,838.2	0.00	0.00	
9,100.0	90.00	180.00	6,954.0	-1,938.2	-1,372.9	1,938.2	0.00	0.00	
9,200.0	90.00	180.00	6,954.0	-2,038.2	-1,372.9	2,038.2	0.00	0.00	
9,300.0	90.00	180.00	6,954.0	-2,138.2	-1,372.9	2,138.2	0.00	0.00	
9,400.0	90.00	180.00	6,954.0	-2,238.2	-1,372.9	2,238.2	0.00	0.00	
9,500.0	90.00	180.00	6,954.0	-2,338.2	-1,372.9	2,338.2	0.00	0.00	
9,600.0	90.00	180.00	6,954.0	-2,438.2	-1,372.9	2,438.2	0.00	0.00	
9,700.0	90.00	180.00	6,954.0	-2,538.2	-1,372.9	2,538.2	0.00	0.00	
9,800.0	90.00	180.00	6,954.0	-2,638.2	-1,372.9	2,638.2	0.00	0.00	
9,900.0	90.00	180.00	6,954.0	-2,738.2	-1,372.9	2,738.2	0.00	0.00	
10,000.0	90.00	180.00	6,954.0	-2,838.2	-1,372.9	2,838.2	0.00	0.00	
10,100.0	90.00	180.00	6,954.0	-2,938.2	-1,372.9	2,938.2	0.00	0.00	
10,200.0	90.00	180.00	6,954.0	-3,038.2	-1,372.9	3,038.2	0.00	0.00	
10,300.0	90.00	180.00	6,954.0	-3,138.2	-1,372.9	3,138.2	0.00	0.00	
10,400.0	90.00	180.00	6,954.0	-3,238.2	-1,372.9	3,238.2	0.00	0.00	
10,500.0	90.00	180.00	6,954.0	-3,338.2	-1,372.9	3,338.2	0.00	0.00	
10,600.0	90.00	180.00	6,954.0	-3,438.2	-1,372.9	3,438.2	0.00	0.00	
10,700.0	90.00	180.00	6,954.0	-3,538.2	-1,372.9	3,538.2	0.00	0.00	
10,800.0	90.00	180.00	6,954.0	-3,638.2	-1,372.9	3,638.2	0.00	0.00	
10,900.0	90.00	180.00	6,954.0	-3,738.2	-1,372.9	3,738.2	0.00	0.00	
11,000.0	90.00	180.00	6,954.0	-3,838.2	-1,372.9	3,838.2	0.00	0.00	
11,100.0	90.00	180.00	6,954.0	-3,938.2	-1,372.9	3,938.2	0.00	0.00	
11,200.0	90.00	180.00	6,954.0	-4,038.2	-1,372.9	4,038.2	0.00	0.00	
11,300.0	90.00	180.00	6,954.0	-4,138.2	-1,372.9	4,138.2	0.00	0.00	
11,400.0	90.00	180.00	6,954.0	-4,238.2	-1,372.9	4,238.2	0.00	0.00	
11,500.0	90.00	180.00	6,954.0	-4,338.2	-1,372.9	4,338.2	0.00	0.00	
11,600.0	90.00	180.00	6,954.0	-4,438.2	-1,372.9	4,438.2	0.00	0.00	
11,700.0	90.00	180.00	6,954.0	-4,538.2	-1,372.9	4,538.2	0.00	0.00	
11,708.3	90.00	180.00	6,954.0	-4,546.5	-1,372.9	4,546.5	0.00	0.00	TD at 11708.3

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 2B-32H-C264 I	0.00	0.00	6,954.0	-4,546.5	-1,372.9	1,276,590.19	3,256,416.49	40.088987	-104.583540
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2B-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
965.4	958.0	Fox Hills - BASE				
4,541.7	4,400.0	Sussex				
4,807.7	4,656.0	Sussex Marker				
5,142.2	4,978.0	Shannon				
6,266.7	6,083.0	Teepee Buttes (*if present)				
7,082.2	6,831.0	Sharon Springs				
7,131.9	6,860.0	Niobrara				
7,357.5	6,944.0	B Chalk				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
250.0	250.0	0.0	0.0	KOP @ 250'
1,038.2	1,028.3	20.8	-105.7	EOB; Inc=15.76°
5,395.5	5,221.7	249.2	-1,267.2	Start Drop -2.00
6,183.7	6,000.0	270.0	-1,372.9	EOD; Inc=0°
6,564.7	6,381.0	270.0	-1,372.9	Start Build 10.00
7,464.7	6,954.0	-303.0	-1,372.9	LP @ 6954' TVD; 90°
11,708.3	6,954.0	-4,546.5	-1,372.9	TD at 11708.3

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R64W (Newman)

Newman 2B-32H-C264

HZ

Plan #1

Anticollision Report

04 April, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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	11,708.3	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						Out of range
Newman 2A-32H-C264 - HZ - Plan #1	200.0	199.0	7.6	7.0	12.765	CC, ES
Newman 2A-32H-C264 - HZ - Plan #1	11,708.3	11,834.8	242.7	89.6	1.586	SF
Newman 2C-32H-C264 - HZ - Plan #1	200.0	200.0	7.6	7.0	12.742	CC
Newman 2C-32H-C264 - HZ - Plan #1	227.8	227.8	7.6	6.9	11.046	ES
Newman 2C-32H-C264 - HZ - Plan #1	11,708.3	11,875.0	322.6	199.6	2.623	SF
Newman 2D-32H-C264 - HZ - Plan #1	200.0	200.0	15.1	14.5	25.463	CC
Newman 2D-32H-C264 - HZ - Plan #1	227.8	227.8	15.2	14.5	21.980	ES
Newman 2D-32H-C264 - HZ - Plan #1	11,708.3	11,704.4	459.3	297.6	2.841	SF
Newman 2E-32H-C264 - HZ - Plan #1	200.0	200.0	22.7	22.1	38.189	CC
Newman 2E-32H-C264 - HZ - Plan #1	227.8	227.8	22.7	22.0	32.917	ES
Newman 2E-32H-C264 - HZ - Plan #1	11,708.3	11,583.1	675.1	510.5	4.101	SF
Newman 2F-32H-C264 - HZ - Plan #1	200.0	201.0	29.9	29.3	50.297	CC
Newman 2F-32H-C264 - HZ - Plan #1	227.8	228.8	30.0	29.3	43.341	ES
Newman 2F-32H-C264 - HZ - Plan #1	11,708.3	11,777.9	926.8	766.5	5.783	SF
Newman 2G-32H-C264 - HZ - Plan #1	200.0	201.0	37.5	36.9	62.987	CC
Newman 2G-32H-C264 - HZ - Plan #1	227.8	228.8	37.6	36.9	54.253	ES
Newman 2G-32H-C264 - HZ - Plan #1	600.0	600.9	57.9	55.9	29.167	SF
Newman 2H-32H-C264 - HZ - Plan #1	200.0	201.0	45.0	44.4	75.683	CC
Newman 2H-32H-C264 - HZ - Plan #1	227.8	228.8	45.1	44.4	65.171	ES
Newman 2H-32H-C264 - HZ - Plan #1	600.0	600.6	65.6	63.6	32.992	SF
Newman 2I-32H-C264 - HZ - Plan #1	200.0	202.0	52.6	52.0	88.114	CC
Newman 2I-32H-C264 - HZ - Plan #1	227.8	229.8	52.7	52.0	75.891	ES
Newman 2I-32H-C264 - HZ - Plan #1	600.0	600.0	75.3	73.3	37.843	SF
Newman 2J-32H-C264 - HZ - Plan #1	200.0	202.0	60.1	59.6	100.767	CC
Newman 2J-32H-C264 - HZ - Plan #1	227.8	229.8	60.2	59.5	86.775	ES
Newman 2J-32H-C264 - HZ - Plan #1	600.0	598.3	85.5	83.5	43.059	SF
Newman 2K-32H-C264 - HZ - Plan #1	200.0	202.0	67.4	66.8	112.951	CC
Newman 2K-32H-C264 - HZ - Plan #1	228.9	230.9	67.5	66.8	96.719	ES
Newman 2K-32H-C264 - HZ - Plan #1	600.0	596.8	95.5	93.5	48.146	SF
Newman 2L-32H-C264 - HZ - Plan #1	200.0	202.0	75.0	74.4	125.611	CC
Newman 2L-32H-C264 - HZ - Plan #1	226.9	228.9	75.0	74.3	108.630	ES
Newman 2L-32H-C264 - HZ - Plan #1	600.0	595.3	106.0	104.0	53.526	SF
RUHL 1 (EXISTING) - EXISTING - ENCANA WELL						Out of range

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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: 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)		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	99.0	99.0	0.1	0.1	-89.90	0.0	-7.6	7.6	7.3	0.24	31.066		
200.0	200.0	199.0	199.0	0.3	0.3	-89.90	0.0	-7.6	7.6	7.0	0.59	12.765 CC, ES		
300.0	300.0	298.7	298.7	0.5	0.5	-9.65	0.3	-9.2	8.8	7.9	0.94	9.367		
400.0	399.9	398.4	398.2	0.7	0.7	-8.61	1.2	-14.3	10.5	9.2	1.29	8.144		
500.0	499.7	498.0	497.4	0.9	0.9	-8.17	2.7	-22.8	12.2	10.5	1.64	7.439		
600.0	599.1	597.5	596.2	1.1	1.2	-8.10	4.8	-34.7	13.9	11.9	1.99	6.977		
700.0	698.2	697.0	694.5	1.4	1.5	-8.28	7.5	-49.9	15.5	13.2	2.34	6.644		
800.0	796.6	796.4	792.1	1.7	1.8	-8.65	10.8	-68.5	17.2	14.5	2.69	6.387		
900.0	894.4	895.8	889.0	2.1	2.3	-9.15	14.7	-90.3	18.8	15.8	3.05	6.174		
1,000.0	991.5	995.1	984.9	2.6	2.8	-9.74	19.2	-115.5	20.5	17.1	3.42	5.987		
1,100.0	1,087.8	1,094.5	1,080.1	3.1	3.3	-10.16	24.2	-143.8	22.7	18.9	3.80	5.958		
1,200.0	1,184.0	1,194.5	1,175.4	3.6	3.9	-10.24	29.4	-173.3	25.6	21.4	4.19	6.107		
1,300.0	1,280.2	1,294.4	1,270.8	4.1	4.4	-10.30	34.7	-202.8	28.5	23.9	4.58	6.228		
1,400.0	1,376.5	1,394.4	1,366.2	4.6	5.0	-10.35	39.9	-232.2	31.5	26.5	4.97	6.328		
1,500.0	1,472.7	1,494.3	1,461.6	5.1	5.5	-10.39	45.1	-261.7	34.4	29.0	5.36	6.412		
1,600.0	1,569.0	1,594.3	1,556.9	5.6	6.1	-10.43	50.4	-291.1	37.3	31.6	5.76	6.484		
1,700.0	1,665.2	1,694.2	1,652.3	6.1	6.7	-10.46	55.6	-320.6	40.3	34.1	6.15	6.547		
1,800.0	1,761.4	1,794.2	1,747.7	6.6	7.2	-10.48	60.8	-350.0	43.2	36.6	6.54	6.601		
1,900.0	1,857.7	1,894.2	1,843.1	7.2	7.8	-10.50	66.1	-379.5	46.1	39.2	6.94	6.648		
2,000.0	1,953.9	1,994.1	1,938.4	7.7	8.4	-10.52	71.3	-409.0	49.0	41.7	7.33	6.690		
2,100.0	2,050.2	2,094.1	2,033.8	8.2	8.9	-10.54	76.5	-438.4	52.0	44.3	7.73	6.728		
2,200.0	2,146.4	2,194.0	2,129.2	8.7	9.5	-10.56	81.8	-467.9	54.9	46.8	8.12	6.761		
2,300.0	2,242.6	2,294.0	2,224.6	9.2	10.1	-10.57	87.0	-497.3	57.8	49.3	8.52	6.791		
2,400.0	2,338.9	2,393.9	2,319.9	9.7	10.6	-10.59	92.2	-526.8	60.8	51.9	8.91	6.819		
2,500.0	2,435.1	2,493.9	2,415.3	10.3	11.2	-10.60	97.5	-556.2	63.7	54.4	9.31	6.843		
2,600.0	2,531.4	2,593.9	2,510.7	10.8	11.8	-10.61	102.7	-585.7	66.6	56.9	9.70	6.866		
2,700.0	2,627.6	2,693.8	2,606.1	11.3	12.3	-10.62	107.9	-615.2	69.6	59.5	10.10	6.887		
2,800.0	2,723.8	2,793.8	2,701.4	11.8	12.9	-10.63	113.2	-644.6	72.5	62.0	10.50	6.906		
2,900.0	2,820.1	2,893.7	2,796.8	12.3	13.5	-10.64	118.4	-674.1	75.4	64.5	10.89	6.924		
3,000.0	2,916.3	2,993.7	2,892.2	12.9	14.1	-10.64	123.6	-703.5	78.4	67.1	11.29	6.940		
3,100.0	3,012.6	3,093.6	2,987.6	13.4	14.6	-10.65	128.8	-733.0	81.3	69.6	11.69	6.956		
3,200.0	3,108.8	3,193.6	3,082.9	13.9	15.2	-10.66	134.1	-762.4	84.2	72.1	12.08	6.970		
3,300.0	3,205.0	3,293.6	3,178.3	14.4	15.8	-10.66	139.3	-791.9	87.2	74.7	12.48	6.983		
3,400.0	3,301.3	3,393.5	3,273.7	14.9	16.3	-10.67	144.5	-821.3	90.1	77.2	12.88	6.995		
3,500.0	3,397.5	3,493.5	3,369.1	15.5	16.9	-10.67	149.8	-850.8	93.0	79.7	13.27	7.007		
3,600.0	3,493.8	3,593.4	3,464.4	16.0	17.5	-10.68	155.0	-880.3	95.9	82.3	13.67	7.018		
3,700.0	3,590.0	3,693.4	3,559.8	16.5	18.0	-10.68	160.2	-909.7	98.9	84.8	14.07	7.028		
3,800.0	3,686.2	3,793.3	3,655.2	17.0	18.6	-10.69	165.5	-939.2	101.8	87.3	14.47	7.038		
3,900.0	3,782.5	3,893.3	3,750.6	17.5	19.2	-10.69	170.7	-968.6	104.7	89.9	14.86	7.047		
4,000.0	3,878.7	3,993.3	3,845.9	18.1	19.8	-10.70	175.9	-998.1	107.7	92.4	15.26	7.056		
4,100.0	3,974.9	4,093.2	3,941.3	18.6	20.3	-10.70	181.2	-1,027.5	110.6	94.9	15.66	7.064		
4,200.0	4,071.2	4,193.2	4,036.7	19.1	20.9	-10.70	186.4	-1,057.0	113.5	97.5	16.06	7.072		
4,300.0	4,167.4	4,293.1	4,132.1	19.6	21.5	-10.71	191.6	-1,086.5	116.5	100.0	16.45	7.079		
4,400.0	4,263.7	4,393.1	4,227.4	20.1	22.0	-10.71	196.9	-1,115.9	119.4	102.6	16.85	7.086		
4,500.0	4,359.9	4,493.0	4,322.8	20.7	22.6	-10.71	202.1	-1,145.4	122.3	105.1	17.25	7.093		
4,600.0	4,456.1	4,593.0	4,418.2	21.2	23.2	-10.72	207.3	-1,174.8	125.3	107.6	17.65	7.099		
4,700.0	4,552.4	4,693.0	4,513.6	21.7	23.8	-10.72	212.5	-1,204.3	128.2	110.2	18.04	7.105		
4,800.0	4,648.6	4,792.9	4,608.9	22.2	24.3	-10.72	217.8	-1,233.7	131.1	112.7	18.44	7.111		
4,900.0	4,744.9	4,892.9	4,704.3	22.7	24.9	-10.72	223.0	-1,263.2	134.1	115.2	18.84	7.116		
5,000.0	4,841.1	4,992.8	4,799.7	23.3	25.5	-10.73	228.2	-1,292.7	137.0	117.8	19.24	7.122		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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						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	4,937.3	5,092.8	4,895.1	23.8	26.0	-10.73	233.5	-1,322.1	139.9	120.3	19.63	7.127		
5,200.0	5,033.6	5,192.7	4,990.4	24.3	26.6	-10.73	238.7	-1,351.6	142.9	122.8	20.03	7.132		
5,300.0	5,129.8	5,292.7	5,085.8	24.8	27.2	-10.73	243.9	-1,381.0	145.8	125.4	20.43	7.136		
5,400.0	5,226.1	5,394.8	5,183.4	25.3	27.8	-10.76	249.2	-1,410.8	148.4	127.6	20.84	7.123		
5,500.0	5,322.8	5,500.2	5,284.9	25.8	28.3	-10.85	254.2	-1,438.6	149.9	128.7	21.26	7.052		
5,600.0	5,420.4	5,605.7	5,387.5	26.2	28.7	-10.93	258.4	-1,462.6	151.3	129.6	21.66	6.983		
5,700.0	5,518.6	5,711.2	5,490.9	26.5	29.1	-10.99	262.0	-1,483.0	152.4	130.4	22.03	6.918		
5,800.0	5,617.5	5,816.7	5,595.1	26.8	29.4	-11.04	265.0	-1,499.5	153.3	130.9	22.37	6.854		
5,900.0	5,716.8	5,922.3	5,699.9	27.0	29.6	-11.08	267.3	-1,512.3	154.0	131.3	22.68	6.791		
6,000.0	5,816.4	6,027.9	5,805.1	27.2	29.8	-11.11	268.9	-1,521.3	154.5	131.6	22.96	6.730		
6,100.0	5,916.3	6,133.5	5,910.6	27.3	29.9	-11.12	269.8	-1,526.5	154.9	131.6	23.22	6.670		
6,200.0	6,016.3	6,238.3	6,015.3	27.4	30.0	-90.00	270.0	-1,527.9	155.0	131.5	23.46	6.604		
6,300.0	6,116.3	6,338.3	6,115.3	27.5	30.1	-90.00	270.0	-1,527.9	155.0	131.2	23.78	6.515		
6,400.0	6,216.3	6,438.3	6,215.3	27.5	30.1	-90.00	270.0	-1,527.9	155.0	130.8	24.11	6.428		
6,500.0	6,316.3	6,538.3	6,315.3	27.6	30.2	-90.00	270.0	-1,527.9	155.0	130.5	24.43	6.343		
6,553.9	6,370.2	6,592.2	6,369.2	27.6	30.2	90.33	270.0	-1,527.9	155.0	130.5	24.48	6.330		
6,600.0	6,416.3	6,638.3	6,415.3	27.7	30.3	90.41	270.0	-1,527.9	155.0	130.4	24.60	6.300		
6,700.0	6,515.1	6,738.0	6,515.0	27.7	30.3	95.18	268.3	-1,527.9	155.6	132.1	23.50	6.622		
6,800.0	6,609.8	6,840.3	6,615.8	27.7	30.3	100.74	251.4	-1,528.1	158.1	134.9	23.17	6.822		
6,900.0	6,697.5	6,945.7	6,714.7	27.6	30.3	105.84	215.6	-1,528.6	162.1	138.3	23.75	6.822		
7,000.0	6,775.6	7,054.1	6,807.9	27.6	30.3	110.26	160.5	-1,529.4	167.1	142.5	24.59	6.797		
7,100.0	6,841.8	7,165.6	6,891.2	27.6	30.3	113.84	86.6	-1,530.5	172.6	147.4	25.14	6.865		
7,200.0	6,893.9	7,279.9	6,960.0	27.7	30.4	116.53	-4.3	-1,531.8	177.9	152.7	25.19	7.061		
7,300.0	6,930.5	7,396.3	7,010.2	27.9	30.5	118.28	-109.1	-1,533.4	182.4	157.4	24.98	7.299		
7,400.0	6,950.3	7,514.4	7,038.5	28.2	30.8	119.10	-223.6	-1,535.0	185.6	160.9	24.75	7.499		
7,500.0	6,954.0	7,627.0	7,044.0	28.5	31.2	119.06	-335.9	-1,536.7	187.4	162.0	25.34	7.393		
7,600.0	6,954.0	7,727.0	7,044.0	29.0	31.7	118.85	-435.8	-1,538.1	188.6	161.4	27.19	6.938		
7,700.0	6,954.0	7,827.0	7,044.0	29.6	32.2	118.63	-535.8	-1,539.6	189.9	160.7	29.26	6.491		
7,800.0	6,954.0	7,926.9	7,044.0	30.3	32.9	118.43	-635.8	-1,541.0	191.2	159.7	31.50	6.069		
7,900.0	6,954.0	8,026.9	7,044.0	31.0	33.6	118.22	-735.8	-1,542.5	192.5	158.6	33.90	5.678		
8,000.0	6,954.0	8,126.9	7,044.0	31.9	34.4	118.02	-835.8	-1,543.9	193.7	157.3	36.41	5.321		
8,100.0	6,954.0	8,226.9	7,044.0	32.8	35.2	117.82	-935.7	-1,545.4	195.0	156.0	39.02	4.998		
8,200.0	6,954.0	8,326.9	7,044.0	33.7	36.1	117.62	-1,035.7	-1,546.8	196.3	154.6	41.72	4.706		
8,300.0	6,954.0	8,426.9	7,044.0	34.8	37.1	117.42	-1,135.7	-1,548.3	197.6	153.1	44.49	4.442		
8,400.0	6,954.0	8,526.9	7,044.0	35.9	38.2	117.23	-1,235.7	-1,549.7	198.9	151.6	47.31	4.204		
8,500.0	6,954.0	8,626.9	7,044.0	37.0	39.2	117.04	-1,335.6	-1,551.2	200.2	150.0	50.19	3.989		
8,600.0	6,954.0	8,726.9	7,044.0	38.2	40.4	116.85	-1,435.6	-1,552.7	201.5	148.4	53.11	3.794		
8,700.0	6,954.0	8,826.9	7,044.0	39.5	41.6	116.67	-1,535.6	-1,554.1	202.8	146.7	56.07	3.617		
8,800.0	6,954.0	8,926.8	7,044.0	40.7	42.8	116.48	-1,635.6	-1,555.6	204.1	145.0	59.06	3.455		
8,900.0	6,954.0	9,026.8	7,044.0	42.1	44.1	116.30	-1,735.6	-1,557.0	205.4	143.3	62.09	3.308		
9,000.0	6,954.0	9,126.8	7,044.0	43.4	45.4	116.12	-1,835.5	-1,558.5	206.7	141.6	65.14	3.173		
9,100.0	6,954.0	9,226.8	7,044.0	44.8	46.7	115.95	-1,935.5	-1,559.9	208.0	139.8	68.21	3.049		
9,200.0	6,954.0	9,326.8	7,044.0	46.2	48.0	115.77	-2,035.5	-1,561.4	209.3	138.0	71.31	2.935		
9,300.0	6,954.0	9,426.8	7,044.0	47.6	49.4	115.60	-2,135.5	-1,562.8	210.6	136.2	74.43	2.830		
9,400.0	6,954.0	9,526.8	7,044.0	49.1	50.8	115.43	-2,235.5	-1,564.3	211.9	134.4	77.56	2.732		
9,500.0	6,954.0	9,626.8	7,044.0	50.5	52.3	115.26	-2,335.4	-1,565.7	213.2	132.5	80.71	2.642		
9,600.0	6,954.0	9,726.8	7,044.0	52.0	53.7	115.10	-2,435.4	-1,567.2	214.6	130.7	83.88	2.558		
9,700.0	6,954.0	9,826.7	7,044.0	53.5	55.2	114.93	-2,535.4	-1,568.6	215.9	128.8	87.06	2.479		
9,800.0	6,954.0	9,926.7	7,044.0	55.0	56.7	114.77	-2,635.4	-1,570.1	217.2	126.9	90.26	2.406		
9,900.0	6,954.0	10,026.7	7,044.0	56.6	58.1	114.61	-2,735.3	-1,571.6	218.5	125.0	93.47	2.338		
10,000.0	6,954.0	10,126.7	7,044.0	58.1	59.7	114.46	-2,835.3	-1,573.0	219.8	123.1	96.69	2.274		
10,100.0	6,954.0	10,226.7	7,044.0	59.7	61.2	114.30	-2,935.3	-1,574.5	221.2	121.2	99.92	2.213		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,200.0	6,954.0	10,326.7	7,044.0	61.2	62.7	114.15	-3,035.3	-1,575.9	222.5	119.3	103.16	2.157		
10,300.0	6,954.0	10,426.7	7,044.0	62.8	64.3	113.99	-3,135.3	-1,577.4	223.8	117.4	106.41	2.103		
10,400.0	6,954.0	10,526.7	7,044.0	64.4	65.8	113.84	-3,235.2	-1,578.8	225.1	115.5	109.67	2.053		
10,500.0	6,954.0	10,626.7	7,044.0	66.0	67.4	113.69	-3,335.2	-1,580.3	226.5	113.5	112.94	2.005		
10,600.0	6,954.0	10,726.7	7,044.0	67.6	69.0	113.55	-3,435.2	-1,581.7	227.8	111.6	116.22	1.960		
10,700.0	6,954.0	10,826.6	7,044.0	69.2	70.6	113.40	-3,535.2	-1,583.2	229.1	109.6	119.50	1.917		
10,800.0	6,954.0	10,926.6	7,044.0	70.8	72.2	113.26	-3,635.2	-1,584.6	230.5	107.7	122.80	1.877		
10,900.0	6,954.0	11,026.6	7,044.0	72.4	73.8	113.12	-3,735.1	-1,586.1	231.8	105.7	126.10	1.838		
11,000.0	6,954.0	11,126.6	7,044.0	74.1	75.4	112.98	-3,835.1	-1,587.5	233.1	103.7	129.41	1.802		
11,100.0	6,954.0	11,226.6	7,044.0	75.7	77.0	112.84	-3,935.1	-1,589.0	234.5	101.8	132.72	1.767		
11,200.0	6,954.0	11,326.6	7,044.0	77.4	78.6	112.70	-4,035.1	-1,590.5	235.8	99.8	136.04	1.733		
11,300.0	6,954.0	11,426.6	7,044.0	79.0	80.2	112.57	-4,135.1	-1,591.9	237.2	97.8	139.37	1.702		
11,400.0	6,954.0	11,526.6	7,044.0	80.6	81.9	112.43	-4,235.0	-1,593.4	238.5	95.8	142.70	1.671		
11,500.0	6,954.0	11,626.6	7,044.0	82.3	83.5	112.30	-4,335.0	-1,594.8	239.8	93.8	146.04	1.642		
11,600.0	6,954.0	11,726.5	7,044.0	84.0	85.2	112.17	-4,435.0	-1,596.3	241.2	91.8	149.39	1.615		
11,700.0	6,954.0	11,826.5	7,044.0	85.6	86.8	112.04	-4,535.0	-1,597.7	242.5	89.8	152.74	1.588		
11,708.3	6,954.0	11,834.8	7,044.0	85.8	86.9	112.03	-4,543.2	-1,597.8	242.7	89.6	153.01	1.586 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		
0.0	0.0	0.0	0.0	0.0	0.0	92.67	-0.4	7.6	7.6					
100.0	100.0	100.0	100.0	0.1	0.1	92.67	-0.4	7.6	7.6	7.3	0.24	30.944		
200.0	200.0	200.0	200.0	0.3	0.3	92.67	-0.4	7.6	7.6	7.0	0.59	12.742 CC		
227.8	227.8	227.8	227.8	0.3	0.3	171.61	-0.4	7.6	7.6	6.9	0.69	11.046 ES		
300.0	300.0	300.0	300.0	0.5	0.5	172.00	-0.4	7.6	8.0	7.1	0.94	8.482		
400.0	399.9	400.3	400.3	0.7	0.6	173.05	0.1	5.8	9.7	8.4	1.29	7.534		
500.0	499.7	500.6	500.5	0.9	0.8	173.12	1.3	0.7	11.5	9.8	1.64	6.994		
600.0	599.1	601.1	600.5	1.1	1.1	172.60	3.3	-7.8	13.2	11.2	1.99	6.644		
700.0	698.2	701.5	700.2	1.4	1.3	171.71	6.1	-19.8	15.0	12.6	2.34	6.393		
800.0	796.6	802.1	799.5	1.7	1.6	170.55	9.7	-35.2	16.7	14.0	2.70	6.196		
900.0	894.4	902.6	898.2	2.1	2.0	169.21	14.1	-53.9	18.5	15.4	3.07	6.023		
1,000.0	991.5	1,003.0	996.0	2.6	2.4	167.99	19.3	-75.6	20.7	17.2	3.46	5.969		
1,100.0	1,087.8	1,102.9	1,093.3	3.1	2.8	168.15	24.5	-97.7	25.1	21.2	3.85	6.520		
1,200.0	1,184.0	1,202.8	1,190.6	3.6	3.2	168.36	29.7	-119.8	29.7	25.5	4.23	7.024		
1,300.0	1,280.2	1,302.7	1,287.9	4.1	3.7	168.52	34.9	-142.0	34.4	29.8	4.62	7.441		
1,400.0	1,376.5	1,402.5	1,385.1	4.6	4.1	168.64	40.1	-164.1	39.1	34.1	5.01	7.793		
1,500.0	1,472.7	1,502.4	1,482.4	5.1	4.5	168.73	45.3	-186.2	43.7	38.3	5.40	8.093		
1,600.0	1,569.0	1,602.3	1,579.7	5.6	5.0	168.81	50.5	-208.3	48.4	42.6	5.79	8.352		
1,700.0	1,665.2	1,702.2	1,677.0	6.1	5.4	168.87	55.7	-230.4	53.1	46.9	6.18	8.578		
1,800.0	1,761.4	1,802.1	1,774.2	6.6	5.8	168.93	60.9	-252.5	57.7	51.1	6.58	8.776		
1,900.0	1,857.7	1,902.0	1,871.5	7.2	6.3	168.97	66.2	-274.6	62.4	55.4	6.97	8.952		
2,000.0	1,953.9	2,001.9	1,968.8	7.7	6.7	169.01	71.4	-296.7	67.0	59.7	7.36	9.109		
2,100.0	2,050.2	2,101.8	2,066.0	8.2	7.2	169.04	76.6	-318.8	71.7	64.0	7.75	9.250		
2,200.0	2,146.4	2,201.7	2,163.3	8.7	7.6	169.07	81.8	-340.9	76.4	68.2	8.14	9.377		
2,300.0	2,242.6	2,301.6	2,260.6	9.2	8.0	169.10	87.0	-363.0	81.0	72.5	8.54	9.492		
2,400.0	2,338.9	2,401.5	2,357.9	9.7	8.5	169.12	92.2	-385.2	85.7	76.8	8.93	9.597		
2,500.0	2,435.1	2,501.3	2,455.1	10.3	8.9	169.14	97.4	-407.3	90.4	81.0	9.32	9.693		
2,600.0	2,531.4	2,601.2	2,552.4	10.8	9.3	169.16	102.6	-429.4	95.0	85.3	9.71	9.782		
2,700.0	2,627.6	2,701.1	2,649.7	11.3	9.8	169.18	107.8	-451.5	99.7	89.6	10.11	9.863		
2,800.0	2,723.8	2,801.0	2,747.0	11.8	10.2	169.19	113.1	-473.6	104.3	93.8	10.50	9.938		
2,900.0	2,820.1	2,900.9	2,844.2	12.3	10.7	169.21	118.3	-495.7	109.0	98.1	10.89	10.008		
3,000.0	2,916.3	3,000.8	2,941.5	12.9	11.1	169.22	123.5	-517.8	113.7	102.4	11.28	10.073		
3,100.0	3,012.6	3,100.7	3,038.8	13.4	11.5	169.23	128.7	-539.9	118.3	106.7	11.68	10.133		
3,200.0	3,108.8	3,200.6	3,136.1	13.9	12.0	169.24	133.9	-562.0	123.0	110.9	12.07	10.189		
3,300.0	3,205.0	3,300.5	3,233.3	14.4	12.4	169.25	139.1	-584.1	127.7	115.2	12.46	10.242		
3,400.0	3,301.3	3,400.4	3,330.6	14.9	12.9	169.26	144.3	-606.2	132.3	119.5	12.86	10.292		
3,500.0	3,397.5	3,500.3	3,427.9	15.5	13.3	169.27	149.5	-628.4	137.0	123.7	13.25	10.338		
3,600.0	3,493.8	3,600.2	3,525.2	16.0	13.8	169.28	154.7	-650.5	141.6	128.0	13.64	10.382		
3,700.0	3,590.0	3,700.0	3,622.4	16.5	14.2	169.29	160.0	-672.6	146.3	132.3	14.04	10.424		
3,800.0	3,686.2	3,799.9	3,719.7	17.0	14.6	169.29	165.2	-694.7	151.0	136.5	14.43	10.463		
3,900.0	3,782.5	3,899.8	3,817.0	17.5	15.1	169.30	170.4	-716.8	155.6	140.8	14.82	10.500		
4,000.0	3,878.7	3,999.7	3,914.3	18.1	15.5	169.31	175.6	-738.9	160.3	145.1	15.22	10.535		
4,100.0	3,974.9	4,099.6	4,011.5	18.6	16.0	169.31	180.8	-761.0	165.0	149.3	15.61	10.568		
4,200.0	4,071.2	4,199.5	4,108.8	19.1	16.4	169.32	186.0	-783.1	169.6	153.6	16.00	10.600		
4,300.0	4,167.4	4,299.4	4,206.1	19.6	16.8	169.33	191.2	-805.2	174.3	157.9	16.40	10.630		
4,400.0	4,263.7	4,399.3	4,303.4	20.1	17.3	169.33	196.4	-827.3	178.9	162.2	16.79	10.659		
4,500.0	4,359.9	4,499.2	4,400.6	20.7	17.7	169.34	201.6	-849.4	183.6	166.4	17.18	10.686		
4,600.0	4,456.1	4,599.1	4,497.9	21.2	18.2	169.34	206.9	-871.6	188.3	170.7	17.57	10.713		
4,700.0	4,552.4	4,699.0	4,595.2	21.7	18.6	169.34	212.1	-893.7	192.9	175.0	17.97	10.738		
4,800.0	4,648.6	4,798.8	4,692.5	22.2	19.0	169.35	217.3	-915.8	197.6	179.2	18.36	10.762		
4,900.0	4,744.9	4,898.7	4,789.7	22.7	19.5	169.35	222.5	-937.9	202.3	183.5	18.75	10.784		
5,000.0	4,841.1	4,998.6	4,887.0	23.3	19.9	169.36	227.7	-960.0	206.9	187.8	19.15	10.806		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		
5,100.0	4,937.3	5,098.5	4,984.3	23.8	20.4	169.36	232.9	-982.1	211.6	192.0	19.54	10.828		
5,200.0	5,033.6	5,198.4	5,081.6	24.3	20.8	169.36	238.1	-1,004.2	216.2	196.3	19.93	10.848		
5,300.0	5,129.8	5,298.3	5,178.8	24.8	21.3	169.37	243.3	-1,026.3	220.9	200.6	20.33	10.867		
5,400.0	5,226.1	5,398.2	5,276.1	25.3	21.7	169.37	248.5	-1,048.4	225.6	204.8	20.72	10.885		
5,500.0	5,322.8	5,496.3	5,371.7	25.8	22.1	169.31	253.6	-1,070.1	228.5	207.3	21.14	10.805		
5,600.0	5,420.4	5,589.0	5,462.5	26.2	22.5	169.21	258.0	-1,088.4	230.2	208.7	21.54	10.689		
5,700.0	5,518.6	5,681.8	5,553.8	26.5	22.8	169.13	261.6	-1,103.9	231.7	209.8	21.90	10.578		
5,800.0	5,617.5	5,774.4	5,645.5	26.8	23.0	169.07	264.6	-1,116.5	232.9	210.7	22.24	10.472		
5,900.0	5,716.8	5,867.1	5,737.6	27.0	23.2	169.02	266.9	-1,126.2	233.8	211.3	22.55	10.370		
6,000.0	5,816.4	5,959.7	5,830.0	27.2	23.4	168.98	268.5	-1,133.0	234.5	211.7	22.83	10.272		
6,100.0	5,916.3	6,052.3	5,922.5	27.3	23.5	168.96	269.4	-1,136.9	234.9	211.8	23.08	10.178		
6,200.0	6,016.3	6,146.1	6,016.3	27.4	23.6	90.09	269.6	-1,137.9	235.0	211.6	23.32	10.077		
6,300.0	6,116.3	6,246.1	6,116.3	27.5	23.6	90.09	269.6	-1,137.9	235.0	211.3	23.64	9.940		
6,400.0	6,216.3	6,346.1	6,216.3	27.5	23.7	90.09	269.6	-1,137.9	235.0	211.0	23.96	9.806		
6,500.0	6,316.3	6,446.1	6,316.3	27.6	23.8	90.09	269.6	-1,137.9	235.0	210.7	24.28	9.676		
6,557.7	6,374.0	6,503.8	6,374.0	27.6	23.8	-90.16	269.6	-1,137.9	235.0	210.4	24.54	9.574		
6,600.0	6,416.3	6,546.1	6,416.3	27.7	23.9	-90.18	269.6	-1,137.9	235.0	210.3	24.67	9.522		
6,700.0	6,515.1	6,644.9	6,515.1	27.7	24.0	-93.68	269.6	-1,137.9	235.5	209.4	26.04	9.042		
6,800.0	6,609.8	6,740.3	6,610.5	27.7	24.0	-100.51	269.6	-1,137.9	239.7	211.1	28.52	8.404		
6,900.0	6,697.5	6,844.8	6,714.3	27.6	24.1	-108.62	258.5	-1,137.9	250.0	219.3	30.72	8.141		
7,000.0	6,775.6	6,958.5	6,822.8	27.6	24.1	-115.96	225.4	-1,137.9	264.9	233.8	31.12	8.513		
7,100.0	6,841.8	7,083.0	6,931.6	27.6	24.0	-122.24	165.4	-1,137.9	282.1	252.5	29.65	9.514		
7,200.0	6,893.9	7,219.6	7,033.0	27.7	24.0	-127.27	74.3	-1,137.9	299.0	272.0	26.97	11.085		
7,300.0	6,930.5	7,368.2	7,115.4	27.9	24.1	-130.87	-48.8	-1,137.9	312.7	288.3	24.46	12.785		
7,400.0	6,950.3	7,526.2	7,165.3	28.2	24.5	-132.87	-198.3	-1,137.9	321.0	297.0	23.95	13.402		
7,500.0	6,954.0	7,666.8	7,175.0	28.5	25.1	-133.25	-338.2	-1,137.9	322.6	296.8	25.77	12.518		
7,600.0	6,954.0	7,766.8	7,175.0	29.0	25.7	-133.25	-438.2	-1,137.9	322.6	295.4	27.14	11.885		
7,700.0	6,954.0	7,866.8	7,175.0	29.6	26.4	-133.25	-538.2	-1,137.9	322.6	293.9	28.68	11.249		
7,800.0	6,954.0	7,966.8	7,175.0	30.3	27.1	-133.25	-638.2	-1,137.9	322.6	292.2	30.35	10.629		
7,900.0	6,954.0	8,066.8	7,175.0	31.0	28.0	-133.25	-738.2	-1,137.9	322.6	290.4	32.14	10.036		
8,000.0	6,954.0	8,166.8	7,175.0	31.9	28.9	-133.25	-838.2	-1,137.9	322.6	288.5	34.03	9.478		
8,100.0	6,954.0	8,266.8	7,175.0	32.8	29.9	-133.25	-938.2	-1,137.9	322.6	286.6	36.01	8.958		
8,200.0	6,954.0	8,366.8	7,175.0	33.7	31.0	-133.24	-1,038.2	-1,137.9	322.6	284.5	38.06	8.476		
8,300.0	6,954.0	8,466.8	7,175.0	34.8	32.1	-133.24	-1,138.2	-1,137.9	322.6	282.4	40.17	8.031		
8,400.0	6,954.0	8,566.8	7,175.0	35.9	33.3	-133.24	-1,238.2	-1,137.9	322.6	280.3	42.32	7.622		
8,500.0	6,954.0	8,666.8	7,175.0	37.0	34.6	-133.24	-1,338.2	-1,137.9	322.6	278.0	44.53	7.245		
8,600.0	6,954.0	8,766.8	7,175.0	38.2	35.9	-133.24	-1,438.2	-1,137.9	322.6	275.8	46.77	6.898		
8,700.0	6,954.0	8,866.8	7,175.0	39.5	37.2	-133.24	-1,538.2	-1,137.9	322.6	273.5	49.04	6.578		
8,800.0	6,954.0	8,966.8	7,175.0	40.7	38.6	-133.24	-1,638.2	-1,137.9	322.6	271.2	51.34	6.283		
8,900.0	6,954.0	9,066.8	7,175.0	42.1	40.0	-133.24	-1,738.2	-1,137.9	322.6	268.9	53.66	6.011		
9,000.0	6,954.0	9,166.8	7,175.0	43.4	41.4	-133.24	-1,838.2	-1,137.9	322.6	266.6	56.01	5.759		
9,100.0	6,954.0	9,266.8	7,175.0	44.8	42.8	-133.24	-1,938.2	-1,137.9	322.6	264.2	58.37	5.526		
9,200.0	6,954.0	9,366.8	7,175.0	46.2	44.3	-133.24	-2,038.2	-1,137.9	322.6	261.8	60.76	5.309		
9,300.0	6,954.0	9,466.8	7,175.0	47.6	45.8	-133.24	-2,138.2	-1,137.9	322.6	259.4	63.15	5.108		
9,400.0	6,954.0	9,566.8	7,175.0	49.1	47.3	-133.24	-2,238.2	-1,137.9	322.6	257.0	65.56	4.920		
9,500.0	6,954.0	9,666.8	7,175.0	50.5	48.8	-133.24	-2,338.2	-1,137.9	322.6	254.6	67.98	4.745		
9,600.0	6,954.0	9,766.8	7,175.0	52.0	50.4	-133.24	-2,438.2	-1,137.9	322.6	252.2	70.42	4.581		
9,700.0	6,954.0	9,866.8	7,175.0	53.5	51.9	-133.24	-2,538.2	-1,137.9	322.6	249.7	72.86	4.428		
9,800.0	6,954.0	9,966.8	7,175.0	55.0	53.5	-133.24	-2,638.2	-1,137.9	322.6	247.3	75.31	4.284		
9,900.0	6,954.0	10,066.8	7,175.0	56.6	55.1	-133.24	-2,738.2	-1,137.9	322.6	244.8	77.76	4.148		
10,000.0	6,954.0	10,166.8	7,175.0	58.1	56.6	-133.24	-2,838.2	-1,137.9	322.6	242.4	80.23	4.021		
10,100.0	6,954.0	10,266.8	7,175.0	59.7	58.2	-133.24	-2,938.2	-1,137.9	322.6	239.9	82.70	3.901		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		
10,200.0	6,954.0	10,366.8	7,175.0	61.2	59.9	-133.24	-3,038.2	-1,137.9	322.6	237.4	85.18	3.787		
10,300.0	6,954.0	10,466.8	7,175.0	62.8	61.5	-133.24	-3,138.2	-1,137.9	322.6	234.9	87.66	3.680		
10,400.0	6,954.0	10,566.8	7,175.0	64.4	63.1	-133.24	-3,238.2	-1,137.9	322.6	232.4	90.15	3.579		
10,500.0	6,954.0	10,666.8	7,175.0	66.0	64.7	-133.24	-3,338.2	-1,137.9	322.6	230.0	92.64	3.482		
10,600.0	6,954.0	10,766.8	7,175.0	67.6	66.4	-133.24	-3,438.2	-1,137.9	322.6	227.5	95.13	3.391		
10,700.0	6,954.0	10,866.8	7,175.0	69.2	68.0	-133.24	-3,538.2	-1,137.9	322.6	225.0	97.63	3.304		
10,800.0	6,954.0	10,966.8	7,175.0	70.8	69.6	-133.24	-3,638.2	-1,137.9	322.6	222.5	100.14	3.222		
10,900.0	6,954.0	11,066.8	7,175.0	72.4	71.3	-133.24	-3,738.2	-1,137.9	322.6	220.0	102.64	3.143		
11,000.0	6,954.0	11,166.8	7,175.0	74.1	73.0	-133.24	-3,838.2	-1,137.9	322.6	217.4	105.15	3.068		
11,100.0	6,954.0	11,266.8	7,175.0	75.7	74.6	-133.24	-3,938.2	-1,137.9	322.6	214.9	107.67	2.996		
11,200.0	6,954.0	11,366.8	7,175.0	77.4	76.3	-133.24	-4,038.2	-1,137.9	322.6	212.4	110.18	2.928		
11,300.0	6,954.0	11,466.8	7,175.0	79.0	77.9	-133.24	-4,138.2	-1,137.9	322.6	209.9	112.70	2.863		
11,400.0	6,954.0	11,566.8	7,175.0	80.6	79.6	-133.24	-4,238.2	-1,137.9	322.6	207.4	115.22	2.800		
11,500.0	6,954.0	11,666.8	7,175.0	82.3	81.3	-133.24	-4,338.2	-1,137.9	322.6	204.9	117.74	2.740		
11,600.0	6,954.0	11,766.8	7,175.0	84.0	83.0	-133.24	-4,438.2	-1,137.9	322.6	202.3	120.26	2.682		
11,700.0	6,954.0	11,866.8	7,175.0	85.6	84.7	-133.24	-4,538.2	-1,137.9	322.6	199.8	122.79	2.627		
11,708.3	6,954.0	11,875.0	7,175.0	85.8	84.8	-133.24	-4,546.5	-1,137.9	322.6	199.6	123.00	2.623 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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 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	91.38	-0.4	15.1	15.1					
100.0	100.0	100.0	100.0	0.1	0.1	91.38	-0.4	15.1	15.1	14.9	0.24	61.839		
200.0	200.0	200.0	200.0	0.3	0.3	91.38	-0.4	15.1	15.1	14.5	0.59	25.463 CC		
227.8	227.8	227.8	227.8	0.3	0.3	170.30	-0.4	15.1	15.2	14.5	0.69	21.980 ES		
300.0	300.0	300.0	300.0	0.5	0.5	170.53	-0.4	15.1	15.5	14.6	0.94	16.490		
400.0	399.9	400.3	400.2	0.7	0.6	171.96	-0.2	14.7	18.6	17.3	1.29	14.378		
500.0	499.7	500.9	500.8	0.9	0.8	172.44	0.7	11.3	22.1	20.4	1.64	13.447		
600.0	599.1	601.6	601.3	1.1	1.0	172.11	2.7	4.5	25.6	23.6	1.99	12.851		
700.0	698.2	702.5	701.6	1.4	1.3	171.27	5.6	-5.7	29.1	26.8	2.34	12.427		
800.0	796.6	803.5	801.6	1.7	1.5	170.07	9.5	-19.3	32.7	30.0	2.71	12.093		
900.0	894.4	904.4	901.0	2.1	1.9	168.65	14.4	-36.3	36.4	33.3	3.08	11.808		
1,000.0	991.5	1,004.3	999.0	2.6	2.2	167.98	19.6	-54.3	42.2	38.7	3.46	12.196		
1,100.0	1,087.8	1,103.9	1,096.9	3.1	2.6	168.17	24.8	-72.2	50.8	47.0	3.84	13.221		
1,200.0	1,184.0	1,203.5	1,194.7	3.6	2.9	168.36	30.0	-90.2	59.6	55.4	4.23	14.101		
1,300.0	1,280.2	1,303.1	1,292.6	4.1	3.3	168.50	35.1	-108.2	68.5	63.8	4.62	14.830		
1,400.0	1,376.5	1,402.7	1,390.4	4.6	3.7	168.61	40.3	-126.1	77.3	72.3	5.00	15.444		
1,500.0	1,472.7	1,502.3	1,488.3	5.1	4.0	168.70	45.5	-144.1	86.1	80.7	5.39	15.969		
1,600.0	1,569.0	1,601.9	1,586.1	5.6	4.4	168.77	50.6	-162.1	95.0	89.2	5.78	16.421		
1,700.0	1,665.2	1,701.6	1,683.9	6.1	4.8	168.83	55.8	-180.0	103.8	97.6	6.17	16.815		
1,800.0	1,761.4	1,801.2	1,781.8	6.6	5.1	168.88	61.0	-198.0	112.6	106.1	6.56	17.162		
1,900.0	1,857.7	1,900.8	1,879.6	7.2	5.5	168.93	66.2	-216.0	121.5	114.5	6.95	17.469		
2,000.0	1,953.9	2,000.4	1,977.5	7.7	5.9	168.96	71.3	-233.9	130.3	123.0	7.34	17.743		
2,100.0	2,050.2	2,100.0	2,075.3	8.2	6.2	169.00	76.5	-251.9	139.1	131.4	7.73	17.989		
2,200.0	2,146.4	2,199.6	2,173.1	8.7	6.6	169.02	81.7	-269.9	148.0	139.8	8.13	18.210		
2,300.0	2,242.6	2,299.2	2,271.0	9.2	7.0	169.05	86.8	-287.8	156.8	148.3	8.52	18.412		
2,400.0	2,338.9	2,398.8	2,368.8	9.7	7.3	169.07	92.0	-305.8	165.6	156.7	8.91	18.595		
2,500.0	2,435.1	2,498.4	2,466.6	10.3	7.7	169.09	97.2	-323.8	174.5	165.2	9.30	18.763		
2,600.0	2,531.4	2,598.0	2,564.5	10.8	8.1	169.11	102.4	-341.7	183.3	173.6	9.69	18.917		
2,700.0	2,627.6	2,697.6	2,662.3	11.3	8.5	169.13	107.5	-359.7	192.1	182.1	10.08	19.059		
2,800.0	2,723.8	2,797.2	2,760.2	11.8	8.8	169.14	112.7	-377.7	201.0	190.5	10.47	19.190		
2,900.0	2,820.1	2,896.9	2,858.0	12.3	9.2	169.16	117.9	-395.6	209.8	199.0	10.87	19.311		
3,000.0	2,916.3	2,996.5	2,955.8	12.9	9.6	169.17	123.0	-413.6	218.7	207.4	11.26	19.424		
3,100.0	3,012.6	3,096.1	3,053.7	13.4	10.0	169.18	128.2	-431.6	227.5	215.8	11.65	19.530		
3,200.0	3,108.8	3,195.7	3,151.5	13.9	10.3	169.19	133.4	-449.5	236.3	224.3	12.04	19.628		
3,300.0	3,205.0	3,295.3	3,249.4	14.4	10.7	169.20	138.6	-467.5	245.2	232.7	12.43	19.720		
3,400.0	3,301.3	3,394.9	3,347.2	14.9	11.1	169.21	143.7	-485.5	254.0	241.2	12.82	19.807		
3,500.0	3,397.5	3,494.5	3,445.0	15.5	11.4	169.22	148.9	-503.4	262.8	249.6	13.22	19.888		
3,600.0	3,493.8	3,594.1	3,542.9	16.0	11.8	169.23	154.1	-521.4	271.7	258.1	13.61	19.964		
3,700.0	3,590.0	3,693.7	3,640.7	16.5	12.2	169.24	159.3	-539.4	280.5	266.5	14.00	20.037		
3,800.0	3,686.2	3,793.3	3,738.5	17.0	12.6	169.24	164.4	-557.3	289.3	274.9	14.39	20.105		
3,900.0	3,782.5	3,892.9	3,836.4	17.5	12.9	169.25	169.6	-575.3	298.2	283.4	14.78	20.170		
4,000.0	3,878.7	3,992.6	3,934.2	18.1	13.3	169.26	174.8	-593.3	307.0	291.8	15.18	20.231		
4,100.0	3,974.9	4,092.2	4,032.1	18.6	13.7	169.26	179.9	-611.2	315.8	300.3	15.57	20.289		
4,200.0	4,071.2	4,191.8	4,129.9	19.1	14.1	169.27	185.1	-629.2	324.7	308.7	15.96	20.344		
4,300.0	4,167.4	4,291.4	4,227.7	19.6	14.4	169.27	190.3	-647.2	333.5	317.2	16.35	20.397		
4,400.0	4,263.7	4,391.0	4,325.6	20.1	14.8	169.28	195.5	-665.1	342.3	325.6	16.74	20.447		
4,500.0	4,359.9	4,490.6	4,423.4	20.7	15.2	169.28	200.6	-683.1	351.2	334.0	17.14	20.495		
4,600.0	4,456.1	4,590.2	4,521.3	21.2	15.6	169.29	205.8	-701.1	360.0	342.5	17.53	20.540		
4,700.0	4,552.4	4,689.8	4,619.1	21.7	15.9	169.29	211.0	-719.0	368.9	350.9	17.92	20.584		
4,800.0	4,648.6	4,789.4	4,716.9	22.2	16.3	169.30	216.1	-737.0	377.7	359.4	18.31	20.626		
4,900.0	4,744.9	4,889.0	4,814.8	22.7	16.7	169.30	221.3	-755.0	386.5	367.8	18.70	20.666		
5,000.0	4,841.1	4,988.6	4,912.6	23.3	17.1	169.30	226.5	-772.9	395.4	376.3	19.10	20.704		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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: 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	4,937.3	5,088.3	5,010.4	23.8	17.4	169.31	231.7	-790.9	404.2	384.7	19.49	20.741		
5,200.0	5,033.6	5,187.9	5,108.3	24.3	17.8	169.31	236.8	-808.9	413.0	393.2	19.88	20.776		
5,300.0	5,129.8	5,287.5	5,206.1	24.8	18.2	169.32	242.0	-826.8	421.9	401.6	20.27	20.810		
5,400.0	5,226.1	5,387.1	5,304.0	25.3	18.5	169.32	247.2	-844.8	430.7	410.0	20.67	20.841		
5,500.0	5,322.8	5,486.8	5,401.9	25.8	18.9	169.30	252.4	-862.8	437.7	416.6	21.08	20.759		
5,600.0	5,420.4	5,581.8	5,495.2	26.2	19.3	169.20	257.2	-879.7	441.4	419.9	21.50	20.536		
5,700.0	5,518.6	5,668.8	5,581.1	26.5	19.5	169.11	261.1	-893.2	444.1	422.3	21.86	20.314		
5,800.0	5,617.5	5,755.8	5,667.3	26.8	19.8	169.04	264.3	-904.2	446.4	424.1	22.20	20.104		
5,900.0	5,716.8	5,842.7	5,753.8	27.0	19.9	168.99	266.7	-912.6	448.1	425.5	22.51	19.904		
6,000.0	5,816.4	5,929.6	5,840.5	27.2	20.1	168.95	268.4	-918.5	449.2	426.5	22.79	19.713		
6,100.0	5,916.3	6,016.5	5,927.3	27.3	20.2	168.93	269.4	-921.9	449.9	426.9	23.04	19.530		
6,200.0	6,016.3	6,105.5	6,016.3	27.4	20.3	90.05	269.6	-922.8	450.1	426.8	23.28	19.337		
6,300.0	6,116.3	6,205.5	6,116.3	27.5	20.4	90.05	269.6	-922.8	450.1	426.5	23.60	19.074		
6,400.0	6,216.3	6,305.5	6,216.3	27.5	20.5	90.05	269.6	-922.8	450.1	426.2	23.92	18.818		
6,500.0	6,316.3	6,405.5	6,316.3	27.6	20.6	90.05	269.6	-922.8	450.1	425.9	24.24	18.568		
6,557.9	6,374.2	6,463.4	6,374.2	27.6	20.6	-90.09	269.6	-922.8	450.1	425.6	24.46	18.403		
6,600.0	6,416.3	6,505.5	6,416.3	27.7	20.7	-90.09	269.6	-922.8	450.1	425.5	24.59	18.305		
6,700.0	6,515.1	6,605.4	6,516.1	27.7	20.7	-91.74	267.9	-922.8	450.3	425.1	25.24	17.841		
6,800.0	6,609.8	6,708.0	6,617.2	27.7	20.8	-93.71	250.9	-922.8	451.1	425.4	25.71	17.545		
6,900.0	6,697.5	6,813.8	6,716.5	27.6	20.7	-95.58	214.9	-922.8	452.3	426.5	25.83	17.512		
7,000.0	6,775.6	6,922.6	6,809.9	27.6	20.7	-97.30	159.4	-922.8	453.8	428.2	25.64	17.703		
7,100.0	6,841.8	7,034.4	6,893.3	27.6	20.7	-98.79	85.1	-922.8	455.5	430.2	25.32	17.989		
7,200.0	6,893.9	7,149.0	6,962.0	27.7	20.8	-99.99	-6.3	-922.8	457.1	431.9	25.21	18.130		
7,300.0	6,930.5	7,265.7	7,012.0	27.9	21.0	-100.86	-111.6	-922.8	458.3	432.6	25.70	17.836		
7,400.0	6,950.3	7,383.9	7,039.8	28.2	21.4	-101.34	-226.2	-922.8	459.1	432.0	27.05	16.973		
7,500.0	6,954.0	7,496.1	7,045.0	28.5	22.0	-101.43	-338.2	-922.8	459.2	430.2	29.01	15.832		
7,600.0	6,954.0	7,596.1	7,045.0	29.0	22.6	-101.43	-438.2	-922.8	459.2	428.3	30.93	14.849		
7,700.0	6,954.0	7,696.1	7,045.0	29.6	23.4	-101.43	-538.2	-922.8	459.2	426.1	33.09	13.877		
7,800.0	6,954.0	7,796.1	7,045.0	30.3	24.3	-101.43	-638.2	-922.8	459.2	423.8	35.46	12.950		
7,900.0	6,954.0	7,896.1	7,045.0	31.0	25.2	-101.43	-738.2	-922.8	459.2	421.2	37.99	12.087		
8,000.0	6,954.0	7,996.1	7,045.0	31.9	26.3	-101.43	-838.2	-922.8	459.2	418.6	40.66	11.295		
8,100.0	6,954.0	8,096.1	7,045.0	32.8	27.4	-101.43	-938.2	-922.8	459.2	415.8	43.43	10.574		
8,200.0	6,954.0	8,196.1	7,045.0	33.7	28.6	-101.43	-1,038.2	-922.8	459.2	412.9	46.30	9.920		
8,300.0	6,954.0	8,296.1	7,045.0	34.8	29.8	-101.43	-1,138.2	-922.8	459.2	410.0	49.23	9.328		
8,400.0	6,954.0	8,396.1	7,045.0	35.9	31.1	-101.43	-1,238.2	-922.8	459.2	407.0	52.23	8.792		
8,500.0	6,954.0	8,496.1	7,045.0	37.0	32.4	-101.43	-1,338.2	-922.8	459.2	404.0	55.28	8.307		
8,600.0	6,954.0	8,596.1	7,045.0	38.2	33.8	-101.43	-1,438.2	-922.8	459.2	400.9	58.38	7.867		
8,700.0	6,954.0	8,696.1	7,045.0	39.5	35.2	-101.43	-1,538.2	-922.8	459.2	397.7	61.51	7.467		
8,800.0	6,954.0	8,796.1	7,045.0	40.7	36.7	-101.43	-1,638.2	-922.8	459.2	394.6	64.67	7.102		
8,900.0	6,954.0	8,896.1	7,045.0	42.1	38.1	-101.43	-1,738.2	-922.8	459.2	391.4	67.86	6.768		
9,000.0	6,954.0	8,996.1	7,045.0	43.4	39.6	-101.43	-1,838.2	-922.8	459.2	388.2	71.07	6.462		
9,100.0	6,954.0	9,096.1	7,045.0	44.8	41.1	-101.43	-1,938.2	-922.8	459.2	384.9	74.30	6.181		
9,200.0	6,954.0	9,196.1	7,045.0	46.2	42.7	-101.43	-2,038.2	-922.8	459.2	381.7	77.55	5.922		
9,300.0	6,954.0	9,296.1	7,045.0	47.6	44.2	-101.43	-2,138.2	-922.8	459.2	378.4	80.82	5.683		
9,400.0	6,954.0	9,396.1	7,045.0	49.1	45.8	-101.43	-2,238.2	-922.8	459.3	375.2	84.10	5.461		
9,500.0	6,954.0	9,496.1	7,045.0	50.5	47.3	-101.43	-2,338.2	-922.8	459.3	371.9	87.39	5.255		
9,600.0	6,954.0	9,596.1	7,045.0	52.0	48.9	-101.43	-2,438.2	-922.8	459.3	368.6	90.69	5.064		
9,700.0	6,954.0	9,696.1	7,045.0	53.5	50.5	-101.43	-2,538.2	-922.8	459.3	365.3	94.00	4.885		
9,800.0	6,954.0	9,796.1	7,045.0	55.0	52.1	-101.43	-2,638.2	-922.8	459.3	361.9	97.33	4.719		
9,900.0	6,954.0	9,896.1	7,045.0	56.6	53.8	-101.43	-2,738.2	-922.8	459.3	358.6	100.65	4.563		
10,000.0	6,954.0	9,996.1	7,045.0	58.1	55.4	-101.43	-2,838.2	-922.8	459.3	355.3	103.99	4.416		
10,100.0	6,954.0	10,096.1	7,045.0	59.7	57.0	-101.43	-2,938.2	-922.8	459.3	351.9	107.33	4.279		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		
10,200.0	6,954.0	10,196.1	7,045.0	61.2	58.6	-101.43	-3,038.2	-922.8	459.3	348.6	110.68	4.149		
10,300.0	6,954.0	10,296.1	7,045.0	62.8	60.3	-101.43	-3,138.2	-922.8	459.3	345.2	114.04	4.027		
10,400.0	6,954.0	10,396.1	7,045.0	64.4	61.9	-101.43	-3,238.2	-922.8	459.3	341.9	117.40	3.912		
10,500.0	6,954.0	10,496.1	7,045.0	66.0	63.6	-101.43	-3,338.2	-922.8	459.3	338.5	120.76	3.803		
10,600.0	6,954.0	10,596.1	7,045.0	67.6	65.3	-101.43	-3,438.2	-922.8	459.3	335.1	124.13	3.700		
10,700.0	6,954.0	10,696.1	7,045.0	69.2	66.9	-101.43	-3,538.2	-922.8	459.3	331.8	127.50	3.602		
10,800.0	6,954.0	10,796.1	7,045.0	70.8	68.6	-101.43	-3,638.2	-922.8	459.3	328.4	130.88	3.509		
10,900.0	6,954.0	10,896.1	7,045.0	72.4	70.3	-101.43	-3,738.2	-922.8	459.3	325.0	134.25	3.421		
11,000.0	6,954.0	10,996.1	7,045.0	74.1	72.0	-101.43	-3,838.2	-922.8	459.3	321.6	137.64	3.337		
11,100.0	6,954.0	11,096.1	7,045.0	75.7	73.6	-101.43	-3,938.2	-922.7	459.3	318.3	141.02	3.257		
11,200.0	6,954.0	11,196.1	7,045.0	77.4	75.3	-101.43	-4,038.2	-922.7	459.3	314.9	144.41	3.180		
11,300.0	6,954.0	11,296.1	7,045.0	79.0	77.0	-101.43	-4,138.2	-922.7	459.3	311.5	147.80	3.108		
11,400.0	6,954.0	11,396.1	7,045.0	80.6	78.7	-101.43	-4,238.2	-922.7	459.3	308.1	151.19	3.038		
11,500.0	6,954.0	11,496.1	7,045.0	82.3	80.4	-101.43	-4,338.2	-922.7	459.3	304.7	154.58	2.971		
11,600.0	6,954.0	11,596.1	7,045.0	84.0	82.1	-101.43	-4,438.2	-922.7	459.3	301.3	157.98	2.907		
11,700.0	6,954.0	11,696.1	7,045.0	85.6	83.8	-101.43	-4,538.2	-922.7	459.3	297.9	161.38	2.846		
11,708.3	6,954.0	11,704.4	7,045.0	85.8	83.9	-101.43	-4,546.5	-922.7	459.3	297.6	161.66	2.841 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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	90.95	-0.4	22.7	22.7					
100.0	100.0	100.0	100.0	0.1	0.1	90.95	-0.4	22.7	22.7	22.4	0.24	92.745		
200.0	200.0	200.0	200.0	0.3	0.3	90.95	-0.4	22.7	22.7	22.1	0.59	38.189 CC		
227.8	227.8	227.8	227.8	0.3	0.3	169.86	-0.4	22.7	22.7	22.0	0.69	32.917 ES		
300.0	300.0	300.0	300.0	0.5	0.5	170.02	-0.4	22.7	23.1	22.1	0.94	24.503		
400.0	399.9	399.9	399.9	0.7	0.6	171.31	-0.4	22.7	26.5	25.2	1.29	20.560		
500.0	499.7	500.2	500.2	0.9	0.8	172.68	-0.1	21.8	32.6	31.0	1.64	19.902		
600.0	599.1	600.5	600.5	1.1	1.0	173.48	0.9	19.4	40.5	38.5	1.99	20.388		
700.0	698.2	700.8	700.7	1.4	1.2	173.90	2.4	15.3	50.1	47.8	2.33	21.502		
800.0	796.6	801.1	800.8	1.7	1.4	174.08	4.5	9.5	61.6	58.9	2.68	22.997		
900.0	894.4	901.4	900.7	2.1	1.6	174.11	7.3	2.1	74.8	71.7	3.02	24.740		
1,000.0	991.5	1,001.6	1,000.5	2.6	1.8	174.06	10.7	-6.9	89.7	86.4	3.37	26.650		
1,100.0	1,087.8	1,102.0	1,100.2	3.1	2.1	173.94	14.7	-17.6	105.8	102.1	3.72	28.417		
1,200.0	1,184.0	1,202.8	1,200.2	3.6	2.3	173.65	19.3	-29.9	120.4	116.3	4.09	29.440		
1,300.0	1,280.2	1,304.1	1,300.4	4.1	2.6	173.21	24.6	-44.0	133.4	128.9	4.47	29.868		
1,400.0	1,376.5	1,404.2	1,399.1	4.6	2.9	172.70	30.3	-59.2	145.1	140.2	4.85	29.933		
1,500.0	1,472.7	1,503.5	1,497.1	5.1	3.2	172.26	36.0	-74.3	156.7	151.4	5.23	29.959		
1,600.0	1,569.0	1,602.8	1,595.1	5.6	3.5	171.88	41.6	-89.5	168.3	162.6	5.61	29.967		
1,700.0	1,665.2	1,702.2	1,693.1	6.1	3.9	171.55	47.3	-104.6	179.9	173.9	6.00	29.961		
1,800.0	1,761.4	1,801.5	1,791.1	6.6	4.2	171.26	53.0	-119.8	191.5	185.1	6.39	29.946		
1,900.0	1,857.7	1,900.8	1,889.1	7.2	4.5	171.01	58.7	-134.9	203.1	196.3	6.79	29.924		
2,000.0	1,953.9	2,000.1	1,987.1	7.7	4.8	170.78	64.4	-150.1	214.7	207.5	7.18	29.897		
2,100.0	2,050.2	2,099.4	2,085.1	8.2	5.2	170.57	70.0	-165.2	226.3	218.8	7.58	29.868		
2,200.0	2,146.4	2,198.8	2,183.1	8.7	5.5	170.38	75.7	-180.4	238.0	230.0	7.98	29.836		
2,300.0	2,242.6	2,298.1	2,281.1	9.2	5.8	170.22	81.4	-195.5	249.6	241.2	8.37	29.803		
2,400.0	2,338.9	2,397.4	2,379.1	9.7	6.1	170.06	87.1	-210.7	261.2	252.4	8.77	29.770		
2,500.0	2,435.1	2,496.7	2,477.1	10.3	6.5	169.92	92.7	-225.8	272.8	263.7	9.18	29.736		
2,600.0	2,531.4	2,596.0	2,575.1	10.8	6.8	169.79	98.4	-241.0	284.5	274.9	9.58	29.703		
2,700.0	2,627.6	2,695.4	2,673.0	11.3	7.1	169.67	104.1	-256.1	296.1	286.1	9.98	29.670		
2,800.0	2,723.8	2,794.7	2,771.0	11.8	7.4	169.56	109.8	-271.3	307.7	297.3	10.38	29.638		
2,900.0	2,820.1	2,894.0	2,869.0	12.3	7.8	169.46	115.4	-286.4	319.4	308.6	10.79	29.607		
3,000.0	2,916.3	2,993.3	2,967.0	12.9	8.1	169.37	121.1	-301.6	331.0	319.8	11.19	29.576		
3,100.0	3,012.6	3,092.6	3,065.0	13.4	8.4	169.28	126.8	-316.7	342.6	331.0	11.60	29.547		
3,200.0	3,108.8	3,192.0	3,163.0	13.9	8.8	169.20	132.5	-331.9	354.3	342.3	12.00	29.518		
3,300.0	3,205.0	3,291.3	3,261.0	14.4	9.1	169.12	138.2	-347.0	365.9	353.5	12.41	29.490		
3,400.0	3,301.3	3,390.6	3,359.0	14.9	9.4	169.05	143.8	-362.2	377.5	364.7	12.81	29.463		
3,500.0	3,397.5	3,489.9	3,457.0	15.5	9.8	168.98	149.5	-377.3	389.2	376.0	13.22	29.437		
3,600.0	3,493.8	3,589.2	3,555.0	16.0	10.1	168.92	155.2	-392.5	400.8	387.2	13.63	29.412		
3,700.0	3,590.0	3,688.6	3,653.0	16.5	10.4	168.85	160.9	-407.6	412.5	398.4	14.04	29.387		
3,800.0	3,686.2	3,787.9	3,751.0	17.0	10.8	168.80	166.5	-422.8	424.1	409.7	14.44	29.364		
3,900.0	3,782.5	3,887.2	3,849.0	17.5	11.1	168.74	172.2	-437.9	435.7	420.9	14.85	29.341		
4,000.0	3,878.7	3,986.5	3,947.0	18.1	11.4	168.69	177.9	-453.1	447.4	432.1	15.26	29.319		
4,100.0	3,974.9	4,085.8	4,044.9	18.6	11.8	168.64	183.6	-468.2	459.0	443.3	15.67	29.298		
4,200.0	4,071.2	4,185.2	4,142.9	19.1	12.1	168.60	189.3	-483.4	470.7	454.6	16.08	29.277		
4,300.0	4,167.4	4,284.5	4,240.9	19.6	12.4	168.55	194.9	-498.5	482.3	465.8	16.48	29.257		
4,400.0	4,263.7	4,383.8	4,338.9	20.1	12.8	168.51	200.6	-513.7	493.9	477.0	16.89	29.238		
4,500.0	4,359.9	4,483.1	4,436.9	20.7	13.1	168.47	206.3	-528.8	505.6	488.3	17.30	29.220		
4,600.0	4,456.1	4,582.4	4,534.9	21.2	13.4	168.43	212.0	-544.0	517.2	499.5	17.71	29.202		
4,700.0	4,552.4	4,681.8	4,632.9	21.7	13.8	168.40	217.6	-559.1	528.9	510.7	18.12	29.184		
4,800.0	4,648.6	4,781.1	4,730.9	22.2	14.1	168.36	223.3	-574.3	540.5	522.0	18.53	29.167		
4,900.0	4,744.9	4,880.4	4,828.9	22.7	14.4	168.33	229.0	-589.4	552.1	533.2	18.94	29.151		
5,000.0	4,841.1	4,979.7	4,926.9	23.3	14.8	168.30	234.7	-604.6	563.8	544.4	19.35	29.135		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		
5,100.0	4,937.3	5,079.0	5,024.9	23.8	15.1	168.26	240.3	-619.7	575.4	555.7	19.76	29.120		
5,200.0	5,033.6	5,173.4	5,118.0	24.3	15.4	168.24	245.7	-633.9	587.3	567.2	20.16	29.138		
5,300.0	5,129.8	5,263.8	5,207.4	24.8	15.7	168.27	250.3	-646.3	600.5	580.0	20.53	29.256		
5,400.0	5,226.1	5,353.7	5,296.6	25.3	15.9	168.35	254.4	-657.3	615.2	594.3	20.88	29.464		
5,500.0	5,322.8	5,443.6	5,385.9	25.8	16.1	168.49	258.0	-666.9	629.5	608.2	21.24	29.641		
5,600.0	5,420.4	5,533.5	5,475.3	26.2	16.3	168.61	261.2	-675.3	641.8	620.2	21.58	29.748		
5,700.0	5,518.6	5,623.4	5,565.0	26.5	16.5	168.70	263.8	-682.4	652.2	630.3	21.90	29.786		
5,800.0	5,617.5	5,713.4	5,654.7	26.8	16.7	168.78	266.0	-688.1	660.7	638.5	22.20	29.761		
5,900.0	5,716.8	5,800.0	5,741.2	27.0	16.8	168.84	267.6	-692.4	667.2	644.7	22.48	29.681		
6,000.0	5,816.4	5,893.5	5,834.6	27.2	17.0	168.88	268.8	-695.6	671.8	649.0	22.75	29.527		
6,100.0	5,916.3	5,983.5	5,924.6	27.3	17.1	168.90	269.4	-697.4	674.4	651.4	23.00	29.323		
6,200.0	6,016.3	6,075.2	6,016.3	27.4	17.2	90.03	269.6	-697.8	675.1	651.8	23.24	29.042		
6,300.0	6,116.3	6,175.2	6,116.3	27.5	17.3	90.03	269.6	-697.8	675.1	651.5	23.57	28.647		
6,400.0	6,216.3	6,275.2	6,216.3	27.5	17.4	90.03	269.6	-697.8	675.1	651.2	23.89	28.261		
6,500.0	6,316.3	6,375.2	6,316.3	27.6	17.5	90.03	269.6	-697.8	675.1	650.9	24.21	27.885		
6,542.9	6,359.3	6,418.1	6,359.3	27.6	17.6	-90.02	269.6	-697.8	675.1	650.7	24.35	27.719		
6,600.0	6,416.3	6,475.2	6,416.3	27.7	17.6	-89.97	268.5	-697.8	675.1	650.6	24.50	27.556		
6,700.0	6,515.1	6,575.1	6,515.0	27.7	17.6	-89.97	253.7	-697.8	675.1	650.5	24.58	27.463		
6,800.0	6,609.8	6,675.1	6,609.6	27.7	17.6	-89.97	222.1	-697.8	675.1	650.6	24.50	27.550		
6,900.0	6,697.5	6,775.0	6,697.3	27.6	17.6	-89.97	174.4	-697.8	675.1	650.7	24.36	27.707		
7,000.0	6,775.6	6,875.0	6,775.5	27.6	17.5	-89.98	112.3	-697.8	675.1	650.8	24.29	27.793		
7,100.0	6,841.8	6,974.9	6,841.6	27.6	17.6	-89.98	37.5	-697.8	675.1	650.6	24.42	27.645		
7,200.0	6,893.9	7,074.9	6,893.8	27.7	17.7	-89.99	-47.6	-697.8	675.1	650.2	24.88	27.132		
7,300.0	6,930.5	7,174.8	6,930.4	27.9	18.0	-89.99	-140.5	-697.8	675.1	649.3	25.75	26.211		
7,400.0	6,950.3	7,274.8	6,950.3	28.2	18.5	-90.00	-238.4	-697.8	675.1	648.0	27.06	24.948		
7,500.0	6,954.0	7,374.8	6,954.0	28.5	19.1	-90.00	-338.2	-697.8	675.1	646.3	28.75	23.485		
7,600.0	6,954.0	7,474.8	6,954.0	29.0	19.8	-90.00	-438.2	-697.8	675.1	644.3	30.75	21.956		
7,700.0	6,954.0	7,574.8	6,954.0	29.6	20.7	-90.00	-538.2	-697.8	675.1	642.1	32.99	20.462		
7,800.0	6,954.0	7,674.8	6,954.0	30.3	21.7	-90.00	-638.2	-697.8	675.1	639.6	35.44	19.046		
7,900.0	6,954.0	7,774.8	6,954.0	31.0	22.8	-90.00	-738.2	-697.8	675.1	637.0	38.06	17.736		
8,000.0	6,954.0	7,874.8	6,954.0	31.9	23.9	-90.00	-838.2	-697.8	675.1	634.3	40.81	16.541		
8,100.0	6,954.0	7,974.8	6,954.0	32.8	25.2	-90.00	-938.2	-697.8	675.1	631.4	43.67	15.457		
8,200.0	6,954.0	8,074.8	6,954.0	33.7	26.4	-90.00	-1,038.2	-697.8	675.1	628.5	46.62	14.480		
8,300.0	6,954.0	8,174.8	6,954.0	34.8	27.8	-90.00	-1,138.2	-697.8	675.1	625.4	49.64	13.598		
8,400.0	6,954.0	8,274.8	6,954.0	35.9	29.2	-90.00	-1,238.2	-697.8	675.1	622.4	52.73	12.803		
8,500.0	6,954.0	8,374.8	6,954.0	37.0	30.6	-90.00	-1,338.2	-697.8	675.1	619.2	55.86	12.085		
8,600.0	6,954.0	8,474.8	6,954.0	38.2	32.0	-90.00	-1,438.2	-697.8	675.1	616.0	59.03	11.436		
8,700.0	6,954.0	8,574.8	6,954.0	39.5	33.5	-90.00	-1,538.2	-697.8	675.1	612.8	62.24	10.846		
8,800.0	6,954.0	8,674.8	6,954.0	40.7	35.0	-90.00	-1,638.2	-697.8	675.1	609.6	65.49	10.309		
8,900.0	6,954.0	8,774.8	6,954.0	42.1	36.6	-90.00	-1,738.2	-697.8	675.1	606.3	68.75	9.819		
9,000.0	6,954.0	8,874.8	6,954.0	43.4	38.1	-90.00	-1,838.2	-697.8	675.1	603.0	72.04	9.371		
9,100.0	6,954.0	8,974.8	6,954.0	44.8	39.7	-90.00	-1,938.2	-697.8	675.1	599.7	75.35	8.959		
9,200.0	6,954.0	9,074.8	6,954.0	46.2	41.3	-90.00	-2,038.2	-697.8	675.1	596.4	78.68	8.580		
9,300.0	6,954.0	9,174.8	6,954.0	47.6	42.9	-90.00	-2,138.2	-697.8	675.1	593.1	82.02	8.231		
9,400.0	6,954.0	9,274.8	6,954.0	49.1	44.5	-90.00	-2,238.2	-697.8	675.1	589.7	85.38	7.907		
9,500.0	6,954.0	9,374.8	6,954.0	50.5	46.1	-90.00	-2,338.2	-697.8	675.1	586.4	88.74	7.607		
9,600.0	6,954.0	9,474.8	6,954.0	52.0	47.7	-90.00	-2,438.2	-697.8	675.1	583.0	92.12	7.328		
9,700.0	6,954.0	9,574.8	6,954.0	53.5	49.4	-90.00	-2,538.2	-697.8	675.1	579.6	95.51	7.068		
9,800.0	6,954.0	9,674.8	6,954.0	55.0	51.0	-90.00	-2,638.2	-697.8	675.1	576.2	98.90	6.826		
9,900.0	6,954.0	9,774.8	6,954.0	56.6	52.6	-90.00	-2,738.2	-697.8	675.1	572.8	102.31	6.599		
10,000.0	6,954.0	9,874.8	6,954.0	58.1	54.3	-90.00	-2,838.2	-697.8	675.1	569.4	105.72	6.386		
10,100.0	6,954.0	9,974.8	6,954.0	59.7	56.0	-90.00	-2,938.2	-697.8	675.1	566.0	109.13	6.186		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		
10,200.0	6,954.0	10,074.8	6,954.0	61.2	57.6	-90.00	-3,038.2	-697.8	675.1	562.6	112.56	5.998		
10,300.0	6,954.0	10,174.8	6,954.0	62.8	59.3	-90.00	-3,138.2	-697.8	675.1	559.1	115.98	5.821		
10,400.0	6,954.0	10,274.8	6,954.0	64.4	61.0	-90.00	-3,238.2	-697.8	675.1	555.7	119.41	5.654		
10,500.0	6,954.0	10,374.8	6,954.0	66.0	62.7	-90.00	-3,338.2	-697.8	675.1	552.3	122.85	5.495		
10,600.0	6,954.0	10,474.8	6,954.0	67.6	64.4	-90.00	-3,438.2	-697.8	675.1	548.8	126.29	5.346		
10,700.0	6,954.0	10,574.8	6,954.0	69.2	66.0	-90.00	-3,538.2	-697.8	675.1	545.4	129.73	5.204		
10,800.0	6,954.0	10,674.8	6,954.0	70.8	67.7	-90.00	-3,638.2	-697.8	675.1	541.9	133.18	5.069		
10,900.0	6,954.0	10,774.8	6,954.0	72.4	69.4	-90.00	-3,738.2	-697.8	675.1	538.5	136.63	4.941		
11,000.0	6,954.0	10,874.8	6,954.0	74.1	71.1	-90.00	-3,838.2	-697.8	675.1	535.0	140.08	4.819		
11,100.0	6,954.0	10,974.8	6,954.0	75.7	72.8	-90.00	-3,938.2	-697.8	675.1	531.6	143.54	4.703		
11,200.0	6,954.0	11,074.8	6,954.0	77.4	74.5	-90.00	-4,038.2	-697.8	675.1	528.1	147.00	4.593		
11,300.0	6,954.0	11,174.8	6,954.0	79.0	76.2	-90.00	-4,138.2	-697.8	675.1	524.7	150.46	4.487		
11,400.0	6,954.0	11,274.8	6,954.0	80.6	78.0	-90.00	-4,238.2	-697.8	675.1	521.2	153.92	4.386		
11,500.0	6,954.0	11,374.8	6,954.0	82.3	79.7	-90.00	-4,338.2	-697.8	675.1	517.7	157.39	4.290		
11,600.0	6,954.0	11,474.8	6,954.0	84.0	81.4	-90.00	-4,438.2	-697.8	675.1	514.3	160.85	4.197		
11,700.0	6,954.0	11,574.8	6,954.0	85.6	83.1	-90.00	-4,538.2	-697.8	675.1	510.8	164.32	4.109		
11,708.3	6,954.0	11,583.1	6,954.0	85.8	83.2	-90.00	-4,546.5	-697.8	675.1	510.5	164.61	4.101 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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: 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	90.75	-0.4	29.9	29.9					
100.0	100.0	101.0	101.0	0.1	0.1	90.75	-0.4	29.9	29.9	29.7	0.25	121.639		
200.0	200.0	201.0	201.0	0.3	0.3	90.75	-0.4	29.9	29.9	29.3	0.60	50.297 CC		
227.8	227.8	228.8	228.8	0.3	0.3	169.64	-0.4	29.9	30.0	29.3	0.69	43.341 ES		
300.0	300.0	301.0	301.0	0.5	0.5	169.77	-0.4	29.9	30.4	29.4	0.94	32.160		
400.0	399.9	400.9	400.9	0.7	0.6	170.81	-0.4	29.9	33.8	32.5	1.29	26.155		
500.0	499.7	501.0	501.0	0.9	0.8	172.23	-0.3	29.7	40.5	38.9	1.64	24.696		
600.0	599.1	601.3	601.3	1.1	1.0	172.99	0.6	28.2	49.3	47.3	1.99	24.796		
700.0	698.2	701.6	701.6	1.4	1.2	173.22	2.2	25.1	59.9	57.6	2.33	25.669		
800.0	796.6	801.9	801.7	1.7	1.4	173.14	4.7	20.4	72.4	69.7	2.68	27.005		
900.0	894.4	902.1	901.7	2.1	1.6	172.87	8.0	14.2	86.7	83.7	3.03	28.631		
1,000.0	991.5	1,002.3	1,001.5	2.6	1.8	172.51	12.2	6.5	102.9	99.5	3.38	30.441		
1,100.0	1,087.8	1,102.6	1,101.2	3.1	2.0	172.09	17.2	-2.8	120.3	116.5	3.75	32.101		
1,200.0	1,184.0	1,201.5	1,199.4	3.6	2.3	171.61	22.6	-12.9	136.9	132.8	4.12	33.208		
1,300.0	1,280.2	1,300.1	1,297.3	4.1	2.5	171.24	28.0	-23.0	153.5	149.0	4.50	34.105		
1,400.0	1,376.5	1,398.7	1,395.3	4.6	2.7	170.94	33.4	-33.0	170.2	165.3	4.88	34.845		
1,500.0	1,472.7	1,497.3	1,493.2	5.1	3.0	170.69	38.8	-43.1	186.8	181.5	5.27	35.464		
1,600.0	1,569.0	1,595.9	1,591.1	5.6	3.2	170.49	44.3	-53.2	203.5	197.8	5.65	35.988		
1,700.0	1,665.2	1,694.5	1,689.1	6.1	3.5	170.31	49.7	-63.3	220.1	214.1	6.04	36.436		
1,800.0	1,761.4	1,793.1	1,787.0	6.6	3.8	170.16	55.1	-73.4	236.7	230.3	6.43	36.823		
1,900.0	1,857.7	1,891.7	1,884.9	7.2	4.0	170.03	60.5	-83.5	253.4	246.6	6.82	37.161		
2,000.0	1,953.9	1,990.3	1,982.9	7.7	4.3	169.91	65.9	-93.6	270.0	262.8	7.21	37.458		
2,100.0	2,050.2	2,088.9	2,080.8	8.2	4.5	169.81	71.3	-103.6	286.7	279.1	7.60	37.720		
2,200.0	2,146.4	2,187.5	2,178.7	8.7	4.8	169.72	76.8	-113.7	303.3	295.4	7.99	37.954		
2,300.0	2,242.6	2,286.1	2,276.7	9.2	5.0	169.64	82.2	-123.8	320.0	311.6	8.38	38.164		
2,400.0	2,338.9	2,384.7	2,374.6	9.7	5.3	169.57	87.6	-133.9	336.6	327.9	8.78	38.353		
2,500.0	2,435.1	2,483.3	2,472.5	10.3	5.6	169.50	93.0	-144.0	353.3	344.1	9.17	38.524		
2,600.0	2,531.4	2,581.9	2,570.5	10.8	5.8	169.44	98.4	-154.1	370.0	360.4	9.56	38.679		
2,700.0	2,627.6	2,680.5	2,668.4	11.3	6.1	169.39	103.8	-164.2	386.6	376.7	9.96	38.821		
2,800.0	2,723.8	2,779.1	2,766.4	11.8	6.4	169.34	109.2	-174.2	403.3	392.9	10.35	38.950		
2,900.0	2,820.1	2,877.7	2,864.3	12.3	6.6	169.29	114.7	-184.3	419.9	409.2	10.75	39.070		
3,000.0	2,916.3	2,976.3	2,962.2	12.9	6.9	169.25	120.1	-194.4	436.6	425.4	11.14	39.180		
3,100.0	3,012.6	3,074.9	3,060.2	13.4	7.1	169.21	125.5	-204.5	453.2	441.7	11.54	39.282		
3,200.0	3,108.8	3,173.5	3,158.1	13.9	7.4	169.17	130.9	-214.6	469.9	457.9	11.93	39.376		
3,300.0	3,205.0	3,272.1	3,256.0	14.4	7.7	169.14	136.3	-224.7	486.5	474.2	12.33	39.464		
3,400.0	3,301.3	3,370.7	3,354.0	14.9	7.9	169.11	141.7	-234.7	503.2	490.5	12.72	39.546		
3,500.0	3,397.5	3,469.3	3,451.9	15.5	8.2	169.08	147.2	-244.8	519.8	506.7	13.12	39.622		
3,600.0	3,493.8	3,567.9	3,549.8	16.0	8.4	169.05	152.6	-254.9	536.5	523.0	13.52	39.694		
3,700.0	3,590.0	3,666.5	3,647.8	16.5	8.7	169.02	158.0	-265.0	553.2	539.2	13.91	39.761		
3,800.0	3,686.2	3,765.1	3,745.7	17.0	9.0	169.00	163.4	-275.1	569.8	555.5	14.31	39.824		
3,900.0	3,782.5	3,863.7	3,843.7	17.5	9.2	168.97	168.8	-285.2	586.5	571.8	14.70	39.884		
4,000.0	3,878.7	3,962.3	3,941.6	18.1	9.5	168.95	174.2	-295.3	603.1	588.0	15.10	39.940		
4,100.0	3,974.9	4,060.9	4,039.5	18.6	9.8	168.93	179.7	-305.3	619.8	604.3	15.50	39.993		
4,200.0	4,071.2	4,159.5	4,137.5	19.1	10.0	168.91	185.1	-315.4	636.4	620.5	15.89	40.043		
4,300.0	4,167.4	4,258.1	4,235.4	19.6	10.3	168.89	190.5	-325.5	653.1	636.8	16.29	40.091		
4,400.0	4,263.7	4,356.7	4,333.3	20.1	10.6	168.87	195.9	-335.6	669.8	653.1	16.69	40.136		
4,500.0	4,359.9	4,455.4	4,431.3	20.7	10.8	168.85	201.3	-345.7	686.4	669.3	17.08	40.179		
4,600.0	4,456.1	4,554.0	4,529.2	21.2	11.1	168.84	206.7	-355.8	703.1	685.6	17.48	40.219		
4,700.0	4,552.4	4,652.6	4,627.1	21.7	11.3	168.82	212.1	-365.9	719.7	701.8	17.88	40.258		
4,800.0	4,648.6	4,751.2	4,725.1	22.2	11.6	168.81	217.6	-375.9	736.4	718.1	18.27	40.295		
4,900.0	4,744.9	4,849.8	4,823.0	22.7	11.9	168.79	223.0	-386.0	753.0	734.4	18.67	40.331		
5,000.0	4,841.1	4,948.4	4,921.0	23.3	12.1	168.78	228.4	-396.1	769.7	750.6	19.07	40.365		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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	4,937.3	5,047.0	5,018.9	23.8	12.4	168.77	233.8	-406.2	786.4	766.9	19.47	40.397		
5,200.0	5,033.6	5,145.6	5,116.8	24.3	12.7	168.76	239.2	-416.3	803.0	783.1	19.86	40.428		
5,300.0	5,129.8	5,244.2	5,214.8	24.8	12.9	168.74	244.6	-426.4	819.7	799.4	20.26	40.457		
5,400.0	5,226.1	5,342.8	5,312.7	25.3	13.2	168.73	250.1	-436.5	836.3	815.7	20.66	40.483		
5,500.0	5,322.8	5,432.8	5,402.1	25.8	13.4	168.77	254.8	-445.3	851.5	830.5	21.06	40.431		
5,600.0	5,420.4	5,520.4	5,489.3	26.2	13.6	168.81	258.8	-452.8	864.7	843.2	21.44	40.336		
5,700.0	5,518.6	5,608.0	5,576.7	26.5	13.8	168.84	262.2	-459.1	875.7	853.9	21.79	40.193		
5,800.0	5,617.5	5,700.0	5,668.5	26.8	14.0	168.86	265.1	-464.4	884.7	862.6	22.12	39.990		
5,900.0	5,716.8	5,783.5	5,751.8	27.0	14.1	168.88	267.1	-468.1	891.6	869.2	22.42	39.770		
6,000.0	5,816.4	5,871.3	5,839.6	27.2	14.3	168.89	268.5	-470.9	896.5	873.8	22.70	39.492		
6,100.0	5,916.3	5,959.1	5,927.4	27.3	14.4	168.90	269.4	-472.5	899.3	876.3	22.96	39.171		
6,200.0	6,016.3	6,049.1	6,017.3	27.4	14.5	90.02	269.6	-472.9	900.0	876.8	23.21	38.778		
6,300.0	6,116.3	6,149.1	6,117.3	27.5	14.6	90.02	269.6	-472.9	900.0	876.5	23.53	38.250		
6,400.0	6,216.3	6,249.1	6,217.3	27.5	14.8	90.02	269.6	-472.9	900.0	876.2	23.85	37.735		
6,500.0	6,316.3	6,349.1	6,317.3	27.6	14.9	90.02	269.6	-472.9	900.0	875.9	24.17	37.232		
6,558.2	6,374.6	6,407.3	6,375.6	27.6	15.0	-90.04	269.6	-472.9	900.0	875.7	24.37	36.935		
6,600.0	6,416.3	6,449.0	6,417.3	27.7	15.0	-90.04	269.6	-472.9	900.0	875.5	24.50	36.740		
6,700.0	6,515.1	6,547.8	6,516.1	27.7	15.2	-90.96	269.6	-472.9	900.2	875.3	24.90	36.145		
6,800.0	6,609.8	6,643.2	6,611.5	27.7	15.3	-92.77	269.5	-472.9	901.3	875.9	25.38	35.514		
6,900.0	6,697.5	6,747.7	6,715.3	27.6	15.3	-95.03	258.5	-472.9	904.1	878.4	25.68	35.201		
7,000.0	6,775.6	6,861.4	6,823.8	27.6	15.3	-97.24	225.4	-472.9	908.3	882.7	25.66	35.396		
7,100.0	6,841.8	6,985.9	6,932.6	27.6	15.2	-99.35	165.4	-472.9	913.5	888.1	25.41	35.956		
7,200.0	6,893.9	7,122.5	7,033.9	27.7	15.2	-101.23	74.3	-472.9	918.8	893.6	25.19	36.472		
7,300.0	6,930.5	7,271.0	7,116.4	27.9	15.5	-102.73	-48.8	-472.9	923.4	897.9	25.51	36.203		
7,400.0	6,950.3	7,429.1	7,166.3	28.2	16.1	-103.62	-198.3	-472.9	926.2	899.4	26.84	34.506		
7,500.0	6,954.0	7,569.7	7,176.0	28.5	17.0	-103.80	-338.2	-472.9	926.8	897.8	28.95	32.013		
7,600.0	6,954.0	7,669.7	7,176.0	29.0	17.9	-103.80	-438.2	-472.9	926.8	895.9	30.85	30.040		
7,700.0	6,954.0	7,769.7	7,176.0	29.6	18.9	-103.80	-538.2	-472.9	926.8	893.8	32.99	28.094		
7,800.0	6,954.0	7,869.7	7,176.0	30.3	19.9	-103.80	-638.2	-472.9	926.8	891.5	35.33	26.235		
7,900.0	6,954.0	7,969.7	7,176.0	31.0	21.1	-103.80	-738.2	-472.9	926.8	889.0	37.83	24.501		
8,000.0	6,954.0	8,069.7	7,176.0	31.9	22.4	-103.80	-838.2	-472.9	926.8	886.3	40.46	22.906		
8,100.0	6,954.0	8,169.7	7,176.0	32.8	23.7	-103.80	-938.2	-472.9	926.8	883.6	43.20	21.452		
8,200.0	6,954.0	8,269.7	7,176.0	33.7	25.1	-103.80	-1,038.2	-472.9	926.8	880.7	46.03	20.133		
8,300.0	6,954.0	8,369.7	7,176.0	34.8	26.5	-103.80	-1,138.2	-472.9	926.8	877.8	48.94	18.938		
8,400.0	6,954.0	8,469.7	7,176.0	35.9	27.9	-103.80	-1,238.2	-472.9	926.8	874.9	51.91	17.855		
8,500.0	6,954.0	8,569.7	7,176.0	37.0	29.4	-103.80	-1,338.2	-472.9	926.8	871.9	54.92	16.874		
8,600.0	6,954.0	8,669.7	7,176.0	38.2	30.9	-103.80	-1,438.2	-472.9	926.8	868.8	57.98	15.984		
8,700.0	6,954.0	8,769.7	7,176.0	39.5	32.5	-103.80	-1,538.2	-472.9	926.8	865.7	61.08	15.173		
8,800.0	6,954.0	8,869.7	7,176.0	40.7	34.0	-103.80	-1,638.2	-472.9	926.8	862.6	64.21	14.433		
8,900.0	6,954.0	8,969.7	7,176.0	42.1	35.6	-103.80	-1,738.2	-472.9	926.8	859.4	67.37	13.757		
9,000.0	6,954.0	9,069.7	7,176.0	43.4	37.2	-103.80	-1,838.2	-472.9	926.8	856.2	70.55	13.137		
9,100.0	6,954.0	9,169.7	7,176.0	44.8	38.8	-103.80	-1,938.2	-472.9	926.8	853.0	73.75	12.567		
9,200.0	6,954.0	9,269.7	7,176.0	46.2	40.4	-103.80	-2,038.2	-472.9	926.8	849.8	76.97	12.042		
9,300.0	6,954.0	9,369.7	7,176.0	47.6	42.0	-103.80	-2,138.2	-472.9	926.8	846.6	80.20	11.556		
9,400.0	6,954.0	9,469.7	7,176.0	49.1	43.7	-103.80	-2,238.2	-472.9	926.8	843.3	83.45	11.106		
9,500.0	6,954.0	9,569.7	7,176.0	50.5	45.3	-103.80	-2,338.2	-472.9	926.8	840.1	86.71	10.689		
9,600.0	6,954.0	9,669.7	7,176.0	52.0	47.0	-103.80	-2,438.2	-472.9	926.8	836.8	89.98	10.300		
9,700.0	6,954.0	9,769.7	7,176.0	53.5	48.6	-103.80	-2,538.2	-472.9	926.8	833.5	93.26	9.938		
9,800.0	6,954.0	9,869.7	7,176.0	55.0	50.3	-103.80	-2,638.2	-472.9	926.8	830.2	96.55	9.599		
9,900.0	6,954.0	9,969.7	7,176.0	56.6	52.0	-103.80	-2,738.2	-472.9	926.8	827.0	99.85	9.282		
10,000.0	6,954.0	10,069.7	7,176.0	58.1	53.7	-103.80	-2,838.2	-472.9	926.8	823.6	103.15	8.985		
10,100.0	6,954.0	10,169.7	7,176.0	59.7	55.3	-103.80	-2,938.2	-472.9	926.8	820.3	106.46	8.705		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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	6,954.0	10,269.7	7,176.0	61.2	57.0	-103.80	-3,038.2	-472.9	926.8	817.0	109.78	8.442		
10,300.0	6,954.0	10,369.7	7,176.0	62.8	58.7	-103.80	-3,138.2	-472.9	926.8	813.7	113.10	8.194		
10,400.0	6,954.0	10,469.7	7,176.0	64.4	60.4	-103.80	-3,238.2	-472.8	926.8	810.4	116.43	7.960		
10,500.0	6,954.0	10,569.7	7,176.0	66.0	62.1	-103.80	-3,338.2	-472.8	926.8	807.0	119.76	7.739		
10,600.0	6,954.0	10,669.7	7,176.0	67.6	63.8	-103.80	-3,438.2	-472.8	926.8	803.7	123.10	7.529		
10,700.0	6,954.0	10,769.7	7,176.0	69.2	65.5	-103.80	-3,538.2	-472.8	926.8	800.4	126.44	7.330		
10,800.0	6,954.0	10,869.7	7,176.0	70.8	67.2	-103.80	-3,638.2	-472.8	926.8	797.0	129.78	7.141		
10,900.0	6,954.0	10,969.7	7,176.0	72.4	68.9	-103.80	-3,738.2	-472.8	926.8	793.7	133.13	6.962		
11,000.0	6,954.0	11,069.7	7,176.0	74.1	70.7	-103.80	-3,838.2	-472.8	926.8	790.3	136.48	6.791		
11,100.0	6,954.0	11,169.7	7,176.0	75.7	72.4	-103.80	-3,938.2	-472.8	926.8	787.0	139.83	6.628		
11,200.0	6,954.0	11,269.7	7,176.0	77.4	74.1	-103.80	-4,038.2	-472.8	926.8	783.6	143.19	6.473		
11,300.0	6,954.0	11,369.7	7,176.0	79.0	75.8	-103.80	-4,138.2	-472.8	926.8	780.3	146.54	6.324		
11,400.0	6,954.0	11,469.7	7,176.0	80.6	77.5	-103.80	-4,238.2	-472.8	926.8	776.9	149.90	6.183		
11,500.0	6,954.0	11,569.7	7,176.0	82.3	79.2	-103.80	-4,338.2	-472.8	926.8	773.5	153.27	6.047		
11,600.0	6,954.0	11,669.7	7,176.0	84.0	81.0	-103.80	-4,438.2	-472.8	926.8	770.2	156.63	5.917		
11,700.0	6,954.0	11,769.7	7,176.0	85.6	82.7	-103.80	-4,538.2	-472.8	926.8	766.8	160.00	5.793		
11,708.3	6,954.0	11,777.9	7,176.0	85.8	82.8	-103.80	-4,546.5	-472.8	926.8	766.5	160.27	5.783 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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 2G-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	90.61	-0.4	37.5	37.5					
100.0	100.0	101.0	101.0	0.1	0.1	90.61	-0.4	37.5	37.5	37.2	0.25	152.329		
200.0	200.0	201.0	201.0	0.3	0.3	90.61	-0.4	37.5	37.5	36.9	0.60	62.987 CC		
227.8	227.8	228.8	228.8	0.3	0.3	169.51	-0.4	37.5	37.6	36.9	0.69	54.253 ES		
300.0	300.0	301.0	301.0	0.5	0.5	169.61	-0.4	37.5	37.9	37.0	0.94	40.159		
400.0	399.9	400.9	400.9	0.7	0.6	170.47	-0.4	37.5	41.4	40.1	1.29	31.996		
500.0	499.7	500.7	500.7	0.9	0.8	171.82	-0.4	37.5	48.2	46.6	1.64	29.428		
600.0	599.1	600.9	600.9	1.1	1.0	172.70	0.2	36.8	57.9	55.9	1.99	29.167 SF		
700.0	698.2	701.1	701.0	1.4	1.2	172.75	2.0	34.9	69.7	67.4	2.33	29.887		
800.0	796.6	801.1	801.0	1.7	1.4	172.31	5.0	31.7	83.6	80.9	2.68	31.180		
900.0	894.4	901.1	900.7	2.1	1.6	171.60	9.2	27.3	99.6	96.6	3.03	32.819		
1,000.0	991.5	1,000.0	999.3	2.6	1.7	170.87	14.4	21.8	117.9	114.5	3.39	34.757		
1,100.0	1,087.8	1,097.7	1,096.8	3.1	1.9	170.50	19.6	16.3	138.8	135.1	3.76	36.927		
1,200.0	1,184.0	1,195.5	1,194.3	3.6	2.2	170.27	24.8	10.8	160.0	155.9	4.14	38.688		
1,300.0	1,280.2	1,293.2	1,291.7	4.1	2.4	170.09	30.0	5.3	181.2	176.7	4.51	40.136		
1,400.0	1,376.5	1,390.9	1,389.1	4.6	2.6	169.95	35.2	-0.2	202.4	197.5	4.90	41.344		
1,500.0	1,472.7	1,488.7	1,486.6	5.1	2.8	169.83	40.4	-5.7	223.6	218.3	5.28	42.367		
1,600.0	1,569.0	1,586.4	1,584.0	5.6	3.0	169.74	45.6	-11.2	244.8	239.1	5.66	43.244		
1,700.0	1,665.2	1,684.1	1,681.4	6.1	3.2	169.66	50.8	-16.7	265.9	259.9	6.04	44.002		
1,800.0	1,761.4	1,781.8	1,778.9	6.6	3.4	169.59	56.0	-22.2	287.1	280.7	6.43	44.665		
1,900.0	1,857.7	1,879.6	1,876.3	7.2	3.6	169.53	61.2	-27.7	308.3	301.5	6.81	45.248		
2,000.0	1,953.9	1,977.3	1,973.7	7.7	3.8	169.48	66.4	-33.2	329.5	322.3	7.20	45.766		
2,100.0	2,050.2	2,075.0	2,071.2	8.2	4.0	169.44	71.6	-38.7	350.7	343.1	7.59	46.228		
2,200.0	2,146.4	2,172.8	2,168.6	8.7	4.3	169.40	76.8	-44.2	371.9	363.9	7.97	46.643		
2,300.0	2,242.6	2,270.5	2,266.1	9.2	4.5	169.36	82.0	-49.7	393.1	384.7	8.36	47.018		
2,400.0	2,338.9	2,368.2	2,363.5	9.7	4.7	169.33	87.3	-55.2	414.3	405.5	8.75	47.358		
2,500.0	2,435.1	2,465.9	2,460.9	10.3	4.9	169.30	92.5	-60.7	435.4	426.3	9.13	47.668		
2,600.0	2,531.4	2,563.7	2,558.4	10.8	5.1	169.27	97.7	-66.2	456.6	447.1	9.52	47.952		
2,700.0	2,627.6	2,661.4	2,655.8	11.3	5.3	169.25	102.9	-71.7	477.8	467.9	9.91	48.212		
2,800.0	2,723.8	2,759.1	2,753.2	11.8	5.5	169.23	108.1	-77.2	499.0	488.7	10.30	48.452		
2,900.0	2,820.1	2,856.9	2,850.7	12.3	5.8	169.21	113.3	-82.7	520.2	509.5	10.69	48.674		
3,000.0	2,916.3	2,954.6	2,948.1	12.9	6.0	169.19	118.5	-88.2	541.4	530.3	11.08	48.879		
3,100.0	3,012.6	3,052.3	3,045.5	13.4	6.2	169.17	123.7	-93.7	562.6	551.1	11.46	49.071		
3,200.0	3,108.8	3,150.1	3,143.0	13.9	6.4	169.16	128.9	-99.2	583.8	571.9	11.85	49.249		
3,300.0	3,205.0	3,247.8	3,240.4	14.4	6.6	169.14	134.1	-104.7	604.9	592.7	12.24	49.415		
3,400.0	3,301.3	3,345.5	3,337.8	14.9	6.8	169.13	139.3	-110.2	626.1	613.5	12.63	49.571		
3,500.0	3,397.5	3,443.2	3,435.3	15.5	7.0	169.12	144.5	-115.7	647.3	634.3	13.02	49.717		
3,600.0	3,493.8	3,541.0	3,532.7	16.0	7.3	169.10	149.7	-121.2	668.5	655.1	13.41	49.854		
3,700.0	3,590.0	3,638.7	3,630.2	16.5	7.5	169.09	154.9	-126.7	689.7	675.9	13.80	49.983		
3,800.0	3,686.2	3,736.4	3,727.6	17.0	7.7	169.08	160.1	-132.2	710.9	696.7	14.19	50.105		
3,900.0	3,782.5	3,834.2	3,825.0	17.5	7.9	169.07	165.3	-137.7	732.1	717.5	14.58	50.221		
4,000.0	3,878.7	3,931.9	3,922.5	18.1	8.1	169.06	170.5	-143.2	753.3	738.3	14.97	50.330		
4,100.0	3,974.9	4,029.6	4,019.9	18.6	8.3	169.05	175.7	-148.7	774.4	759.1	15.36	50.433		
4,200.0	4,071.2	4,127.3	4,117.3	19.1	8.5	169.05	180.9	-154.2	795.6	779.9	15.75	50.531		
4,300.0	4,167.4	4,225.1	4,214.8	19.6	8.8	169.04	186.1	-159.7	816.8	800.7	16.13	50.625		
4,400.0	4,263.7	4,322.8	4,312.2	20.1	9.0	169.03	191.3	-165.2	838.0	821.5	16.52	50.713		
4,500.0	4,359.9	4,420.5	4,409.6	20.7	9.2	169.02	196.5	-170.7	859.2	842.3	16.91	50.798		
4,600.0	4,456.1	4,518.3	4,507.1	21.2	9.4	169.02	201.7	-176.2	880.4	863.1	17.30	50.878		
4,700.0	4,552.4	4,616.0	4,604.5	21.7	9.6	169.01	206.9	-181.7	901.6	883.9	17.69	50.955		
4,800.0	4,648.6	4,713.7	4,701.9	22.2	9.8	169.00	212.1	-187.2	922.8	904.7	18.08	51.029		
4,900.0	4,744.9	4,811.5	4,799.4	22.7	10.1	169.00	217.3	-192.7	944.0	925.5	18.47	51.099		
5,000.0	4,841.1	4,909.2	4,896.8	23.3	10.3	168.99	222.6	-198.2	965.1	946.3	18.86	51.167		

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 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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 2G-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 Axis	Separation Factor							
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
5,100.0	4,937.3	5,006.9	4,994.3	23.8	10.5	168.99	227.8	-203.7	986.3	967.1	19.25	51.231						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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			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	90.91	-0.7	45.0	45.0					
100.0	100.0	101.0	101.0	0.1	0.1	90.91	-0.7	45.0	45.0	44.8	0.25	183.035		
200.0	200.0	201.0	201.0	0.3	0.3	90.91	-0.7	45.0	45.0	44.4	0.60	75.683 CC		
227.8	227.8	228.8	228.8	0.3	0.3	169.80	-0.7	45.0	45.1	44.4	0.69	65.171 ES		
300.0	300.0	301.0	301.0	0.5	0.5	169.88	-0.7	45.0	45.5	44.5	0.94	48.163		
400.0	399.9	400.9	400.9	0.7	0.6	170.59	-0.7	45.0	48.9	47.6	1.29	37.845		
500.0	499.7	500.8	500.8	0.9	0.8	171.52	-0.5	45.0	55.7	54.1	1.64	33.992		
600.0	599.1	600.6	600.6	1.1	1.0	171.37	1.2	44.6	65.6	63.6	1.99	32.992 SF		
700.0	698.2	700.2	700.1	1.4	1.2	170.40	4.6	43.7	78.3	76.0	2.34	33.495		
800.0	796.6	799.1	798.9	1.7	1.4	169.16	9.4	42.5	94.1	91.4	2.70	34.908		
900.0	894.4	897.2	896.9	2.1	1.5	168.47	14.5	41.2	113.3	110.2	3.06	37.049		
1,000.0	991.5	994.7	994.2	2.6	1.7	168.25	19.5	40.0	135.7	132.3	3.42	39.712		
1,100.0	1,087.8	1,091.5	1,090.8	3.1	1.9	168.34	24.4	38.7	160.9	157.1	3.79	42.484		
1,200.0	1,184.0	1,188.2	1,187.4	3.6	2.1	168.45	29.4	37.4	186.3	182.2	4.16	44.741		
1,300.0	1,280.2	1,284.9	1,284.0	4.1	2.3	168.53	34.4	36.2	211.7	207.2	4.54	46.612		
1,400.0	1,376.5	1,381.6	1,380.6	4.6	2.5	168.59	39.4	34.9	237.1	232.2	4.92	48.186		
1,500.0	1,472.7	1,478.3	1,477.2	5.1	2.7	168.64	44.3	33.7	262.5	257.2	5.30	49.528		
1,600.0	1,569.0	1,575.0	1,573.7	5.6	2.9	168.69	49.3	32.4	287.9	282.3	5.68	50.685		
1,700.0	1,665.2	1,671.8	1,670.3	6.1	3.0	168.72	54.3	31.2	313.3	307.3	6.06	51.693		
1,800.0	1,761.4	1,768.5	1,766.9	6.6	3.2	168.75	59.2	29.9	338.8	332.3	6.44	52.579		
1,900.0	1,857.7	1,865.2	1,863.5	7.2	3.4	168.78	64.2	28.7	364.2	357.3	6.82	53.363		
2,000.0	1,953.9	1,961.9	1,960.1	7.7	3.6	168.80	69.2	27.4	389.6	382.4	7.21	54.062		
2,100.0	2,050.2	2,058.6	2,056.7	8.2	3.8	168.82	74.2	26.2	415.0	407.4	7.59	54.689		
2,200.0	2,146.4	2,155.4	2,153.2	8.7	4.0	168.84	79.1	24.9	440.4	432.4	7.97	55.255		
2,300.0	2,242.6	2,252.1	2,249.8	9.2	4.2	168.85	84.1	23.7	465.8	457.4	8.35	55.768		
2,400.0	2,338.9	2,348.8	2,346.4	9.7	4.4	168.87	89.1	22.4	491.2	482.5	8.73	56.234		
2,500.0	2,435.1	2,445.5	2,443.0	10.3	4.6	168.88	94.0	21.2	516.6	507.5	9.12	56.661		
2,600.0	2,531.4	2,542.2	2,539.6	10.8	4.8	168.89	99.0	19.9	542.0	532.5	9.50	57.053		
2,700.0	2,627.6	2,638.9	2,636.2	11.3	4.9	168.90	104.0	18.7	567.4	557.5	9.88	57.414		
2,800.0	2,723.8	2,735.7	2,732.7	11.8	5.1	168.91	108.9	17.4	592.8	582.6	10.27	57.747		
2,900.0	2,820.1	2,832.4	2,829.3	12.3	5.3	168.92	113.9	16.2	618.2	607.6	10.65	58.056		
3,000.0	2,916.3	2,929.1	2,925.9	12.9	5.5	168.93	118.9	14.9	643.6	632.6	11.03	58.343		
3,100.0	3,012.6	3,025.8	3,022.5	13.4	5.7	168.94	123.9	13.7	669.0	657.6	11.42	58.611		
3,200.0	3,108.8	3,122.5	3,119.1	13.9	5.9	168.94	128.8	12.4	694.5	682.7	11.80	58.861		
3,300.0	3,205.0	3,219.3	3,215.6	14.4	6.1	168.95	133.8	11.2	719.9	707.7	12.18	59.095		
3,400.0	3,301.3	3,316.0	3,312.2	14.9	6.3	168.96	138.8	9.9	745.3	732.7	12.56	59.314		
3,500.0	3,397.5	3,412.7	3,408.8	15.5	6.5	168.96	143.7	8.7	770.7	757.7	12.95	59.520		
3,600.0	3,493.8	3,509.4	3,505.4	16.0	6.7	168.97	148.7	7.4	796.1	782.8	13.33	59.715		
3,700.0	3,590.0	3,606.1	3,602.0	16.5	6.8	168.97	153.7	6.2	821.5	807.8	13.71	59.898		
3,800.0	3,686.2	3,702.8	3,698.6	17.0	7.0	168.98	158.7	4.9	846.9	832.8	14.10	60.071		
3,900.0	3,782.5	3,799.6	3,795.1	17.5	7.2	168.98	163.6	3.6	872.3	857.8	14.48	60.235		
4,000.0	3,878.7	3,896.3	3,891.7	18.1	7.4	168.99	168.6	2.4	897.7	882.8	14.87	60.390		
4,100.0	3,974.9	3,993.0	3,988.3	18.6	7.6	168.99	173.6	1.1	923.1	907.9	15.25	60.537		
4,200.0	4,071.2	4,089.7	4,084.9	19.1	7.8	168.99	178.5	-0.1	948.5	932.9	15.63	60.677		
4,300.0	4,167.4	4,186.4	4,181.5	19.6	8.0	169.00	183.5	-1.4	973.9	957.9	16.02	60.810		
4,400.0	4,263.7	4,283.2	4,278.1	20.1	8.2	169.00	188.5	-2.6	999.3	982.9	16.40	60.937		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		
0.0	0.0	2.0	2.0	0.0	0.0	90.79	-0.7	52.6	52.6					
100.0	100.0	102.0	102.0	0.1	0.1	90.79	-0.7	52.6	52.6	52.3	0.25	212.219		
200.0	200.0	202.0	202.0	0.3	0.3	90.79	-0.7	52.6	52.6	52.0	0.60	88.114 CC		
227.8	227.8	229.8	229.8	0.3	0.3	169.68	-0.7	52.6	52.7	52.0	0.69	75.891 ES		
300.0	300.0	302.0	302.0	0.5	0.5	169.75	-0.7	52.6	53.0	52.1	0.95	56.059		
400.0	399.9	401.9	401.9	0.7	0.6	170.37	-0.7	52.6	56.5	55.2	1.29	43.628		
500.0	499.7	501.2	501.2	0.9	0.8	170.68	0.1	53.0	63.8	62.1	1.64	38.851		
600.0	599.1	600.0	600.0	1.1	1.0	170.15	2.3	54.3	75.3	73.3	1.99	37.843 SF		
700.0	698.2	698.0	697.9	1.4	1.2	169.18	6.0	56.3	91.0	88.6	2.34	38.874		
800.0	796.6	795.7	795.4	1.7	1.4	168.19	10.9	59.1	110.8	108.1	2.70	41.065		
900.0	894.4	893.0	892.5	2.1	1.6	167.74	15.9	61.8	133.9	130.9	3.06	43.830		
1,000.0	991.5	989.4	988.8	2.6	1.7	167.65	20.9	64.6	160.4	157.0	3.41	46.984		
1,100.0	1,087.8	1,085.1	1,084.3	3.1	1.9	167.81	25.8	67.3	189.6	185.8	3.78	50.130		
1,200.0	1,184.0	1,180.7	1,179.7	3.6	2.1	167.98	30.7	70.0	218.9	214.8	4.16	52.682		
1,300.0	1,280.2	1,276.3	1,275.1	4.1	2.3	168.11	35.5	72.7	248.3	243.8	4.53	54.800		
1,400.0	1,376.5	1,371.8	1,370.6	4.6	2.5	168.21	40.4	75.4	277.7	272.8	4.91	56.585		
1,500.0	1,472.7	1,467.4	1,466.0	5.1	2.7	168.29	45.3	78.1	307.1	301.8	5.28	58.108		
1,600.0	1,569.0	1,563.0	1,561.4	5.6	2.9	168.36	50.2	80.8	336.5	330.8	5.66	59.423		
1,700.0	1,665.2	1,658.6	1,656.8	6.1	3.1	168.42	55.1	83.6	365.8	359.8	6.04	60.570		
1,800.0	1,761.4	1,754.2	1,752.2	6.6	3.3	168.47	60.0	86.3	395.2	388.8	6.42	61.578		
1,900.0	1,857.7	1,849.8	1,847.7	7.2	3.5	168.51	64.9	89.0	424.6	417.8	6.80	62.472		
2,000.0	1,953.9	1,945.4	1,943.1	7.7	3.6	168.54	69.8	91.7	454.0	446.8	7.18	63.269		
2,100.0	2,050.2	2,040.9	2,038.5	8.2	3.8	168.58	74.7	94.4	483.4	475.8	7.55	63.985		
2,200.0	2,146.4	2,136.5	2,133.9	8.7	4.0	168.60	79.6	97.1	512.7	504.8	7.93	64.630		
2,300.0	2,242.6	2,232.1	2,229.4	9.2	4.2	168.63	84.5	99.8	542.1	533.8	8.31	65.216		
2,400.0	2,338.9	2,327.7	2,324.8	9.7	4.4	168.65	89.4	102.6	571.5	562.8	8.69	65.750		
2,500.0	2,435.1	2,423.3	2,420.2	10.3	4.6	168.67	94.3	105.3	600.9	591.8	9.07	66.238		
2,600.0	2,531.4	2,518.9	2,515.6	10.8	4.8	168.69	99.2	108.0	630.3	620.8	9.45	66.686		
2,700.0	2,627.6	2,614.5	2,611.0	11.3	5.0	168.71	104.1	110.7	659.6	649.8	9.83	67.099		
2,800.0	2,723.8	2,710.0	2,706.5	11.8	5.2	168.72	109.0	113.4	689.0	678.8	10.21	67.481		
2,900.0	2,820.1	2,805.6	2,801.9	12.3	5.4	168.74	113.9	116.1	718.4	707.8	10.59	67.835		
3,000.0	2,916.3	2,901.2	2,897.3	12.9	5.6	168.75	118.7	118.8	747.8	736.8	10.97	68.164		
3,100.0	3,012.6	2,996.8	2,992.7	13.4	5.8	168.76	123.6	121.5	777.2	765.8	11.35	68.471		
3,200.0	3,108.8	3,092.4	3,088.2	13.9	6.0	168.77	128.5	124.3	806.6	794.8	11.73	68.758		
3,300.0	3,205.0	3,188.0	3,183.6	14.4	6.1	168.78	133.4	127.0	835.9	823.8	12.11	69.026		
3,400.0	3,301.3	3,283.6	3,279.0	14.9	6.3	168.79	138.3	129.7	865.3	852.8	12.49	69.278		
3,500.0	3,397.5	3,379.1	3,374.4	15.5	6.5	168.80	143.2	132.4	894.7	881.8	12.87	69.515		
3,600.0	3,493.8	3,474.7	3,469.8	16.0	6.7	168.81	148.1	135.1	924.1	910.8	13.25	69.738		
3,700.0	3,590.0	3,570.3	3,565.3	16.5	6.9	168.82	153.0	137.8	953.5	939.8	13.63	69.948		
3,800.0	3,686.2	3,665.9	3,660.7	17.0	7.1	168.83	157.9	140.5	982.9	968.8	14.01	70.147		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	2.0	2.0	0.0	0.0	90.71	-0.7	60.1	60.1					
100.0	100.0	102.0	102.0	0.1	0.1	90.71	-0.7	60.1	60.1	59.9	0.25	242.692		
200.0	200.0	202.0	202.0	0.3	0.3	90.71	-0.7	60.1	60.1	59.6	0.60	100.767 CC		
227.8	227.8	229.8	229.8	0.3	0.3	169.59	-0.7	60.1	60.2	59.5	0.69	86.775 ES		
300.0	300.0	302.0	302.0	0.5	0.5	169.65	-0.7	60.1	60.6	59.6	0.95	64.043		
400.0	399.9	401.5	401.5	0.7	0.6	170.07	-0.6	60.3	64.2	62.9	1.29	49.634		
500.0	499.7	500.0	500.0	0.9	0.8	170.15	0.4	61.7	72.5	70.8	1.64	44.206		
600.0	599.1	598.3	598.2	1.1	1.0	169.88	2.4	64.5	85.5	83.5	1.99	43.059 SF		
700.0	698.2	695.4	695.2	1.4	1.2	169.43	5.4	68.5	103.3	100.9	2.33	44.274		
800.0	796.6	791.3	790.9	1.7	1.4	168.93	9.3	73.8	125.7	123.0	2.68	46.891		
900.0	894.4	886.3	885.6	2.1	1.6	168.44	14.1	80.3	152.7	149.7	3.03	50.371		
1,000.0	991.5	981.5	980.4	2.6	1.8	168.20	19.1	87.1	183.3	179.9	3.39	54.149		
1,100.0	1,087.8	1,075.9	1,074.4	3.1	2.0	168.23	24.0	93.8	216.5	212.8	3.75	57.775		
1,200.0	1,184.0	1,170.1	1,168.2	3.6	2.2	168.30	28.9	100.5	249.9	245.8	4.12	60.699		
1,300.0	1,280.2	1,264.4	1,262.1	4.1	2.4	168.36	33.8	107.2	283.4	278.9	4.49	63.122		
1,400.0	1,376.5	1,358.6	1,356.0	4.6	2.6	168.41	38.8	113.9	316.8	312.0	4.86	65.159		
1,500.0	1,472.7	1,452.8	1,449.9	5.1	2.8	168.44	43.7	120.6	350.3	345.0	5.24	66.896		
1,600.0	1,569.0	1,547.1	1,543.7	5.6	3.1	168.47	48.6	127.3	383.7	378.1	5.61	68.394		
1,700.0	1,665.2	1,641.3	1,637.6	6.1	3.3	168.50	53.6	134.0	417.1	411.2	5.99	69.698		
1,800.0	1,761.4	1,735.6	1,731.5	6.6	3.5	168.52	58.5	140.7	450.6	444.2	6.36	70.843		
1,900.0	1,857.7	1,829.8	1,825.4	7.2	3.7	168.54	63.4	147.4	484.0	477.3	6.74	71.857		
2,000.0	1,953.9	1,924.1	1,919.2	7.7	3.9	168.55	68.3	154.1	517.5	510.4	7.11	72.760		
2,100.0	2,050.2	2,018.3	2,013.1	8.2	4.1	168.57	73.3	160.8	550.9	543.4	7.49	73.570		
2,200.0	2,146.4	2,112.5	2,107.0	8.7	4.4	168.58	78.2	167.5	584.4	576.5	7.86	74.301		
2,300.0	2,242.6	2,206.8	2,200.9	9.2	4.6	168.59	83.1	174.2	617.8	609.6	8.24	74.963		
2,400.0	2,338.9	2,301.0	2,294.7	9.7	4.8	168.60	88.0	180.9	651.2	642.6	8.62	75.565		
2,500.0	2,435.1	2,395.3	2,388.6	10.3	5.0	168.61	93.0	187.6	684.7	675.7	9.00	76.116		
2,600.0	2,531.4	2,489.5	2,482.5	10.8	5.2	168.62	97.9	194.3	718.1	708.7	9.37	76.622		
2,700.0	2,627.6	2,583.8	2,576.4	11.3	5.4	168.63	102.8	201.0	751.6	741.8	9.75	77.087		
2,800.0	2,723.8	2,678.0	2,670.2	11.8	5.7	168.63	107.8	207.7	785.0	774.9	10.13	77.517		
2,900.0	2,820.1	2,772.2	2,764.1	12.3	5.9	168.64	112.7	214.4	818.4	807.9	10.50	77.916		
3,000.0	2,916.3	2,866.5	2,858.0	12.9	6.1	168.65	117.6	221.1	851.9	841.0	10.88	78.286		
3,100.0	3,012.6	2,960.7	2,951.9	13.4	6.3	168.65	122.5	227.8	885.3	874.1	11.26	78.631		
3,200.0	3,108.8	3,055.0	3,045.7	13.9	6.5	168.66	127.5	234.5	918.8	907.1	11.64	78.953		
3,300.0	3,205.0	3,149.2	3,139.6	14.4	6.8	168.66	132.4	241.2	952.2	940.2	12.01	79.254		
3,400.0	3,301.3	3,243.5	3,233.5	14.9	7.0	168.66	137.3	247.9	985.6	973.2	12.39	79.537		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		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	2.0	2.0	0.0	0.0	90.64	-0.8	67.4	67.4					
100.0	100.0	102.0	102.0	0.1	0.1	90.64	-0.8	67.4	67.4	67.2	0.25	272.037		
200.0	200.0	202.0	202.0	0.3	0.3	90.64	-0.8	67.4	67.4	66.8	0.60	112.951 CC		
228.9	228.9	230.9	230.9	0.3	0.4	169.53	-0.8	67.4	67.5	66.8	0.70	96.719 ES		
300.0	300.0	302.0	302.0	0.5	0.5	169.58	-0.8	67.4	67.9	66.9	0.95	71.735		
400.0	399.9	400.8	400.8	0.7	0.6	169.76	-0.4	68.2	72.1	70.8	1.29	55.783		
500.0	499.7	499.2	499.1	0.9	0.8	169.80	0.7	70.6	81.3	79.7	1.64	49.638		
600.0	599.1	596.8	596.7	1.1	1.0	169.73	2.5	74.4	95.5	93.5	1.98	48.146 SF		
700.0	698.2	693.4	693.1	1.4	1.2	169.60	4.9	79.7	114.5	112.2	2.33	49.216		
800.0	796.6	788.6	788.0	1.7	1.4	169.44	8.0	86.3	138.4	135.7	2.67	51.833		
900.0	894.4	882.2	881.2	2.1	1.6	169.26	11.6	94.2	167.0	164.0	3.01	55.442		
1,000.0	991.5	973.8	972.3	2.6	1.8	169.07	15.8	103.3	200.3	196.9	3.35	59.712		
1,100.0	1,087.8	1,064.4	1,062.2	3.1	2.1	168.96	20.6	113.6	237.4	233.7	3.71	64.062		
1,200.0	1,184.0	1,157.0	1,154.0	3.6	2.3	168.89	25.6	124.4	275.2	271.1	4.07	67.584		
1,300.0	1,280.2	1,249.6	1,245.8	4.1	2.6	168.84	30.6	135.3	312.9	308.5	4.44	70.499		
1,400.0	1,376.5	1,342.2	1,337.6	4.6	2.8	168.80	35.6	146.1	350.7	345.9	4.81	72.949		
1,500.0	1,472.7	1,434.8	1,429.5	5.1	3.1	168.76	40.6	156.9	388.4	383.2	5.18	75.033		
1,600.0	1,569.0	1,527.4	1,521.3	5.6	3.3	168.74	45.6	167.7	426.1	420.6	5.55	76.828		
1,700.0	1,665.2	1,620.0	1,613.1	6.1	3.6	168.71	50.6	178.6	463.9	458.0	5.92	78.389		
1,800.0	1,761.4	1,712.6	1,705.0	6.6	3.8	168.69	55.6	189.4	501.6	495.3	6.29	79.758		
1,900.0	1,857.7	1,805.2	1,796.8	7.2	4.1	168.68	60.6	200.2	539.4	532.7	6.66	80.969		
2,000.0	1,953.9	1,897.8	1,888.6	7.7	4.4	168.66	65.6	211.1	577.1	570.1	7.03	82.046		
2,100.0	2,050.2	1,990.4	1,980.5	8.2	4.6	168.65	70.6	221.9	614.9	607.5	7.41	83.011		
2,200.0	2,146.4	2,083.0	2,072.3	8.7	4.9	168.64	75.6	232.7	652.6	644.8	7.78	83.881		
2,300.0	2,242.6	2,175.6	2,164.1	9.2	5.1	168.63	80.6	243.6	690.4	682.2	8.15	84.668		
2,400.0	2,338.9	2,268.3	2,256.0	9.7	5.4	168.62	85.6	254.4	728.1	719.6	8.53	85.384		
2,500.0	2,435.1	2,360.9	2,347.8	10.3	5.7	168.61	90.6	265.2	765.8	756.9	8.90	86.038		
2,600.0	2,531.4	2,453.5	2,439.6	10.8	5.9	168.60	95.6	276.0	803.6	794.3	9.28	86.638		
2,700.0	2,627.6	2,546.1	2,531.5	11.3	6.2	168.60	100.6	286.9	841.3	831.7	9.65	87.190		
2,800.0	2,723.8	2,638.7	2,623.3	11.8	6.4	168.59	105.6	297.7	879.1	869.1	10.02	87.699		
2,900.0	2,820.1	2,731.3	2,715.1	12.3	6.7	168.59	110.6	308.5	916.8	906.4	10.40	88.171		
3,000.0	2,916.3	2,823.9	2,807.0	12.9	7.0	168.58	115.6	319.4	954.6	943.8	10.77	88.609		
3,100.0	3,012.6	2,916.5	2,898.8	13.4	7.2	168.58	120.6	330.2	992.3	981.2	11.15	89.017		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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		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	2.0	2.0	0.0	0.0	90.83	-1.1	75.0	75.0					
100.0	100.0	102.0	102.0	0.1	0.1	90.83	-1.1	75.0	75.0	74.7	0.25	302.527		
200.0	200.0	202.0	202.0	0.3	0.3	90.83	-1.1	75.0	75.0	74.4	0.60	125.611 CC		
226.9	226.9	228.9	228.9	0.3	0.3	169.71	-1.1	75.0	75.0	74.3	0.69	108.630 ES		
300.0	300.0	301.4	301.4	0.5	0.5	169.70	-1.0	75.2	75.6	74.7	0.94	80.047		
400.0	399.9	400.0	400.0	0.7	0.6	169.71	-0.5	76.8	80.7	79.4	1.29	62.520		
500.0	499.7	498.1	498.0	0.9	0.8	169.73	0.6	80.1	90.8	89.2	1.64	55.525		
600.0	599.1	595.3	595.1	1.1	1.0	169.75	2.2	84.8	106.0	104.0	1.98	53.526 SF		
700.0	698.2	691.5	691.0	1.4	1.2	169.76	4.3	91.1	126.0	123.7	2.32	54.288		
800.0	796.6	786.1	785.4	1.7	1.4	169.75	6.9	98.7	151.0	148.3	2.66	56.728		
900.0	894.4	879.1	877.8	2.1	1.6	169.73	9.9	107.7	180.7	177.7	3.00	60.257		
1,000.0	991.5	970.0	968.1	2.6	1.9	169.69	13.3	117.8	215.1	211.8	3.33	64.527		
1,100.0	1,087.8	1,058.9	1,056.2	3.1	2.1	169.70	17.1	129.0	253.5	249.8	3.68	68.938		
1,200.0	1,184.0	1,146.7	1,143.0	3.6	2.4	169.66	21.3	141.3	293.5	289.4	4.03	72.837		
1,300.0	1,280.2	1,233.3	1,228.5	4.1	2.7	169.55	25.8	154.7	334.7	330.3	4.38	76.386		
1,400.0	1,376.5	1,322.2	1,316.0	4.6	2.9	169.39	30.7	169.5	377.0	372.2	4.74	79.504		
1,500.0	1,472.7	1,412.8	1,405.2	5.1	3.3	169.26	35.8	184.6	419.3	414.2	5.11	82.127		
1,600.0	1,569.0	1,503.4	1,494.4	5.6	3.6	169.16	40.9	199.7	461.7	456.2	5.47	84.385		
1,700.0	1,665.2	1,594.0	1,583.5	6.1	3.9	169.07	46.0	214.8	504.0	498.2	5.84	86.345		
1,800.0	1,761.4	1,684.5	1,672.7	6.6	4.2	168.99	51.1	229.9	546.4	540.2	6.20	88.064		
1,900.0	1,857.7	1,775.1	1,761.9	7.2	4.5	168.93	56.2	245.1	588.8	582.2	6.57	89.582		
2,000.0	1,953.9	1,865.7	1,851.0	7.7	4.8	168.88	61.3	260.2	631.1	624.2	6.94	90.933		
2,100.0	2,050.2	1,956.3	1,940.2	8.2	5.1	168.83	66.3	275.3	673.5	666.2	7.31	92.143		
2,200.0	2,146.4	2,046.9	2,029.4	8.7	5.4	168.78	71.4	290.4	715.8	708.2	7.68	93.231		
2,300.0	2,242.6	2,137.5	2,118.5	9.2	5.8	168.75	76.5	305.5	758.2	750.2	8.05	94.216		
2,400.0	2,338.9	2,228.1	2,207.7	9.7	6.1	168.71	81.6	320.6	800.6	792.1	8.42	95.112		
2,500.0	2,435.1	2,318.6	2,296.9	10.3	6.4	168.68	86.7	335.7	842.9	834.1	8.79	95.929		
2,600.0	2,531.4	2,409.2	2,386.1	10.8	6.7	168.66	91.8	350.8	885.3	876.1	9.16	96.678		
2,700.0	2,627.6	2,499.8	2,475.2	11.3	7.0	168.63	96.9	366.0	927.6	918.1	9.53	97.367		
2,800.0	2,723.8	2,590.4	2,564.4	11.8	7.4	168.61	101.9	381.1	970.0	960.1	9.90	98.003		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2B-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4983.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4983.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2B-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 Depths are relative to WELL @ 4983.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Newman 2B-32H-C264

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

